ADVANCED COMPETITIVE SERVICES

LIST OF EFFECTIVE SHEETS

Sheets B through 188 of this schedule are cancelled/withdrawn as of the date shown below. Services from this schedule will be provided from the Verizon Product Guide. (N) (N)

Sheet	Original or Number of Revision		Sheet	Original or Number of Revision	
A	20th	*	28	Original	#
A.1	7th	*	29	Original	#
A.2	2nd	*	30	Original	#
B	7th	#	31	Original	#
B.1	Original	#	32	Original	#
B.2	Original	#	33	2nd	#
B.3	1st	#	34	2nd	#
B.4	Original	#	35	2nd	#
B.5	Original	#	36	1st	#
1	Original	#	37	1st	#
2	3rd	#	38	1st	#
3	3rd	#	39	1st	#
4	3rd	#	40	1st	#
5	3rd	#	41	2nd	#
6	3rd	#	42	Original	#
7	3rd	#	43	Original	#
8	3rd	#	44	1st	#
9	3rd	#	45	1st	#
10	3rd	#	46	Original	#
11	3rd	#	47	Original	#
12	3rd	#	48	Original	#
13	3rd	#	49	Original	#
14	3rd	#	50	Original	#
15	3rd	#	51	Original	#
16	Original	#	52	Original	#
17	Original	#	53	Original	#
18	Original	#	54	1st	#
19	Original	#	55	Original	#
20	Original	#	56	1st	#
21	Original	#	57	1st	#
22	Original	#	58	1st	#
23	Original	#	59	1st	#
24	Original	#	60	1st	#
25	Original	#	61	1st	#
26	Original	#	62	1st	#
27	Original	#			

* Denotes change
\# Withdrawn

Continued

ADVANCED COMPETITIVE SERVICES

LIST OF EFFECTIVE SHEETS

Sheets A through 188 of this schedule are effective as of the date shown on each sheet. Original or revised sheets contain all material including changes from the original schedule that are in effect on the date hereof. (T)

Sheet	Original or Number of Revision		Sheet	Original or Number of Revision	
A	19th	*	28	Original	
A.1	6th	*	29	Original	
A.2	1st	*	30	Original	
B	7th		31	Original	
B.1	Original		32	Original	
B.2	Original		33	2nd	
B.3	1st		34	2nd	
B.4	Original		35	2nd	
B.5	Original	*	36	1st	
1	Original		37	1st	
2	3rd		38	1st	
3	3rd		39	1st	
4	3rd		40	1st	
5	3rd		41	2nd	
6	3rd		42	Original	
7	3rd		43	Original	
8	3rd		44	1st	
9	3rd		45	1st	
10	3rd		46	Original	
11	3rd		47	Original	
12	3rd		48	Original	
13	3rd		49	Original	
14	3rd		50	Original	
15	3rd		51	Original	
16	Original		52	Original	
17	Original		53	Original	
18	Original		54	1st	
19	Original		55	Original	
20	Original		56	1st	
21	Original		57	1st	
22	Original		58	1st	
23	Original		59	1st	
24	Original		60	1st	
25	Original		61	1st	
26	Original		62	1st	
27	Original				(L)
					|
					(L)

* Denotes change
\# Withdrawn

(L) Material moved to 5th Revised Sheet A.1

Continued

ADVANCED COMPETITIVE SERVICES

LIST OF EFFECTIVE SHEETS

Sheets A through 129 of this schedule are effective as of the date shown on each sheet. Original or revised sheets contain all material including changes from the original schedule that are in effect on the date hereof.

Sheet	Original or Number of Revision		Sheet	Original or Number of Revision	
A	18th	*	28	Original	
A.1	5th	*	29	Original	
A.2	Original	*	30	Original	
B	7th		31	Original	
B.1	Original		32	Original	
B.2	Original		33	3rd	
B.3	1st		34	3rd	
B.4	Original	*	35	3rd	
1	Original		36	2nd	
2	3rd		37	2nd	
3	3rd		38	2nd	
4	3rd		39	2nd	
5	3rd		40	2nd	
6	3rd		41	3rd	
7	3rd		42	1st	
8	3rd		43	1st	
9	3rd		44	2nd	
10	3rd		45	1st	
11	3rd		46	Original	
12	3rd		47	Original	
13	3rd		48	Original	
14	3rd		49	Original	
15	3rd		50	Original	
16	Original		51	Original	
17	Original		52	Original	
18	Original		53	Original	
19	Original		54	1st	
20	Original		55	Original	
21	Original		56	1st	
22	Original		57	2nd	
23	Original		58	2nd	
24	Original		59	2nd	
25	Original		60	2nd	
26	Original		61	2nd	
27	Original		62	2nd	(L)
			63	1st	|
			64	1st	|
			65	1st	(L)

* Denotes change
\# Withdrawn
(L) Material formerly on this sheet moved to 5th Revised Sheet A.1.

Continued

ADVANCED COMPETITIVE SERVICES

LIST OF EFFECTIVE SHEETS

Sheets A through 129 of this schedule are effective as of the date shown on each sheet. Original or revised sheets contain all material including changes from the original schedule that are in effect on the date hereof.

Sheet	Original or Number of Revision		Sheet	Original or Number of Revision	
A	17th	*	32	Original	
A.1	4th		33	3rd	
B	7th		34	3rd	
B.1	Original		35	3rd	
B.2	Original		36	2nd	
B.3	1st		37	2nd	
1	Original		38	2nd	
2	3rd		39	2nd	
3	3rd		40	2nd	
4	3rd		41	3rd	
5	3rd		42	1st	
6	3rd		43	1st	
7	3rd		44	2nd	
8	3rd		45	1st	
9	3rd		46	Original	
10	3rd		47	Original	
11	3rd		48	Original	
12	3rd		49	Original	
13	3rd		50	Original	
14	3rd		51	Original	
15	3rd		52	Original	
16	Original		53	Original	
17	Original		54	1st	
18	Original		55	Original	
19	Original		56	1st	
20	Original		57	2nd	*
21	Original		58	2nd	*
22	Original		59	2nd	*
23	Original		60	2nd	*
24	Original		61	2nd	*
25	Original		62	2nd	*
26	Original		63	1st	*
27	Original		64	1st	*
28	Original		65	1st	*
29	Original		66	2nd	*
30	Original		67	2nd	*
31	Original		68	Original	
* Denotes change			69	1st	*
# Withdrawn					

Continued

ADVANCED COMPETITIVE SERVICES

LIST OF EFFECTIVE SHEETS

Sheets A through 129 of this schedule are effective as of the date shown on each sheet. Original or revised sheets contain all material including changes from the original schedule that are in effect on the date hereof.

Sheet	Original or Number of Revision		Sheet	Original or Number of Revision
A	16th	*	32	Original
A.1	4th	*	33	3rd
B	7th		34	3rd
B.1	Original		35	3rd
B.2	Original		36	2nd
B.3	1st		37	2nd
1	Original		38	2nd
2	3rd		39	2nd
3	3rd		40	2nd
4	3rd		41	3rd
5	3rd		42	1st
6	3rd		43	1st
7	3rd		44	2nd
8	3rd		45	1st
9	3rd		46	Original
10	3rd		47	Original
11	3rd		48	Original
12	3rd		49	Original
13	3rd		50	Original
14	3rd		51	Original
15	3rd		52	Original
16	Original		53	Original
17	Original		54	1st
18	Original		55	Original
19	Original		56	1st
20	Original		57	1st
21	Original		58	1st
22	Original		59	1st
23	Original		60	1st
24	Original		61	1st
25	Original		62	1st
26	Original		63	Original
27	Original		64	Original
28	Original		65	Original
29	Original		66	1st
30	Original		67	1st
31	Original		68	Original
* Denotes change			69	Original
# Withdrawn				

Continued

ADVANCED COMPETITIVE SERVICES

LIST OF EFFECTIVE SHEETS

Sheets A through 129 of this schedule are effective as of the date shown on each sheet. Original or revised sheets contain all material including changes from the original schedule that are in effect on the date hereof.

Sheet	Original or Number of Revision		Sheet	Original or Number of Revision	
A	15th	*	32	Original	
A.1	3rd		33	3rd	*
B	7th		34	3rd	*
B.1	Original		35	3rd	*
B.2	Original		36	2nd	*
B.3	1st		37	2nd	*
1	Original		38	2nd	*
2	3rd		39	2nd	*
3	3rd		40	2nd	*
4	3rd		41	3rd	*
5	3rd		42	1st	*
6	3rd		43	1st	*
7	3rd		44	2nd	*
8	3rd		45	1st	
9	3rd		46	Original	
10	3rd		47	Original	
11	3rd		48	Original	
12	3rd		49	Original	
13	3rd		50	Original	
14	3rd		51	Original	
15	3rd		52	Original	
16	Original		53	Original	
17	Original		54	1st	
18	Original		55	Original	
19	Original		56	1st	
20	Original		57	1st	
21	Original		58	1st	
22	Original		59	1st	
23	Original		60	1st	
24	Original		61	1st	
25	Original		62	1st	
26	Original		63	Original	
27	Original		64	Original	
28	Original		65	Original	
29	Original		66	1st	
30	Original		67	1st	
31	Original		68	Original	
* Denotes change			69	Original	
# Withdrawn					

Continued

ADVANCED COMPETITIVE SERVICES

LIST OF EFFECTIVE SHEETS

Sheets A through 129 of this schedule are effective as of the date shown on each sheet. Original or revised sheets contain all material including changes from the original schedule that are in effect on the date hereof.

Sheet	Original or Number of Revision		Sheet	Original or Number of Revision
A	14th	*	32	Original
A.1	3rd	*	33	2nd
B	7th		34	2nd
B.1	Original		35	2nd
B.2	Original		36	1st
B.3	1st		37	1st
1	Original		38	1st
2	3rd		39	1st
3	3rd		40	1st
4	3rd		41	2nd
5	3rd		42	Original
6	3rd		43	Original
7	3rd		44	1st
8	3rd		45	1st
9	3rd		46	Original
10	3rd		47	Original
11	3rd		48	Original
12	3rd		49	Original
13	3rd		50	Original
14	3rd		51	Original
15	3rd		52	Original
16	Original		53	Original
17	Original		54	1st
18	Original		55	Original
19	Original		56	1st
20	Original		57	1st
21	Original		58	1st
22	Original		59	1st
23	Original		60	1st
24	Original		61	1st
25	Original		62	1st
26	Original		63	Original
27	Original		64	Original
28	Original		65	Original
29	Original		66	1st
30	Original		67	1st
31	Original		68	Original
* Denotes change			69	Original
# Withdrawn				

Continued

ADVANCED COMPETITIVE SERVICES

LIST OF EFFECTIVE SHEETS

Sheets A through 129 of this schedule are effective as of the date shown on each sheet. Original or revised sheets contain all material including changes from the original schedule that are in effect on the date hereof. (T)

Sheet	Original or Number of Revision		Sheet	Original or Number of Revision
A	13th	*	32	Original
A.1	2nd	*	33	2nd
B	7th		34	2nd
B.1	Original		35	2nd
B.2	Original		36	1st
B.3	1st	*	37	1st
1	Original		38	1st
2	3rd		39	1st
3	3rd		40	1st
4	3rd		41	2nd
5	3rd		42	Original
6	3rd		43	Original
7	3rd		44	1st
8	3rd		45	1st
9	3rd		46	Original
10	3rd		47	Original
11	3rd		48	Original
12	3rd		49	Original
13	3rd		50	Original
14	3rd		51	Original
15	3rd		52	Original
16	Original		53	Original
17	Original		54	1st
18	Original		55	Original
19	Original		56	1st
20	Original		57	1st
21	Original		58	1st
22	Original		59	1st
23	Original		60	1st
24	Original		61	1st
25	Original		62	1st
26	Original		63	Original
27	Original		64	Original
28	Original		65	Original
29	Original		66	1st
30	Original		67	1st
31	Original		68	Original
* Denotes change			69	Original
# Withdrawn				

Continued

ADVANCED COMPETITIVE SERVICES

LIST OF EFFECTIVE SHEETS

Sheets A through 41 of this schedule are effective as of the date shown on each sheet. Original or revised sheets contain all material including changes from the original schedule that are in effect on the date hereof.

Sheet	Original or Number of Revision		Sheet	Original or Number of Revision
A	12th	*	32	Original
A.1	1st	*	33	2nd
B	7th		34	2nd
B.1	Original		35	2nd
B.2	Original		36	1st
B.3	Original	*	37	1st
1	Original		38	1st
2	3rd		39	1st
3	3rd		40	1st
4	3rd		41	2nd
5	3rd		42	Original
6	3rd		43	Original
7	3rd		44	1st
8	3rd		45	1st
9	3rd		46	Original
10	3rd		47	Original
11	3rd		48	Original
12	3rd		49	Original
13	3rd		50	Original
14	3rd		51	Original
15	3rd		52	Original
16	Original		53	Original
17	Original		54	1st
18	Original		55	Original
19	Original		56	1st
20	Original		57	1st
21	Original		58	1st
22	Original		59	1st
23	Original		60	1st
24	Original		61	1st
25	Original		62	1st
26	Original		63	Original
27	Original		64	Original
28	Original		65	Original
29	Original		66	1st
30	Original		67	1st
31	Original		68	Original
* Denotes change			69	Original
# Withdrawn				

Continued

ADVANCED COMPETITIVE SERVICES

LIST OF EFFECTIVE SHEETS

Sheets A through 41 of this schedule are effective as of the date shown on each sheet. Original or revised sheets contain all material including changes from the original schedule that are in effect on the date hereof.

Sheet	Original or Number of Revision		Sheet	Original or Number of Revision	
A	11th	*	32	Original	
A.1	Original		33	2nd	
B	7th		34	2nd	
B.1	Original		35	2nd	
B.2	Original		36	1st	
1	Original		37	1st	
2	3rd		38	1st	
3	3rd		39	1st	
4	3rd		40	1st	
5	3rd		41	2nd	
6	3rd		42	Original	
7	3rd		43	Original	
8	3rd		44	1st	
9	3rd		45	1st	*
10	3rd		46	Original	
11	3rd		47	Original	
12	3rd		48	Original	
13	3rd		49	Original	
14	3rd		50	Original	
15	3rd		51	Original	
16	Original		52	Original	
17	Original		53	Original	
18	Original		54	1st	*
19	Original		55	Original	
20	Original		56	1st	*
21	Original		57	1st	*
22	Original		58	1st	*
23	Original		59	1st	*
24	Original		60	1st	*
25	Original		61	1st	*
26	Original		62	1st	*
27	Original		63	Original	
28	Original		64	Original	
29	Original		65	Original	
30	Original		66	1st	*
31	Original		67	1st	*
			68	Original	
* Denotes change			69	Original	
# Withdrawn					

Continued

ADVANCED COMPETITIVE SERVICES

LIST OF EFFECTIVE SHEETS

Sheets A through 41 of this schedule are effective as of the date shown on each sheet. Original or revised sheets contain all material including changes from the original schedule that are in effect on the date hereof.

Sheet	Original or Number of Revision		Sheet	Original or Number of Revision
A	10th	* (P)	32	Original
A.1	Original	(P)	33	2nd
B	7th	*	34	2nd
B.1	Original		35	2nd
B.2	Original	(P)	36	1st
1	Original		37	1st
2	3rd	*	38	1st
3	3rd	*	39	1st
4	3rd	*	40	1st
5	3rd	*	41	2nd
6	3rd	*	42	Original
7	3rd	*	43	Original
8	3rd	*	44	1st
9	3rd	*	45	Original
10	3rd	*	46	Original
11	3rd	*	47	Original
12	3rd	*	48	Original
13	3rd	*	49	Original
14	3rd	*	50	Original
15	3rd	*	51	Original
16	Original		52	Original
17	Original		53	Original
18	Original		54	Original
19	Original		55	Original
20	Original		56	Original
21	Original		57	Original
22	Original		58	Original
23	Original		59	Original
24	Original		60	Original
25	Original		61	Original
26	Original		62	Original
27	Original		63	Original
28	Original		64	Original
29	Original		65	Original
30	Original		66	Original
31	Original		67	Original
* Denotes change			68	Original
# Withdrawn			69	Original

(P) Pending approval of Advice Letter No. 11,034.

Continued

ADVANCED COMPETITIVE SERVICES

LIST OF EFFECTIVE SHEETS

Sheets A through 41 of this schedule are effective as of the date shown on each sheet. Original or revised sheets contain all material including changes from the original schedule that are in effect on the date hereof.

Sheet	Original or Number of Revision		Sheet	Original or Number of Revision	
A	9th	* (P)	33	2nd	
A.1	Original	*	34	2nd	
B	6th		35	2nd	
B.1	Original	(P)	36	1st	
B.2	Original	*	37	1st	
1	Original		38	1st	
2	2nd		39	1st	
3	2nd		40	1st	
4	2nd		41	2nd	
5	2nd		42	Original	
6	2nd		43	Original	
7	2nd		44	1st	
8	2nd		45	Original	(P)
9	2nd		46	Original	(P)
10	2nd		47	Original	(P)
11	2nd		48	Original	(P)
12	2nd		49	Original	(P)
13	2nd		50	Original	(P)
14	2nd		51	Original	(P)
15	2nd		52	Original	(P)
16	Original		53	Original	(P)
17	Original		54	Original	(P)
18	Original		55	Original	(P)
19	Original		56	Original	(P)
20	Original		57	Original	(P)
21	Original		58	Original	(P)
22	Original		59	Original	(P)
23	Original		60	Original	(P)
24	Original		61	Original	(P)
25	Original		62	Original	(P)
26	Original		63	Original	(P)
27	Original		64	Original	(P)
28	Original		65	Original	(P)
29	Original		66	Original	(P)
30	Original		67	Original	(P)
31	Original		68	Original	(P)
32	Original		69	Original	(P)

* Denotes change
\# Withdrawn
(P) Pending approval of Advice Letter No. 11,019.

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ADVANCED COMPETITIVE SERVICES

LIST OF EFFECTIVE SHEETS

Sheets A through 41 of this schedule are effective as of the date shown on each sheet. Original or revised sheets contain all material including changes from the original schedule that are in effect on the date hereof.

Sheet	Original or Number of Revision		Sheet	Original or Number of Revision	
A	8th	*	33	2nd	
B	6th		34	2nd	
B.1	Original	*	35	2nd	
1	Original		36	1st	
2	2nd		37	1st	
3	2nd		38	1st	
4	2nd		39	1st	
5	2nd		40	1st	
6	2nd		41	2nd	
7	2nd		42	Original	
8	2nd		43	Original	
9	2nd		44	1st	
10	2nd		45	Original	*
11	2nd		46	Original	*
12	2nd		47	Original	*
13	2nd		48	Original	*
14	2nd		49	Original	*
15	2nd		50	Original	*
16	Original		51	Original	*
17	Original		52	Original	*
18	Original		53	Original	*
19	Original		54	Original	*
20	Original		55	Original	*
21	Original		56	Original	*
22	Original		57	Original	*
23	Original		58	Original	*
24	Original		59	Original	*
25	Original		60	Original	*
26	Original		61	Original	*
27	Original		62	Original	*
28	Original		63	Original	*
29	Original		64	Original	*
30	Original		65	Original	*
31	Original		66	Original	*
32	Original		67	Original	*
			68	Original	*
			69	Original	*

* Denotes change
\# Withdrawn

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ADVANCED COMPETITIVE SERVICES

LIST OF EFFECTIVE SHEETS

Sheets A through 41 of this schedule are effective as of the date shown on each sheet. Original or revised sheets contain all material including changes from the original schedule that are in effect on the date hereof.

Sheet	Original or Number of Revision		Sheet	Original or Number of Revision	
A	7th	*	33	2nd	
B	6th		34	2nd	
1	Original		35	2nd	*
2	2nd		36	1st	
3	2nd		37	1st	
4	2nd		38	1st	
5	2nd		39	1st	
6	2nd		40	1st	
7	2nd		41	2nd	*
8	2nd		42	Original	
9	2nd		43	Original	
10	2nd		44	1st	*
11	2nd				
12	2nd				
13	2nd				
14	2nd				
15	2nd				
16	Original				
17	Original				
18	Original				
19	Original				
20	Original				
21	Original				
22	Original				
23	Original				
24	Original				
25	Original				
26	Original				
27	Original				
28	Original				
29	Original				
30	Original				
31	Original				
32	Original				

* Denotes change
\# Withdrawn

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ADVANCED COMPETITIVE SERVICES

LIST OF EFFECTIVE SHEETS

Sheets A through 41 of this schedule are effective as of the date shown on each sheet. Original or revised sheets contain all material including changes from the original schedule that are in effect on the date hereof.

Sheet	Original or Number of Revision		Sheet	Original or Number of Revision	
A	6th	*	33	2nd	*
B	6th	*	34	2nd	*
1	Original		35	1st	*
2	2nd		36	1st	*
3	2nd		37	1st	*
4	2nd		38	1st	*
5	2nd		39	1st	*
6	2nd		40	1st	*
7	2nd		41	1st	*
8	2nd		42	Original	*
9	2nd		43	Original	*
10	2nd		44	Original	*
11	2nd				
12	2nd				
13	2nd				
14	2nd				
15	2nd				
16	Original				
17	Original				
18	Original				
19	Original				
20	Original				
21	Original				
22	Original				
23	Original				
24	Original				
25	Original				
26	Original				
27	Original				
28	Original				
29	Original				
30	Original				
31	Original				
32	Original				

* Denotes change
\# Withdrawn

Continued

ADVANCED COMPETITIVE SERVICES

LIST OF EFFECTIVE SHEETS

Sheets A through 41 of this schedule are effective as of the date shown on each sheet. Original or revised sheets contain all material including changes from the original schedule that are in effect on the date hereof.

Sheet	Original or Number of Revision		Sheet	Original or Number of Revision	
A	5th	*	33	Original	
B	5th	*	34	Original	
1	Original		35	Original	#
2	2nd	*	36	Original	#
3	2nd	*	37	Original	#
4	2nd	*	38	Original	#
5	2nd	*	39	Original	#
6	2nd	*	40	Original	#
7	2nd	*	41	Original	#
8	2nd	*			
9	2nd	*			
10	2nd	*			
11	2nd	*			
12	2nd	*			
13	2nd	*			
14	2nd	*			
15	2nd	*			
16	Original				
17	Original				
18	Original				
19	Original				
20	Original				
21	Original				
22	Original				
23	Original				
24	Original				
25	Original				
26	Original				
27	Original				
28	Original				
29	Original				
30	Original				
31	Original				
32	Original				

* Denotes change
\# Withdrawn

Continued

ADVANCED COMPETITIVE SERVICES

LIST OF EFFECTIVE SHEETS

Sheets A through 41 of this schedule are effective as of the date shown on each sheet. Original or revised sheets contain all material including changes from the original schedule that are in effect on the date hereof.

Sheet	Original or Number of Revision		Sheet	Original or Number of Revision	
A	3rd	*	33	Original	#
B	3rd	*	34	Original	#
1	Original		35	Original	#
2	1st	*	36	Original	#
3	1st	*	37	Original	#
4	1st	*	38	Original	#
5	1st	*	39	Original	#
6	1st	*	40	Original	#
7	1st	*	41	Original	#
8	1st	*			
9	1st	*			
10	1st	*			
11	1st	*			
12	1st	*			
13	1st	*			
14	1st	*			
15	1st	*			
16	Original				
17	Original				
18	Original				
19	Original				
20	Original				
21	Original				
22	Original				
23	Original				
24	Original				
25	Original				
26	Original				
27	Original				
28	Original				
29	Original				
30	Original				
31	Original				
32	Original				

* New
\# Withdrawn

Continued

ADVANCE COMPETITIVE SERVICES

LIST OF EFFECTIVE SHEETS

Sheets A through 32 of this schedule are effective as of the date shown on each sheet. Original or revised sheets contain all material including changes from the original schedule that are in effect on the date hereof. (T)

Sheet	Original or Number of Revision		Sheet	Original or Number of Revision	
A	1st	* (P)	17	Original	*
B	1st	* (P)	18	Original	*
1	Original	(P)	19	Original	*
1	Original	(P)	20	Original	*
2	Original	(P)	21	Original	*
3	Original	(P)	22	Original	*
4	Original	(P)	23	Original	*
5	Original	(P)	24	Original	*
6	Original	(P)	25	Original	*
7	Original	(P)	26	Original	*
8	Original	(P)	27	Original	*
9	Original	(P)	28	Original	*
10	Original	(P)	29	Original	*
11	Original	(P)	30	Original	*
12	Original	(P)	31	Original	*
13	Original	(P)	32	Original	*
14	Original	(P)			
15	Original	(P)			
16	Original	*			

* Denotes change
(P) Pending approval of Advice Letter No. 9162.

Continued

ADVANCE COMPETITIVE SERVICES

LIST OF EFFECTIVE SHEETS

Sheets A through 15 of this schedule are effective as of the date shown on each sheet. Original or revised sheets contain all material including changes from the original schedule that are in effect on the date hereof.

Sheet	Original or Number of Revision	Sheet	Original or Number of Revision
A	Original *		
B	Original *		
1	Original *		
1	Original *		
2	Original *		
3	Original *		
4	Original *		
5	Original *		
6	Original *		
7	Original *		
8	Original *		
9	Original *		
10	Original *		
11	Original *		
12	Original *		
13	Original *		
14	Original *		
15	Original *		

* New

Continued

Sheet	Original or Number of Revision		Sheet	Original or Number of Revision	
63	Original	#	102.1	Original	#
64	Original	#	103	1st	#
65	Original	#	103.1	Original	#
66	1st	#	103.2	Original	#
67	1st	#	103.3	Original	#
68	Original	#	104	1st	#
69	Original	#	105	1st	#
70	Original	#	106	1st	#
71	Original	#	106.1	Original	#
72	Original	#	106.2	Original	#
73	Original	#	106.3	Original	#
74	Original	#	107	1st	#
75	Original	#	108	Original	#
76	Original	#	109	Original	#
77	Original	#	110	Original	#
78	Original	#	111	Origina	#l
79	Original	#	112	1st	#
80	Original	#	112.1	Original	#
81	Original	#	112.2	Original	#
82	Original	#	113	1st	#
83	Original	#	114	1st	#
84	Original	#	115	1st	#
85	Original	#	116	1st	#
86	Original	#	117	1st	#
87	2nd	#	117.1	Original	#
88	2nd	#	117.2	Original	#
89	2nd	#	118	1st	#
90	2nd	#	119	1st	#
91	2nd	#	120	1st	#
92	1st	#	121	1st	#
93	1st	#	122	1st	#
94	1st	#	123	1st	#
95	1st	#	124	1st	#
96	1st	#	125	1st	#
97	1st	#	125.1	Original	#
98	Original	#	126	1st	#
99	1st	#	127	1st	#
100	1st	#	127.1	Original	#
101	1st	#	127.2	Original	#
102	1st	#	128	1st	#
			129	1st	#

* Denotes change
\# Withdrawn

Continued

Sheet	Original or Number of Revision		Sheet	Original or Number of Revision
63	Original	(L)	102.1	Original
64	Original	|	103	1st
65	Original	(L)	103.1	Original
66	1st		103.2	Original
67	1st		103.3	Original
68	Original		104	1st
69	Original		105	1st
70	Original		106	1st
71	Original		106.1	Original
72	Original		106.2	Original
73	Original		106.3	Original
74	Original		107	1st
75	Original		108	Original
76	Original		109	Original
77	Original		110	Original
78	Original		111	Original
79	Original		112	1st
80	Original		112.1	Original
81	Original		112.2	Original
82	Original		113	1st
83	Original		114	1st
84	Original		115	1st
85	Original		116	1st
86	Original		117	1st
87	2nd		117.1	Original
88	2nd		117.2	Original
89	2nd		118	1st
90	2nd		119	1st
91	2nd		120	1st
92	1st		121	1st
93	1st		122	1st
94	1st		123	1st
95	1st		124	1st
96	1st		125	1st
97	1st		125.1	Original
98	Original		126	1st
99	1st		127	1st
100	1st		127.1	Original
101	1st		127.2	Original
102	1st		128	1st
			129	1st

* Denotes change
\# Withdrawn
(L) Material moved from 19th Revised Sheet A

Continued

Sheet	Original or Number of Revision		Sheet	Original or Number of Revision
66	1st	(L)	103.1	Original
67	1st	|	103.2	Original
68	Original	|	103.3	Original
69	Original	(L)	104	1st
70	Original		105	1st
71	Original		106	1st
72	Original		106.1	Original
73	Original		106.2	Original
74	Original		106.3	Original
75	Original		107	1st
76	Original		108	Original
77	Original		109	Original
78	Original		110	Original
79	Original		111	Original
80	Original		112	1st
81	Original		112.1	Original
82	Original		112.2	Original
83	Original		113	1st
84	Original		114	1st
85	Original		115	1st
86	Original		116	1st
87	2nd		117	1st
88	2nd		117.1	Original
89	2nd		117.2	Original
90	2nd		118	1st
91	2nd		119	1st
92	1st		120	1st
93	1st		121	1st
94	1st		122	1st
95	1st		123	1st
96	1st		124	1st
97	1st		125	1st
98	Original		125.1	Original
99	1st		126	1st
100	1st		127	1st
101	1st		127.1	Original
102	1st		127.2	Original
102.1	Original		128	1st
103	1st		129	1st

* Denotes change
\# Withdrawn
(L) Material moved from 18th Revised Sheet A

Continued

Sheet	Original or Number of Revision		Sheet	Original or Number of Revision
70	Original		106	1st
71	Original		106.1	Original
72	Original		106.2	Original
73	Original		106.3	Original
74	Original		107	1st
75	Original		108	Original
76	Original		109	Original
77	Original		110	Original
78	Original		111	Original
79	Original		112	1st
80	Original		112.1	Original
81	Original		112.2	Original
82	Original		113	1st
83	Original		114	1st
84	Original		115	1st
85	Original		116	1st
86	Original		117	1st
87	2nd	*	117.1	Original
88	2nd	*	117.2	Original
89	2nd	*	118	1st
90	2nd	*	119	1st
91	2nd	*	120	1st
92	1st	*	121	1st
93	1st	*	122	1st
94	1st	*	123	1st
95	1st	*	124	1st
96	1st	*	125	1st
97	1st	*	125.1	Original
98	Original		126	1st
99	1st		127	1st
100	1st		127.1	Original
101	1st		127.2	Original
102	1st		128	1st
102.1	Original		129	1st
103	1st			
103.1	Original			
103.2	Original			
103.3	Original			
104	1st			
105	1st			

* Denotes change
\# Withdrawn

Continued

Sheet	Original or Number of Revision		Sheet	Original or Number of Revision
70	Original		106	1st
71	Original		106.1	Original
72	Original		106.2	Original
73	Original		106.3	Original
74	Original		107	1st
75	Original		108	Original
76	Original		109	Original
77	Original		110	Original
78	Original		111	Original
79	Original		112	1st
80	Original		112.1	Original
81	Original		112.2	Original
82	Original		113	1st
83	Original		114	1st
84	Original		115	1st
85	Original		116	1st
86	Original		117	1st
87	1st	*	117.1	Original
88	1st	*	117.2	Original
89	1st	*	118	1st
90	1st	*	119	1st
91	1st	*	120	1st
92	Original		121	1st
93	Original		122	1st
94	Original		123	1st
95	Original		124	1st
96	Original		125	1st
97	Original		125.1	Original
98	Original		126	1st
99	1st		127	1st
100	1st		127.1	Original
101	1st		127.2	Original
102	1st		128	1st
102.1	Original		129	1st
103	1st			
103.1	Original			
103.2	Original			
103.3	Original			
104	1st			
105	1st			

* Denotes change
\# Withdrawn

Continued

Sheet	Original or Number of Revision		Sheet	Original or Number of Revision	
70	Original		106	1st	*
71	Original		106.1	Original	*
72	Original		106.2	Original	*
73	Original		106.3	Original	*
74	Original		107	1st	*
75	Original		108	Original	
76	Original		109	Original	
77	Original		110	Original	
78	Original		111	Original	
79	Original		112	1st	*
80	Original		112.1	Original	*
81	Original		112.2	Original	*
82	Original		113	1st	*
83	Original		114	1st	*
84	Original		115	1st	*
85	Original		116	1st	*
86	Original		117	1st	*
87	Original		117.1	Original	*
88	Original		117.2	Original	*
89	Original		118	1st	*
90	Original		119	1st	*
91	Original		120	1st	*
92	Original		121	1st	*
93	Original		122	1st	*
94	Original		123	1st	*
95	Original		124	1st	*
96	Original		125	1st	*
97	Original		125.1	Original	*
98	Original		126	1st	*
99	1st	*	127	1st	*
100	1st	*	127.1	Original	*
101	1st	*	127.2	Original	*
102	1st	*	128	1st	*
102.1	Original	*	129	1st	*
103	1st	*			
103.1	Original	*			
103.2	Original	*			
103.3	Original	*			
104	1st	*			
105	1st	*			

* Denotes change
\# Withdrawn

Continued

Sheet	Original or Number of Revision		Sheet	Original or Number of Revision	
70	Original		112	Original	*
71	Original		113	Original	*
72	Original		114	Original	*
73	Original		115	Original	*
74	Original		116	Original	*
75	Original		117	Original	*
76	Original		118	Original	*
77	Original		119	Original	*
78	Original		120	Original	*
79	Original		121	Original	*
80	Original		122	Original	*
81	Original		123	Original	*
82	Original		124	Original	*
83	Original		125	Original	*
84	Original		126	Original	*
85	Original		127	Original	*
86	Original		128	Original	*
87	Original		129	Original	*
88	Original				
89	Original				
90	Original				
91	Original				
92	Original				
93	Original				
94	Original				
95	Original				
96	Original				
97	Original				
98	Original				
99	Original	*			
100	Original	*			
101	Original	*			
102	Original	*			
103	Original	*			
104	Original	*			
105	Original	*			
106	Original	*			
107	Original	*			
108	Original	*			
109	Original	*			
110	Original	*			
111	Original	*			

* Denotes change
\# Withdrawn

Continued

Sheet	Original or Number of Revision		Sheet	Original or Number of Revision
70	Original	*		
71	Original	*		
72	Original	*		
73	Original	*		
74	Original	*		
75	Original	*		
76	Original	*		
77	Original	*		
78	Original	*		
79	Original	*		
80	Original	*		
81	Original	*		
82	Original	*		
83	Original	*		
84	Original	*		
85	Original	*		
86	Original	*		
87	Original	*		
88	Original	*		
89	Original	*		
90	Original	*		
91	Original	*		
92	Original	*		
93	Original	*		
94	Original	*		
95	Original	*		
96	Original	*		
97	Original	*		
98	Original	*		

* Denotes change
\# Withdrawn

Continued

Sheet	Original or Number of Revision	Sheet	Original or Number of Revision
130	Original #	171	Original #
131	Original #	172	Original #
132	Original #	173	Original #
133	Original #	174	Original #
134	Original #	175	Original #
135	Original #	176	Original #
136	Original #	177	Original #
137	Original #	178	Original #
138	Original #	179	Original #
139	Original #	180	Original #
140	Original #	181	Original #
141	Original #	182	Original #
142	Original #	183	Original #
143	Original #	184	Original #
144	Original #	185	Original #
145	Original #	186	Original #
146	Original #	187	Original #
147	Original #	188	Original #
148	Original #		
149	Original #		
150	Original #		
151	Original #		
152	Original #		
153	Original #		
154	Original #		
155	Original #		
156	Original #		
157	Original #		
158	Original #		
159	Original #		
160	Original #		
161	Original #		
162	Original #		
163	Original #		
164	Original #		
165	Original #		
166	Original #		
167	Original #		
168	Original #		
169	Original #		
170	Original #		

* Denotes change
\# Withdrawn

Continued

Sheet	Original or Number of Revision		Sheet	Original or Number of Revision	
130	Original		171	Original	*
131	Original		172	Original	*
132	Original		173	Original	*
133	Original		174	Original	*
134	Original		175	Original	*
135	Original		176	Original	*
136	Original		177	Original	*
137	Original		178	Original	*
138	Original		179	Original	*
139	Original		180	Original	*
140	Original		181	Original	*
141	Original		182	Original	*
142	Original		183	Original	*
143	Original		184	Original	*
144	Original		185	Original	*
145	Original		186	Original	*
146	Original		187	Original	*
147	Original		188	Original	*
148	Original				
149	Original				
150	Original				
151	Original				
152	Original				
153	Original				
154	Original				
155	Original				
156	Original				
157	Original				
158	Original				
159	Original				
160	Original				
161	Original				
162	Original	*			
163	Original	*			
164	Original	*			
165	Original	*			
166	Original	*			
167	Original	*			
168	Original	*			
169	Original	*			
170	Original	*			

* Denotes change
\# Withdrawn

Continued

Sheet	Original or Number of Revision	Sheet	Original or Number of Revision
130	Original		
131	Original		
132	Original		
133	Original		
134	Original		
135	Original		
136	Original		
137	Original		
138	Original		
139	Original		
140	Original		
141	Original		
142	Original		
143	Original		
144	Original		
145	Original		
146	Original		
147	Original		
148	Original		
149	Original		
150	Original		
151	Original		
152	Original		
153	Original		
154	Original		
155	Original		
156	Original		
157	Original		
158	Original		
159	Original		
160	Original		
161	Original		

* Denotes change
\# Withdrawn

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ADVANCED COMPETITIVE SERVICES

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[1] Effective January 14, 2005, ATM Service as provided in Section C. is no longer available to new customers.

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	2. Descriptions	2	
	3. Special Conditions	4	
	4. Rates		
	a. Nonrecurring Rates	7	
	b. Monthly Rates	10	
D.	VIDEOCONNECT SM - 270 MBPS		
	1. General	16	
	2. Rate Elements	17	
	3. Term Commitment Plan (TCP)	19	
	4. Types of Rates and Charges	21	
	5. Rates and Charges	22	
	a. Nonrecurring Charges	22	
	b. Monthly Rates	26	
	c. Weekly Rates	30	
	d. Daily Rates	30	
	e. Hourly Rates	32	
E.	CUSTOM REDIRECT SERVICE		(N)
	1. General	33	|
	2. Feature Definitions	34	|
	3. Special Conditions	38	|
	4. Application Of Rates And Charges	40	|
	5. Rates	43	(N)

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	2. Descriptions	2	
	3. Special Conditions	4	
	4. Rates		
	a. Nonrecurring Rates	7	
	b. Monthly Rates	10	(N)
D.	VIDEOCONNECT SM - 270 MBPS		
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	2. Rate Elements	17	
	3. Term Commitment Plan (TCP)	19	
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	a. Nonrecurring Charges	22	
	b. Monthly Rates	26	
	c. Weekly Rates	30	
	d. Daily Rates	30	
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			(D)
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2.	Rate Elements	17	
3.	Term Commitment Plan (TCP)	19	
4.	Types of Rates and Charges	21	
5.	Rates and Charges		
	a. Nonrecurring Charges	22	
	b. Monthly Rates	26	
	c. Weekly Rates	30	
	d. Daily Rates	30	
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C.	**ASYNCHRONOUS TRANSFER MODE (ATM)**		
	1. General	2	
	2. Descriptions	2	
	3. Special Conditions	4	
	4. Rates		
	a. Nonrecurring Rates	7	
	b. Monthly Rates	10	(P)
D.	**VIDEOCONNECT_ - 270 MBPS**		(N)
	1. General	16	
	2. Rate Elements	17	
	3. Term Commitment Plan (TCP)	19	
	4. Types of Rates and Charges	21	
	5. Rates and Charges		
	a. Nonrecurring Charges	22	
	b. Monthly Rates	26	
	c. Weekly Rates	30	
	d. Daily Rates	30	
	e. Hourly Rates	32	(N)

(P) Pending approval of Advice Letter No. 9162.

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B.	**REGULATIONS**		1	
C.	**ASYNCHRONOUS TRANSFER MODE (ATM)**			
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	2.	Descriptions	1	
	3.	Special Conditions	4	
	4.	Rates		
		a. Nonrecurring Rates	7	
		b. Monthly Rates	10	(N)

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ADVANCED COMPETITIVE SERVICES (N)

A. APPLICABILITY

This schedule is applicable to Category III, Advanced Competitive Services provided by GTE California within the State of California.

Category III Services are fully competitive telecommunications services with full pricing flexibility and minimal tariff requirements as set forth by the Public Utilities Commission of the State of California in D.94-09-065.

B. REGULATIONS

The Rules and Regulations as set forth in Schedule Cal. P.U.C. No. K-1 will apply in addition to Rules and Regulations set forth in Schedule Cal. P.U.C. No. D&R. (N)

Continued

ADVANCED COMPETITIVE SERVICES

C. ASYNCHRONOUS TRANSFER MODE (ATM) SERVICE [1] (T)

1. General

Asynchronous Transfer Mode (ATM) Service is a form of "fast packet" switching service for high speed networks which require flexible bandwidth, high-performance transport and switching for connectivity between and among widely distributed customer locations. ATM is a cell-based, connection-oriented, switching and multiplexing technology designed to be a fast, general purpose transfer mode for multiple services.

ATM Network Service conforms to protocol standards created by the ITU-T (Telecommunication Standardization Bureau of the International Telecommunication Union, formerly Consultative Committee for International Telegraph and Telephone [CCITT] and American National Standards Institute (ANSI), publications T1.511, T1.627 and T1.630.

2. Descriptions

Asynchronous Transfer Mode (ATM) Service. A form of "fast packet" switching service for high speed networks which require flexible bandwidth, high-performance transport and switching for connectivity between and among widely distributed customer locations. ATM is a cell-based, connection-oriented, switching and multiplexing technology designed to be a fast, general purpose transfer mode for multiple services.

Constant Bit Rate (CBR) An ATM management parameter that supports the transmission of a continuous bit stream of traffic from those applications such as video, voice and circuit emulation, which require rigorous timing control and performance parameters.

Permanent Virtual Circuits (PVCs) Logical circuits that define a specific path for data sent by the customer to another location. These circuits are virtual because they are established in software tables and do not tie up capacity when not in use. This also allows multiple paths (PVCs) to be defined on any given port, thereby providing a single access line the capability to transmit data to multiple destinations.

[1] Effective January 14, 2005, ATM Service as provided in Section C. is no longer available to new customers. See C.3 for conditions applicable to existing customers. (N) (N)

Continued

ADVANCED COMPETITIVE SERVICES

C. ASYNCHRONOUS TRANSFER MODE (ATM) SERVICE (T)

1. General (N)

Asynchronous Transfer Mode (ATM) Service is a form of "fast packet" switching service for high speed networks which require flexible bandwidth, high-performance transport and switching for connectivity between and among widely distributed customer locations. ATM is a cell-based, connection-oriented, switching and multiplexing technology designed to be a fast, general purpose transfer mode for multiple services.

ATM Network Service conforms to protocol standards created by the ITU-T (Telecommunication Standardization Bureau of the International Telecommunication Union, formerly Consultative Committee for International Telegraph and Telephone [CCITT] and American National Standards Institute (ANSI), publications T1.511, T1.627 and T1.630.

2. Descriptions

Asynchronous Transfer Mode (ATM) Service. A form of "fast packet" switching service for high speed networks which require flexible bandwidth, high-performance transport and switching for connectivity between and among widely distributed customer locations. ATM is a cell-based, connection-oriented, switching and multiplexing technology designed to be a fast, general purpose transfer mode for multiple services.

Constant Bit Rate (CBR) An ATM management parameter that supports the transmission of a continuous bit stream of traffic from those applications such as video, voice and circuit emulation, which require rigorous timing control and performance parameters.

Permanent Virtual Circuits (PVCs) Logical circuits that define a specific path for data sent by the customer to another location. These circuits are virtual because they are established in software tables and do not tie up capacity when not in use. This also allows multiple paths (PVCs) to be defined on any given port, thereby providing a single access line the capability to transmit data to multiple destinations. (N)

Continued

ADVANCED COMPETITIVE SERVICES

C. RESERVED FOR FUTURE USE (T)

(D)

(D)

Continued

ADVANCED COMPETITIVE SERVICES (N)

C. ASYNCHRONOUS TRANSFER MODE (ATM) SERVICE

1. General

Asynchronous Transfer Mode (ATM) Service is a form of "fast packet" switching service for high speed networks which require flexible bandwidth, high-performance transport and switching for connectivity between and among widely distributed customer locations. ATM is a cell-based, connection-oriented, switching and multiplexing technology designed to be a fast, general purpose transfer mode for multiple services.

ATM Network Service conforms to protocol standards created by the ITU-T (Telecommunication Standardization Bureau of the International Telecommunication Union, formerly Consultative Committee for International Telegraph and Telephone [CCITT] and American National Standards Institute (ANSI), publications T1.511, T1.627 and T1.630.

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Asynchronous Transfer Mode (ATM) Service. A form of "fast packet" switching service for high speed networks which require flexible bandwidth, high-performance transport and switching for connectivity between and among widely distributed customer locations. ATM is a cell-based, connection-oriented, switching and multiplexing technology designed to be a fast, general purpose transfer mode for multiple services.

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Continued

ADVANCED COMPETITIVE SERVICES

C. ASYNCHRONOUS TRANSFER MODE (ATM) SERVICE [1] - Continued (T)

2. Descriptions - Continued

Port An entry point on the switch to which the customer is connected. Ports are available which allow connection to the ATM network at speeds of DS1 to OC12c. Each port can accommodate multiple PVCs.

Sustained Cell Rate-Permanent Virtual Circuit (SCR-PVC) An amount of bandwidth, which the Utility commits to providing in the network for customer traffic. SCR is set for every PVC defined.

UNI Port and Access and Port Only Customers can subscribe to ATM Service based on the speed of the port connection (i.e., DS-1, DS-3, OC3c, OC12c) applicable for each physical connection to the network supporting ATM Service. Each port can accommodate multiple PVCs.

Variable Bit Rate-Real Time (VBR-rt) An ATM traffic management parameter that allows for applications where a PVC requires low cell delay variation.

Variable Bit Rate-Non Real Time (VBR-nrt) An ATM traffic management parameter that allows for applications where a PVC can tolerate larger cell delay variation than VBR-rt.

[1] Effective January 14, 2005, ATM Service as provided in Section C. is no longer available to new customers. See C.3 for conditions applicable to existing customers. (N) (N)

Continued

ADVANCED COMPETITIVE SERVICES

C. ASYNCHRONOUS TRANSFER MODE (ATM) SERVICE - Continued (T)

2. Descriptions - Continued (N)

Port An entry point on the switch to which the customer is connected. Ports are available which allow connection to the ATM network at speeds of DS1 to OC12c. Each port can accommodate multiple PVCs.

Sustained Cell Rate-Permanent Virtual Circuit (SCR-PVC) An amount of bandwidth, which the Utility commits to providing in the network for customer traffic. SCR is set for every PVC defined.

UNI Port and Access and Port Only Customers can subscribe to ATM Service based on the speed of the port connection (i.e., DS-1, DS-3, OC3c, OC12c) applicable for each physical connection to the network supporting ATM Service. Each port can accommodate multiple PVCs.

Variable Bit Rate-Real Time (VBR-rt) An ATM traffic management parameter that allows for applications where a PVC requires low cell delay variation.

Variable Bit Rate-Non Real Time (VBR-nrt) An ATM traffic management parameter that allows for applications where a PVC can tolerate larger cell delay variation than VBR-rt. (N)

Continued

ADVANCED COMPETITIVE SERVICES

C. RESERVED FOR FUTURE USE (T)

(D)

(D)

Continued

ADVANCED COMPETITIVE SERVICES (N)

C. ASYNCHRONOUS TRANSFER MODE (ATM) SERVICE - Continued

2. Descriptions - Continued

Port An entry point on the switch to which the customer is connected. Ports are available which allow connection to the ATM network at speeds of DS1 to OC12C. Each port can accommodate multiple PVCs.

Sustained Cell Rate-Permanent Virtual Circuit (SCR-PVC) An amount of bandwidth, which the Utility commits to providing in the network for customer traffic. SCR is set for every PVC defined.

UNI Port and Access and Port Only Customers can subscribe to ATM Service based on the speed of the port connection (i.e., DS-1, DS-3, OC-3c, OC-12c) applicable for each physical connection to the network supporting ATM Service. Each port can accommodate multiple PVCs.
Variable Bit Rate-Real Time (VBR-rt) An ATM traffic management parameter that allows for applications where a PVC requires low cell delay variation.

Variable Bit Rate-Non Real Time (VBR-nrt) An ATM traffic management parameter that allows for applications where a PVC can tolerate larger cell delay variation than VBR-rt. (N)

Continued

ADVANCED COMPETITIVE SERVICES

C. ASYNCHRONOUS TRANSFER MODE (ATM) SERVICE [1] - Continued (T)

3. Special Conditions

The Utility shall provision service over facilities suitable for ATM transmission, where available facilities and equipment exist, for the effective maximum data rates of a DS1 (1.536 Mbps per second), DS3 (44.2 Mbps per second, OC3c (155 Mbps per second, concatenated) or OC12c (622.08 Mbps per second concatenated).

Occasionally, in order to perform software updates and other maintenance, it may be necessary for the Utility to take the ATM switch of out of service during the predetermined maintenance window of 12:01 a.m. to 6:00 a.m. In this case, all attempts will be made to notify the customer in advance as to the time and duration of these outages. The Utility reserves the right to temporarily interrupt ATM Service at other times in emergency situations.

The customer must provide compatible equipment in accordance with interface specifications defined in ANSI Standards for ATM Services.

The customer is responsible for the installation, operation and maintenance of any customer provided equipment (CPE).

The customer must specify the speed for each ATM port ordered. The customer must specify the SCR, PCR and traffic management parameters at the time of the order for each PVC.

The customer shall be responsible for obtaining permission for the Utility's agents or employees to enter the customer's designated location(s) at any reasonable hour for the purpose of installing, inspecting, repairing, or, upon termination of the service, removing the service components of the Utility.

The customer must provide to the Utility a point of contact with information to include the contact name, telephone number, mailing address, and electronic mail (e-mail) address for notification purposes.

[1] Effective January 14, 2005, ATM Service as provided in Section C. is no longer available to new customers. See C.3 for conditions applicable to existing customers. (N) (N)

Continued

ADVANCED COMPETITIVE SERVICES

C. ASYNCHRONOUS TRANSFER MODE (ATM) SERVICE - Continued (T)

3. Special Conditions (N)

The Utility shall provision service over facilities suitable for ATM transmission, where available facilities and equipment exist, for the effective maximum data rates of a DS1 (1.536 Mbps per second), DS3 (44.2 Mbps per second, OC3c (155 Mbps per second, concatenated) or OC12c (622.08 Mbps per second concatenated).

Occasionally, in order to perform software updates and other maintenance, it may be necessary for the Utility to take the ATM switch of out of service during the predetermined maintenance window of 12:01 a.m. to 6:00 a.m. In this case, all attempts will be made to notify the customer in advance as to the time and duration of these outages. The Utility reserves the right to temporarily interrupt ATM Service at other times in emergency situations.

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The customer must provide to the Utility a point of contact with information to include the contact name, telephone number, mailing address, and electronic mail (e-mail) address for notification purposes. (N)

Continued

ADVANCED COMPETITIVE SERVICES

C. RESERVED FOR FUTURE USE (T)

(D)

(D)

Continued

ADVANCED COMPETITIVE SERVICES (N)

C. ASYNCHRONOUS TRANSFER MODE (ATM) SERVICE - Continued

3. Special Conditions

The Utility shall provision service over facilities suitable for ATM transmission, where available facilities and equipment exist, for the effective maximum data rates of a DS1 (1.536 Mbps per second), DS3 (44.2 Mbps per second, OC3c (155 Mbps per second, concatenated) or OC12c (622.08 Mbps per second concatenated).

Occasionally, in order to perform software updates and other maintenance, it may be necessary for the Utility to take the ATM switch of out of service, during the predetermined maintenance window of 12:01 a.m. to 6:00 a.m. In these case, all attempts will be made to notify the customer in advance as to the time and duration of these outages. The Utility reserves the right to temporarily interrupt ATM Service at other times in emergency situations.

The customer must provide compatible equipment in accordance with interface specifications defined in ANSI Standards for ATM Services.

The customer is responsible for the installation, operation and maintenance of any customer provided equipment (CPE).

The customer must specify the speed for each ATM port ordered. The customer must specify the SCR, PCR and traffic management parameters at the time of the order for each PVC.

The customer shall be responsible for obtaining permission for the Utility's agents or employees to enter the customer's designated location(s) at any reasonable hour for the purpose of installing, inspecting, repairing, or, upon termination of the service, removing the service components of the Utility.

The customer must provide to the Utility a point of contact with information to include the contact name, telephone number, mailing address, and electronic mail (e-mail) address for notification purposes. (N)

Continued

ADVANCED COMPETITIVE SERVICES

C. ASYNCHRONOUS TRANSFER MODE (ATM) SERVICE [1] - Continued (T)

3. Special Conditions - Continued

The minimum period for ATM Network Service is one year, except when provided under an Optional Payment Plan (OPP) arrangement.

The ATM UNI Port with Access Line and ATM UNI Port Only rate elements are available under an OPP. Nonrecurring charges apply for initial OPP orders. NRCs will not be applied for changes in OPP lengths of Ports or Port and Access Lines. Digital special access line and additional features are available at the tariffed rates and regulations.

ATM Termination Liability

When an OPP arrangement is discontinued prior to the end of the period, termination liability charges will apply based on the remainder of the OPP period in effect at the time of disconnect.

Charges will also be applicable if the number of services falls below the minimal amount of ATM services (port only or port and access) defined at the start of the payment plan. Charges are set forth below with the penalty assessed for each service that falls below the minimum number multiplied by the number of months required to attain the minimum term commitment.

One-Year OPP - 50% of any remaining portion of the first year's recurring charges for the in-service quantity.

Three-Year OPP - 50% of any remaining portion of the first year's recurring charges. In addition, for any remaining portion of the second and third years, the customer will be liable for 10% of the total monthly recurring charges in that time period for the in-service quantity

[1] Effective January 14, 2005, ATM Service as provided in Section C. is no longer available to new customers. Existing OPP customers may continue their service until their OPP expires or their service is disconnected, whichever occurs first. Moves, additions or changes will not be permitted. Termination Liability as described in this section will not apply if a customer with an existing OPP discontinues service to subscribe to Asynchronous Transfer Mode Cell Relay Service on an Extended Service Plan of equal or greater value than the remaining OPP. (N)

Continued

ADVANCED COMPETITIVE SERVICES

C. ASYNCHRONOUS TRANSFER MODE (ATM) SERVICE - Continued (T)

3. Special Conditions - Continued (N)

The minimum period for ATM Network Service is one year, except when provided under an Optional Payment Plan (OPP) arrangement.

The ATM UNI Port with Access Line and ATM UNI Port Only rate elements are available under an OPP. Nonrecurring charges apply for initial OPP orders. NRCs will not be applied for changes in OPP lengths of Ports or Port and Access Lines. Digital special access line and additional features are available at the tariffed rates and regulations.

ATM Termination Liability

When an OPP arrangement is discontinued prior to the end of the period, termination liability charges will apply based on the remainder of the OPP period in effect at the time of disconnect.

Charges will also be applicable if the number of services falls below the minimal amount of ATM services (port only or port and access) defined at the start of the payment plan. Charges are set forth below with the penalty assessed for each service that falls below the minimum number multiplied by the number of months required to attain the minimum term commitment.

One-Year OPP - 50% of any remaining portion of the first year's recurring charges for the in-service quantity.

Three-Year OPP - 50% of any remaining portion of the first year's recurring charges. In addition, for any remaining portion of the second and third years, the customer will be liable for 10% of the total monthly recurring charges in that time period for the in-service quantity. (N)

Continued

ADVANCED COMPETITIVE SERVICES

C. RESERVED FOR FUTURE USE (T)

(D)

(D)

Continued

ADVANCED COMPETITIVE SERVICES (N)

C. ASYNCHRONOUS TRANSFER MODE (ATM) SERVICE - Continued

3. Special Conditions - Continued

The minimum period for ATM Network Service is one year, except when provided under an Optional Payment Plan (OPP) arrangement.

The ATM UNI Port with Access Line and ATM UNI Port Only rate elements are available under an OPP. Nonrecurring charges apply for initial OPP orders. NRC's will not be applied for changes in OPP lengths of Ports or Port and Access Lines. Digital special access line and additional features are available at the tariffed rates and regulations.

ATM Termination Liability

When an OPP arrangement is discontinued prior to the end of the period, termination liability charges will apply based on the remainder of the OPP period in effect at the time of disconnect.

Charges will also be applicable if the number of services falls below the minimal amount of ATM services (port only or port and access) defined at the start of the payment plan. Charges are set forth below with the penalty assessed for each service that falls below the minimum number multiplied by the number of months required to attain the minimum term commitment.

One-Year OPP - 50% of any remaining portion of the first year's recurring charges for the in-service quantity.

Three-Year OPP - 50% of any remaining portion of the first year's recurring charges. In addition, for any remaining portion of the second and third years, the customer will be liable for 10% of the total monthly recurring charges in that time period for the in-service quantity. (N)

Continued

ADVANCED COMPETITIVE SERVICES

C. ASYNCHRONOUS TRANSFER MODE (ATM) SERVICE [1] - Continued (T)

3. Special Conditions - Continued

ATM Termination Liability - Continued

Five-Year OPP - 50% of any remaining portion of the first year's recurring charges. In addition, for any remaining portion of the second through fifth years, the customer will be liable for 20% of the total monthly recurring charges in that time period for the in-service quantity.

ATM Termination Without Liability

During an OPP period, should the currently effective rate for a customer's service increase, the customer may, at his option, terminate the OPP arrangement without penalty or liability.

ATM Credit of Termination Liability

Credit of termination liability charges for ATM services may be applicable in the case of re-establishment of similar ATM service of equal to or higher speeds within six (6) months of termination for the same length of the OPP. The amount of credit will be one-sixth (1/6) of the penalty times the number of months service is re-established until the sixth month.

[1] Effective January 14, 2005, ATM Service as provided in Section C. is no longer available to new customers. Existing OPP customers may continue their service until their OPP expires or their service is disconnected, whichever occurs first. Moves, additions or changes will not be permitted. Termination Liability as described in this section will not apply if a customer with an existing OPP discontinues service to subscribe to Asynchronous Transfer Mode Cell Relay Service on an Extended Service Plan of equal or greater value than the remaining OPP. (N)

Continued

ADVANCED COMPETITIVE SERVICES

C. ASYNCHRONOUS TRANSFER MODE (ATM) SERVICE - Continued (T)

3. Special Conditions - Continued (N)

ATM Termination Liability - Continued

Five-Year OPP - 50% of any remaining portion of the first year's recurring charges. In addition, for any remaining portion of the second through fifth years, the customer will be liable for 20% of the total monthly recurring charges in that time period for the in-service quantity.

ATM Termination Without Liability

During an OPP period, should the currently effective rate for a customer's service increase, the customer may, at his option, terminate the OPP arrangement without penalty or liability.

ATM Credit of Termination Liability

Credit of termination liability charges for ATM services may be applicable in the case of re-establishment of similar ATM service of equal to or higher speeds within six (6) months of termination for the same length of the OPP. The amount of credit will be one-sixth (1/6) of the penalty times the number of months service is re-established until the sixth month. (N)

Continued

ADVANCED COMPETITIVE SERVICES

C. RESERVED FOR FUTURE USE (T)

(D)

(D)

Continued

ADVANCED COMPETITIVE SERVICES (N)

C. ASYNCHRONOUS TRANSFER MODE (ATM) SERVICE - Continued

3. Special Conditions - Continued

ATM Termination Liability - Continued

Five-Year OPP - 50% of any remaining portion of the first year's recurring charges. In addition, for any remaining portion of the second through fifth years, the customer will be liable for 20% of the total monthly recurring charges in that time period for the in-service quantity.

ATM Termination Without Liability

During an OPP period, should the currently effective rate for a customer's service increase, the customer may, at his option, terminate the OPP arrangement without penalty or liability.

ATM Credit of Termination Liability

Credit of termination liability charges for ATM services may be applicable in the case of re-establishment of similar ATM service of equal to or higher speeds within six (6) months of termination for the same length of the OPP. The amount of credit will be one-sixth (1/6) of the penalty times the number of months service is re-established until the sixth month. (N)

Continued

ADVANCED COMPETITIVE SERVICES

C. ASYNCHRONOUS TRANSFER MODE (ATM) SERVICE [1] - Continued (T)

4. Rates

(a) Nonrecurring Rates

Service	Unit	Maximum NRC [2]	Current NRC [2]	(T)
(1) UNI Port and Access Line [3]				(T)
DS1				
1 Year Term	per port	$ 1,300.00	$ 650.00	
3 Year Term	per port	1,300.00	650.00	
5 Year Term	per port	1,300.00	650.00	
DS3				
1 Year Term	per port	3,000.00	1,500.00	
3 Year Term	per port	3,000.00	1,500.00	
5 Year Term	per port	3,000.00	1,500.00	
OC3c				
1 Year Term	per port	3,000.00	1,500.00	
3 Year Term	per port	3,000.00	1,500.00	
5 Year Term	per port	3,000.00	1,500.00	
OC12c				
1 Year Term	per port	6,000.00	3,000.00	
3 Year Term	per port	6,000.00	3,000.00	
5 Year Term	per port	6,000.00	3,000.00	

1 Effective January 14, 2005, ATM Service as provided in Section C. is no longer available to new customers. Existing OPP customers may continue their service until their OPP expires or their service is disconnected, whichever occurs first. Moves, additions or changes will not be permitted. Termination Liability as described in this section will not apply if a customer with an existing OPP discontinues service to subscribe to Asynchronous Transfer Mode Cell Relay Service on an Extended Service Plan of equal or greater value than the remaining OPP. (N)

2 Schedule Cal. P.U.C. No. A-41 charges are not applicable. (T)

3 Each port can accommodate multiple PVCs. (T)

Continued

ADVANCED COMPETITIVE SERVICES

C. ASYNCHRONOUS TRANSFER MODE (ATM) SERVICE - Continued (T)

4. Rates (N)

(a) Nonrecurring Rates

Service	Unit	Maximum NRC [1]	Current NRC [1]
(1) UNI Port and Access Line [2]			
DS1			
1 Year Term	per port	$ 1,300.00	$ 650.00
3 Year Term	per port	1,300.00	650.00
5 Year Term	per port	1,300.00	650.00
DS3			
1 Year Term	per port	3,000.00	1,500.00
3 Year Term	per port	3,000.00	1,500.00
5 Year Term	per port	3,000.00	1,500.00
OC3c			
1 Year Term	per port	3,000.00	1,500.00
3 Year Term	per port	3,000.00	1,500.00
5 Year Term	per port	3,000.00	1,500.00
OC12c			
1 Year Term	per port	6,000.00	3,000.00
3 Year Term	per port	6,000.00	3,000.00
5 Year Term	per port	6,000.00	3,000.00 (N)

[1] Schedule Cal. P.U.C. No. A-41 charges are not applicable. (N)
[2] Each port can accommodate multiple PVCs. (N)

Continued

ADVANCED COMPETITIVE SERVICES

C. RESERVED FUR FUTURE USE (T)

(D)

(D)

(D)

(D)

Continued

ADVANCED COMPETITIVE SERVICES (N)

C. ASYNCHRONOUS TRANSFER MODE (ATM) SERVICE - Continued

4. Rates

(a) Nonrecurring Rates

Service	Unit	Maximum NRC *	Current NRC *
(1) UNI Port and Access Line[1]			
DS1			
12 Month Term	per port	$1,300.00	$ 650.00
36 Month Term	per port	1,300.00	650.00
60 Month Term	per port	1,300.00	650.00
DS3			
12 Month Term	per port	3,000.00	1,500.00
36 Month Term	per port	3,000.00	1,500.00
60 Month Term	per port	3,000.00	1,500.00
OC-3c			
12 Month Term	per port	3,000.00	1,500.00
36 Month Term	per port	3,000.00	1,500.00
60 Month Term	per port	3,000.00	1,500.00
OC-12c			
12 Month Term	per port	6,000.00	3,000.00
36 Month Term	per port	6,000.00	3,000.00
60 Month Term	per port	6,000.00	3,000.00

* Schedule Cal. P.U.C. No. A-41 charges are not applicable.

[1] Each port can accommodate multiple PVCs. (N)

Continued

ADVANCED COMPETITIVE SERVICES

C. ASYNCHRONOUS TRANSFER MODE (ATM) SERVICE [1] - Continued (T)

4. Rates - Continued

(a) Nonrecurring Rates - Continued

Service	Unit	Maximum NRC [2]	Current NRC [2]	
(2) UNI Port Only [3]				(T)
DS1 [4]				(T)
1 Year Term	per port	$ 1,300.00	$ 650.00	
3 Year Term	per port	1,300.00	650.00	
5 Year Term	per port	1,300.00	650.00	
DS3 [4]				(T)
1 Year Term	per port	3,000.00	1,500.00	
3 Year Term	per port	3,000.00	1,500.00	
5 Year Term	per port	3,000.00	1,500.00	
OC3c [5]				(T)
1 Year Term	per port	3,000.00	1,500.00	
3 Year Term	per port	3,000.00	1,500.00	
5 Year Term	per port	3,000.00	1,500.00	
OC12c [5]				(T)
1 Year Term	per port	4,000.00	2,000.00	
3 Year Term	per port	4,000.00	2,000.00	
5 Year Term	per port	4,000.00	2,000.00	

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2 Schedule Cal. P.U.C. No. A-41 charges are not applicable. (T)
3 Each port can accommodate multiple PVCs.
4 See Schedule Cal. P.U.C. No. C-1, Section III, for appropriate Special Access Line rates.
5 OC3c and OC12c Special Access Line rates will be provided on an Individual Case Basis (ICB). (T)

Continued

ADVANCED COMPETITIVE SERVICES

C. ASYNCHRONOUS TRANSFER MODE (ATM) SERVICE - Continued (T)

4. Rates - Continued (N)

(a) Nonrecurring Rates - Continued

Service	Unit	Maximum NRC [1]	Current NRC [1]
(2) UNI Port Only [2]			
DS1 [3]			
1 Year Term	per port	$ 1,300.00	$ 650.00
3 Year Term	per port	1,300.00	650.00
5 Year Term	per port	1,300.00	650.00
DS3 [3]			
1 Year Term	per port	3,000.00	1,500.00
3 Year Term	per port	3,000.00	1,500.00
5 Year Term	per port	3,000.00	1,500.00
OC3c [4]			
1 Year Term	per port	3,000.00	1,500.00
3 Year Term	per port	3,000.00	1,500.00
5 Year Term	per port	3,000.00	1,500.00
OC12c [4]			
1 Year Term	per port	4,000.00	2,000.00
3 Year Term	per port	4,000.00	2,000.00
5 Year Term	per port	4,000.00	2,000.00 (N)

1 Schedule Cal. P.U.C. No. A-41 charges are not applicable. (N)
2 Each port can accommodate multiple PVCs.
3 See Schedule Cal. P.U.C. No. C-1, Section III, for appropriate Special Access Line rates.
4 OC3c and OC12c Special Access Line rates will be provided on an Individual Case Basis (ICB). (N)

Continued

ADVANCED COMPETITIVE SERVICES

C. RESERVED FOR FUTURE USE (T)

(D)

(D)

(D)

(D)

Continued

ADVANCED COMPETITIVE SERVICES (N)

C. ASYNCHRONOUS TRANSFER MODE (ATM) SERVICE - Continued

4. Rates - Continued

(a) Nonrecurring Rates - Continued

Service	Unit	Maximum NRC *	Current NRC *
(2) UNI Port Only[1]			
DS1[2]			
12 Month Term	per port	$1,300.00	$ 650.00
36 Month Term	per port	1,300.00	650.00
60 Month Term	per port	1,300.00	650.00
DS3[3]			
12 Month Term	per port	3,000.00	1,500.00
36 Month Term	per port	3,000.00	1,500.00
60 Month Term	per port	3,000.00	1,500.00
OC-3c[3]			
12 Month Term	per port	3,000.00	1,500.00
36 Month Term	per port	3,000.00	1,500.00
60 Month Term	per port	3,000.00	1,500.00
OC-12c[3]			
12 Month Term	per port	4,000.00	2,000.00
36 Month Term	per port	4,000.00	2,000.00
60 Month Term	per port	4,000.00	2,000.00

* Schedule Cal. P.U.C. No. A-41 charges are not applicable.

1 Each port can accommodate multiple PVCs.
2 See Schedule Cal. P.U.C. No. C-1, Section III, for appropriate Special Access Line rates.
3 DS3, OC3c and OC12c Special Access Line rates will be provided on an Individual Case Basis (ICB). (N)

Continued

ADVANCED COMPETITIVE SERVICES

C. ASYNCHRONOUS TRANSFER MODE (ATM) SERVICE [1] - Continued (T)

4. Rates - Continued

(a) Nonrecurring Rates - Continued

Service	Unit	Maximum NRC [2]	Current NRC [2]	(T)
(3) Sustained Cell Rate - Permanent Virtual Channel (SCR-PVC)		$ 100.00	$ 0.00	
(4) Sustained Cell Rate - Additional		50.00	0.00	
(5) Peak Cell Rate		10.00	0.00	

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[2] Schedule Cal. P.U.C. No. A-41 charges are not applicable. (T)

Continued

ADVANCED COMPETITIVE SERVICES

C. ASYNCHRONOUS TRANSFER MODE (ATM) SERVICE - Continued (T)

4. Rates - Continued (N)

(a) Nonrecurring Rates - Continued

Service	Unit	Maximum NRC [1]	Current NRC [1]	
(3) Sustained Cell Rate - Permanent Virtual Channel (SCR-PVC)		$ 100.00	$ 0.00	
(4) Sustained Cell Rate - Additional		50.00	0.00	
(5) Peak Cell Rate		10.00	0.00	(N)

[1] Schedule Cal. P.U.C. No. A-41 charges are not applicable. (N)

Continued

ADVANCED COMPETITIVE SERVICES

C. RESERVED FOR FUTURE USE (T)

(D)

(D)

(D)

Continued

ADVANCED COMPETITIVE SERVICES (N)

C. ASYNCHRONOUS TRANSFER MODE (ATM) SERVICE - Continued

4. Rates - Continued

(a) Nonrecurring Rates - Continued

Service	Unit	Maximum NRC *	Current NRC *
(3) Sustained Cell Rate - Permanent Virtual Channel (SCR-PVC)		$100.00	$0.00
(4) Sustained Cell Rate - Additional		50.00	0.00
(5) Peak Cell Rate		10.00	0.00

* Schedule Cal. P.U.C. No. A-41 charges are not applicable. (N)

Continued

ADVANCED COMPETITIVE SERVICES

C. ASYNCHRONOUS TRANSFER MODE (ATM) SERVICE [1] - Continued (T)

4. Rates - Continued

(b) Monthly Rates

Service	Unit	Maximum Monthly Rate	Current Monthly Rate	
(1) UNI Port and Access Line [2]				(T)
DS1				
1 Year Term	per port	$ 1,300.00	$ 650.00	
3 Year Term	per port	1,050.00	525.00	
5 Year Term	per port	1,000.00	500.00	
DS3				
1 Year Term	per port	3,800.00	1,900.00	
3 Year Term	per port	3,500.00	1,750.00	
5 Year Term	per port	3,400.00	1,700.00	
OC3c				
1 Year Term	per port	4,200.00	2,100.00	
3 Year Term	per port	3,900.00	1,950.00	
5 Year Term	per port	3,600.00	1,800.00	
OC12c				
1 Year Term	per port	9,600.00	4,800.00	
3 Year Term	per port	9,200.00	4,600.00	
5 Year Term	per port	8,700.00	4,350.00	

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[2] Each port can accommodate multiple PVCs. (T)

Continued

ADVANCED COMPETITIVE SERVICES

C. ASYNCHRONOUS TRANSFER MODE (ATM) SERVICE - Continued (T)

4. Rates - Continued (N)

(b) Monthly Rates

Service	Unit	Maximum Monthly Rate	Current Monthly Rate	
(1) UNI Port and Access Line [1]				
DS1				
1 Year Term	per port	$ 1,300.00	$ 650.00	
3 Year Term	per port	1,050.00	525.00	
5 Year Term	per port	1,000.00	500.00	
DS3				
1 Year Term	per port	3,800.00	1,900.00	
3 Year Term	per port	3,500.00	1,750.00	
5 Year Term	per port	3,400.00	1,700.00	
OC3c				
1 Year Term	per port	4,200.00	2,100.00	
3 Year Term	per port	3,900.00	1,950.00	
5 Year Term	per port	3,600.00	1,800.00	
OC12c				
1 Year Term	per port	9,600.00	4,800.00	
3 Year Term	per port	9,200.00	4,600.00	
5 Year Term	per port	8,700.00	4,350.00	(N)

[1] Each port can accommodate multiple PVCs. (N)

Continued

ADVANCED COMPETITIVE SERVICES

C. RESERVED FOR FUTURE USE (T)

(D)

(D)

(D)

Continued

ADVANCED COMPETITIVE SERVICES (N)

C. ASYNCHRONOUS TRANSFER MODE (ATM) SERVICE - Continued

4. Rates - Continued

(b) Monthly Rates

Service	Unit	Maximum Monthly Rate	Current Monthly Rate
(1) UNI Port and Access Line*			
DS1			
12 Month Term	per port	$1,300.00	$ 650.00
36 Month Term	per port	1,050.00	525.00
60 Month Term	per port	1,000.00	500.00
DS3			
12 Month Term	per port	3,800.00	1,900.00
36 Month Term	per port	3,500.00	1,750.00
60 Month Term	per port	3,400.00	1,700.00
OC-3c			
12 Month Term	per port	4,200.00	2,100.00
36 Month Term	per port	3,900.00	1,950.00
60 Month Term	per port	3,600.00	1,800.00
OC-12c			
12 Month Term	per port	9,600.00	4,800.00
36 Month Term	per port	9,200.00	4,600.00
60 Month Term	per port	8,700.00	4,350.00

* Each port can accommodate multiple PVCs. (N)

Continued

ADVANCED COMPETITIVE SERVICES

C. ASYNCHRONOUS TRANSFER MODE (ATM) SERVICE [1] - Continued (T)

4. Rates - Continued

(b) Monthly Rates - Continued

Service	Unit	Maximum Monthly Rate	Current Monthly Rate	
(2) UNI Port Only [2]				(T)
DS1 [3]				(T)
1 Year Term	per port	$ 360.00	$ 180.00	
3 Year Term	per port	350.00	175.00	
5 Year Term	per port	340.00	170.00	
DS3 [3]				(T)
1 Year Term	per port	800.00	400.00	
3 Year Term	per port	740.00	370.00	
5 Year Term	per port	700.00	350.00	
OC3c [4]				(T)
1 Year Term	per port	1,360.00	680.00	
3 Year Term	per port	1,300.00	650.00	
5 Year Term	per port	1,260.00	630.00	
OC12c [4]				(T)
1 Year Term	per port	3,000.00	1,500.00	
3 Year Term	per port	2,860.00	1,430.00	
5 Year Term	per port	2,760.00	1,380.00	

[1] Effective January 14, 2005, ATM Service as provided in Section C. is no longer available to new customers. Existing OPP customers may continue their service until their OPP expires or their service is disconnected, whichever occurs first. Moves, additions or changes will not be permitted. Termination Liability as described in this section will not apply if a customer with an existing OPP discontinues service to subscribe to Asynchronous Transfer Mode Cell Relay Service on an Extended Service Plan of equal or greater value than the remaining OPP. (N)

[2] Each port can accommodate multiple PVCs. (T)

[3] See Schedule Cal. P.U.C. No. C-1, Section III, for appropriate Special Access Line rates.

[4] OC3c and OC12c Special Access Line rates will be provided on an Individual Case Basis (ICB). (T)

Continued

ADVANCED COMPETITIVE SERVICES

C. ASYNCHRONOUS TRANSFER MODE (ATM) SERVICE - Continued (T)

4. Rates - Continued (N)

(b) Monthly Rates - Continued

Service	Unit	Maximum Monthly Rate	Current Monthly Rate	
(2) UNI Port Only [1]				
DS1 [2]				
1 Year Term	per port	$ 360.00	$ 180.00	
3 Year Term	per port	350.00	175.00	
5 Year Term	per port	340.00	170.00	
DS3 [2]				
1 Year Term	per port	800.00	400.00	
3 Year Term	per port	740.00	370.00	
5 Year Term	per port	700.00	350.00	
OC3c [3]				
1 Year Term	per port	1,360.00	680.00	
3 Year Term	per port	1,300.00	650.00	
5 Year Term	per port	1,260.00	630.00	
OC12c [3]				
1 Year Term	per port	3,000.00	1,500.00	
3 Year Term	per port	2,860.00	1,430.00	
5 Year Term	per port	2,760.00	1,380.00	(N)

[1] Each port can accommodate multiple PVCs. (N)
[2] See Schedule Cal. P.U.C. No. C-1, Section III, for appropriate Special Access Line rates. |
[3] OC3c and OC12c Special Access Line rates will be provided on an Individual Case Basis (ICB). (N)

Continued

ADVANCED COMPETITIVE SERVICES

C. RESERVED FOR FUTURE USE (T)

(D)

(D)

(D)

(D)

Continued

ADVANCED COMPETITIVE SERVICES (N)

C. ASYNCHRONOUS TRANSFER MODE (ATM) SERVICE - Continued

4. Rates - Continued

(b) Monthly Rates - Continued

Service	Unit	Maximum Monthly Rate	Current Monthly Rate
(2) UNI Port Only*			
DS1[1]			
12 Month Term	per port	$ 360.00	$ 180.00
36 Month Term	per port	350.00	175.00
60 Month Term	per port	340.00	170.00
DS3[2]			
12 Month Term	per port	800.00	400.00
36 Month Term	per port	740.00	370.00
60 Month Term	per port	700.00	350.00
OC-3c[2]			
12 Month Term	per port	1,360.00	680.00
36 Month Term	per port	1,300.00	650.00
60 Month Term	per port	1,260.00	630.00
OC-12c[2]			
12 Month Term	per port	3,000.00	1,500.00
36 Month Term	per port	2,860.00	1,430.00
60 Month Term	per port	2,760.00	1,380.00

* Each port can accommodate multiple PVCs.
1 See Schedule Cal. P.U.C. No. C-1, Section III, for appropriate Special Access Line rates.
2 DS3, OC3c and OC12c Special Access Line rates will be provided on an Individual Case Basis (ICB). (N)

Continued

ADVANCED COMPETITIVE SERVICES

C. ASYNCHRONOUS TRANSFER MODE (ATM) SERVICE [1] - Continued (T)

4. Rates - Continued

(b) Monthly Rates - Continued

Service	Unit	Maximum Monthly Rate	Current Monthly Rate
(3) Sustained Cell Rate - Permanent Virtual Channel (SCR-PVC)			
0 - 32 Kbps - SCR-CBR		$ 24.00	$ 12.00
	VBR rt	20.00	10.00
	VBR nrt	16.00	8.00
33 - 64 Kbps - SCR-CBR		45.00	22.50
	VBR rt	37.50	18.75
	VBR nrt	30.00	15.00
65 - 96 Kbps - SCR-CBR		66.00	33.00
	VBR rt	55.00	27.50
	VBR nrt	44.00	22.00
97 - 128 Kbps - SCR-CBR		87.00	43.50
	VBR rt	72.50	36.25
	VBR nrt	58.00	29.00
129 - 192 Kbps - SCR-CBR		108.00	54.00
	VBR rt	90.00	45.00
	VBR nrt	72.00	36.00
193 - 256 Kbps - SCR-CBR		126.00	63.00
	VBR rt	105.00	52.50
	VBR nrt	84.00	42.00
257 - 320 Kbps - SCR-CBR		144.00	72.00
	VBR rt	120.00	60.00
	VBR nrt	96.00	48.00

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(N) Continued

ADVANCED COMPETITIVE SERVICES

C. ASYNCHRONOUS TRANSFER MODE (ATM) SERVICE - Continued (T)

4. Rates - Continued (N)

(b) Monthly Rates - Continued

Service	Unit	Maximum Monthly Rate	Current Monthly Rate
(3) Sustained Cell Rate - Permanent Virtual Channel (SCR-PVC)			
0 - 32 Kbps - SCR-CBR		$ 24.00	$ 12.00
	VBR rt	20.00	10.00
	VBR nrt	16.00	8.00
33 - 64 Kbps - SCR-CBR		45.00	22.50
	VBR rt	37.50	18.75
	VBR nrt	30.00	15.00
65 - 96 Kbps - SCR-CBR		66.00	33.00
	VBR rt	55.00	27.50
	VBR nrt	44.00	22.00
97 - 128 Kbps - SCR-CBR		87.00	43.50
	VBR rt	72.50	36.25
	VBR nrt	58.00	29.00
129 - 192 Kbps - SCR-CBR		108.00	54.00
	VBR rt	90.00	45.00
	VBR nrt	72.00	36.00
193 - 256 Kbps - SCR-CBR		126.00	63.00
	VBR rt	105.00	52.50
	VBR nrt	84.00	42.00
257 - 320 Kbps - SCR-CBR		144.00	72.00
	VBR rt	120.00	60.00
	VBR nrt	96.00	48.00 (N)

Continued

ADVANCED COMPETITIVE SERVICES

C. RESERVED FOR FUTURE USE (T)

(D)

(D)

Continued

ADVANCED COMPETITIVE SERVICES (N)

C. ASYNCHRONOUS TRANSFER MODE (ATM) SERVICE - Continued

4. Rates - Continued

(b) Monthly Rates - Continued

Service	Unit	Maximum Monthly Rate	Current Monthly Rate
(3) Sustained Cell Rate - Permanent Virtual Channel (SCR-PVC)			
0 - 32 Kbps - SCR-CBR		$ 24.00	$ 12.00
	VBR rt	20.00	10.00
	VBR nrt	16.00	8.00
33 - 64 Kbps - SCR-CBR		45.00	22.50
	VBR rt	37.50	18.75
	VBR nrt	30.00	15.00
65 - 96 Kbps - SCR-CBR		66.00	33.00
	VBR rt	55.00	27.50
	VBR nrt	44.00	22.00
97 - 128 Kbps - SCR-CBR		87.00	43.50
	VBR rt	72.50	36.25
	VBR nrt	58.00	29.00
129 - 192 Kbps - SCR-CBR		108.00	54.00
	VBR rt	90.00	45.00
	VBR nrt	72.00	36.00
193 - 256 Kbps - SCR-CBR		126.00	63.00
	VBR rt	105.00	52.50
	VBR nrt	84.00	42.00
257 - 320 Kbps - SCR-CBR		144.00	72.00
	VBR rt	120.00	60.00
	VBR nrt	96.00	48.00 (N)

Continued

ADVANCED COMPETITIVE SERVICES

C. ASYNCHRONOUS TRANSFER MODE (ATM) SERVICE [1] - Continued (T)

4. Rates - Continued

(b) Monthly Rates - Continued

Service	Unit	Maximum Monthly Rate	Current Monthly Rate
(3) Sustained Cell Rate - Permanent Virtual Channel (SCR-PVC) - Continued			
321 - 384 Kbps - SCR-CBR		$ 162.00	$ 81.00
	VBR rt	135.00	67.50
	VBR nrt	108.00	54.00
385 - 512 Kbps - SCR-CBR		180.00	90.00
	VBR rt	150.00	75.00
	VBR nrt	120.00	60.00
513 - 768 Kbps - SCR-CBR		195.00	97.50
	VBR rt	163.00	81.50
	VBR nrt	130.00	65.00
769 - 1152 Kbps - SCR-CBR		210.00	105.00
	VBR rt	175.00	87.50
	VBR nrt	140.00	70.00
1.153 - 1.536 Mbps - SCR-CBR		225.00	112.50
	VBR rt	187.50	93.75
	VBR nrt	150.00	75.00
1.537 - 4 Mbps - SCR-CBR		360.00	180.00
	VBR rt	300.00	150.00
	VBR nrt	240.00	120.00

[1] Effective January 14, 2005, ATM Service as provided in Section C. is no longer available to new customers. Existing OPP customers may continue their service until their OPP expires or their service is disconnected, whichever occurs first. Moves, additions or changes will not be permitted. Termination Liability as described in this section will not apply if a customer with an existing OPP discontinues service to subscribe to Asynchronous Transfer Mode Cell Relay Service on an Extended Service Plan of equal or greater value than the remaining OPP. (N)

Continued

ADVANCED COMPETITIVE SERVICES

C. ASYNCHRONOUS TRANSFER MODE (ATM) SERVICE - Continued (T)

4. Rates - Continued (N)

(b) Monthly Rates - Continued

Service	Unit	Maximum Monthly Rate	Current Monthly Rate
(3) Sustained Cell Rate - Permanent Virtual Channel (SCR-PVC) - Continued			
321 - 384 Kbps - SCR-CBR		$ 162.00	$ 81.00
	VBR rt	135.00	67.50
	VBR nrt	108.00	54.00
385 - 512 Kbps - SCR-CBR		180.00	90.00
	VBR rt	150.00	75.00
	VBR nrt	120.00	60.00
513 - 768 Kbps - SCR-CBR		195.00	97.50
	VBR rt	163.00	81.50
	VBR nrt	130.00	65.00
769 - 1152 Kbps - SCR-CBR		210.00	105.00
	VBR rt	175.00	87.50
	VBR nrt	140.00	70.00
1.153 - 1.536 Mbps - SCR-CBR		225.00	112.50
	VBR rt	187.50	93.75
	VBR nrt	150.00	75.00
1.537 - 4 Mbps - SCR-CBR		360.00	180.00
	VBR rt	300.00	150.00
	VBR nrt	240.00	120.00 (N)

Continued

ADVANCED COMPETITIVE SERVICES

C. RESERVED FOR FUTURE USE (T)

(D)

(D)

Continued

ADVANCED COMPETITIVE SERVICES (N)

C. ASYNCHRONOUS TRANSFER MODE (ATM) SERVICE - Continued

4. Rates - Continued

(b) Monthly Rates - Continued

Service	Unit	Maximum Monthly Rate	Current Monthly Rate
(3) Sustained Cell Rate - Permanent Virtual Channel (SCR-PVC) - Continued			
321 - 384 Kbps - SCR-CBR		$ 162.00	$ 81.00
	VBR rt	135.00	67.50
	VBR nrt	108.00	54.00
385 - 512 Kbps - SCR-CBR		180.00	90.00
	VBR rt	150.00	75.00
	VBR nrt	120.00	60.00
513 - 768 Kbps - SCR-CBR		195.00	97.50
	VBR rt	163.00	81.50
	VBR nrt	130.00	65.00
769 - 1152 Kbps - SCR-CBR		210.00	105.00
	VBR rt	175.00	87.50
	VBR nrt	140.00	70.00
1.153 - 1.536 Mbps - SCR-CBR		225.00	112.50
	VBR rt	187.50	93.75
	VBR nrt	150.00	75.00
1.537 - 4 Mbps - SCR-CBR		360.00	180.00
	VBR rt	300.00	150.00
	VBR nrt	240.00	120.00 (N)

Continued

ADVANCED COMPETITIVE SERVICES

C. ASYNCHRONOUS TRANSFER MODE (ATM) SERVICE [1] - Continued (T)

4. Rates - Continued

(b) Monthly Rates - Continued

Service	Unit	Maximum Monthly Rate	Current Monthly Rate
(3) Sustained Cell Rate - Permanent Virtual Channel (SCR-PVC) - Continued			
4 - 6 Mbps - SCR-CBR		$ 540.00	$ 270.00
	VBR rt	450.00	225.00
	VBR nrt	360.00	180.00
6 - 8 Mbps - SCR-CBR		720.00	360.00
	VBR rt	600.00	300.00
	VBR nrt	480.00	240.00
8 - 10 Mbps - SCR-CBR		900.00	450.00
	VBR rt	750.00	375.00
	VBR nrt	600.00	300.00
10 - 15 Mbps - SCR-CBR		990.00	495.00
	VBR rt	825.00	412.50
	VBR nrt	660.00	330.00
15 - 20 Mbps - SCR-CBR		1,230.00	615.00
	VBR rt	1,025.00	512.50
	VBR nrt	820.00	410.00
20 - 25 Mbps - SCR-CBR		1,470.00	735.00
	VBR rt	1,225.00	612.50
	VBR nrt	980.00	490.00
25 - 30 Mbps - SCR-CBR		1,710.00	855.00
	VBR rt	1,425.00	712.50
	VBR nrt	1,140.00	570.00

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(N) Continued

ADVANCED COMPETITIVE SERVICES

C. ASYNCHRONOUS TRANSFER MODE (ATM) SERVICE - Continued (T)

4. Rates - Continued (N)

(b) Monthly Rates - Continued

Service	Unit	Maximum Monthly Rate	Current Monthly Rate
(3) Sustained Cell Rate - Permanent Virtual Channel (SCR-PVC) - Continued			
4 - 6 Mbps - SCR-CBR		$ 540.00	$ 270.00
	VBR rt	450.00	225.00
	VBR nrt	360.00	180.00
6 - 8 Mbps - SCR-CBR		720.00	360.00
	VBR rt	600.00	300.00
	VBR nrt	480.00	240.00
8 - 10 Mbps - SCR-CBR		900.00	450.00
	VBR rt	750.00	375.00
	VBR nrt	600.00	300.00
10 - 15 Mbps - SCR-CBR		990.00	495.00
	VBR rt	825.00	412.50
	VBR nrt	660.00	330.00
15 - 20 Mbps - SCR-CBR		1,230.00	615.00
	VBR rt	1,025.00	512.50
	VBR nrt	820.00	410.00
20 - 25 Mbps - SCR-CBR		1,470.00	735.00
	VBR rt	1,225.00	612.50
	VBR nrt	980.00	490.00
25 - 30 Mbps - SCR-CBR		1,710.00	855.00
	VBR rt	1,425.00	712.50
	VBR nrt	1,140.00	570.00 (N)

Continued

ADVANCED COMPETITIVE SERVICES

C. RESERVED FOR FUTURE USE (T)

(D)

(D)

Continued

ADVANCED COMPETITIVE SERVICES (N)

C. ASYNCHRONOUS TRANSFER MODE (ATM) SERVICE - Continued

4. Rates - Continued

(b) Monthly Rates - Continued

Service	Unit	Maximum Monthly Rate	Current Monthly Rate
(3) Sustained Cell Rate - Permanent Virtual Channel (SCR-PVC) - Continued			
4 - 6 Mbps - SCR-CBR		$ 540.00	$ 270.00
	VBR rt	450.00	225.00
	VBR nrt	360.00	180.00
6 - 8 Mbps - SCR-CBR		720.00	360.00
	VBR rt	600.00	300.00
	VBR nrt	480.00	240.00
8 - 10 Mbps - SCR-CBR		900.00	450.00
	VBR rt	750.00	375.00
	VBR nrt	600.00	300.00
10 - 15 Mbps - SCR-CBR		990.00	495.00
	VBR rt	825.00	412.50
	VBR nrt	660.00	330.00
15 - 20 Mbps - SCR-CBR		1,230.00	615.00
	VBR rt	1,025.00	512.50
	VBR nrt	820.00	410.00
20 - 25 Mbps - SCR-CBR		1,470.00	735.00
	VBR rt	1,225.00	612.50
	VBR nrt	980.00	490.00
25 - 30 Mbps - SCR-CBR		1,710.00	855.00
	VBR rt	1,425.00	712.50
	VBR nrt	1,140.00	570.00 (N)

Continued

ADVANCED COMPETITIVE SERVICES

C. ASYNCHRONOUS TRANSFER MODE (ATM) SERVICE [1] - Continued (T)

4. Rates - Continued

(b) Monthly Rates - Continued

Service	Unit	Maximum Monthly Rate	Current Monthly Rate
(3) Sustained Cell Rate - Permanent Virtual Channel (SCR-PVC) - Continued			
30 - 35 Mbps - SCR-CBR		$ 1,950.00	$ 975.00
	VBR rt	1,625.00	812.50
	VBR nrt	1,300.00	650.00
35 - 40 Mbps - SCR-CBR		2,190.00	1,095.00
	VBR rt	1,825.00	912.50
	VBR nrt	1,460.00	730.00
40 - 45 Mbps - SCR-CBR		2,400.00	1,200.00
	VBR rt	2,000.00	1,000.00
	VBR nrt	1,600.00	800.00
45 - 50 Mbps - SCR-CBR		2,610.00	1,305.00
	VBR rt	2,175.00	1,087.50
	VBR nrt	1,740.00	870.00
(4) Sustained Cell Rate - Additional			
5 Mbps - SCR-CBR		210.00	105.00
	VBR rt	175.00	87.50
	VBR nrt	140.00	70.00
(5) Peak Cell Rate (PCR)			
1 Mbps - PCR		10.00	5.00

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Continued

ADVANCED COMPETITIVE SERVICES

C. ASYNCHRONOUS TRANSFER MODE (ATM) SERVICE - Continued (T)

4. Rates - Continued (N)

(b) Monthly Rates - Continued

Service	Unit	Maximum Monthly Rate	Current Monthly Rate	
(3) Sustained Cell Rate - Permanent Virtual Channel (SCR-PVC) - Continued				
30 - 35 Mbps - SCR-CBR		$ 1,950.00	$ 975.00	
	VBR rt	1,625.00	812.50	
	VBR nrt	1,300.00	650.00	
35 - 40 Mbps - SCR-CBR		2,190.00	1,095.00	
	VBR rt	1,825.00	912.50	
	VBR nrt	1,460.00	730.00	
40 - 45 Mbps - SCR-CBR		2,400.00	1,200.00	
	VBR rt	2,000.00	1,000.00	
	VBR nrt	1,600.00	800.00	
45 - 50 Mbps - SCR-CBR		2,610.00	1,305.00	
	VBR rt	2,175.00	1,087.50	
	VBR nrt	1,740.00	870.00	
(4) Sustained Cell Rate - Additional				
5 Mbps - SCR-CBR		210.00	105.00	
	VBR rt	175.00	87.50	
	VBR nrt	140.00	70.00	
(5) Peak Cell Rate (PCR)				
1 Mbps - PCR		10.00	5.00	(N)

Continued

ADVANCED COMPETITIVE SERVICES

C. RESERVED FOR FUTURE USE (T)

(D)

(D)

Continued

ADVANCED COMPETITIVE SERVICES (N)

C. ASYNCHRONOUS TRANSFER MODE (ATM) SERVICE - Continued

4. Rates - Continued

(b) Monthly Rates - Continued

Service	Unit	Maximum Monthly Rate	Current Monthly Rate	
(3) Sustained Cell Rate - Permanent Virtual Channel (SCR-PVC) - Continued				
30 - 35 Mbps - SCR-CBR		$ 1,950.00	$ 975.00	
	VBR rt	1,625.00	812.50	
	VBR nrt	1,300.00	650.00	
35 - 40 Mbps - SCR-CBR		2,190.00	1,095.00	
	VBR rt	1,825.00	912.50	
	VBR nrt	1,460.00	730.00	
40 - 45 Mbps - SCR-CBR		2,400.00	1,200.00	
	VBR rt	2,000.00	1,000.00	
	VBR nrt	1,600.00	800.00	
45 - 50 Mbps - SCR-CBR		2,610.00	1,305.00	
	VBR rt	2,175.00	1,087.50	
	VBR nrt	1,740.00	870.00	
(4) Sustained Cell Rate - Additional				
5 Mbps - SCR-CBR		210.00	105.00	
	VBR rt	175.00	87.50	
	VBR nrt	140.00	70.00	
(5) Peak Cell Rate (PCR)				
1 Mbps - PCR		10.00	5.00	(N)

Continued

ADVANCED COMPETITIVE SERVICES

D. VIDEOCONNECT℠ - 270 MBPS (N)

1. General

VideoConnect℠ - 270 Mbps service provides for the real time transport, management and control of moving pictures or video frames of information along with associated audio in a digital, uncompressed format, resulting in the highest quality signaling. VideoConnect℠ - 270 Mbps offers the uncompressed digital delivery of high-end film, video, and images via fiber optics.

VideoConnect℠ - 270 Mbps is offered as a switched configuration or a dedicated (non-switched) configuration. The switched configuration may be a point-to-point or multi-point arrangement that terminates on ports of the Utility's video switch. The dedicated arrangement is a point-to-point service for the transmission of video without accessing the Utility's video switch.

VideoConnect℠ - 270 Mbps is available under a month-to-month arrangement, term commitment plan of 1, 2, 3 or 5 years, or on a daily basis. The month-to-month offering requires a minimum service period of three months. In addition, with the exception of daily rates, for the switched configuration there are two volume tier levels used in determing applicable rates, 1-4 switched access line connections and 5 or more line connections between the same locations. When ordering additional connections, the customer must advise the Utility of the number of existing connections at the location.

VideoConnect℠ - 270 Mbps is provided via fiber optic or other compatible facilities. Where appropriate facilities are not available, Special Construction charges may apply as set forth in Schedule Cal. P.U.C. No. C-1, Section IX to provide such facilities required to meet the customer's request. (N)

Continued

ADVANCED COMPETITIVE SERVICES

D. VIDEOCONNECT[sm] - 270 MBPS - Continued (N)

2. Rate Elements

The rate elements for VideoConnect[sm] - 270 Mbps are described as follows:

(a) Switched Video Access Line (SVAL)

The Switched Video Access Line (SVAL) provides for the VideoConnect[sm] - 270 Mbps line connection between the customer designated locations and its serving wire center. The SVAL includes the appropriate video-enabling equipment, circuit equipment, and outside plant facilities to access the customer's serving wire center. The standard SVAL arrangement defines the technical characteristics associated with the type of facilities with which the video service will interconnect and the type of signaling capability, if any. The SVAL includes any video encoding device that may be necessary to provide the service if any is required.

The SVAL is available on a unidirectional or bi-directional basis.

(b) Switched Video Port

The Switched Video Port is the rate element that provides for the connection of an SVAL to the Utility's video network switch. The Switched Video Port rate is applied per SVAL on a unidirectional or bi-directional basis as determined by the directionality of the SVAL associated with the port.

(c) Dedicated Video Line (DVL)

The Dedicated Video Line (DVL) provides for non-switched VideoConnect[sm] - 270 Mbps line connection between the customer dedicated location and its serving wire center for the purpose of point-to-point video transmission without connecting to a Utility video switch. (N)

Continued

ADVANCED COMPETITIVE SERVICES

D. VIDEOCONNECT℠ - 270 MBPS - Continued (N)

2. Rate Elements - Continued

(d) VideoConnect℠ - 270 Mbps Transport

The VideoConnect℠ - 270 Mbps Transport rate element provides for the interoffice transmission facilities for service arrangements where the customer designated locations are not served by the same wire center and/or for switched video arrangments for interoffice transmission facilities between the serving wire center of the customer designated location and the video switch. Where a service is provided by more than one Utility, transport will be measured to the meet point. Transport rates are applied under two rate elements, a per airline mile rate component and a fixed mileage component for each 20 miles of transport or fraction thereof.

(e) Optional Features - VideoConnect℠ - 270 Mbps

(1) Audio

Audio channels are offered as an unbundled optional feature for VideoConnect℠ - 270 Mbps, as not all 270 Mbps video service arrangment require audio. Audio is provided in pairs of stereo channels.

(2) Alternate Switching - Manual

Alternate Switching-Manual provides the customer the ability to call the Video Transmission Center (VTC) and request a video technician to establish or switch up a connection to another location. This optional feature applies on a per switching event basis. (N)

Continued

ADVANCED COMPETITIVE SERVICES

D. VIDEOCONNECT℠ - 270 MBPS - Continued (N)

2. Rate Elements - Continued

(d) VideoConnect℠ - 270 Mbps Transport - Continued

(3) Conversion Services - Absolute Connect℠

Conversion services are offered to handle compatibility requirement between the end points of a video circuit. There are two conversion options available, Absolute Connect℠ - Format Conversion and Absolute Connect℠ - Codec Conversion.

a. Absolute Connect℠ - Format Conversion provides for analog to digital, digital to analog, composite to component, component to composite, serial digital to composite, serial digital to component, composite to serial digital and component to serial digital conversions, as may be required.

b. Absolute Connect℠ - Codec Conversion provides codec compatibility between the end points of the video circuit.

3. Term Commitment Plan (TCP)

(a) Termination Liability

One Year TCP - 50% of any remaining portion of the first year's recurring charges.

Two Year TCP - 50% of any remaining portion of the first year's recurring charges. In addition, for any remaining portion of the second year, the customer will be liable for 10% of the total monthly recurring charges in that time period. (N)

Continued

ADVANCED COMPETITIVE SERVICES

D. **VIDEOCONNECT℠ - 270 MBPS** - Continued (N)

3. Term Commitment Plan (TCP) - Continued

(a) Termination Liability - Continued

Three Year TCP - 50% of any remaining portion of the first year's recurring charges. In addition, for any remaining portion of the second and third years, the customer will be liable for 10% of the total monthly recurring charges in that time period.

Five Year TCP - 50% of any remaining portion of the first year's recurring charges. In addition, for any remaining portion of the second through fifth years, the customer will be liable for 20% of the total monthly recurring charges in that time period.

(b) Termination Without Liability

During a TCP period, should the currently effective rate for a customer's service increase, the customer may, at their option, terminate the TCP arrangement without penalty or liablity. (N)

Continued

ADVANCED COMPETITIVE SERVICES

D. VIDEOCONNECT℠ - 270 MBPS - Continued (N)

4. Types of Rates and Charges

(a) Nonrecurring Charges

Nonrecurring charges are one-time charges that apply for specific work activity.

(b) Monthly Rates

Monthly rates are recurring charges that apply each month or fraction thereof that service is provided. For billing purposes, each month is considered to have 30 days.

(c) Weekly Rates

Weekly rates are charges that apply to each seven day usage period or fraction thereof that service is provided, as requested by the customer. In no event will these part-time charges for continuous weekly usage, within the billing period, exceed the monthly rate.

(d) Daily Rates

Daily rates are recurring charges that apply to each 24 hour period or fraction thereof that service is provided. When part-time service is provided for ten or more consecutive days it will be treated as a full-time service and monthly rates will apply. In no event will the charges for continuous part-time service exceed the amount that would be charged in the same billing time period for full-time service.

(e) Hourly Rates

Hourly rate are recurring charges that apply to each 60 minute period, or fraction thereof, that service is provided. The billing period commences when the video circuit is available for the customer's use and ceases when the customer's use is discontinued. The maximum charge during any 30 day period will be that amount equal to 100 hours of use. In no event will the charges for continuous hourly usage exceed the daily rate. (N)

Continued

ADVANCED COMPETITIVE SERVICES

D. VIDEOCONNECT℠ - 270 MBPS - Continued (N)

5. Rates and Charges

(a) Nonrecurring Rates

Service	Unit	Maximum NRC *	Current NRC *
(1) Switched Video Access Line			
Unidirectional			
Volume 1 to 4			
Month-to-Month	per line	$750.00	$ 500.00
1 Year Term	per line	375.00	250.00
2 Year Term	per line	375.00	0.00
3 Year Term	per line	375.00	0.00
5 Year Term	per line	375.00	0.00
Volume 5 or More			
Month-to-Month	per line	375.00	250.00
1 Year Term	per line	375.00	0.00
2 Year Term	per line	375.00	0.00
3 Year Term	per line	375.00	0.00
5 Year Term	per line	375.00	0.00
Bi-directional			
Volume 1 to 4			
Month-to-Month	per line	1,125.00	750.00
1 Year Term	per line	750.00	500.00
2 Year Term	per line	750.00	0.00
3 Year Term	per line	750.00	0.00
5 Year Term	per line	750.00	0.00

* Schedule Cal. P.U.C. No. A-41 charges are not applicable. (N)

Continued

ADVANCED COMPETITIVE SERVICES

D. VIDEOCONNECT℠ - 270 MBPS - Continued (N)

5. Rates and Charges - Continued

(a) Nonrecurring Rates - Continued

Service	Unit	Maximum NRC *	Current NRC *
(1) Switched Video Access Line - Continued			
Bi-directional			
Volume 5 or More			
Month-to-Month	per line	$ 562.50	$ 375.00
1 Year Term	per line	562.50	0.00
2 Year Term	per line	562.50	0.00
3 Year Term	per line	562.50	0.00
5 Year Term	per line	562.50	0.00
(2) Switched Video Port			
Unidirectional			
Volume 1 to 4			
Month-to-Month	per port	750.00	500.00
1 Year Term	per port	375.00	250.00
2 Year Term	per port	375.00	0.00
3 Year Term	per port	375.00	0.00
5 Year Term	per port	375.00	0.00
Volume 5 or More			
Month-to-Month	per port	375.00	250.00
1 Year Term	per port	375.00	0.00
2 Year Term	per port	375.00	0.00
3 Year Term	per port	375.00	0.00
5 Year Term	per port	375.00	0.00

* Schedule Cal. P.U.C. No. A-41 charges are not applicable. (N)

Continued

ADVANCED COMPETITIVE SERVICES

D. **VIDEOCONNECT℠ - 270 MBPS** - Continued (N)

5. Rates and Charges - Continued

(a) Nonrecurring Rates - Continued

Service	Unit	Maximum NRC *	Current NRC *
(2) Switched Video Port - Continued			
Bi-directional			
Volume 1 to 4			
Month-to-Month	per port	$ 1,125.00	$ 750.00
1 Year Term	per port	750.00	500.00
2 Year Term	per port	750.00	0.00
3 Year Term	per port	750.00	0.00
5 Year Term	per port	750.00	0.00
Volume 5 or More			
Month-to-Month	per port	562.50	375.00
1 Year Term	per port	562.50	0.00
2 Year Term	per port	562.50	0.00
3 Year Term	per port	562.50	0.00
5 Year Term	per port	562.50	0.00
(3) Dedicated Video Line (DVL)			
Unidirectional			
Month-to-Month	per line	1,500.00	1,000.00
1 Year Term	per line	750.00	500.00
2 Year Term	per line	750.00	0.00
3 Year Term	per line	750.00	0.00
5 Year Term	per line	750.00	0.00

* Schedule Cal. P.U.C. No. A-41 charges are not applicable. (N)

Continued

ADVANCED COMPETITIVE SERVICES

D. VIDEOCONNECT℠ - 270 MBPS - Continued (N)

5. Rates and Charges - Continued

(a) Nonrecurring Rates - Continued

Service	Unit	Maximum NRC *	Current NRC *
(3) Dedicated Video Line (DVL) - Continued			
Bidirectional			
Month-to-Month	per line	$2,250.00	$1,500.00
1 Year Term	per line	1,500.00	1,000.00
2 Year Term	per line	1,500.00	0.00
3 Year Term	per line	1,500.00	0.00
5 Year Term	per line	1,500.00	0.00
(4) Optional Feature			
Two Stereo Channels		150.00	100.00
(5) Switched Arrangements - Daily			
Switched Video Port			
Unidirectional	per port	1,200.00	800.00
Bidirectional	per port	1,275.00	850.00
Switched Video Access Line			
Unidirectional	per line	1,200.00	800.00
Bidirectional	per line	1,275.00	850.00
(6) Dedicated Arrangements - Daily			
Dedicated Video Line			
Unidirectional	per line	2,400.00	1,600.00
Bidirectional	per line	2,550.00	1,700.00

* Schedule Cal. P.U.C. No. A-41 charges are not applicable. (N)

Continued

ADVANCED COMPETITIVE SERVICES

D. VIDEOCONNECT℠ - 270 MBPS - Continued (N)

5. Rates and Charges - Continued

(b) Monthly Rates

Service	Unit	Maximum Monthly Rates	Current Monthly Rates
(1) Switched Video Access Line			
Unidirectional			
Volume 1 to 4			
Month-to-Month	per line	$ 547.50	$ 365.00
1 Year Term	per line	540.00	360.00
2 Year Term	per line	532.50	355.00
3 Year Term	per line	525.00	350.00
5 Year Term	per line	517.50	345.00
Volume 5 or More			
Month-to-Month	per line	510.00	340.00
1 Year Term	per line	508.00	335.00
2 Year Term	per line	505.00	330.00
3 Year Term	per line	500.00	325.00
5 Year Term	per line	495.00	325.00
Bi-directional			
Volume 1 to 4			
Month-to-Month	per line	1,125.00	750.00
1 Year Term	per line	1,080.00	720.00
2 Year Term	per line	1,050.00	700.00
3 Year Term	per line	1,027.50	685.00
5 Year Term	per line	1,005.00	670.00 (N)

Continued

ADVANCED COMPETITIVE SERVICES

D. **VIDEOCONNECT[sm] - 270 MBPS** - Continued (N)

5. Rates and Charges - Continued

(b) Monthly Rates - Continued

Service	Unit	Maximum Monthly Rates	Current Monthly Rates
(1) Switched Video Access Line - Continued			
Bi-directional			
Volume 5 or More			
Month-to-Month	per line	$ 1,110.00	$ 740.00
1 Year Term	per line	1,065.00	710.00
2 Year Term	per line	1,035.00	690.00
3 Year Term	per line	1,012.50	675.00
5 Year Term	per line	990.00	660.00
(2) Switched Video Port			
Unidirectional			
Volume 1 to 4			
Month-to-Month	per line	577.50	385.00
1 Year Term	per line	537.00	358.00
2 Year Term	per line	530.00	338.00
3 Year Term	per line	525.00	328.00
5 Year Term	per line	520.00	323.00
Volume 5 or More			
Month-to-Month	per line	561.00	374.00
1 Year Term	per line	535.00	348.00
2 Year Term	per line	530.00	328.00
3 Year Term	per line	525.00	318.00
5 Year Term	per line	520.00	313.00 (N)

Continued

ADVANCED COMPETITIVE SERVICES

D. VIDEOCONNECT℠ - 270 MBPS - Continued (N)

5. Rates and Charges - Continued

(b) Monthly Rates - Continued

Service	Unit	Maximum Monthly Rates	Current Monthly Rates	
(2) Switched Video Port - Continued				
Bi-directional				
Volume 1 to 4				
Month-to-Month	per line	$ 766.50	$ 511.00	
1 Year Term	per line	705.00	463.00	
2 Year Term	per line	700.00	438.00	
3 Year Term	per line	695.00	428.00	
5 Year Term	per line	690.00	418.00	
Volume 5 or More				
Month-to-Month	per line	717.00	478.00	
1 Year Term	per line	705.00	458.00	
2 Year Term	per line	700.00	433.00	
3 Year Term	per line	695.00	423.00	
5 Year Term	per line	690.00	413.00	
(3) Dedicated Video Line				
Unidirectional				
Month-to-Month	per line	577.50	385.00	
1 Year Term	per line	562.50	375.00	
2 Year Term	per line	547.50	365.00	
3 Year Term	per line	532.50	355.00	
5 Year Term	per line	530.00	345.00	(N)

Continued

ADVANCED COMPETITIVE SERVICES

D. **VIDEOCONNECT[sm] - 270 MBPS** - Continued (N)

5. Rates and Charges - Continued

(b) Monthly Rates – Continued

Service	Unit	Maximum Monthly Rates	Current Monthly Rates	
(3) Dedicated Video Line - Continued				
Bi-directional				
Month-to-Month	per line	$1,155.00	$ 770.00	
1 Year Term	per line	1,110.00	740.00	
2 Year Term	per line	1,080.00	720.00	
3 Year Term	per line	1,057.50	705.00	
5 Year Term	per line	1,035.00	690.00	
(4) Transport				
Per Mile				
Month-to-Month	per line	24.75	16.50	
1 Year Term	per line	24.00	16.00	
2 Year Term	per line	23.25	15.50	
3 Year Term	per line	22.50	15.00	
5 Year Term	per line	21.75	14.50	
Per Each 20 Mile Increment				
Month-to-Month	per line	72.00	48.00	
1 Year Term	per line	69.00	46.00	
2 Year Term	per line	68.00	44.00	
3 Year Term	per line	67.00	42.00	
5 Year Term	per line	66.00	40.00	(N)

Continued

ADVANCED COMPETITIVE SERVICES

D. VIDEOCONNECT℠ - 270 MBPS - Continued (N)

5. Rates and Charges - Continued

(b) Monthly Rates – Continued

Service	Unit	Maximum Monthly Rates	Current Monthly Rates
(5) Optional Features			
Two Stereo Channels		$ 285.00	$ 170.00
Alternate Switching Manual, Each Event		35.00	20.00
Absolute Connect, CODEC Conversion		1,971.00	1,314.00

(c) Weekly Rates[1]

Service	Unit	Maximum Weekly Rates	Current Weekly Rates
Absolute Connect - CODEC Conversion		$ 775.00	$ 475.00

(d) Daily Rates[2]

Service	Unit	Maximum Daily Rates	Current Daily Rates
(1) Switched Arrangements			
Switched Video Port			
Unidirectional	per port	247.50	165.00
Bi-directional	per port	328.50	219.00

[1] In no event will charges for continuous weekly usage within the billing period, exceed the monthly rate.

[2] When service is provided for ten or more consecutive days, it will be treated as full-time and monthly rates will apply. (N)

Continued

ADVANCED COMPETITIVE SERVICES

D. **VIDEOCONNECT[sm] - 270 MBPS** - Continued (N)

5. Rates and Charges - Continued

(d) Daily Rates[1] – Continued

Service	Unit	Maximum Daily Rates	Current Daily Rates
(1) Switched Arrangements - Continued			
Switched Video Access Line			
Unidirectional	per line	$ 230.00	$ 145.00
Bi-directional	per line	435.00	290.00
(2) Dedicated Arrangements			
Unidirectional	per line	352.50	235.00
Bi-directional	per line	600.00	400.00
(3) Transport			
Per Mile	per mile	24.75	16.50
Fixed (Per 20 Mile)		72.00	48.00
(4) Optional Features			
Two Stereo Channels		22.50	15.00
Absolute Connect - CODEC Conversion		300.00	200.00

[1] When service is provided for ten or more consecutive days, it will be treated as full-time and monthly rates will apply. (N)

Continued

ADVANCED COMPETITIVE SERVICES

D. **VIDEOCONNECT[sm] - 270 MBPS** - Continued (N)

5. Rates and Charges - Continued

(e) Hourly Rates[1]

Service	Unit	Maximum Hourly Rates	Current Hourly Rates
(1) Optional Features			
Absolute Connect Format Conversion		$ 132.00	$ 88.00
Absolute Connect, CODEC Conversion		132.00	88.00

[1] In no event will the charges for continuous hourly usage exceed the daily rate. (N)

Continued

ADVANCED COMPETITIVE SERVICES

E. CUSTOM REDIRECT SERVICE

1. General

Custom Redirect Service enables customers to redirect all or a part of their incoming switched voice and data calls to other telephone numbers. The redirection may be on a permanent basis, automatically according to predetermined parameters, and/or upon command by the customer. This service may be used in the event of a communications failure, cable cut, fire, flood, or any other event requiring calls to be handled from alternate telephone numbers or an alternate location.

Basic Custom Redirect Service offers three options to redirect calls. The first option is usually a basic redirect to the dialed number. Options 2 and 3 would be the telephone number(s) the customer wants incoming calls redirected to when Option 1 is not the desired choice. The customer may designate that the basic redirection feature be used in each of the options or, the customer may select a Custom Redirect Optional Feature as described herein. (T)

Continued

ADVANCED COMPETITIVE SERVICES

E. CUSTOM REDIRECT SERVICE (N)

1. General

Custom Redirect Service enables customers to redirect all or a part of their incoming switched voice and data calls to other telephone numbers. The redirection may be on a permanent basis, automatically according to predetermined parameters, and/or upon command by the customer. This service may be used in the event of a communications failure, cable cut, fire, flood, or any other event requiring calls to be handled from alternate telephone numbers or an alternate location.

Custom Redirect Service offers three options to redirect calls. The first option is usually a basic redirect to the dialed number. Options 2 and 3 would be the telephone number(s) the customer wants incoming calls redirected to when Option 1 is not the desired choice. The customer may designate that the basic redirection feature be used in each of the options or, the customer may select a Custom Redirect Optional Feature as described herein. (N)

Continued

ADVANCED COMPETITIVE SERVICES

E. CUSTOM REDIRECT SERVICE - Continued

2. Feature Definitions

a. Standard Features

(1) Equipped Number (T)

Equipped number is the customer's called telephone number that has Custom Redirect Service. (T)

(2) Group

A group is the collection of equipped telephone numbers that will be redirected in the same way, at the same time. For example, if redirection is requested, all telephone numbers within that group will be redirected. If the customer chooses to have option three "active" in a particular group, then all equipped telephone numbers in the group will be redirected according to the direction in option three.

Every group must have the same optional features in each of the options. For example, if the option column has Time-of-Day redirection, then the times that the numbers are redirected are the same for all the numbers in that group. The actual telephone numbers that the calls are redirected to do not have to be the same. For all optional features, the telephone number that the calls are redirected to may be different.

(3) Option Column

An option column is a table of telephone numbers that are treated the same. Custom Redirect has three option columns per group with the basic service. Up to six additional options may be provisioned as an enhancement. If more than three options are chosen the Additional Option charge applies per additional (T)
option chosen. Only one option is active for a group at any given time. For example, in a particular group (T)
the first option may be the original dialed number, the second option may be the home telephone number, and the third might be a telephone number in an affiliate office in another city. If option two were selected (i.e., "active"), all telephone numbers in this group would be redirected to the respective telephone number in option column two. Similarly, if the customer selected option column three to be in effect and option three was provisioned with a Custom Redirect Service optional feature, then all telephone numbers in this option column would have the optional feature.

(4) Redirecting Telephone Number

A redirecting telephone number will have no office equipment associated with it and will be used solely for the purposes of redirecting call traffic from the telephone number dialed to the Custom Redirect Service customer's intended destination.

Continued

ADVANCED COMPETITIVE SERVICES

E. CUSTOM REDIRECT SERVICE - Continued (N)

2. Feature Definitions

a. Standard Features

(1) Equipped Telephone Number

Equipped telephone number is the customer's called telephone number that has Custom Redirect Service.

(2) Group

A group is the collection of equipped telephone numbers that will be redirected in the same way, at the same time. For example, if redirection is requested, all telephone numbers within that group will be redirected. If the customer chooses to have option three “active” in a particular group, then all equipped telephone numbers in the group will be redirected according to the direction in option three.

Every group must have the same optional features in each of the options. For example, if the option column has Time-of-Day redirection, then the times that the numbers are redirected are the same for all the numbers in that group. The actual telephone numbers that the calls are redirected to do not have to be the same. For all optional features, the telephone number that the calls are redirected to may be different.

(3) Option Column

An option column is a table of telephone numbers that are treated the same. Custom Redirect has three option columns per group with the basic service. Up to six additional options may be provisioned as an enhancement. Only one option is active for a group at any given time. For example, in a particular group the first option may be the original dialed number, the second option may be the home telephone number, and the third might be a telephone number in an affiliate office in another city. If option two were selected (i.e., “active”), all telephone numbers in this group would be redirected to the respective telephone number in option column two. Similarly, if the customer selected option column three to be in effect and option three was provisioned with a Custom Redirect Service optional feature, then all telephone numbers in this option column would have the optional feature.

(4) Redirecting Telephone Number

A redirecting telephone number will have no office equipment associated with it and will be used solely for the purposes of redirecting call traffic from the telephone number dialed to the Custom Redirect Service customer’s intended destination. (N)

Continued

ADVANCED COMPETITIVE SERVICES

E. CUSTOM REDIRECT SERVICE - Continued

2. Feature Definitions - Continued

a. Standard Features - Continued

(5) Modification of Active Option

When the customer elects to redirect calls, the customer calls into the Utility platform using a Touch-Tone telephone. Upon reaching the platform, the customer must pass through a series of security blocks to get into the system. Calls may also be redirected by calling a live attendant, who, after verifying security information, will establish the redirection of the calls.

After authorization is confirmed, the customer specifies which group and which option the customer wishes to activate. A group may be a floor, department, building, or some other customer-defined list of numbers. These groups are pre-assigned upon the establishment of the service.

The customer may call in to have the active option modified as frequently as desired. When calls are terminated to any number other than the originally-dialed number, redirection charges will apply as they would in Call Forwarding.

b. Optional Features

(1) Alternate Central Office Triggers

The ability to place triggers in central office switches, other than the original terminating central office, allows customers to redirect from the central office in which the call originates without requiring the call to complete to the serving central office. In the event that the serving central office is out of service, the customer's Custom Redirect Service may be activated, and all calls processing in a central office with an alternate central office trigger will be redirected per the current active option at that time. Triggers are associated with one customer NPA-NNX.

Allowing triggers to be placed in more than the terminating central office may increase the call volume queries processed because a portion of the calls may actually be processed by more than one central office. The customer's monthly Group Volume charges would be reflective of this increased call volume.

(D)

(D)

Continued

ADVANCED COMPETITIVE SERVICES

E. CUSTOM REDIRECT SERVICE - Continued

2. Feature Definitions - Continued

a. Standard Features - Continued

(5) Modification of Active Option

When the customer elects to redirect calls, the customer calls into the Utility platform using a Touch-Tone telephone. Upon reaching the platform, the customer must pass through a series of security blocks to get into the system. Calls may also be redirected by calling a live attendant, who, after verifying security information, will establish the redirection of the calls.

After authorization is confirmed, the customer specifies which group and which option the customer wishes to activate. A group may be a floor, department, building, or some other customer-defined list of numbers. These groups are pre-assigned upon the establishment of the service.

The customer may call in to have the active option modified as frequently as desired. When calls are terminated to any number other than the originally-dialed number, redirection charges will apply as they would in Call Forwarding.

c. Optional Features

(1) Alternate Central Office Triggers

The ability to place triggers in central office switches, other than the original terminating central office, allows customers to redirect from the central office in which the call originates without requiring the call to complete to the serving central office. In the event that the serving central office is out of service, the customer's Custom Redirect Service may be activated, and all calls processing in a central office with an alternate central office trigger will be redirected per the current active option at that time. Triggers are associated with one customer NPA-NNX. (T) (T) (T)

Allowing triggers to be placed in more than the terminating central office may increase the call volume queries processed because a portion of the calls may actually be processed by more than one central office. The customer's monthly Group Volume charges would be reflective of this increased call volume.

(2) Auto-Attendant Redirection

The Utility will load a customer defined prerecorded message. After incoming callers hear the message, they may be prompted to enter a "1", "2", or "3" on their Touch-Tone pad. The call will then be redirected to a telephone number that the customer designated for that selection. The customer may select up to three redirect choices for each equipped telephone number. The Auto-Attendant Redirection feature may be used with any of the option columns. When this feature is used in more than one option, the optional feature charge applies to each option utilizing the feature.

Continued

ADVANCED COMPETITIVE SERVICES

E. CUSTOM REDIRECT SERVICE - Continued (N)

2. Feature Definitions - Continued

a. Standard Features - Continued

(5) Modification of Active Option

When the customer elects to redirect calls, the customer calls into the Utility platform using a Touch-Tone telephone. Upon reaching the platform, the customer must pass through a series of security blocks to get into the system. Calls may also be redirected by calling a live attendant, who, after verifying security information, will establish the redirection of the calls.

After authorization is confirmed, the customer specifies which group and which option the customer wishes to activate. A group may be a floor, department, building, or some other customer-defined list of numbers. These groups are pre-assigned upon the establishment of the service.

The customer may call in to have the active option modified as frequently as desired. When calls are terminated to any number other than the originally-dialed number, redirection charges will apply as they would in Call Forwarding.

d. Optional Features

(1) Alternate Central Office Triggers

The ability to place triggers in central offices, other than the original terminating central office, allows customers to redirect from the central office in which the call originates without requiring the call to complete to the serving central office. In the event that the serving central office is out of service, the customer's Custom Redirect Service may be activated, and all calls processing in a central office with an alternate central office trigger will be redirected per the current active option at that time.

Allowing triggers to be placed in more than the terminating central office may increase the call volume queries processed because a portion of the calls may actually be processed by more than one central office. The customer's monthly Group Volume charges would be reflective of this increased call volume.

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Continued

ADVANCED COMPETITIVE SERVICES

E. CUSTOM REDIRECT SERVICE - Continued

2. Feature Definitions - Continued

b. Optional Features – Continued

(2) Custom Applications (T)

Although most customer applications are provided using the optional features listed herein, custom applications may also be provisioned. Custom applications will include the inclusion in the call processing record a single table or single field manipulation to meet a specific customer's need.

Dialed Number Recovery (DNR) is an example of a Custom Application. DNR presents the original dialed number to a new customer location. (N) (N)

It is not the intent to provide all AIN (Advanced Intelligent Network) custom applications through this tariff item. Very complex applications, and applications for purposes other than the directing of incoming calls will not be considered part of this feature and will require special assemblies. Custom applications will be provided on an Individual Case Basis (ICB).

(3) Number Identification Redirection (T)

This feature allows the customer to redirect calls based upon the originating telephone number, NXX, LATA (Local Access and Transport Area), or NPA (Numbering Plan Area) of the incoming caller. With this feature, the customer utilizes a list to assign specific incoming telephone numbers to a number they are to be redirected to. If an incoming caller's number is on the list, the call will be redirected to the number specified on the list. If the incoming caller's telephone number is not on the list, the call will be completed as dialed.

The customer may have as many numbers as desired on the list. The customer will be billed for each 100 numbers or any fraction thereof. Number Identification Redirection may be used with any of the option columns. If this feature is used in more than one option, the optional feature charge applies to each option utilizing the feature.

Number Identification Redirection may not be used to pass the identity of the calling party's number to the customer. This feature in no way replaces, enhances nor interferes with Caller ID as found in Schedule Cal. P.U.C. No.

(4) Percentage Redirection (T)

Redirection may be done by percentages. For example, when Percentage Redirection is activated, the customer may direct 20% of the incoming calls to location A, 30% to location B, and 50% to location C. The customer may choose up to ten percentages, but the total must always equal 100%. The Percentage Redirection feature may be used with any of the option columns. If this feature is used in more than one option, the optional feature charge applies to each option utilizing the feature.

Continued

ADVANCED COMPETITIVE SERVICES

E. CUSTOM REDIRECT SERVICE - Continued (N)

2. Feature Definitions - Continued

c. Optional Features – Continued

(3) Custom Applications

Although most customer applications are provided using the optional features listed herein, custom applications may also be provisioned. Custom applications will include the inclusion in the call processing record a single table or single field manipulation to meet a specific customer's need.

It is not the intent to provide all AIN (Advanced Intelligent Network) custom applications through this tariff item. Very complex applications, and applications for purposes other than the directing of incoming calls will not be considered part of this feature and will require special assemblies. Custom applications will be provided on an Individual Case Basis (ICB).

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The customer may have as many numbers as desired on the list. The customer will be billed for each 100 numbers or any fraction thereof. Number Identification Redirection may be used with any of the option columns. If this feature is used in more than one option, the optional feature charge applies to each option utilizing the feature.

Number Identification Redirection may not be used to pass the identity of the calling party's number to the customer. This feature in no way replaces, enhances nor interferes with Caller ID as found in Schedule Cal. P.U.C. No.

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Continued

ADVANCED COMPETITIVE SERVICES

E. CUSTOM REDIRECT SERVICE - Continued

2. Feature Definitions - Continued

b. Optional Features – Continued

(5) Single Number Destination Service (T)

This feature will allow customers to redirect an entire group to a single number provided at the time of activation. At the time of provisioning, customers must designate an interexchange carrier of their choice to carry the redirected traffic. The billing for calls redirected using this feature will be by the carrier specified by the customer.

(6) Special Custom Redirect Service Transaction (T)

Occasionally customers will require a one-time effort related to their Custom Redirect Service. This may include the generation of a special report, out-of-hours programming support for testing, or other special handling of the service that was not included in the rate development for the service. This rate element will allow customers to request such services and the Utility to recover the costs associated with these special requests. Should the customer elect to go forward with the transaction developed, charges will be applied on an Individual Case Basis (ICB).

(7) SuperGroups (T)

The customer may choose to group their groups into SuperGroups. A SuperGroup is similar to a distribution list of groups and will allow the customer to modify the active option of multiple groups at the same time. For example if groups 101, 102, and 105 belong to SuperGroup 001, setting SuperGroup 001 to option 3 would set 101, 102 and 105 to option 3.

If the same group is assigned to multiple SuperGroups, the active option would be the last option set. For example, based on the definition of SuperGroup 001 above and an additional SuperGroup 002, which includes groups 103, 104 and 105: If after SuperGroup 001 is set to option 3, SuperGroup 002 is set to option 2, Group 105 would be set to option 2.

(8) Time-of-Day/Day-of-Week Redirection (T)

This optional feature allows customers to redirect the customer's calls to another location at predesignated times. For example, particular numbers can be redirected to another location after 5 PM, or, just on Saturdays. The system will automatically route these calls until the customer changes the specifications. This will allow the customer to use a single office to perform the work of many locations during the off-peak hours. Time-of-Day/Day-of-Week Redirection may be used with any of the option columns. If this feature is used in more than one option, the optional feature charge applies to each option utilizing the feature.

Continued

ADVANCED COMPETITIVE SERVICES

E. CUSTOM REDIRECT SERVICE - Continued (N)

2. Feature Definitions - Continued

b. Optional Features – Continued

(6) Single Number Destination Service

This feature will allow customers to redirect an entire group to a single number provided at the time of activation. At the time of provisioning, customers must designate an interexchange carrier of their choice to carry the redirected traffic. The billing for calls redirected using this feature will be by the carrier specified by the customer.

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(8) SuperGroups

The customer may choose to group their groups into SuperGroups. A SuperGroup is similar to a distribution list of groups and will allow the customer to modify the active option of multiple groups at the same time. For example if groups 101, 102, and 105 belong to SuperGroup 001, setting SuperGroup 001 to option 3 would set 101, 102 and 105 to option 3.

If the same group is assigned to multiple SuperGroups, the active option would be the last option set. For example, based on the definition of SuperGroup 001 above and an additional SuperGroup 002, which includes groups 103, 104 and 105: If after SuperGroup 001 is set to option 3, SuperGroup 002 is set to option 2, Group 105 would be set to option 2.

(9) Time-of-Day/Day-of-Week Redirection

This optional feature allows customers to redirect the customer's calls to another location at predesignated times. For example, particular numbers can be redirected to another location after 5 PM, or, just on Saturdays. The system will automatically route these calls until the customer changes the specifications. This will allow the customer to use a single office to perform the work of many locations during the off-peak hours. Time-of-Day/Day-of-Week Redirection may be used with any of the option columns. If this feature is used in more than one option, the optional feature charge applies to each option utilizing the feature. (N)

Continued

ADVANCED COMPETITIVE SERVICES

E. CUSTOM REDIRECT SERVICE - Continued

3. Special Conditions

a. Custom Redirect Service is available where Utility facilities permit.

b. Custom Redirect Service may be provisioned with group sizes as small as one.

c. The tariff rates specified in 5.RATES do not apply to telephone numbers which require excessive translations work. For example, Custom Redirect Service provisioned out of 5ESS® [1] switches for customers subscribing to Direct Inward Dialing (DID) service would require excessive translations work. Charges for this work will be applied on an Individual Case Basis (ICB).

d. Each group may have up to three options for the basic rate. In most cases, the first option will be the called number, leaving two additional options for the customer to define. An additional six options may be purchased at an additional charge for a total of nine options per group. If more than three options are chosen, the Additional Option charges apply per additional option. Up to six additional options may be provisioned as an enhancement to the Basic service. (T) (T)

e. Calls to telephone numbers associated with Custom Redirect Service must be redirected to a customer-assigned number terminating in either a customer location, an interexchange carrier's point of presence, a voice mail system, an Auto-Attendant system, or an announcement frame within the LATA of call termination. In the event the final destination is out of the LATA, the customer designates the Primary Interexchange Carrier (PIC), and the Utility hands the call off to the carrier selected. A redirecting telephone number cannot be used to trigger another redirecting telephone number.

f. It is the responsibility of the Custom Redirect customer redirecting calls to a third party to obtain, when appropriate, the third party's permission prior to the calls being redirected.

g. Charges for calls between the Custom Redirect Service equipped telephone number and the telephone number to which these calls are redirected are the responsibility of the customer.

h. The customer must have sufficient lines and associated facilities to handle the estimated or actual number of calls without interfering with exchange or toll service. The Utility reserves the right to disconnect the service immediately in accordance with the regulations contained in Schedule Cal. P.U.C. No. D&R, Rule No. 11.

i. Custom Redirect Service is not to be used by customers to avoid toll charges. If a customer is using this service to avoid such charges, the Utility reserves the right to disconnect the service immediately and bill all appropriate toll charges.

[1] 5ESS® is a Registered Trademark of Lucent Technologies, Inc.

Continued

ADVANCED COMPETITIVE SERVICES

E. CUSTOM REDIRECT SERVICE - Continued (N)

3. Special Conditions

a. Custom Redirect Service is available where Utility facilities permit.

b. Custom Redirect Service may be provisioned with group sizes as small as one.

c. The tariff rates specified in 5.RATES do not apply to telephone numbers which require excessive translations work. For example, Custom Redirect Service provisioned out of 5ESS® [1] switches for customers subscribing to Direct Inward Dialing (DID) service would require excessive translations work. Charges for this work will be applied on an Individual Case Basis (ICB).

d. Each group may have up to three options for the basic rate. In most cases, the first option will be the called number, leaving two additional options for the customer to define. An additional six options may be purchased at an additional charge for a total of nine options per group.

e. Calls to telephone numbers associated with Custom Redirect Service must be redirected to a customer-assigned number terminating in either a customer location, an interexchange carrier's point of presence, a voice mail system, an Auto-Attendant system, or an announcement frame within the LATA of call termination. In the event the final destination is out of the LATA, the customer designates the Primary Interexchange Carrier (PIC), and the Utility hands the call off to the carrier selected. A redirecting telephone number cannot be used to trigger another redirecting telephone number.

f. It is the responsibility of the Custom Redirect customer redirecting calls to a third party to obtain, when appropriate, the third party's permission prior to the calls being redirected.

g. Charges for calls between the Custom Redirect Service equipped telephone number and the telephone number to which these calls are redirected are the responsibility of the customer.

h. The customer must have sufficient lines and associated facilities to handle the estimated or actual number of calls without interfering with exchange or toll service. The Utility reserves the right to disconnect the service immediately in accordance with the regulations contained in Schedule Cal. P.U.C. No. D&R, Rule No. 11.

ii. Custom Redirect Service is not to be used by customers to avoid toll charges. If a customer is using this service to avoid such charges, the Utility reserves the right to disconnect the service immediately and bill all appropriate toll charges. (N)

1 5ESS® is a Registered Trademark of Lucent Technologies, Inc. (N)

Continued

ADVANCED COMPETITIVE SERVICES

E. CUSTOM REDIRECT SERVICE - Continued

3. Special Conditions – Continued

j. Term Option

Customers with more than 500 lines provisioned may choose a five-year term option for a lower monthly line rate. If the customer terminates service prior to the anniversary date of the term commitment plan, termination liability charges will apply.

k. Minimum Period

A twelve-month minimum subscription period is applicable to Custom Redirect Service. If service is cancelled prior to the initial twelve-month subscription period, the full monthly rate for each remaining month, or part thereof, will be charged. Changes to the original configuration shall not constitute a cancellation. (T)

l. Termination Liability

(1) Month-to-Month

Customer shall be liable for the full monthly rate for the minimum period of 12 months. If service is terminated prior to the initial twelve-month minimum subscription period, charges as specified in 3.k will apply to the remainder of the twelve-month period.

(2) Term Option

If service is terminated prior to the initial twelve-month minimum subscription period, the customer shall be liable for the full monthly rate for the the remainder of the twelve-month period. For years two through five of the term commitment plan, the customer may either change to the month-to-month option or pay termination liability charges as specified in Schedule Cal. D&R, Rule No. 47, for the remainder of the term commitment plan.

If service is terminated after the initial twelve-month minimum subscription period, but prior to the anniversary date of the term commitment plan, termination liability charges as specified in Schedule Cal. P.U.C. No. D&R, Rule No. 47, will apply to the remainder of the term commitment plan.

m. Initial Average Monthly Query Volumes are estimates only. After installation, Verizon will periodically and at its discretion, complete audits of numbers of queries. Billing will be corrected if necessary to make adjustment to the monthly charges based upon the results of the audit. (N) | (N)

Continued

ADVANCED COMPETITIVE SERVICES

E. CUSTOM REDIRECT SERVICE - Continued (N)

3. Special Conditions – Continued

j. Term Option

Customers with more than 500 lines provisioned may choose a five-year term option for a lower monthly line rate. If the customer terminates service prior to the anniversary date of the term commitment plan, termination liability charges will apply.

k. Minimum Period

A twelve-month minimum subscription period is applicable to Custom Redirect Service. If service is cancelled prior to the initial twelve-month subscription period, the full monthly rate for each remaining month, or part thereof, will be charged. Changes to the original configuration shall not constitute a cancellation as long as the total number of Custom Redirect equipped telephone numbers has not decreased.

l. Termination Liability

(1) Month-to-Month

Customer shall be liable for the full monthly rate for the minimum period of 12 months. If service is terminated prior to the initial twelve-month minimum subscription period, charges as specified in 3.k will apply to the remainder of the twelve-month period.

(2) Term Option

If service is terminated prior to the initial twelve-month minimum subscription period, the customer shall be liable for the full monthly rate for the the remainder of the twelve-month period. For years two through five of the term commitment plan, the customer may either change to the month-to-month option or pay termination liability charges as specified in Schedule Cal. D&R, Rule No. 47, for the remainder of the term commitment plan.

If service is terminated after the initial twelve-month minimum subscription period, but prior to the anniversary date of the term commitment plan, termination liability charges as specified in Schedule Cal. P.U.C. No. D&R, Rule No. 47, will apply to the remainder of the term commitment plan. (N)

Continued

ADVANCED COMPETITIVE SERVICES

E. CUSTOM REDIRECT SERVICE - Continued

4. Application of Rates and Charges

a. Service Establishment Charge

Charges will apply for the original order for Custom Redirect Service per Service Order or per Account. This charge will apply to New Orders of Custom Redirect Service. If a customer is modifying the existing order, including adding additional numbers, the Rearrangement Charge would apply. The addition of a new group, or a request for additional security forms, will result in a Service Establishment Charge. (T)

b. Equipped Number (T)

There will be a monthly rate, in addition to a nonrecurring charge, for each equipped telephone number. The Feature Per Equipped Telephone Number charge will be based on the quantity of equipped telephone numbers within the customer's account. In addition to the monthly rate, a nonrecurring charge will apply to each number installed.

c. Average Monthly Group Volume Charge (Queries per Month, per Group) (T)

A monthly rate, in addition to a nonrecurring charge, will apply for each group of equipped telephone numbers the customer designates. The monthly rate will be based on the estimated monthly volume of queries expected by the equipped telephone numbers. A query is launched to the AIN database when a central office trigger is encountered. In basic implementations, query volume is equal to the call volume. As enhancements to the call processing logic are added and additional central office triggers placed, the query volume may exceed the call volume, resulting in an increase in the Average Monthly Group Volume Charge.

d. Rearrangement Charge

A nonrecurring charge will apply to each rearrangement. This is in addition to normal service order charges from Schedule Cal. P.U.C. No. A-41. Each change to an equipped telephone number will result in a nonrecurring charge for each equipped telephone number impacted. If a customer is modifying existing Custom Redirect Service, including adding additional numbers, the Rearrangement Charge applies.

e. Password Initialization

Once service is established, this nonrecurring charge applies each time the customer requests the Utility to reinitialize the pass code to the default pass code or to modify existing security profiles. A service order will be generated after the initialization takes place and a Subsequent Order charge from Schedule Cal. P.U.C. No. A-41 will also apply.

f. Redirection Charges

There is no charge associated with modifying the active option. Customers may select to activate options as frequently as desired. When calls are redirected, the Custom Redirect customer will pay the portion of the call from the original called central office to the terminating number. The rate charged will be in accordance with the customer's current usage plan similar to a call transfer or a call forward.

Continued

ADVANCED COMPETITIVE SERVICES

E. CUSTOM REDIRECT SERVICE - Continued (N)

4. Application of Rates and Charges

a. Service Establishment Charge

This charge will apply for the establishment of Custom Redirect Service (CRS), when a new group is added to the existing CRS or if a new security form is requested to make changes to information previously provided by the customer. In addition, if the pending installation order is modified by the customer, such as adding additional numbers, a Rearrangement Charge will be applied.

b. Feature Per Equipped Telephone Number

There will be a monthly rate, in addition to a nonrecurring charge, for each equipped telephone number. The Feature Per Equipped Telephone Number charge will be based on the quantity of equipped telephone numbers within the customer's account. In addition to the monthly rate, a nonrecurring charge will apply to each number installed.

c. Average Monthly Group Volume Charge

A monthly rate, in addition to a nonrecurring charge, will apply for each group of equipped telephone numbers the customer designates. The monthly rate will be based on the estimated monthly volume of queries expected by the equipped telephone numbers. A query is launched to the AIN database when a central office trigger is encountered. In basic implementations, query volume is equal to the call volume. As enhancements to the call processing logic are added and additional central office triggers placed, the query volume may exceed the call volume, resulting in an increase in the Average Monthly Group Volume Charge.

d. Rearrangement Charge

A nonrecurring charge will apply to each rearrangement. This is in addition to normal service order charges from Schedule Cal. P.U.C. No. A-41. Each change to an equipped telephone number will result in a nonrecurring charge for each equipped telephone number impacted. If a customer is modifying existing Custom Redirect Service, including adding additional numbers, the Rearrangement Charge applies.

e. Password Initialization

Once service is established, this nonrecurring charge applies each time the customer requests the Utility to reinitialize the pass code to the default pass code or to modify existing security profiles. A service order will be generated after the initialization takes place and a Subsequent Order charge from Schedule Cal. P.U.C. No. A-41 will also apply.

f. Redirection Charges

There is no charge associated with modifying the active option. Customers may select to activate options as frequently as desired. When calls are redirected, the Custom Redirect customer will pay the portion of the call from the original called central office to the terminating number. The rate charged will be in accordance with the customer's current usage plan similar to a call transfer or a call forward. (N)

Continued

ADVANCED COMPETITIVE SERVICES

E. CUSTOM REDIRECT SERVICE - Continued

4. Application of Rates and Charges – Continued

g. Redirecting Telephone Number

A monthly rate and a nonrecurring installation charge will apply to each assigned telephone number that will be used solely for the purpose of provisioning Custom Redirect Service. This telephone number will have no central office equipment associated with it and will be used solely for the purposes of generating a central office trigger.

h. Additional Option Charge

The basic monthly recurring charge for Custom Routing Service includes up to three basic options per group. A customer may add up to six additional options, for a total of nine per group. The Additional Option Charge and specific feature charges would apply per each option.

i. Optional Feature Charges

(1) Alternate Central Office Triggers

A nonrecurring charge will apply at the time of the establishment of the central office triggers, and a flat monthly rate will be billed for each NPA-NNX trigger in each central office switch in which a trigger is placed.

(D)
|
(D)

(2) Custom Applications (T)

A nonrecurring charge will apply at the time of the establishment of this feature, and a flat monthly rate will be billed for each option with this feature.

(3) Number Identification Redirection (T)

A monthly rate and a nonrecurring charge will apply for the first 100 telephone numbers listed for Number Identification Redirection. Each additional 100 numbers, or fraction thereof, will incur a nonrecurring charge and a monthly recurring charge.

(4) Percentage Redirection (T)

A nonrecurring charge will apply at the time of the establishment of this feature, and a flat monthly rate will be billed for each option with this feature.

Continued

ADVANCED COMPETITIVE SERVICES

E. CUSTOM REDIRECT SERVICE - Continued

4. Application of Rates and Charges – Continued

g. Redirecting Telephone Number

A monthly rate and a nonrecurring installation charge will apply to each assigned telephone number that will be used solely for the purpose of provisioning Custom Redirect Service. This telephone number will have no central office equipment associated with it and will be used solely for the purposes of generating a central office trigger.

h. Additional Option Charge

The basic monthly recurring charge for Custom Routing Service includes up to three basic options per group. A customer may add up to six additional options, for a total of nine per group. The Additional Option Charge and specific feature charges would apply per each option.

i. Optional Feature Charges

(1) Alternate Central Office Triggers

A nonrecurring charge will apply at the time of the establishment of the central office triggers, and a flat monthly rate will be billed for each NPA-NNX trigger in each central office switch in which a trigger is placed. (T)

(2) Auto-Attendant Redirection

Due to the custom nature of this feature, pricing will be developed for each application on an Individual Case Basis.

(3) Custom Applications

A nonrecurring charge will apply at the time of the establishment of this feature, and a flat monthly rate will be billed for each option with this feature.

(4) Number Identification Redirection

A monthly rate and a nonrecurring charge will apply for the first 100 telephone numbers listed for Number Identification Redirection. Each additional 100 numbers, or fraction thereof, will incur a nonrecurring charge and a monthly recurring charge.

(5) Percentage Redirection

A nonrecurring charge will apply at the time of the establishment of this feature, and a flat monthly rate will be billed for each option with this feature.

Continued

ADVANCED COMPETITIVE SERVICES

E. CUSTOM REDIRECT SERVICE - Continued (N)

4. Application of Rates and Charges – Continued

g. Redirecting Telephone Number

A monthly rate and a nonrecurring installation charge will apply to each assigned telephone number that will be used solely for the purpose of provisioning Custom Redirect Service. This telephone number will have no central office equipment associated with it and will be used solely for the purposes of generating a central office trigger.

h. Additional Option Charge

The basic monthly recurring charge for Custom Routing Service includes up to three basic options per group. A customer may add up to six additional options, for a total of nine per group. The Additional Option Charge and specific feature charges would apply per each option.

i. Optional Feature Charges

(1) Alternate Central Office Triggers

A nonrecurring charge will apply at the time of the establishment of the central office triggers, and a flat monthly rate will be billed for each central office in which the trigger is placed.

(2) Auto-Attendant Redirection

Due to the custom nature of this feature, pricing will be developed for each application on an Individual Case Basis.

(3) Custom Applications

A nonrecurring charge will apply at the time of the establishment of this feature, and a flat monthly rate will be billed for each option with this feature.

(4) Number Identification Redirection

A monthly rate and a nonrecurring charge will apply for the first 100 telephone numbers listed for Number Identification Redirection. Each additional 100 numbers, or fraction thereof, will incur a nonrecurring charge and a monthly recurring charge.

(5) Percentage Redirection

A nonrecurring charge will apply at the time of the establishment of this feature, and a flat monthly rate will be billed for each option with this feature. (N)

Continued

ADVANCED COMPETITIVE SERVICES

E. CUSTOM REDIRECT SERVICE - Continued

4. Application of Rates and Charges – Continued

i. Optional Feature Charges – Continued

(5) Single Number Destination Service (T)

A monthly and nonrecurring charge will apply for each group on which this feature is ordered.

(6) Special Custom Redirect Service Transaction (T)

This rate element will allow customers to request services required on a one-time effort basis, such as the generation of a special report, out-of-hours programming support for testing, or other special handling that was not included in the rate development for Custom Redirect Service. Should the customer elect to go forward with the transaction developed, charges will be applied on an Individual Case Basis (ICB).

(7) SuperGroups (T)

A nonrecurring charge will apply at the time of the establishment of this feature, and a flat monthly rate will be billed for each group with this feature.

(8) Time-of-Day/Day-of-Week Redirection (T)

A nonrecurring charge will apply at the time of the establishment of this feature, and a flat monthly rate will be billed for each option with this feature.

Continued

ADVANCED COMPETITIVE SERVICES

E. CUSTOM REDIRECT SERVICE - Continued (N)

4. Application of Rates and Charges – Continued

ii. Optional Feature Charges – Continued

(6) Single Number Destination Service

A monthly and nonrecurring charge will apply for each group on which this feature is ordered.

(7) Special Custom Redirect Service Transaction

This rate element will allow customers to request services required on a one-time effort basis, such as the generation of a special report, out-of-hours programming support for testing, or other special handling that was not included in the rate development for Custom Redirect Service. Should the customer elect to go forward with the transaction developed, charges will be applied on an Individual Case Basis (ICB).

(8) SuperGroups

A nonrecurring charge will apply at the time of the establishment of this feature, and a flat monthly rate will be billed for each group with this feature.

(9) Time-of-Day/Day-of-Week Redirection

A nonrecurring charge will apply at the time of the establishment of this feature, and a flat monthly rate will be billed for each option with this feature. (N)

Continued

ADVANCED COMPETITIVE SERVICES

E. CUSTOM REDIRECT SERVICE - Continued

5. Rates

(T)

		Nonrecurring Charge [1]	Monthly Rate
a.	Service Establishment Charge	$ 500.00	--
b.	Equipped Number - per Telephone Number		
	(1) Month-to-Month Option		
	1 - 50	2.35	$ 2.50
	51 - 100	2.35	2.35
	101 - 500	2.35	2.00
	501 - 1,000	2.35	1.50
	Over - 1,000	2.35	1.10
	(2) Term Option [2]		
	Five-Year Term, Minimum 500 Lines	2.35	1.10
c.	Average Monthly Group Volume Charge, Queries per month, per group		
	Up to 1,000	50.00	25.00
	Up to 10,000	50.00	80.00
	Up to 25,000	50.00	150.00
	Up to 50,000	50.00	280.00
	Up to 75,000	50.00	425.00
	Up to 100,000	50.00	550.00
	Up to 250,000	50.00	1,300.00
	Up to 500,000	50.00	2,500.00
	Up to 750,000	50.00	3,600.00
	Up to 1,000,000	50.00	4,500.00
	Over 1,000,000	50.00	[3]

(T)

[1] Appropriate Service Order Charges as set forth in Schedule Cal. P.U.C. No. A-41 will apply.
[2] See Special Conditions, 3.I(L) for termination liability charges.
[3] The monthly rate is determined by adding the rate for 1,000,000 plus the rate associated with the appropriate increment less than 1,000,000.

Continued

ADVANCED COMPETITIVE SERVICES

E. CUSTOM REDIRECT SERVICE - Continued (N)

5. Rates

	Nonrecurring Charge [1]	Maximum Monthly Rate	Current Monthly Rate
a. Service Establishment Charge	$ 500.00	--	--
b. Feature Per Equipped Telephone Number			
(1) Month-to-Month Option			
1 - 50	2.35	$ 5.00	$ 2.50
51 - 100	2.35	4.70	2.35
101 - 500	2.35	4.00	2.00
501 - 1,000	2.35	3.00	1.50
Over - 1,000	2.35	2.20	1.10
(2) Term Option [2]			
Five-Year Term, Minimum 500 Lines	2.35	2.20	1.10
c. Average Monthly Group Volume Charge, Queries per month, per group			
Up to 1,000	50.00	50.00	25.00
Up to 10,000	50.00	160.00	80.00
Up to 25,000	50.00	300.00	150.00
Up to 50,000	50.00	560.00	280.00
Up to 75,000	50.00	850.00	425.00
Up to 100,000	50.00	1,100.00	550.00
Up to 250,000	50.00	2,600.00	1,300.00
Up to 500,000	50.00	5,000.00	2,500.00
Up to 750,000	50.00	7,200.00	3,600.00
Up to 1,000,000	50.00	9,000.00	4,500.00
Over 1,000,000	50.00	[3]	[3]

(N)

[1] Appropriate Service Order Charges as set forth in Schedule Cal. P.U.C. No. A-41 will apply. (N)
[2] See Special Conditions, 3.I(L) for termination liability charges.
[3] The monthly rate is determined by adding the rate for 1,000,000 plus the rate associated with the appropriate increment less than 1,000,000. (N)

Continued

ADVANCED COMPETITIVE SERVICES

E. CUSTOM REDIRECT SERVICE - Continued

5. Rates - Continued

	Nonrecurring Charge [1]	Monthly Rate	
d. Rearrangement Charge,			(T)
per occasion	$ 250.00	--	
per number	2.35	--	
e. Password Initialization,			
per occasion	50.00	--	
f. Redirection Charges (no charge)			
g. Redirecting Telephone Number	5.00	$ 1.00	
h. Additional Option Charge, per Option (when four or more are chosen)	200.00	25.00	
i. Optional Feature Charges			
(1) Alternate Central Office Triggers			
per trigger, per switch	500.00	1.00	
			(D)
(2) Custom Applications, per option	200.00	25.00	
(3) Number Identification Redirection			
First 100 Numbers	500.00	50.00	
Additional 100 Numbers	100.00	10.00	
(4) Percentage Redirection	100.00	25.00	
(5) Single Number Destination Service,			
per group	50.00	10.00	
(6) Special Custom Redirect Service Transaction	100.00	--	
(7) SuperGroups,			
per group	50.00	1.00	
(8) Time-of-Day/Day-of-Week Redirection	100.00	25.00	(T)

[1] Appropriate Service Order Charges as set forth in Schedule Cal. P.U.C. No. A-41 will apply.

Continued

ADVANCED COMPETITIVE SERVICES

E. CUSTOM REDIRECT SERVICE - Continued

5. Rates - Continued

	Nonrecurring Charge [1]	Maximum Monthly Rate	Current Monthly Rate	
d. Rearrangement Charge,				
per occasion	$ 250.00	--	--	
per number	2.35	--	--	
e. Password Initialization,				
per occasion	50.00	--	--	
f. Redirection Charges (no charge)				
g. Redirecting Telephone Number	5.00	$ 2.00	$ 1.00	
h. Additional Option Charge	200.00	50.00	25.00	
i. Optional Feature Charges				
(1) Alternate Central Office Triggers				
per trigger, per switch	500.00	2.00	1.00	(T)
(2) Auto-Attendant Redirection	ICB	ICB	ICB	
(3) Custom Applications, per option	200.00	50.00	25.00	
(4) Number Identification Redirection				
First 100 Numbers	500.00	100.00	50.00	
Additional 100 Numbers	100.00	20.00	10.00	
(5) Percentage Redirection	100.00	50.00	25.00	
(6) Single Number Destination Service,				
per group	50.00	20.00	10.00	
(7) Special Custom Redirect Service Transaction	100.00	--	--	
(8) SuperGroups,				
per group	50.00	2.00	1.00	
(9) Time-of-Day/Day-of-Week Redirection	100.00	50.00	25.00	

[1] Appropriate Service Order Charges as set forth in Schedule Cal. P.U.C. No. A-41 will apply.

Continued

ADVANCED COMPETITIVE SERVICES

E. CUSTOM REDIRECT SERVICE - Continued (N)

5. Rates - Continued

	Nonrecurring Charge [1]	Maximum Monthly Rate	Current Monthly Rate
d. Rearrangement Charge,			
per occasion	$ 250.00	--	--
per number	2.35	--	--
e. Password Initialization,			
per occasion	50.00	--	--
f. Redirection Charges (no charge)			
g. Redirecting Telephone Number	5.00	$ 2.00	$ 1.00
h. Additional Option Charge	200.00	50.00	25.00
i. Optional Feature Charges			
(1) Alternate Central Office Triggers	500.00	2.00	1.00
(2) Auto-Attendant Redirection	ICB	ICB	ICB
(3) Custom Applications, per option	200.00	50.00	25.00
(4) Number Identification Redirection			
First 100 Numbers	500.00	100.00	50.00
Additional 100 Numbers	100.00	20.00	10.00
(5) Percentage Redirection	100.00	50.00	25.00
(6) Single Number Destination Service, per group	50.00	20.00	10.00
(7) Special Custom Redirect Service Transaction	100.00	--	--
(8) SuperGroups, per group	50.00	2.00	1.00
(9) Time-of-Day/Day-of-Week Redirection	100.00	50.00	25.00 (N)

[1] Appropriate Service Order Charges as set forth in Schedule Cal. P.U.C. No. A-41 will apply. (N)

Continued

ADVANCED COMPETITIVE SERVICES

F. ASYNCHRONOUS TRANSFER MODE (ATM) CELL RELAY SERVICE (CRS)

1. Application

This section contains definitions, regulations and charges applicable to the provision of Asynchronous Transfer Mode (ATM) Cell Relay Service (CRS), a fully competitive Category III service furnished by the Utility within the State of California. The Utility, on its sole discretion, shall offer ATM CRS in locations where technical capabilities exist and market conditions warrant.

ATM CRS is available in all existing Verizon exchanges as listed in Schedule Cal. P.U.C. No. AB, Sheets 1 and 2. The Utility concurs in all of the maps filed as part of Southwestern Bell Communications (SBC) Network and Exchange Services tariff, Schedule Cal. P.U.C. No. A5.1.A.

2. Definitions

Extended Service Plan (ESP) - The length of time for which a customer agrees to pay for ATM CRS service. One-, two-, three- or five-year ESPs are available to ATM CRS UNI Port With Access Line Connection, UNI Port Only, or UNI IMA Port With Access Line Connection customers. (N) (T)

Hub - A Utility designated serving wire center that is equipped to provide service.

Maximum Burst Size - The term "Maximum Burst Size" (MBS) denotes the consecutive number of ATM cells that can enter the ATM CRS network above the Sustained Cell Rate level and below the Peak Cell Rate level.

3. Regulations

a. Description of Service

Asynchronous Transfer Mode (ATM) Cell Relay Service (CRS) is a telecommunications transport and switching service that provides for high-speed connectivity between customer-designated locations. ATM CRS consists of a User Network Interface (UNI) available in various configurations including Port With Access Line Connection and Port Only Connection, with either incremental or full bandwidth.

The UNI Port With Access Line Connection is a dedicated digital line that provides a link from the customer's premises to one of the Utility's ATM CRS hubs. UNIs are also provisioned as an Inverse Multiplexing ATM (IMA) Port With Access Line Connection as defined in F.3.b.(2), and as a Port Only Connection as defined in F.3.b.(3).

ATM CRS is a fast-packet, cell-based technology that can support user applications requiring high-bandwidth, high-performance transport and switching. This connectivity is provided via Permanent Virtual Circuits (PVCs) and/or Switched Virtual Circuits (SVCs) that are implemented over access facilities and switches that are dedicated to high-speed telecommunications services.

Continued

ADVANCED COMPETITIVE SERVICES (N)

F. ASYNCHRONOUS TRANSFER MODE (ATM) CELL RELAY SERVICE (CRS)

1. Application

This section contains definitions, regulations and charges applicable to the provision of Asynchronous Transfer Mode (ATM) Cell Relay Service (CRS), a fully competitive Category III service furnished by the Utility within the State of California. The Utility, on its sole discretion, shall offer ATM CRS in locations where technical capabilities exist and market conditions warrant.

ATM CRS is available in all existing Verizon exchanges as listed in Schedule Cal. P.U.C. No. AB, Sheets 1 and 2. The Utility concurs in all of the maps filed as part of Southwestern Bell Communications (SBC) Network and Exchange Services tariff, Schedule Cal. P.U.C. No. A5.1.A.

2. Definitions

Extended Service Plan (ESP) - The length of time for which a customer agrees to pay for ATM CRS service. One-, three- or five-year ESPs are available to ATM CRS UNI Port With Access Line Connection and UNI Port Only customers. One-, two-, three- and five-year ESPs are available to UNI IMA Port With Access Line Connection customers.

Hub - A Utility designated serving wire center that is equipped to provide service.

Maximum Burst Size - The term "Maximum Burst Size" (MBS) denotes the consecutive number of ATM cells that can enter the ATM CRS network above the Sustained Cell Rate level and below the Peak Cell Rate level.

3. Regulations

a. Description of Service

Asynchronous Transfer Mode (ATM) Cell Relay Service (CRS) is a telecommunications transport and switching service that provides for high-speed connectivity between customer-designated locations. ATM CRS consists of a User Network Interface (UNI) available in various configurations including Port With Access Line Connection and Port Only Connection, with either incremental or full bandwidth.

The UNI Port With Access Line Connection is a dedicated digital line that provides a link from the customer's premises to one of the Utility's ATM CRS hubs. UNIs are also provisioned as an Inverse Multiplexing ATM (IMA) Port With Access Line Connection as defined in F.3.b.(2), and as a Port Only Connection as defined in F.3.b.(3).

ATM CRS is a fast-packet, cell-based technology that can support user applications requiring high-bandwidth, high-performance transport and switching. This connectivity is provided via Permanent Virtual Circuits (PVCs) and/or Switched Virtual Circuits (SVCs) that are implemented over access facilities and switches that are dedicated to high-speed telecommunications services. (N)

Continued

ADVANCED COMPETITIVE SERVICES (N)

F. ASYNCHRONOUS TRANSFER MODE (ATM) CELL RELAY SERVICE (CRS) - Continued

3. Regulations - Continued

b. Service Components

The major components of ATM CRS are:

UNI Port With Access Line Connection
UNI Inverse Multiplexing ATM (IMA) Port With Access Line Connection
UNI Port Only Connection
Permanent Virtual Circuit (PVC)
Switched Virtual Circuit (SVC)
Effective Bandwidth

(1) UNI Port With Access Line Connection

UNI Port With Access Line Connections, which are available at the DS1, DS3, OC3c, and OC12c levels, provide dedicated transport between a customer-designated premises and an ATM CRS hub. There are two types of UNIs: Full and Incremental. The Full UNI includes all available bandwidth in one rate, and the Incremental UNI is sold and provisioned with PVC and/or SVC bandwidth increments. The DS1 UNI is not offered in increments.

In order for customer traffic to be carried on the network, each Incremental UNI requires at least one 5 Mbps increment of either PVC or SVC bandwidth. The customer may elect to subscribe to multiple PVCs. This feature is established over the UNI via connection identifiers, which enables the customer to have virtual connections to various locations.

UNIs are provided at nominal data rates of 1.536 Mbps (DS1), 44.21 Mbps (DS3), 149.76 Mbps (OC3c), or 599.04 Mbps (OC12c). OC3c and OC12c are provided as a concatenated signal in STS-3c and STS-12c (Synchronous Transport Signal) formats, respectively. The actual throughput into CRS is less than the line rate for the UNI provided.

The rates and charges for a UNI are differentiated by the capacity of the UNI, the location where the UNI originates (i.e., customer-designated premises) and mileage ranges (expressed as tiers) associated with extending the UNI to the wire center designated as the ATM CRS hub. (N)

Continued

ADVANCED COMPETITIVE SERVICES (N)

F. ASYNCHRONOUS TRANSFER MODE (ATM) CELL RELAY SERVICE (CRS) - Continued

3. Regulations - Continued

b. Service Components - Continued

(1) UNI Port With Access Line Connection - Continued

The OC3c and OC12c UNI Port With Access Line Connections are provisioned on Protected or Protected Diverse Synchronous Optical Network (SONET) facilities. SONET is a standards-based fiber optic communication network that transports both asynchronous and synchronous digital signals using the Synchronous Transport Signal (STS) format. ATM OC3c and OC12c Protected SONET UNI Port With Access Line Connections are provisioned over SONET as a survivable service with an alternate (not diverse) facility between the central office and the customer premises. ATM OC3c and OC12c Protected Diverse SONET UNI Port With Access Line Connections are provisioned over SONET as a survivable service with an alternate and diverse path between the ATM CRS hub and the customer premises. DS3, OC3c, OC12c and other interfaces, both electrical and optical, are supported and defined to the technical specifications set forth in F.3.c.

(2) UNI Inverse Multiplexing ATM (IMA) Port With Access Line Connection

UNI IMA Port With Access Line Connection permits the provisioning of bandwidth greater than DS1 and less than DS3 by binding together multiple DS1 facilities. The inverse multiplexer at each end of the connection aggregates and de-aggregates multiple parallel DS1 leased lines into a single higher speed link. IMA will be offered as Full bandwidth only. Two to six DS1 facilities will be permitted in an IMA group providing nominal aggregated bandwidth from three to nine megabits per second. IMA allows for all class of service parameters up to the combined nominal line rate of the aggregated DS1s and all PVCs and/or SVCs that will fit within the bandwidth. Ordering of DS1s within an IMA group must be done in ascending order. Disconnecting DS1s within an IMA group must be done in a descending order. Customer must purchase a minimum of two IMA DS1s.

Requests to change existing UNI Port With Access Line Connections to UNI IMA Port With Access Line Connections will be treated as a disconnect and new install. Termination liability charges, as set forth in Schedule Cal. P.U.C. No. D&R, Rule No. 47, will apply. (N)

Continued

ADVANCED COMPETITIVE SERVICES (N)

F. ASYNCHRONOUS TRANSFER MODE (ATM) CELL RELAY SERVICE (CRS) - Continued

3. Regulations - Continued

b. Service Components - Continued

(3) UNI Port Only Connection

UNI Port Only Connections can be established as a User Network Interface (UNI) arrangement. The UNI Port Only Connection provides an ATM Cell Relay Network connection based on the port connection speeds of DS1, DS3, OC3c and OC12c. The ATM port speed will be consistent with the channel speed of the access channel. The actual throughput of customer traffic cannot exceed the bandwidth of the access channel and port speed.

UNI Port Only Connections are available as either Incremental or Full. This refers to the bandwidth that is required to provision PVCs on the port. Incremental ports come with no bandwidth and bandwidth is purchased in increments based on customer bandwidth requirements. Full ports come with all bandwidth included up to the maximum rate of the port. Each port can accommodate multiple PVCs or SVCs depending on the bandwidth purchased. UNI Port Only is available on a one-year, three-year and five-year term.

Customers may access Port Only Connections via Utility-provided digital access facilities or via facilities provided by another carrier. When access facilities are provided by the Utility, the associated regulations, rates and charges under the appropriate Utility tariff shall apply in addition to the regulations, rates and charges associated with ATM CRS. Utility-provided access facilities may also be provisioned on an Individual Case Basis (ICB) where access facilities are not generally available under the applicable tariff. Interconnection charges to connect access line services provided by the Company or another carrier may apply and will be billed separately. Any special construction or nonstandard charges assessed by the carrier supplying the access facilities will be the responsibility of the customer.

(4) Permanent Virtual Circuit (PVC)

The PVC defines a virtual connection across a UNI between the customer premises and the Utility's ATM CRS hub. Each UNI requires at least one PVC in order for customer traffic to traverse the network. Each ATM cell carries a unique tag which identifies that ATM CRS cell as belonging to a particular PVC. A PVC is a logical channel connecting two or more customer-designated premises with virtual connections through a Utility-provided ATM CRS switch(es). The PVCs may be provided on a point-to-point or point-to-multipoint basis. When a PVC is provided as a point-to-point virtual connection, transmission is bi-directional allowing for ATM CRS cells to be transmitted or received over the same PVC. For point-to-multipoint virtual connections, transmission is provided as transmit only. The virtual connection is set up by the Utility based on information contained on a service order rather than by dial-up signaling. (N)

Continued

ADVANCED COMPETITIVE SERVICES (N)

F. ASYNCHRONOUS TRANSFER MODE (ATM) CELL RELAY SERVICE (CRS) - Continued

3. Regulations - Continued

b. Service Components - Continued

(4) Permanent Virtual Circuit (PVC) - Continued

PVCs consist of two types: Virtual Channel Connections (VCCs) and Virtual Path Connections (VPCs). A VCC is a type of PVC with independent identity and defined service parameters that are provisioned via service order, and cannot be altered by the customer without additional service order activity. A VPC is a type of PVC with defined service parameters that is provisioned via service order. Customers may provision their own virtual channels within the VPC, provided that the sum of the service parameters of all of the virtual channels does not exceed the aggregate service parameters of the VPC.

(5) Switched Virtual Circuit (SVC)

SVCs are similar in structure to PVCs, but SVCs are provisioned on demand by customer premises equipment that signals the ATM cell relay network to set up and tear down logical connections. The network will respond to these requests by provisioning a virtual connection across the network based on the class of service parameters requested, provided that sufficient network resources are available to establish the connection. Each UNI that is SVC signal enabled will be provided with a SVC International Code Designator (ICD) prefix that will uniquely identify the UNI. Customers must use this Utility-assigned prefix when requesting SVC virtual connections across the Utility Cell Relay Network. Each Constant Bit Rate (CBR) and Variable Bit Rate (VBR) SVC will be limited to a maximum Peak Cell Rate of 20 Mbps and a maximum Sustained Cell Rate of 20 Mbps.

Closed User Group (CUG) capability is a feature associated with SVCs. A CUG provides the ability to contain SVC calls between certain UNIs. A CUG functionally groups UNIs into logical associations and allows calling privileges to be specified network wide. A CUG provides a network-wide mechanism for access control. CUGs provide a logical grouping of UNIs, creating a SVC community of interest.

(6) Effective Bandwidth

Effective bandwidth is the bandwidth reserved for each logical connection (PVC or SVC) that is set up across a UNI. It is based on the Peak Cell Rate (PCR), Sustained Cell Rate (SCR), Maximum Burst Size, and the class of service parameters selected, i.e., CBR, VBRrt (Variable Bit Rate real time), VBRnrt (Variable Bit Rate non-real time), or UBR (Unspecified Bit Rate). The total effective bandwidth of all the logical connections on a UNI cannot exceed the total bandwidth available on the UNI. Effective bandwidth prices do not vary by class of service level selected. However, effective bandwidth is consumed in varying degrees based on the class of service parameters selected. The higher the class of service, the more bandwidth will be reserved. A CBR PVC with the same PCR as a VBR PVC will reserve more effective bandwidth. (N)

Continued

ADVANCED COMPETITIVE SERVICES (N)

F. ASYNCHRONOUS TRANSFER MODE (ATM) CELL RELAY SERVICE (CRS) - Continued

3. Regulations - Continued

c. Technical Specifications

The technical specifications for ATM CRS are delineated in Technical References TR-NWT-001112, GR-1110-CORE, GR-1248-CORE, and SR-3330.

The technical specifications for DS1 and DS3 signals are delineated in TR-INS-000342.

The technical specifications for OC3c and OC12c signals are delineated in GR-253-CORE, Issue 2.

The technical specifications for UNIs are delineated in ATM Forum ATM User Network Interface Specifications V3.0, af-uni-0010.001, and V3.1, af-uni-0010.002. Interface specifications for customer-provided ATM CRS compatible premises equipment or devices must also be in accordance with the specifications defined in these documents.

d. Provision of Service

ATM CRS includes:

(1) A minimum of one UNI Port With Access Line, or UNI Port Only, or two UNI IMA Port With Access Lines, which has a maximum nominal capacity for either DS1 (1.536Mbps), DS3 (44.21 Mbps), OC3c (149.76Mbps), or OC12c (599.04 Mbps). The OC3c and OC12c UNIs are provisioned over Protected or Protected Diverse SONET. The Protected and Protected Diverse SONET facilities provide a backup facility that automatically switches in the event of a failure on the primary facility.

(2) Unlimited usage on purchased bandwidth.

(3) Incremental UNIs must have at least one increment of effective bandwidth (either PVC or SVC) in order for traffic to traverse the network. The DS1, DS3, OC3c, and OC12c Full UNIs are equipped with the full effective bandwidth.

(4) Either one or more PVCs. When PVC bandwidth is purchased, one or more PVCs must be selected for customer traffic to traverse the network. (N)

Continued

ADVANCED COMPETITIVE SERVICES (N)

F. ASYNCHRONOUS TRANSFER MODE (ATM) CELL RELAY SERVICE (CRS) - Continued

3. Regulations - Continued

d. Provision of Service - Continued

ATM CRS includes: - Continued

(5) Two types of PVCs, (i) Virtual Channel Connections (VCCs) and (ii) Virtual Path Connections (VPCs), which support the following Classes of Service:

(a) Constant Bit Rate (CBR)
(b) Variable Bit Rate real time (VBRrt)
(c) Variable Bit Rate non-real time (VBRnrt)
(d) Unspecified Bit Rate (UBR)

e. Tier Structure for Local Serving Offices

Locations (wire centers) that provide ATM CRS have been designated as ATM hubs. Each local serving office has been placed in a Tier 1, 2 or 3, based on its location relative to the closest ATM hub.

f. Service Functionality

The ATM CRS functionality consists of transporting 53-byte cells of information from the customer location to a Utility ATM hub over a UNI. The traffic is routed in the switch to another UNI, or other suitable network connection.

g. Class of Service Parameters

(1) Constant Bit Rate (CBR)

(a) Peak/Sustained Cell Rate:

Customer-specified in increments of 64 Kbps up to the maximum speed of the UNI.

(b) Non-conforming cells:

Discarded

(c) Cell Delay Variation Tolerance (CDVT):

DS1 = 600 microseconds
DS3 = 600 microseconds
OC3c = 600 microseconds
OC12c = 600 microseconds (N)

Continued

ADVANCED COMPETITIVE SERVICES (N)

F. ASYNCHRONOUS TRANSFER MODE (ATM) CELL RELAY SERVICE (CRS) - Continued

3. Regulations - Continued

g. Class of Service Parameters - Continued

(2) Variable Bit Rate (VBR) Real Time/Non-Real Time

(a) Sustained Cell Rate (SCR):

Customer specified in increments of 64 Kbps up to the maximum speed of the UNI.

(b) Peak Cell Rate (PCR):

Customer selectable in increments of 64 Kbps up to line rate. Default is 200% of SCR for PVCs. (The ratio of PCR to SCR will be signaled by Customer Premises Equipment [CPE] for SVCs. Therefore there is no default value.)

(c) Non-conforming cells:

Discarded

(d) Cell Delay Variation Tolerance (CDVT):

DS1 = 600 microseconds
DS3 = 600 microseconds
OC3c = 600 microseconds
OC12c = 600 microseconds

h. Special Conditions

(1) ATM CRS is available where facilities and conditions permit. For locations where the customer requests ATM CRS and digital, or SONET facilities are not available, special construction charges may apply.

(2) Maintenance Window

To meet the customers' requirements, occasional network upgrades must be performed. These network upgrades are needed to provide improved performance and new features. Generally, these upgrades will be performed between the hours of 11 PM and 8 AM. Network upgrades are planned to provide customers reasonable and timely notification in order to minimize any impact on the customers' service. (N)

Continued

ADVANCED COMPETITIVE SERVICES (N)

F. ASYNCHRONOUS TRANSFER MODE (ATM) CELL RELAY SERVICE (CRS) - Continued

3. Regulations - Continued

i. Responsibility of the Customer

The customer must provide the necessary compatible premises equipment or ATM CRS device capable of interfacing with the Utility's ATM CRS.

j. Responsibility of the Utility

The Utility is responsible for service up to and including the network interface. The Utility's responsibility is limited to the furnishing of communications facilities and switches suitable for ATM CRS.

ATM CRS is supported by the Utility's Single Point of Contact (SPOC) center, which provides continuous support for ATM CRS 24 hours per day, seven days per week (24x7) with the ability to manage all of the customer's ATM CRS as a single network. The SPOC performs maintenance, trouble resolution and network management functions on a 24x7 basis. Service order processing and network installation functions are performed only during normal business hours.

k. Application of Rates and Charges

(1) Rate Elements

The following rate elements are applicable to ATM CRS:

- UNI Port With Access Line Connection
- UNI Inverse Multiplexing ATM (IMA) Port With Access Line Connection
- UNI Port Only Connection
- Permanent Virtual Circuits (PVCs)
- Effective Bandwidth for Incremental UNIs
- Closed User Groups (CUG)
- Administrative Charge (N)

Continued

ADVANCED COMPETITIVE SERVICES

F. ASYNCHRONOUS TRANSFER MODE (ATM) CELL RELAY SERVICE (CRS) - Continued

3. Regulations - Continued

k. Application of Rates and Charges - Continued

(1) Rate Elements - Continued

(a) UNI Port With Access Line Connection

A monthly rate applies on a per Port With Access Line basis, based on the speed (i.e., DS1, DS3, OC3c or OC12c) and/or type (i.e., Full or Incremental, SONET - Protected or Protected Diverse) of the access connection. UNI Port and Access is offered as a one year, two year, three year or five year Extended Service Plan (ESP) only. Nonrecurring charges from this or any other tariff of the Utility do not apply. (N)

(b) UNI Inverse Multiplexing ATM (IMA) Port With Access Line Connection

A monthly rate applies on a per DS1 basis for each sequential DS1 ordered up to the desired bandwidth (i.e., 3 Mbps, 4.5 Mbps, 6 Mbps, 7.5 Mbps, or 9 Mbps). IMA is offered as a one year, two year, three year or five year Extended Service Plan (ESP). DS1s within an IMA group added subsequent to the initial installation of the first two DS1s will have their own term period. Nonrecurring charges from this or any other tariff of the Utility do not apply.

(c) UNI Port Only Connection

A monthly rate applies on a per Port Only basis, based on the speed (i.e., DS1, DS3, OC3c or OC12c) and/or type (i.e., Full or Incremental) of the port only connection. UNI Port Only is offered as a one year, two year, three year or five year Extended Service Plan (ESP) only. Nonrecurring charges from this or any other tariff of the Utility do not apply. (N)

(d) Permanent Virtual Circuits (PVCs)

A nonrecurring charge applies per order for Virtual Channel Connection (VCC) or Virtual Path Connection (VPC). PVCs are ordered per UNI. If multiple UNIs are involved, a nonrecurring charge will apply to each UNI Port on which the virtual connections will reside. The nonrecurring charge does not apply when PVCs are installed at the same time as the respective UNIs.

Continued

ADVANCED COMPETITIVE SERVICES (N)

F. ASYNCHRONOUS TRANSFER MODE (ATM) CELL RELAY SERVICE (CRS) - Continued

3. Regulations - Continued

k. Application of Rates and Charges - Continued

(1) Rate Elements - Continued

(a) UNI Port With Access Line Connection

A monthly rate applies on a per Port With Access Line basis, based on the speed (i.e., DS1, DS3, OC3c or OC12c) and/or type (i.e., Full or Incremental, SONET - Protected or Protected Diverse) of the access connection. UNI Port and Access is offered as a one year, three year or five year Extended Service Plan (ESP) only. Nonrecurring charges from this or any other tariff of the Utility do not apply.

(b) UNI Inverse Multiplexing ATM (IMA) Port With Access Line Connection

A monthly rate applies on a per DS1 basis for each sequential DS1 ordered up to the desired bandwidth (i.e., 3 Mbps, 4.5 Mbps, 6 Mbps, 7.5 Mbps, or 9 Mbps). IMA is offered as a one-year, two-year, three-year or five-year Extended Service Plan (ESP). DS1s within an IMA group added subsequent to the initial installation of the first two DS1s will have their own term period. Nonrecurring charges from this or any other tariff of the Utility do not apply.

(c) UNI Port Only Connection

A monthly rate applies on a per Port Only basis, based on the speed (i.e., DS1, DS3, OC3c or OC12c) and/or type (i.e., Full or Incremental) of the port only connection. UNI Port Only is offered as a one year, three year or five year Extended Service Plan (ESP) only. Nonrecurring charges from this or any other tariff of the Utility do not apply.

(d) Permanent Virtual Circuits (PVCs)

A nonrecurring charge applies per order for Virtual Channel Connection (VCC) or Virtual Path Connection (VPC). PVCs are ordered per UNI. If multiple UNIs are involved, a nonrecurring charge will apply to each UNI Port on which the virtual connections will reside. The nonrecurring charge does not apply when PVCs are installed at the same time as the respective UNIs. (N)

Continued

ADVANCED COMPETITIVE SERVICES (N)

F. ASYNCHRONOUS TRANSFER MODE (ATM) CELL RELAY SERVICE (CRS) - Continued

3. Regulations - Continued

k. Application of Rates and Charges - Continued

(1) Rate Elements - Continued

(e) Effective Bandwidth for Incremental UNIs

A monthly rate applies for incremental UNIs for CBR or VBR PVC and SVC bandwidth at 5 Mbps for DS3 or OC3c and at 15 Mbps for OC12c. A monthly rate also applies for incremental UNIs for UBR PVC and SVC bandwidth for DS3, OC3c and OC12c. Nonrecurring charges from this or any other tariff of the Utility do not apply.

The monthly rate for PVC and/or SVC UBR bandwidth will be waived when the combined VBR and CBR effective bandwidth purchased (either SVC or PVC or any combination) is equal to at least 50% of the effective bandwidth capacity of the UNI. When UBR bandwidth is made available, it is available for both PVCs and SVCs. Nonrecurring charges from this or any other tariff of the Utility do not apply.

(f) Closed User Groups (CUG)

A nonrecurring charge applies per order and per UNI for each CUG established and for each subsequent CUG member added to a CUG. The nonrecurring charge does not apply when a CUG is installed at the same time as the respective UNI.

(g) Administrative Charge

A nonrecurring charge applies (per order, per UNI) when the customer initiates a change to one or more of the following: UNI bandwidth, PVCs, class of service parameters, and/or other service parameters that do not require changes in physical facilities and that can be provisioned by the Utility without the dispatch of a technician to the customer location. For each service order issued, the charge will be one Administrative Charge regardless of the number of changes made. The Administrative Charge does not apply for those items ordered on the same service order with the installation of a UNI. (N)

Continued

ADVANCED COMPETITIVE SERVICES

F. ASYNCHRONOUS TRANSFER MODE (ATM) CELL RELAY SERVICE (CRS) - Continued

3. Regulations - Continued

k. Application of Rates and Charges - Continued

(2) Minimum Charge

The minimum charge for ATM CRS will not be less than one Monthly Recurring Charge (MRC) for the applicable service and term selected, plus Termination Liability as described in F.3.k.(3)(a) below.

(3) Extended Service Plan

The ATM CRS UNI Port With Access Line Connection, UNI IMA Port With Access Line Connection and UNI Port Only Connection rate elements are available under an ESP.

Term commitments of one-, two-, three- and five-years are available to ATM CRS UNI Port With Access Line Connection, UNI Port Only, or UNI IMA Port With Access Line Connection customers at the applicable rates set forth in F.4, regardless of when they subscribe to an ESP arrangement. (N) (T)

(a) Termination Liability

If ATM CRS is terminated by the customer prior to the anniversary date of the initial term commitment period, termination liability charges, as set forth in Schedule Cal. P.U.C. No. D&R, Rule No. 47, will apply.

(4) Moves

When the customer requests a move or relocation of the UNI, the move or relocation will be treated as a termination of the existing service and the establishment of a new service.

(5) Special Facilities Routing

The customer may request that the facilities used to provide ATM CRS be specially routed. Additional charges will apply based on cost.

(6) Acceptance Testing

At the customer's request, the Utility will cooperatively test at the time of installation at no additional charge. Acceptance tests will include tests for the parameters applicable to the service as specified in the order for service.

Continued

ADVANCED COMPETITIVE SERVICES (N)

F. ASYNCHRONOUS TRANSFER MODE (ATM) CELL RELAY SERVICE (CRS) - Continued

3. Regulations - Continued

k. Application of Rates and Charges - Continued

(2) Minimum Charge

The minimum charge for ATM CRS will not be less than one Monthly Recurring Charge (MRC) for the applicable service and term selected, plus Termination Liability as described in F.3.k.(3)(a) below.

(3) Extended Service Plan

The ATM CRS UNI Port With Access Line Connection, UNI IMA Port With Access Line Connection and UNI Port Only Connection rate elements are available under an ESP.

Term commitments of one-, three- and five-years are available to ATM CRS UNI Port With Access Line Connection and UNI Port Only customers, and term commitments of one-, two-, three- and five-years are available to UNI IMA Port With Access Line Connection customers at the applicable rates set forth in F.4, regardless of when they subscribe to an ESP arrangement.

(a) Termination Liability

If ATM CRS is terminated by the customer prior to the anniversary date of the initial term commitment period, termination liability charges, as set forth in Schedule Cal. P.U.C. No. D&R, Rule No. 47, will apply.

(4) Moves

When the customer requests a move or relocation of the UNI, the move or relocation will be treated as a termination of the existing service and the establishment of a new service.

(5) Special Facilities Routing

The customer may request that the facilities used to provide ATM CRS be specially routed. Additional charges will apply based on cost.

(6) Acceptance Testing

At the customer's request, the Utility will cooperatively test at the time of installation at no additional charge. Acceptance tests will include tests for the parameters applicable to the service as specified in the order for service. (N)

Continued

ADVANCED COMPETITIVE SERVICES

F. ASYNCHRONOUS TRANSFER MODE (ATM) CELL RELAY SERVICE (CRS) - Continued

4. Rates and Charges

a. UNI Port with Access Line Connection

	Monthly Rate	
(1) **DS1, each**		(T)
Full		
Tier 1 (0 to 5 Miles)		
One Year	$ 732.00	(I)
Two Year	695.00	
Three Year	622.00	
Five Year	585.00	
Tier 2 (Over 5 to 25 Miles)		
One Year	732.00	
Two Year	695.00	
Three Year	622.00	
Five Year	585.00	
Tier 3 (Over 25 to 50 Miles)		
One Year	732.00	
Two Year	695.00	
Three Year	622.00	
Five Year	585.00	(I) (T)

Continued

ADVANCED COMPETITIVE SERVICES

F. ASYNCHRONOUS TRANSFER MODE (ATM) CELL RELAY SERVICE (CRS) - Continued

4. Rates and Charges

a. UNI Port with Access Line Connection

	Monthly Rate		
	Maximum	Current	
(1) **DS1, each**			
Full			
Tier 1 (0 to 5 Miles)			
One Year	$ 1,330.00	$ 665.00	
Two Year	1,264.00	632.00	(N)
Three Year	1,130.00	565.00	
Five Year	1,064.00	532.00	
Tier 2 (Over 5 to 25 Miles)			
One Year	1,330.00	665.00	
Two Year	1,264.00	632.00	(N)
Three Year	1,130.00	565.00	
Five Year	1,064.00	532.00	
Tier 3 (Over 25 to 50 Miles)			
One Year	1,330.00	665.00	
Two Year	1,264.00	632.00	(N)
Three Year	1,130.00	565.00	
Five Year	1,064.00	532.00	

Continued

ADVANCED COMPETITIVE SERVICES (N)

F. ASYNCHRONOUS TRANSFER MODE (ATM) CELL RELAY SERVICE (CRS) - Continued

4. Rates and Charges

a. UNI Port with Access Line Connection

	Monthly Rate	
	Maximum	Current
(1) **DS1, each**		
Full		
Tier 1 (0 to 5 Miles)		
One Year	$ 1,330.00	$ 665.00
Three Year	1,130.00	565.00
Five Year	1,064.00	532.00
Tier 2 (Over 5 to 25 Miles)		
One Year	1,330.00	665.00
Three Year	1,130.00	565.00
Five Year	1,064.00	532.00
Tier 3 (Over 25 to 50 Miles)		
One Year	1,330.00	665.00
Three Year	1,130.00	565.00
Five Year	1,064.00	532.00 (N)

Continued

ADVANCED COMPETITIVE SERVICES

F. ASYNCHRONOUS TRANSFER MODE (ATM) CELL RELAY SERVICE (CRS) - Continued

4. Rates and Charges - Continued

a. UNI Port with Access Line Connection - Continued

	Monthly Rate	
(2) **DS3, each**		(T)
Full		
Tier 1 (0 to 5 Miles)		
One Year	$ 3,691.00	(I)
Two Year	3,506.00	
Three Year	3,137.00	
Five Year	2,952.00	
Tier 2 (Over 5 to 25 Miles)		
One Year	4,342.00	
Two Year	4,125.00	
Three Year	3,691.00	
Five Year	3,474.00	
Tier 3 (Over 25 to 50 Miles)		
One Year	5,210.00	
Two Year	4,949.00	
Three Year	4,429.00	
Five Year	4,168.00	(I)
Incremental		
Tier 1 (0 to 5 Miles)		
One Year	$ 3,097.00	(I)
Two Year	2,941.00	
Three Year	2,632.00	
Five Year	2,477.00	
Tier 2 (Over 5 to 25 Miles)		
One Year	3,643.00	
Two Year	3,461.00	
Three Year	3,097.00	
Five Year	2,914.00	
Tier 3 (Over 25 to 50 Miles)		
One Year	4,371.00	
Two Year	4,153.00	
Three Year	3,716.00	
Five Year	3,497.00	(I) (T)

Continued

ADVANCED COMPETITIVE SERVICES

F. ASYNCHRONOUS TRANSFER MODE (ATM) CELL RELAY SERVICE (CRS) - Continued

4. Rates and Charges - Continued

a. UNI Port with Access Line Connection - Continued

	Monthly Rate		
	Maximum	Current	
(2) **DS3, each**			
Full			
Tier 1 (0 to 5 Miles)			
One Year	$ 6,710.00	$ 3,355.00	
Two Year	6,374.00	3,187.00	(N)
Three Year	5,704.00	2,852.00	
Five Year	5,368.00	2,684.00	
Tier 2 (Over 5 to 25 Miles)			
One Year	7,894.00	3,947.00	
Two Year	7,500.00	3,750.00	(N)
Three Year	6,710.00	3,355.00	
Five Year	6,316.00	3,158.00	
Tier 3 (Over 25 to 50 Miles)			
One Year	9,472.00	4,736.00	
Two Year	8,998.00	4,499.00	(N)
Three Year	8,052.00	4,026.00	
Five Year	7,578.00	3,789.00	
Incremental			
Tier 1 (0 to 5 Miles)			
One Year	5,630.00	2,815.00	
Two Year	5,348.00	2,674.00	(N)
Three Year	4,786.00	2,393.00	
Five Year	4,504.00	2,252.00	
Tier 2 (Over 5 to 25 Miles)			
One Year	6,624.00	3,312.00	
Two Year	6,292.00	3,146.00	(N)
Three Year	5,630.00	2,815.00	
Five Year	5,298.00	2,649.00	
Tier 3 (Over 25 to 50 Miles)			
One Year	7,948.00	3,974.00	
Two Year	7,550.00	3,775.00	(N)
Three Year	6,756.00	3,378.00	
Five Year	6,358.00	3,179.00	

Continued

ADVANCED COMPETITIVE SERVICES (N)

F. ASYNCHRONOUS TRANSFER MODE (ATM) CELL RELAY SERVICE (CRS) - Continued

4. Rates and Charges - Continued

a. UNI Port with Access Line Connection - Continued

	Monthly Rate	
	Maximum	Current
(2) **DS3, each**		
Full		
Tier 1 (0 to 5 Miles)		
One Year	$ 6,710.00	$ 3,355.00
Three Year	5,704.00	2,852.00
Five Year	5,368.00	2,684.00
Tier 2 (Over 5 to 25 Miles)		
One Year	7,894.00	3,947.00
Three Year	6,710.00	3,355.00
Five Year	6,316.00	3,158.00
Tier 3 (Over 25 to 50 Miles)		
One Year	9,472.00	4,736.00
Three Year	8,052.00	4,026.00
Five Year	7,578.00	3,789.00
Incremental		
Tier 1 (0 to 5 Miles)		
One Year	5,630.00	2,815.00
Three Year	4,786.00	2,393.00
Five Year	4,504.00	2,252.00
Tier 2 (Over 5 to 25 Miles)		
One Year	6,624.00	3,312.00
Three Year	5,630.00	2,815.00
Five Year	5,298.00	2,649.00
Tier 3 (Over 25 to 50 Miles)		
One Year	7,948.00	3,974.00
Three Year	6,756.00	3,378.00
Five Year	6,358.00	3,179.00 (N)

Continued

ADVANCED COMPETITIVE SERVICES

F. ASYNCHRONOUS TRANSFER MODE (ATM) CELL RELAY SERVICE (CRS) - Continued

4. Rates and Charges - Continued

a. UNI Port with Access Line Connection - Continued

(3) **OC3c, each** - Continued

	Monthly Rate	
SONET		
Full, Protected		
Tier 1 (0 to 5 Miles)		
One Year	$ 6,963.00	(I)
Two Year	6,615.00	
Three Year	5,919.00	
Five Year	5,570.00	
Tier 2 (Over 5 to 25 Miles)		
One Year	8,192.00	
Two Year	7,783.00	
Three Year	6,963.00	
Five Year	6,554.00	
Tier 3 (Over 25 to 50 Miles)		
One Year	9,830.00	
Two Year	9,338.00	
Three Year	8,356.00	
Five Year	7,864.00	(I)
Full, Protected Diverse		
Tier 1 (0 to 5 Miles)		
One Year	$ 8,503.00	(I)
Two Year	8,078.00	
Three Year	7,228.00	
Five Year	6,802.00	
Tier 2 (Over 5 to 25 Miles)		
One Year	10,003.00	
Two Year	9,503.00	
Three Year	8,503.00	
Five Year	8,003.00	
Tier 3 (Over 25 to 50 Miles)		
One Year	12,004.00	
Two Year	11,404.00	
Three Year	10,204.00	
Five Year	9,603.00	(I)

(T) (T)

Continued

ADVANCED COMPETITIVE SERVICES

F. ASYNCHRONOUS TRANSFER MODE (ATM) CELL RELAY SERVICE (CRS) - Continued

4. Rates and Charges - Continued

a. UNI Port with Access Line Connection - Continued

	Monthly Rate		
	Maximum	Current	
(3) **OC3c, each** - Continued			
SONET			
Full, Protected			
Tier 1 (0 to 5 Miles)			
One Year	$ 12,660.00	$ 6,330.00	
Two Year	12,028.00	6,014.00	(N)
Three Year	10,762.00	5,381.00	
Five Year	10,128.00	5,064.00	
Tier 2 (Over 5 to 25 Miles)			
One Year	14,894.00	7,447.00	
Two Year	14,150.00	7,075.00	(N)
Three Year	12,660.00	6,330.00	
Five Year	11,916.00	5,958.00	
Tier 3 (Over 25 to 50 Miles)			
One Year	17,872.00	8,936.00	
Two Year	16,978.00	8,489.00	(N)
Three Year	15,192.00	7,596.00	
Five Year	14,298.00	7,149.00	
Full, Protected Diverse			
Tier 1 (0 to 5 Miles)			
One Year	15,460.00	7,730.00	
Two Year	14,688.00	7,344.00	(N)
Three Year	13,142.00	6,571.00	
Five Year	12,368.00	6,184.00	
Tier 2 (Over 5 to 25 Miles)			
One Year	18,188.00	9,094.00	
Two Year	17,278.00	8,639.00	(N)
Three Year	15,460.00	7,730.00	
Five Year	14,550.00	7,275.00	
Tier 3 (Over 25 to 50 Miles)			
One Year	21,826.00	10,913.00	
Two Year	20,734.00	10,367.00	(N)
Three Year	18,552.00	9,276.00	
Five Year	17,460.00	8,730.00	

Continued

ADVANCED COMPETITIVE SERVICES (N)

F. ASYNCHRONOUS TRANSFER MODE (ATM) CELL RELAY SERVICE (CRS) - Continued

4. Rates and Charges - Continued

a. UNI Port with Access Line Connection - Continued

	Monthly Rate	
	Maximum	Current
(3) **OC3c, each** - Continued		
SONET		
Full, Protected		
Tier 1 (0 to 5 Miles)		
One Year	$ 12,660.00	$ 6,330.00
Three Year	10,762.00	5,381.00
Five Year	10,128.00	5,064.00
Tier 2 (Over 5 to 25 Miles)		
One Year	14,894.00	7,447.00
Three Year	12,660.00	6,330.00
Five Year	11,916.00	5,958.00
Tier 3 (Over 25 to 50 Miles)		
One Year	17,872.00	8,936.00
Three Year	15,192.00	7,596.00
Five Year	14,298.00	7,149.00
Full, Protected Diverse		
Tier 1 (0 to 5 Miles)		
One Year	15,460.00	7,730.00
Three Year	13,142.00	6,571.00
Five Year	12,368.00	6,184.00
Tier 2 (Over 5 to 25 Miles)		
One Year	18,188.00	9,094.00
Three Year	15,460.00	7,730.00
Five Year	14,550.00	7,275.00
Tier 3 (Over 25 to 50 Miles)		
One Year	21,826.00	10,913.00
Three Year	18,552.00	9,276.00
Five Year	17,460.00	8,730.00 (N)

Continued

ADVANCED COMPETITIVE SERVICES

F. ASYNCHRONOUS TRANSFER MODE (ATM) CELL RELAY SERVICE (CRS) – Continued

4. Rates and Charges - Continued

a. UNI Port with Access Line Connection – Continued

	Monthly Rate	
(3) **OC3c, each** – Continued		(T)
SONET - Continued		
Incremental, Protected		
Tier 1 (0 to 5 Miles)		
One Year	$ 4,851.00	(I)
Two Year	4,609.00	
Three Year	4,124.00	
Five Year	3,881.00	
Tier 2 (Over 5 to 25 Miles)		
One Year	5,707.00	
Two Year	5,422.00	
Three Year	4,851.00	
Five Year	4,566.00	
Tier 3 (Over 25 to 50 Miles)		
One Year	6,849.00	
Two Year	6,507.00	
Three Year	5,821.00	
Five Year	5,479.00	(I)
Incremental, Protected Diverse		
Tier 1 (0 to 5 Miles)		
One Year	$ 6,391.00	(I)
Two Year	6,072.00	
Three Year	5,433.00	
Five Year	5,113.00	
Tier 2 (Over 5 to 25 Miles)		
One Year	7,519.00	
Two Year	7,142.00	
Three Year	6,391.00	
Five Year	6,015.00	
Tier 3 (Over 25 to 50 Miles)		
One Year	9,022.00	
Two Year	8,571.00	
Three Year	7,669.00	
Five Year	7,218.00	(I) (T)

Continued

ADVANCED COMPETITIVE SERVICES

F. ASYNCHRONOUS TRANSFER MODE (ATM) CELL RELAY SERVICE (CRS) – Continued

4. Rates and Charges - Continued

a. UNI Port with Access Line Connection – Continued

	Monthly Rate		
	Maximum	Current	
(4) **OC3c, each** – Continued			
SONET - Continued			
Incremental, Protected			
Tier 1 (0 to 5 Miles)			
One Year	$ 8,820.00	$ 4,410.00	
Two Year	8,380.00	4,190.00	(N)
Three Year	7,498.00	3,749.00	
Five Year	7,056.00	3,528.00	
Tier 2 (Over 5 to 25 Miles)			
One Year	10,376.00	5,188.00	
Two Year	9,858.00	4,929.00	(N)
Three Year	8,820.00	4,410.00	
Five Year	8,302.00	4,151.00	
Tier 3 (Over 25 to 50 Miles)			
One Year	12,452.00	6,226.00	
Two Year	11,830.00	5,915.00	(N)
Three Year	10,584.00	5,292.00	
Five Year	9,962.00	4,981.00	
Incremental, Protected Diverse			
Tier 1 (0 to 5 Miles)			
One Year	11,620.00	5,810.00	
Two Year	11,040.00	5,520.00	(N)
Three Year	9,878.00	4,939.00	
Five Year	9,296.00	4,648.00	
Tier 2 (Over 5 to 25 Miles)			
One Year	13,670.00	6,835.00	
Two Year	12,986.00	6,493.00	(N)
Three Year	11,620.00	5,810.00	
Five Year	10,936.00	5,468.00	
Tier 3 (Over 25 to 50 Miles)			
One Year	16,404.00	8,202.00	
Two Year	15,584.00	7,792.00	(N)
Three Year	13,944.00	6,972.00	
Five Year	13,124.00	6,562.00	

Continued

ADVANCED COMPETITIVE SERVICES (N)

F. ASYNCHRONOUS TRANSFER MODE (ATM) CELL RELAY SERVICE (CRS) – Continued

4. Rates and Charges - Continued

a. UNI Port with Access Line Connection – Continued

	Monthly Rate	
	Maximum	Current
(5) **OC3c, each** – Continued		
SONET - Continued		
Incremental, Protected		
Tier 1 (0 to 5 Miles)		
One Year	$ 8,820.00	$ 4,410.00
Three Year	7,498.00	3,749.00
Five Year	7,056.00	3,528.00
Tier 2 (Over 5 to 25 Miles)		
One Year	10,376.00	5,188.00
Three Year	8,820.00	4,410.00
Five Year	8,302.00	4,151.00
Tier 3 (Over 25 to 50 Miles)		
One Year	12,452.00	6,226.00
Three Year	10,584.00	5,292.00
Five Year	9,962.00	4,981.00
Incremental, Protected Diverse		
Tier 1 (0 to 5 Miles)		
One Year	11,620.00	5,810.00
Three Year	9,878.00	4,939.00
Five Year	9,296.00	4,648.00
Tier 2 (Over 5 to 25 Miles)		
One Year	13,670.00	6,835.00
Three Year	11,620.00	5,810.00
Five Year	10,936.00	5,468.00
Tier 3 (Over 25 to 50 Miles)		
One Year	16,404.00	8,202.00
Three Year	13,944.00	6,972.00
Five Year	13,124.00	6,562.00

(N)

Continued

ADVANCED COMPETITIVE SERVICES

F. ASYNCHRONOUS TRANSFER MODE (ATM) CELL RELAY SERVICE (CRS) - Continued

4. Rates and Charges - Continued

a. UNI Port with Access Line Connection - Continued

	Monthly Rate	
(4) **OC12c, each** - Continued		(T)
SONET		
Full, Protected		
Tier 1 (0 to 5 Miles)		
One Year	$ 21,516.00	(I)
Two Year	20,440.00	
Three Year	18,289.00	
Five Year	17,213.00	
Tier 2 (Over 5 to 25 Miles)		
One Year	25,313.00	
Two Year	24,047.00	
Three Year	21,516.00	
Five Year	20,250.00	
Tier 3 (Over 25 to 50 Miles)		
One Year	30,375.00	
Two Year	28,856.00	
Three Year	25,819.00	
Five Year	24,300.00	(I)
Full, Protected Diverse		
Tier 1 (0 to 5 Miles)		
One Year	$ 23,276.00	(I)
Two Year	22,112.00	
Three Year	19,785.00	
Five Year	18,621.00	
Tier 2 (Over 5 to 25 Miles)		
One Year	27,383.00	
Two Year	26,014.00	
Three Year	23,276.00	
Five Year	21,907.00	
Tier 3 (Over 25 to 50 Miles)		
One Year	32,860.00	
Two Year	31,217.00	
Three Year	27,931.00	
Five Year	26,288.00	(I) (T)

Continued

ADVANCED COMPETITIVE SERVICES

F. ASYNCHRONOUS TRANSFER MODE (ATM) CELL RELAY SERVICE (CRS) - Continued

4. Rates and Charges - Continued

a. UNI Port with Access Line Connection - Continued

	Monthly Rate		
	Maximum	Current	
(4) **OC12c, each** - Continued			
SONET			
Full, Protected			
Tier 1 (0 to 5 Miles)			
One Year	$ 39,120.00	$ 19,560.00	
Two Year	37,164.00	18,582.00	(N)
Three Year	33,252.00	16,626.00	
Five Year	31,296.00	15,648.00	
Tier 2 (Over 5 to 25 Miles)			
One Year	46,024.00	23,012.00	
Two Year	43,722.00	21,861.00	(N)
Three Year	39,120.00	19,560.00	
Five Year	36,818.00	18,409.00	
Tier 3 (Over 25 to 50 Miles)			
One Year	55,228.00	27,614.00	
Two Year	52,466.00	26,233.00	(N)
Three Year	46,944.00	23,472.00	
Five Year	44,182.00	22,091.00	
Full, Protected Diverse			
Tier 1 (0 to 5 Miles)			
One Year	42,320.00	21,160.00	
Two Year	40,204.00	20,102.00	(N)
Three Year	35,972.00	17,986.00	
Five Year	33,856.00	16,928.00	
Tier 2 (Over 5 to 25 Miles)			
One Year	49,788.00	24,894.00	
Two Year	47,298.00	23,649.00	(N)
Three Year	42,320.00	21,160.00	
Five Year	39,830.00	19,915.00	
Tier 3 (Over 25 to 50 Miles)			
One Year	59,746.00	29,873.00	
Two Year	56,758.00	28,379.00	(N)
Three Year	50,784.00	25,392.00	
Five Year	47,796.00	23,898.00	

Continued

ADVANCED COMPETITIVE SERVICES (N)

F. ASYNCHRONOUS TRANSFER MODE (ATM) CELL RELAY SERVICE (CRS) - Continued

4. Rates and Charges - Continued

a. UNI Port with Access Line Connection - Continued

	Monthly Rate	
	Maximum	Current
(4) **OC12c, each** - Continued		
SONET		
Full, Protected		
Tier 1 (0 to 5 Miles)		
One Year	$ 39,120.00	$ 19,560.00
Three Year	33,252.00	16,626.00
Five Year	31,296.00	15,648.00
Tier 2 (Over 5 to 25 Miles)		
One Year	46,024.00	23,012.00
Three Year	39,120.00	19,560.00
Five Year	36,818.00	18,409.00
Tier 3 (Over 25 to 50 Miles)		
One Year	55,228.00	27,614.00
Three Year	46,944.00	23,472.00
Five Year	44,182.00	22,091.00
Full, Protected Diverse		
Tier 1 (0 to 5 Miles)		
One Year	42,320.00	21,160.00
Three Year	35,972.00	17,986.00
Five Year	33,856.00	16,928.00
Tier 2 (Over 5 to 25 Miles)		
One Year	49,788.00	24,894.00
Three Year	42,320.00	21,160.00
Five Year	39,830.00	19,915.00
Tier 3 (Over 25 to 50 Miles)		
One Year	59,746.00	29,873.00
Three Year	50,784.00	25,392.00
Five Year	47,796.00	23,898.00 (N)

Continued

ADVANCED COMPETITIVE SERVICES

F. ASYNCHRONOUS TRANSFER MODE (ATM) CELL RELAY SERVICE (CRS) – Continued

4. Rates and Charges - Continued

a. UNI Port with Access Line Connection – Continued

	Monthly Rate	
(4) **OC12c, each** – Continued		(T)
SONET - Continued		
Incremental, Protected		
Tier 1 (0 to 5 Miles)		
One Year	$ 14,300.00	(I)
Two Year	13,585.00	
Three Year	12,155.00	
Five Year	11,440.00	
Tier 2 (Over 5 to 25 Miles)		
One Year	16,823.00	
Two Year	15,982.00	
Three Year	14,300.00	
Five Year	13,459.00	
Tier 3 (Over 25 to 50 Miles)		
One Year	20,188.00	
Two Year	19,179.00	
Three Year	17,160.00	
Five Year	16,150.00	(I)
Incremental, Protected Diverse		
Tier 1 (0 to 5 Miles)		
One Year	$ 16,060.00	(I)
Two Year	15,257.00	
Three Year	13,651.00	
Five Year	12,848.00	
Tier 2 (Over 5 to 25 Miles)		
One Year	18,894.00	
Two Year	17,949.00	
Three Year	16,060.00	
Five Year	15,115.00	
Tier 3 (Over 25 to 50 Miles)		
One Year	22,673.00	
Two Year	21,539.00	
Three Year	19,272.00	
Five Year	18,138.00	(I) (T)

Continued

ADVANCED COMPETITIVE SERVICES

F. ASYNCHRONOUS TRANSFER MODE (ATM) CELL RELAY SERVICE (CRS) – Continued

5. Rates and Charges - Continued

a. UNI Port with Access Line Connection – Continued

	Monthly Rate		
	Maximum	Current	
(4) **OC12c, each** – Continued			
SONET - Continued			
Incremental, Protected			
Tier 1 (0 to 5 Miles)			
One Year	$ 26,000.00	$ 13,000.00	
Two Year	24,700.00	12,350.00	(N)
Three Year	22,100.00	11,050.00	
Five Year	20,800.00	10,400.00	
Tier 2 (Over 5 to 25 Miles)			
One Year	30,588.00	15,294.00	
Two Year	29,058.00	14,529.00	(N)
Three Year	26,000.00	13,000.00	
Five Year	24,470.00	12,235.00	
Tier 3 (Over 25 to 50 Miles)			
One Year	36,706.00	18,353.00	
Two Year	34,870.00	17,435.00	(N)
Three Year	31,200.00	15,600.00	
Five Year	29,364.00	14,682.00	
Incremental, Protected Diverse			
Tier 1 (0 to 5 Miles)			
One Year	29,200.00	14,600.00	
Two Year	27,740.00	13,870.00	(N)
Three Year	24,820.00	12,410.00	
Five Year	23,360.00	11,680.00	
Tier 2 (Over 5 to 25 Miles)			
One Year	34,352.00	17,176.00	
Two Year	32,634.00	16,317.00	(N)
Three Year	29,200.00	14,600.00	
Five Year	27,482.00	13,741.00	
Tier 3 (Over 25 to 50 Miles)			
One Year	41,224.00	20,612.00	
Two Year	39,162.00	19,581.00	(N)
Three Year	35,040.00	17,520.00	
Five Year	32,978.00	16,489.00	

Continued

ADVANCED COMPETITIVE SERVICES (N)

F. ASYNCHRONOUS TRANSFER MODE (ATM) CELL RELAY SERVICE (CRS) – Continued

6. Rates and Charges - Continued

a. UNI Port with Access Line Connection – Continued

	Monthly Rate	
	Maximum	Current
(4) **OC12c, each** – Continued		
SONET - Continued		
Incremental, Protected		
Tier 1 (0 to 5 Miles)		
One Year	$ 26,000.00	$ 13,000.00
Three Year	22,100.00	11,050.00
Five Year	20,800.00	10,400.00
Tier 2 (Over 5 to 25 Miles)		
One Year	30,588.00	15,294.00
Three Year	26,000.00	13,000.00
Five Year	24,470.00	12,235.00
Tier 3 (Over 25 to 50 Miles)		
One Year	36,706.00	18,353.00
Three Year	31,200.00	15,600.00
Five Year	29,364.00	14,682.00
Incremental, Protected Diverse		
Tier 1 (0 to 5 Miles)		
One Year	29,200.00	14,600.00
Three Year	24,820.00	12,410.00
Five Year	23,360.00	11,680.00
Tier 2 (Over 5 to 25 Miles)		
One Year	34,352.00	17,176.00
Three Year	29,200.00	14,600.00
Five Year	27,482.00	13,741.00
Tier 3 (Over 25 to 50 Miles)		
One Year	41,224.00	20,612.00
Three Year	35,040.00	17,520.00
Five Year	32,978.00	16,489.00 (N)

Continued

ADVANCED COMPETITIVE SERVICES

F. ASYNCHRONOUS TRANSFER MODE (ATM) CELL RELAY SERVICE (CRS) – Continued

4. Rates and Charges - Continued

b. UNI Inverse Multiplexing ATM (IMA)

	Monthly Rate	
(1) **First DS1,** each (1.5 Mbps total bandwidth)		
Full		
Tier 1 (0 to 5 Miles)		
One Year	$ 753.00	(I)
Two Year	716.00	
Three Year	640.00	
Five Year	603.00	
Tier 2 (Over 5 to 25 Miles)		
One Year	753.00	
Two Year	716.00	
Three Year	640.00	
Five Year	603.00	
Tier 3 (Over 25 to 50 Miles)		
One Year	753.00	
Two Year	716.00	
Three Year	640.00	
Five Year	603.00	(I)
(2) **Second DS1,** each (3 Mbps total bandwidth)		
Full		
Tier 1 (0 to 5 Miles)		
One Year	$ 715.00	(I)
Two Year	679.00	
Three Year	622.00	
Five Year	585.00	
Tier 2 (Over 5 to 25 Miles)		
One Year	715.00	
Two Year	679.00	
Three Year	622.00	
Five Year	585.00	
Tier 3 (Over 25 to 50 Miles)		
One Year	715.00	
Two Year	679.00	
Three Year	622.00	
Five Year	585.00	(I)

(T) (T)

Continued

ADVANCED COMPETITIVE SERVICES (N)

F. ASYNCHRONOUS TRANSFER MODE (ATM) CELL RELAY SERVICE (CRS) – Continued

4. Rates and Charges - Continued

b. UNI Inverse Multiplexing ATM (IMA)

	Monthly Rate	
	Maximum	Current
(1) **First DS1,** each (1.5 Mbps total bandwidth)		
Full		
Tier 1 (0 to 5 Miles)		
One Year	$ 1,369.90	$ 684.95
Two Year	1,301.40	650.70
Three Year	1,163.90	581.95
Five Year	1,095.92	547.96
Tier 2 (Over 5 to 25 Miles)		
One Year	1,369.90	684.95
Two Year	1,301.40	650.70
Three Year	1,163.90	581.95
Five Year	1,095.92	547.96
Tier 3 (Over 25 to 50 Miles)		
One Year	1,369.90	684.95
Two Year	1,301.40	650.70
Three Year	1,163.90	581.95
Five Year	1,095.92	547.96
(2) **Second DS1,** each (3 Mbps total bandwidth)		
Full		
Tier 1 (0 to 5 Miles)		
One Year	$ 1,300.00	$ 650.00
Two Year	1,235.00	617.50
Three Year	1,130.00	565.00
Five Year	1,064.00	532.00
Tier 2 (Over 5 to 25 Miles)		
One Year	1,300.00	650.00
Two Year	1,235.00	617.50
Three Year	1,130.00	565.00
Five Year	1,064.00	532.00
Tier 3 (Over 25 to 50 Miles)		
One Year	1,300.00	650.00
Two Year	1,235.00	617.50
Three Year	1,130.00	565.00
Five Year	1,064.00	532.00

(N)

Continued

ADVANCED COMPETITIVE SERVICES

F. ASYNCHRONOUS TRANSFER MODE (ATM) CELL RELAY SERVICE (CRS) – Continued

4. Rates and Charges - Continued

b. UNI Inverse Multiplexing ATM (IMA) – Continued

	Monthly Rate	
(3) **Third DS1,** each (4.5 Mbps total bandwidth)		(T)
Full		
Tier 1 (0 to 5 Miles)		
One Year	$ 688.00	(I)
Two Year	653.00	
Three Year	584.00	
Five Year	550.00	
Tier 2 (Over 5 to 25 Miles)		
One Year	688.00	
Two Year	653.00	
Three Year	584.00	
Five Year	550.00	
Tier 3 (Over 25 to 50 Miles)		
One Year	688.00	
Two Year	653.00	
Three Year	584.00	
Five Year	550.00	(I)
(4) **Fourth DS1,** each (6 Mbps total bandwidth)		
Full		
Tier 1 (0 to 5 Miles)		
One Year	$ 688.00	(I)
Two Year	653.00	
Three Year	584.00	
Five Year	550.00	
Tier 2 (Over 5 to 25 Miles)		
One Year	688.00	
Two Year	653.00	
Three Year	584.00	
Five Year	550.00	
Tier 3 (Over 25 to 50 Miles)		
One Year	688.00	
Two Year	653.00	
Three Year	584.00	
Five Year	550.00	(I) (T)

Continued

ADVANCED COMPETITIVE SERVICES (N)

F. ASYNCHRONOUS TRANSFER MODE (ATM) CELL RELAY SERVICE (CRS) – Continued

4. Rates and Charges - Continued

b. UNI Inverse Multiplexing ATM (IMA) – Continued

	Monthly Rate	
	Maximum	Current
(3) **Third DS1,** each (4.5 Mbps total bandwidth)		
Full		
Tier 1 (0 to 5 Miles)		
One Year	$ 1,250.20	$ 625.10
Two Year	1,187.70	593.85
Three Year	1,062.20	531.10
Five Year	1,000.16	500.08
Tier 2 (Over 5 to 25 Miles)		
One Year	1,250.20	625.10
Two Year	1,187.70	593.85
Three Year	1,062.20	531.10
Five Year	1,000.16	500.08
Tier 3 (Over 25 to 50 Miles)		
One Year	1,250.20	625.10
Two Year	1,187.70	593.85
Three Year	1,062.20	531.10
Five Year	1,000.16	500.08
(4) **Fourth DS1,** each (6 Mbps total bandwidth)		
Full		
Tier 1 (0 to 5 Miles)		
One Year	$ 1,250.20	$ 625.10
Two Year	1,187.70	593.85
Three Year	1,062.20	531.10
Five Year	1,000.16	500.08
Tier 2 (Over 5 to 25 Miles)		
One Year	1,250.20	625.10
Two Year	1,187.70	593.85
Three Year	1,062.20	531.10
Five Year	1,000.16	500.08
Tier 3 (Over 25 to 50 Miles)		
One Year	1,250.20	625.10
Two Year	1,187.70	593.85
Three Year	1,062.20	531.10
Five Year	1,000.16	500.08 (N)

Continued

ADVANCED COMPETITIVE SERVICES

F. ASYNCHRONOUS TRANSFER MODE (ATM) CELL RELAY SERVICE (CRS) – Continued

4. Rates and Charges - Continued

b. UNI Inverse Multiplexing ATM (IMA) – Continued

	Monthly Rate	
(5) **Fifth DS1,** each (7.5 Mbps total bandwidth)		(T)
Full		
Tier 1 (0 to 5 Miles)		
One Year	$ 688.00	(I)
Two Year	653.00	
Three Year	584.00	
Five Year	550.00	
Tier 2 (Over 5 to 25 Miles)		
One Year	688.00	
Two Year	653.00	
Three Year	584.00	
Five Year	550.00	
Tier 3 (Over 25 to 50 Miles)		
One Year	688.00	
Two Year	653.00	
Three Year	584.00	
Five Year	550.00	(I)
(6) **Sixth DS1,** each (9 Mbps total bandwidth)		
Full		
Tier 1 (0 to 5 Miles)		
One Year	$ 688.00	(I)
Two Year	653.00	
Three Year	584.00	
Five Year	550.00	
Tier 2 (Over 5 to 25 Miles)		
One Year	688.00	
Two Year	653.00	
Three Year	584.00	
Five Year	550.00	
Tier 3 (Over 25 to 50 Miles)		
One Year	688.00	
Two Year	653.00	
Three Year	584.00	
Five Year	550.00	(I) (T)

Continued

ADVANCED COMPETITIVE SERVICES (N)

F. ASYNCHRONOUS TRANSFER MODE (ATM) CELL RELAY SERVICE (CRS) – Continued

4. Rates and Charges - Continued

b. UNI Inverse Multiplexing ATM (IMA) – Continued

	Monthly Rate	
	Maximum	Current
(5) **Fifth DS1,** each (7.5 Mbps total bandwidth)		
Full		
Tier 1 (0 to 5 Miles)		
One Year	$ 1,250.20	$ 625.10
Two Year	1,187.70	593.85
Three Year	1,062.20	531.10
Five Year	1,000.16	500.08
Tier 2 (Over 5 to 25 Miles)		
One Year	1,250.20	625.10
Two Year	1,187.70	593.85
Three Year	1,062.20	531.10
Five Year	1,000.16	500.08
Tier 3 (Over 25 to 50 Miles)		
One Year	1,250.20	625.10
Two Year	1,187.70	593.85
Three Year	1,062.20	531.10
Five Year	1,000.16	500.08
(6) **Sixth DS1,** each (9 Mbps total bandwidth)		
Full		
Tier 1 (0 to 5 Miles)		
One Year	$ 1,250.20	$ 625.10
Two Year	1,187.70	593.85
Three Year	1,062.20	531.10
Five Year	1,000.16	500.08
Tier 2 (Over 5 to 25 Miles)		
One Year	1,250.20	625.10
Two Year	1,187.70	593.85
Three Year	1,062.20	531.10
Five Year	1,000.16	500.08
Tier 3 (Over 25 to 50 Miles)		
One Year	1,250.20	625.10
Two Year	1,187.70	593.85
Three Year	1,062.20	531.10
Five Year	1,000.16	500.08 (N)

Continued

ADVANCED COMPETITIVE SERVICES

E. ASYNCHRONOUS TRANSFER MODE (ATM) CELL RELAY SERVICE (CRS) - Continued

4. Rates and Charges - Continued

c. UNI Port Only Connection

	Monthly Rate		
			(T)
(1) **DS1, each**			
Full			
One Year	$ 382.00	(I)	
Two Year	363.00		
Three Year	325.00		
Five Year	306.00	(I)	
(2) **DS3, each**			
Full			
One Year	$ 1,346.00	(I)	
Two Year	1,279.00		
Three Year	1,144.00		
Five Year	1,077.00		
Incremental			
One Year	$ 647.00		
Two Year	615.00		
Three Year	550.00		
Five Year	518.00	(I)	(T)

Continued

ADVANCED COMPETITIVE SERVICES

E. ASYNCHRONOUS TRANSFER MODE (ATM) CELL RELAY SERVICE (CRS) - Continued

4. Rates and Charges - Continued

c. UNI Port Only Connection

	Monthly Rate		
	Maximum	Current	
(1) **DS1, each**			
Full			
One Year	$ 694.00	$ 347.00	
Two Year	660.00	330.00	(N)
Three Year	590.00	295.00	
Five Year	556.00	278.00	
(2) **DS3, each**			
Full			
One Year	$ 2,448.00	$ 1,224.00	
Two Year	2,326.00	1,163.00	(N)
Three Year	2,080.00	1,040.00	
Five Year	1,958.00	979.00	
Incremental			
One Year	$ 1,176.00	$ 588.00	
Two Year	1,118.00	559.00	(N)
Three Year	1,000.00	500.00	
Five Year	942.00	471.00	

Continued

ADVANCED COMPETITIVE SERVICES (N)

E. ASYNCHRONOUS TRANSFER MODE (ATM) CELL RELAY SERVICE (CRS) - Continued

4. Rates and Charges - Continued

c. UNI Port Only Connection

	Monthly Rate	
	Maximum	Current
(1) **DS1, each**		
Full		
One Year	$ 694.00	$ 347.00
Three Year	590.00	295.00
Five Year	556.00	278.00
(2) **DS3, each**		
Full		
One Year	$ 2,448.00	$ 1,224.00
Three Year	2,080.00	1,040.00
Five Year	1,958.00	979.00
Incremental		
One Year	$ 1,176.00	$ 588.00
Three Year	1,000.00	500.00
Five Year	942.00	471.00 (N)

Continued

ADVANCED COMPETITIVE SERVICES

E. ASYNCHRONOUS TRANSFER MODE (ATM) CELL RELAY SERVICE (CRS) - Continued

4. Rates and Charges - Continued

c. UNI Port Only Connection - Continued

	Monthly Rate	
(3) **OC3c, each**		
Full		
One Year	$ 3,520.00	(I)
Two Year	3,344.00	
Three Year	2,992.00	
Five Year	2,816.00	
Incremental		
One Year	$ 1,035.00	
Two Year	983.00	
Three Year	880.00	
Five Year	828.00	(I)
(4) **OC12c, each**		
Full		
One Year	$ 12,372.00	(I)
Two Year	11,754.00	
Three Year	10,516.00	
Five Year	9,898.00	
Incremental		
One Year	$ 3,882.00	
Two Year	3,688.00	
Three Year	3,300.00	
Five Year	3,106.00	(I)

(T)

(T)

Continued

ADVANCED COMPETITIVE SERVICES

E. ASYNCHRONOUS TRANSFER MODE (ATM) CELL RELAY SERVICE (CRS) - Continued

4. Rates and Charges - Continued

c. UNI Port Only Connection - Continued

	Monthly Rate		
	Maximum	Current	
(3) **OC3c, each**			
Full			
One Year	$ 6,400.00	$ 3,200.00	
Two Year	6,080.00	3,040.00	(N)
Three Year	5,440.00	2,720.00	
Five Year	5,120.00	2,560.00	
Incremental			
One Year	$ 1,882.00	$ 941.00	
Two Year	1,788.00	894.00	(N)
Three Year	1,600.00	800.00	
Five Year	1,506.00	753.00	
(4) **OC12c, each**			
Full			
One Year	$ 22,494.00	$ 11,247.00	
Two Year	21,370.00	10,685.00	(N)
Three Year	19,120.00	9,560.00	
Five Year	17,996.00	8,998.00	
Incremental			
One Year	$ 7,058.00	$ 3,529.00	
Two Year	6,706.00	3,353.00	(N)
Three Year	6,000.00	3,000.00	
Five Year	5,648.00	2,824.00	

Continued

ADVANCED COMPETITIVE SERVICES (N)

E. ASYNCHRONOUS TRANSFER MODE (ATM) CELL RELAY SERVICE (CRS) - Continued

4. Rates and Charges - Continued

c. UNI Port Only Connection - Continued

	Monthly Rate	
	Maximum	Current
(3) **OC3c, each**		
Full		
One Year	$ 6,400.00	$ 3,200.00
Three Year	5,440.00	2,720.00
Five Year	5,120.00	2,560.00
Incremental		
One Year	$ 1,882.00	$ 941.00
Three Year	1,600.00	800.00
Five Year	1,506.00	753.00
(4) **OC12c, each**		
Full		
One Year	$ 22,494.00	$ 11,247.00
Three Year	19,120.00	9,560.00
Five Year	17,996.00	8,998.00
Incremental		
One Year	$ 7,058.00	$ 3,529.00
Three Year	6,000.00	3,000.00
Five Year	5,648.00	2,824.00 (N)

Continued

ADVANCED COMPETITIVE SERVICES (N)

F. ASYNCHRONOUS TRANSFER MODE (ATM) CELL RELAY SERVICE (CRS) - Continued

4. Rates and Charges - Continued

d. Permanent Virtual Circuits (PVCs), per order

	Nonrecurring Charge [1]
(1) **Virtual Channel Connections (VCCs)**	
Constant Bit rate (CBR)	$ 75.00
Variable Bit Rate real time (VBRrt)	75.00
Variable Bit Rate non-real time (VBRnrt)	75.00
Unspecified Bit Rate (UBR)	75.00
(2) **Virtual Path Connections (VPCs)**	
Constant Bit Rate (CBR)	75.00
Variable Bit Rate real time (VBRrt)	75.00
Variable Bit Rate non-real time (VBRnrt)	75.00
Unspecified Bit Rate (UBR)	75.00 (N)

[1] Applies per order and in lieu of service charges found elsewhere in this tariff or in Schedule Cal. P.U.C. No. A-41. If multiple UNIs are involved, a nonrecurring charge will apply to each UNI Port on which the virtual connections will reside. The nonrecurring charge does not apply when PVCs are installed at the same time as the respective UNIs. (N)

Continued

ADVANCED COMPETITIVE SERVICES

F. ASYNCHRONOUS TRANSFER MODE (ATM) CELL RELAY SERVICE (CRS) - Continued

4. Rates and Charges - Continued

e. Effective Bandwidth for Incremental UNIs

	Nonrecurring Charge	Monthly Rate	
(1) **CBR or VBR PVC Bandwidth**			(T)
DS3 or OC3c - 5 Mbps	--	$ 88.00	(I)
OC12c - 15 Mbps	--	220.00	
(2) **CBR or VBR SVC Bandwidth**			
DS3 or OC3c – 5 Mbps	--	88.00	
OC12c – 15 Mbps	--	220.00	
(3) **UBR PVC and SVC Bandwidth,** Bandwidth up to the UNI line rate			
DS3	--	440.00	
OC3c	--	1,320.00	
OC12c	--	4,400.00	(I)
f. Closed User Groups (CUG) [1], per order, per UNI			
(1) Each CUG	$ 75.00	--	
(2) Each subsequent CUG member added to a CUG	75.00	--	
g. Administrative Charge [1], per order, per UNI	75.00	--	(T)

[1] Applies per order, per UNI, and in lieu of service charges found elsewhere in this tariff or in Schedule Cal. P.U.C. No. A-41. The nonrecurring charge does not apply for those items ordered on the same service order with the installation of a UNI.

Continued

ADVANCED COMPETITIVE SERVICES (N)

F. ASYNCHRONOUS TRANSFER MODE (ATM) CELL RELAY SERVICE (CRS) - Continued

4. Rates and Charges - Continued

e. Effective Bandwidth for Incremental UNIs

	Nonrecurring Charge	Monthly Rate Maximum	Monthly Rate Current
(1) **CBR or VBR PVC Bandwidth**			
DS3 or OC3c - 5 Mbps	--	$ 160.00	$ 80.00
OC12c - 15 Mbps	--	400.00	200.00
(2) **CBR or VBR SVC Bandwidth**			
DS3 or OC3c – 5 Mbps	--	160.00	80.00
OC12c – 15 Mbps	--	400.00	200.00
(3) **UBR PVC and SVC Bandwidth,** Bandwidth up to the UNI line rate			
DS3	--	800.00	400.00
OC3c	--	2,400.00	1,200.00
OC12c	--	8,000.00	4,000.00
f. Closed User Groups (CUG) [1], per order, per UNI			
(1) Each CUG	$ 75.00	--	--
(2) Each subsequent CUG member added to a CUG	75.00	--	--
g. Administrative Charge [1], per order, per UNI	75.00	--	-- (N)

[1] Applies per order, per UNI, and in lieu of service charges found elsewhere in this tariff or in Schedule Cal. P.U.C. No. A-41. The nonrecurring charge does not apply for those items ordered on the same service order with the installation of a UNI. (N)

Continued

ADVANCED COMPETITIVE SERVICES (N)

G. FRAME RELAY SERVICE (FRS)

1. APPLICATION

This section contains definitions, regulations and charges applicable to the provision of Frame Relay Service (FRS), a fully competitive Category III service furnished by the Utility within the State of California. The Utility, on its sole discretion, shall offer FRS in locations where technical capabilities exist and market conditions warrant.

FRS is available in all existing Verizon exchanges as listed in Schedule Cal. P.U.C. No. AB, Sheets 1 and 2. The Utility concurs in all of the maps filed as part of Southwestern Bell Communications (SBC) Network and Exchange Services tariff, Schedule Cal. P.U.C. No. A5.1.A.

2. DEFINITIONS

In addition to the General Definitions set forth in Schedule Cal. P.U.C. No. D&R, the following definitions apply:

Committed Information Rate (CIR) - The maximum information rate at which customer traffic will be admitted to the network without being designated eligible for discard.

Customer Designated Location (CDL) - The geographic location designated by the customer at which an access component of the customer's service is first considered to enter the Utility's network.

Data Link Connection Identifier (DLCI) - The Frame Relay virtual circuit number corresponding to a particular destination which is part of the frame relay header and is usually ten bits long.

Excess Burst Size B(e) - The data rate above the Committed Information Rate (CIR), but less than the port size, at which customer data will be admitted to the Frame Relay network. All Excess Burst data B(e) admitted to the network will be designated as eligible for discard.

Frame - A group of data bits, in a specific format, with a flag at either end to indicate the beginning and end of the frame. The defined format enables network equipment to recognize the meaning and purpose of specific bits.

Frame Relay Service - A connection oriented fast packet network service that permits the transmission of data at speeds of 56 Kbps to 44.736 Mbps using Permanent Virtual Connections (PVCs).

Local Area Network (LAN) - A network permitting the interconnection of multiple computers, typically within a single building or campus.

Logical Channel - A communications channel that allows two-way simultaneous transmission of data packets through the network. Capacity is made available as the data is transmitted. Each permanent virtual circuit is one logical channel. (N)

Continued

ADVANCED COMPETITIVE SERVICES (N)

G. FRAME RELAY SERVICE (FRS) - Continued

2. DEFINITIONS - Continued

Maximum Burst Rate (MBR) - The maximum information rate at which customer traffic will be admitted to the network. Traffic rates in excess of MBR will automatically be discarded on ingress to the network. The Maximum Burst Rate is equal to the sum of the Committed Information Rate (CIR) and Excess Burst Size B(e).

Network-to-Network Interface (NNI) – A standard interface used to connect two frame relay services, and includes elements such as bi-directional polling to assist the network services providers in gaining information on the status of the networks being connected.

Permanent Virtual Circuit (PVC) - A logical channel, defined in software that establishes a path from one customer port to another.

Port - The entry point on the switch to which the customer is connected. Ports are available which allow connection to the Frame Relay network at speeds of 56 Kbps to 44.736 Mbps.

Statistical Multiplexing - A multiplexing technique in which time slots are dynamically allocated on the basis of need rather than being predetermined. The data is typically transmitted on a first come, first served basis.

Term Payment Plan (TPP) - The length of time for which a customer agrees to pay for Frame Relay Service. Payment periods of one year, three years and five years are available for the UNI Port and Access Line, UNI Port Only and Private NNI Port Only rate elements. PVC CIR and PVC CIR Optional Features are not offered under a TPP.

User-to-Network Interface (UNI) - A standard interface used to connect the end user to the Frame Relay Service network. It receives the data frame from the customer's Local Area Network (LAN) or other customer-provided equipment (CPE) devices and verifies that the Data Link Connection Identifier (DLCI) is valid before relaying the frame to the destination end point. The DLCI is a Frame Relay term defining a 10-bit field of the address field, and it identifies data links and their service parameters. (N)

Continued

ADVANCED COMPETITIVE SERVICES (N)

G. FRAME RELAY SERVICE (FRS) - Continued

3. REGULATIONS

The regulations and rates specified herein are in addition to the applicable regulations and rates specified in other sections of this and other Tariffs of the Utility.

a. Description of Service

(1) Frame Relay Service (FRS) is a data communications service that provides for data connectivity between/among widely distributed locations. This connectivity is provided via Permanent Virtual Circuit (PVC) connections implemented over access facilities utilizing a switch dedicated to high-speed data services.

(2) FRS is a transport service that facilitates the exchange of variable length information units (frames) between end user connections by way of PVCs. Each frame is passed to the Frame Relay network with an address that specifies the permanent virtual circuit.

(3) Variable frame length capability is useful in communications between asynchronous Local Area Networks (LAN) and for transport of synchronous data traffic. FRS is capable of handling the requirements of bursty data sources because of the ability of the service to allocate additional bandwidth when not in use by other sources.

(4) In operation of FRS, Customer Premises Equipment (CPE), such as routers, encapsulate arriving data into variable length frames. These frames contain information identifying which PVC in the network should be used to forward the frame to the proper destination. The CPE then sends the frame into the Frame Relay network. The Frame Relay switch reads identifying information and routes the frame to the proper destination based on a pre-established PVC path.

(5) The statistical multiplexing Frame Relay switches are able to provide shared network resources to end users of this service.

(6) The Committed Information Rate (CIR) and Excess Burst Size B(e) are traffic management parameters that allow the customer to fine tune implementation of FRS.

(7) FRS, as provided for in this Tariff, is offered for intrastate use only. (N)

Continued

ADVANCED COMPETITIVE SERVICES (N)

G. FRAME RELAY SERVICE (FRS) - Continued

3. REGULATIONS - Continued

b. Service Components

The major components of FRS are:

User-to-Network Interface (UNI) Port and Access Line
Port Only
- UNI Port Only
- Private Network-to-Network (NNI) Port Only

Permanent Virtual Circuit (PVC) Committed Information Rate (CIR)
PVC CIR Optional Features
- Backup UNI

(1) User-to-Network Interface (UNI) Port and Access Line

The UNI Port and Access Line forms the component which provides the customer access to the customer's serving wire center and interoffice transport from the customer's serving wire center to the Frame Relay switch. The UNI Port and Access Line is provided for use only with FRS and where facilities and conditions permit.

(2) Port Only

Customers may access Port Only connections via Utility-provided digital access facilities or via facilities provided by another carrier. The channel speed of the access channel must be sufficient to accommodate the Frame Relay port speed. When access facilities are provided by the Utility, the associated regulations, rates and charges under the appropriate Utility Tariff shall apply in addition to the regulations, rates and charges associated with FRS. Utility-provided access facilities may also be provisioned on an Individual Case Basis (ICB) where access facilities are not generally available under the applicable tariff. Interconnection charges to connect access line services provided by the Utility or another carrier may apply and will be billed separately. Any special construction or nonstandard charges assessed by the carrier supplying the access facilities will be the responsibility of the customer. (N)

Continued

ADVANCED COMPETITIVE SERVICES (N)

G. FRAME RELAY SERVICE (FRS) - Continued

3. REGULATIONS - Continued

b. Service Components - Continued

(2) Port Only - Continued

(a) UNI Port Only

The UNI Port Only provides for a user to carrier connection (i.e., end user customer to the Utility).

(b) Private Network-to-Network (NNI) Port Only

The Private NNI port configuration is used for connecting two networks together for bi-directional messaging and is available on a private basis only. A Private NNI is a NNI port sold for the exclusive use of the customer.

(3) Permanent Virtual Circuit (PVC) Committed Information Rate (CIR)

(a) Permanent Virtual Circuits (PVCs) are logical circuits that define a specific path for data sent by the customer to another location. These circuits are virtual because they are established in software tables and do not tie up capacity when not in use. This also allows multiple paths (PVCs) to be defined on any given port, thereby providing a single access line the capability to transmit data to multiple destinations.

(b) Since multiple PVCs may be defined on one physical port, it is possible for the cumulative Committed Information Rates (CIRs) to exceed the physical bandwidth of that port. This is referred to as over-subscription and when this occurs, the aggregate CIR defined for that port and PVC will not be available at any point in time.

(c) The following types of PVC CIR are available:

i) Intrazone - An Intrazone PVC is a logical channel path between two customer Frame Relay ports within the same zone. Frame Relay zones are found in j.(1)(f). following.

ii) Multi-jurisdictional – A Multi-jurisdictional PVC is a logical channel path between two customer Frame Relay ports, one being an interstate port and the other an intrastate port both located within the same Frame Relay zone. A Multi-jurisdictional PVC falls under federal jurisdiction and the PVC CIR rates, rules and regulations from the appropriate Utility Tariff are applicable. (N)

Continued

ADVANCED COMPETITIVE SERVICES (N)

G. FRAME RELAY SERVICE (FRS) - Continued

3. REGULATIONS - Continued

b. Service Components - Continued

(3) Permanent Virtual Circuit (PVC) Committed Information Rate (CIR) - Continued

(c) The following types of PVC CIR are available: - Continued

iii) Public NNI – A Public NNI PVC is a logical channel path between a customer Frame Relay port and a Public NNI port, both located within the same Frame Relay zone. A Public NNI Port is a Frame Relay Port provided to serve multiple users and is owned and controlled by the Utility.

(4) PVC CIR Optional Features

(a) Interzone Transport – Interzone transport provides the mapping of a Frame Relay Intrazone PVC across one or more Frame Relay zone boundaries. Interzone Transport is available only with Intrazone PVC CIR at the rates set forth in 4.e.(1).

(b) Frame Relay to ATM Service Interworking - Frame Relay to ATM Service Interworking provides for the conversion of Frame Relay packets to ATM cells and the conversion of ATM cells to Frame Relay Packets. Frame Relay to ATM Service Interworking is available with Intrazone and Multi-jurisdictional PVC CIR at no additional charge.

(5) Backup UNI

Backup UNI service is a disaster avoidance and disaster recovery feature that consists of a Primary UNI and a Backup UNI, and incorporates PVC remapping capabilities of the Frame Relay network. The Primary UNI is terminated at the primary customer host location and in normal operation serves PVCs between the primary host location and various customer remote locations. A second UNI, which is designated by the customer as a Backup UNI, is installed and terminated at the customer's backup host location. During normal operations no PVCs are mapped to the Backup UNI. The customer will be required to purchase both UNIs. In the event of a Primary UNI, primary digital access line or, customer primary host location failure, the predefined PVC configuration can be remapped to the Backup UNI at the customer's request. Upon restoral of the Primary UNI service the customer must contact the Utility to initiate remapping of PVCs from the Backup UNI back to the Primary UNI. A Backup UNI, which may serve as a backup to one or more Primary UNIs, can only backup one Primary UNI at a time. A Backup UNI must be the same port speed or greater than the Primary UNI(s). (N)

Continued

ADVANCED COMPETITIVE SERVICES (N)

G. FRAME RELAY SERVICE (FRS) - Continued

3. REGULATIONS - Continued

c. Technical Specifications

FRS conforms to the transmission specification standards in the following references:

ANSI T1.602 Integrated Services Digital Network (ISDN) – Data Link Layer Signaling Specification for Application at the User-Network Interface – Issued 1989

ANSI T1.606 Frame Relay Bearer Service, Architectural Framework and Service Description – Issued 1990

ANSI T1.617 Integrated Services Digital Network (ISDN) – Digital Subscriber Signaling Specification for Frame Relay Bearer Service – Issued 1991.

ANSI T1.618 Integrated Services Digital Network (ISDN) – Core Aspects of Frame Relay Bearer Service – Issued 1991

d. Provision of Service

(1) FRS is provided to the customer in the form of the UNI Port and Access Line, UNI Port Only, Private NNI Port Only and CIR based PVCs. The UNI Port and Access Line forms the local access component to the customer's serving central office. The UNI Port Only and Private NNI Port Only include the electronic equipment necessary to interface the access line to the Frame Relay switch.

(2) PVCs are provisioned on a specified speed and CIR basis, depending upon the customer's request. The actual throughput of aggregated PVC bandwidths in use at the same time on the same port cannot exceed the port speed.

(3) The maximum CIR allowed is determined by the lower of the two port speeds connected by the PVC. The maximum CIR allowed for port speeds at 1.536 Mbps and below is 75% of the lower of the two port speeds. For port speeds above 1.536 Mbps to 44.736 Mbps, the maximum CIR allowed is 50% of the lower of the two port speeds. (N)

Continued

ADVANCED COMPETITIVE SERVICES (N)

G. FRAME RELAY SERVICE (FRS) - Continued

3. REGULATIONS - Continued

d. Provision of Service - Continued

(4) The PVC must be associated with at least one Frame Relay port. A Frame Relay port can be associated with multiple PVCs.

(5) The customer subscribing to a Port Only or Port and Access Line will be referred to as the controller of the Frame Relay port. A separate entity may, with written authorization from the controller, subscribe to a PVC that allows communication between entities. A disconnect of a PVC does not result in the disconnect of the underlying access line and port. Only the controller may order the disconnect of the FRS.

(6) The Frame Relay port with PVC CIR capacity may be ordered and billed separately from an associated Frame Relay port and PVC, and can have different customers as controllers.

(7) 4 Mbps, 6 Mbps, 10 Mbps and 22 Mbps speeds are provisioned utilizing 44.736 Mbps of transport bandwidth; no other service(s) may utilize the remaining bandwidth.

(8) FRS is available where facilities and conditions permit.

e. Special Conditions

(1) Maintenance Window

(a) Occasionally, in order to perform software updates and other maintenance, it may be necessary to take the Frame Relay switch out of service, during the predetermined maintenance window of 11:00p.m. to 8:00 a.m. In these cases, all attempts will be made to notify the customer in advance as to the time and duration of these outages. The Utility reserves the right to temporarily interrupt the FRS at other times in emergency situations. (N)

Continued

ADVANCED COMPETITIVE SERVICES (N)

G. FRAME RELAY SERVICE (FRS) - Continued

3. REGULATIONS - Continued

f. Obligations of the Customer

(1) Where FRS is available for use in connection with communications systems or equipment provided by a customer or user, the operating characteristics of such systems or equipment shall be such as not to interfere with any services offered by the Utility. Such use is subject to the further provisions that the equipment provided by the customer or user does not endanger the safety of the Utility's employees or the public; damage, harm, require change in or alteration of the equipment or other services of the Utility; interfere with the proper operation of the Utility's equipment or otherwise injure the public in its use of the Utility's services. Upon notice from the Utility that the equipment provided by the customer or user is causing, or is likely to cause, such hazard or interference, the customer shall take such steps as shall be necessary to remove or prevent such hazard or interference.

(2) The customer, upon request, shall furnish such information as may be required to permit the Utility to design and maintain the FRS it offers and to assure that the service arrangement is in compliance with the regulations contained herein.

(3) It shall be the responsibility of the customer to ensure the continuing compatibility of the customer-provided equipment that is used in conjunction with the FRS. The CPE shall be in compliance with the rules and regulations specified in this tariff.

(4) The customer shall be responsible for obtaining permission for the Utility's agents or employees to enter the premises of the-customer at any reasonable hour for the purpose of installing, inspecting, repairing, or, upon termination of the service, removing the service components of the Utility.

(5) At service subscription, the customer must specify the CIR and is expected to provide the DLCI and the B(e) for each PVC ordered.

(6) Error correction is the responsibility of the customer's terminal equipment and/or applications. If the FRS network experiences congestion or failures, customer data may be discarded. In addition, frames that are received in excess of the Maximum Burst Rate (MBR), with bad addresses, or other errors will be discarded on ingress to the network. The customer's Frame Relay terminal equipment has the responsibility for retransmitting frames that are discarded due to errors or network congestion.

(7) The customer is responsible for provisioning the inside wire from the network interface to the Frame Relay compatible equipment. (N)

Continued

ADVANCED COMPETITIVE SERVICES (N)

G. FRAME RELAY SERVICE (FRS) - Continued

3. REGULATIONS - Continued

f. Obligations of the Customer - Continued

(8) A customer ordering Backup UNI service is responsible for the following:

- Determining network configuration before and after the activation of Backup UNI service.
- Providing the Utility with the appropriate information required for joint development of the Backup UNI database.
- Maintaining its own port configurations and router tables (for seamless changes from the Primary UNI to the Backup UNI, the customer must use the same addressing scheme on routers connected to the primary and backup sites).
- Contacting the Utility to request all activations and deactivations of Backup UNI service.

g. Obligations of the Utility

(1) The responsibility of the Utility shall be limited to furnishing network equipment suitable for FRS and to the maintenance and operation of such equipment in a manner proper for such service. Subject to this responsibility, the Utility shall not be responsible for the through transmission of signals generated by the customer-provided equipment or system, or for the quality of, or defects in, such transmission or the reception of signals by such equipment or systems.

(2) The Utility shall not be responsible for installation, operation or maintenance of any terminal equipment, data unit or communications system provided by a customer or user. The Utility is not responsible for adapting FRS to the technological requirements of any specific customer equipment.

(3) When a customer orders FRS which is relayed to Frame Relay networks of other carriers, the Utility will provide advisory assistance as a part of the establishment of this service. (N)

Continued

ADVANCED COMPETITIVE SERVICES (N)

G. FRAME RELAY SERVICE (FRS) - Continued

3. REGULATIONS - Continued

g. Obligations of the Utility - Continued

(4) The Utility shall not be responsible to the customer or user if changes in any of the equipment, operations or procedures of the Utility used in the provision of FRS render any facilities provided by the customer or user obsolete or require modification or alteration of such equipment or system or otherwise affect its use or performance, provided the Utility has met any applicable information disclosure requirements otherwise required by law.

(5) The Utility undertakes the responsibility to maintain and repair the service that it furnishes. Network equipment installed by the Utility on the customer's premises shall be and remain the property of the Utility. The customer or user may not rearrange, disconnect, remove, attempt to repair, remote test, or interface with any network equipment installed by the Utility without prior written consent by the Utility.

(6) The Utility has the service responsibility up to and including the network interface.

h. Special Facilities Routing

The customer may request that the facilities used to provide FRS be specially routed. Additional charges will apply based on cost.

i. Acceptance Testing

At the customer's request, the Utility will cooperatively test at the time of installation at no additional charge. Acceptance tests will include tests for the parameters applicable to the service as specified in the order for service. (N)

Continued

ADVANCED COMPETITIVE SERVICES (N)

G. FRAME RELAY SERVICE (FRS) - Continued

3. REGULATIONS - Continued

j. Application of Rates

(1) Rate Elements

The following rate elements are applicable to FRS:

UNI Port and Access Line
Port Only
- UNI Port Only
- Private NNI Port Only

PVC CIR
PVC CIR Optional Features
Subsequent PVC CIR Charge
Backup UNI
Software Change Charge

(a) UNI Port and Access Line

A monthly recurring charge based on the speed of the port connection applies per port for each physical connection to the network supporting FRS. In addition, a nonrecurring charge applies to the month-to-month plan. Nonrecurring charges do not apply to UNI Port and Access Line offered on a Term Payment Plan (TPP). UNI Port and Access Line is offered on a month-to-month basis or as a TPP of one year, three years, or five years.

(b) Port Only – UNI Port Only and Private NNI Port Only

A monthly recurring charge based on the speed of the port connection applies per port for each Port Only interface. In addition, a nonrecurring charge applies to the month-to-month plan. Nonrecurring charges do not apply to Port Only offered on a TPP. Port Only is offered on a month-to-month basis or as a TPP of one year, three years, or five years.

Refer to 3.b.(2) for the rules and regulations associated with Port Only digital access facilities. (N)

Continued

ADVANCED COMPETITIVE SERVICES (N)

G. FRAME RELAY SERVICE (FRS) - Continued

3. REGULATIONS - Continued

j. Application of Rates - Continued

(1) Rate Elements (Continued)

(c) Permanent Virtual Circuit (PVC) Committed Information Rate (CIR)

i) Intrazone - A monthly recurring charge, based on CIR capacity, applies for each PVC requested by the customer. Frame Relay zones are found in (f) following.

ii) Multi-jurisdictional - A Multi-jurisdictional PVC falls under federal jurisdiction and the PVC CIR rates, rules and regulations from the Verizon Telephone Companies FCC Tariff No. 20 are applicable.

iii) Public NNI – A monthly recurring charge, based on CIR capacity, applies for each PVC requested by the customer.

(d) PVC CIR Optional Features

i) Interzone Transport – A monthly recurring charge, based on CIR capacity, applies for each application of Interzone Transport and is in addition to the applicable charges for Intrazone PVC CIR. Interzone Transport is available only with Intrazone PVC CIR.

ii) Frame Relay to ATM Service Interworking - Frame Relay to ATM Service Interworking is available with Intrazone and Multi-jurisdictional PVC CIR at no additional charge.

(e) Subsequent PVC CIR Charge – A nonrecurring charge applies when a customer orders additional PVC CIR subsequent to the initial port installation. (N)

Continued

ADVANCED COMPETITIVE SERVICES (N)

G. FRAME RELAY SERVICE (FRS) - Continued

3. REGULATIONS - Continued

j. Application of Rates - Continued

(1) Rate Elements - Continued

(f) Frame Relay Zones

Zone	Office
Los Angeles	Covina
	Lancaster
	Long Beach
	Ontario
	Oxnard
	Perris
	Redondo Beach
	San Bernardino
	Santa Monica
	Sepulveda
	Thousand Oaks
	Victorville
	Whittier
Manteca [1]	Manteca
Novato [1]	Los Gatos
	Novato
Palm Springs	Palm Springs
Santa Barbara/Santa Maria	Santa Barbara
	Santa Maria
Taft [1]	Taft

(g) Backup UNI

A nonrecurring charge applies when a customer requests an activation of the Backup UNI service. No additional charges are applied upon deactivation of Backup UNI service.

(h) Software Change Charge

A nonrecurring charge applies per order when a customer requests a PVC parameter change (i.e., CIR, burst, DLCI re-map to a different host or remote). For each service order issued per UNI or Private NNI, the charge will be one Software Change Charge regardless of the number of changes made.

[1] Interzone transport optional feature not available. (N)

Continued

ADVANCED COMPETITIVE SERVICES (N)

G. FRAME RELAY SERVICE (FRS) - Continued

3. REGULATIONS - Continued

j. Application of Rates - Continued

(2) Service Charges

Unless otherwise stated in this Tariff, nonrecurring charges applicable to FRS are in lieu of service charges found elsewhere in this Tariff or other Company Tariffs.

(3) Minimum Period

The minimum period for FRS is one month except when the customer subscribes to a TPP. When PVCs are added to existing FRS, the minimum period for the PVC is one month.

(4) Term Payment Plan (TPP)

(a) The UNI Port and Access Line, UNI Port Only and Private NNI Port Only rate elements are available under a TPP. PVC CIR and PVC CIR Optional Features are not offered under a TPP.

(b) Payment periods of one year, three years and five years are available to all customers at the applicable rates set forth in 4.RATES following, regardless of when they subscribe to a TPP arrangement.

(c) Changes to a TPP period

Prior to the completion of the selected TPP period, the customer may elect to convert to a new TPP period of the same or different length, subject to the following conditions:

- No credit toward the new payment period will be given for payments made under the original TPP arrangement.
- Nonrecurring charges will not be reapplied for existing service(s).
- If the value of the new TPP is less than the remaining value of current TPP, the change to the new TPP period constitutes a disconnect of the existing TPP service and termination liability charges, as set forth in Schedule Cal. P.U.C. No. D&R,Rule No. 47, will apply.

Conversion to a different TPP or to a month-to-month option will require the customer to submit an order. If no other changes are requested, no nonrecurring charges will apply. (N)

Continued

ADVANCED COMPETITIVE SERVICES (N)

G. FRAME RELAY SERVICE (FRS) - Continued

3. REGULATIONS - Continued

j. Application of Rates - Continued

(4) Term Payment Plan (TPP) - Continued

(d) Termination Liability

In the event FRS is terminated by the customer prior to completion of the initial term commitment period, Termination Liability Charges as set forth in Schedule Cal. P.U.C. No. D&R, Rule No. 47, will apply.

(5) Service Rearrangements

(a) Additions to Service

i) With the exception of PVCs, when service elements are added to an existing service, the added elements must meet the minimum period requirements associated with the service to which they are added. When PVCs are added to an existing FRS, the minimum period for the added PVCs is one month.

ii) Nonrecurring charges will apply for all additions to existing services or optional features for which nonrecurring charges normally apply at installation.

iii) Related monthly rates and nonrecurring charges for addition(s) to service are the rate and charges in effect at the time of the addition(s).

(b) Administrative Changes

Administrative changes to existing service will be made without charge(s) to the customer. Administrative changes may include but are not limited to the following:

- Change of customer name, i.e., the customer or record does not change but rather the customer of record changes its name, e.g., XYZ Company to XYZ Communications,
- Change of customer premises address when the change of address is not a result of a physical relocation of facilities,
- Change in billing data (name, address, or contact name or telephone number), and
- Change of customer contact name or telephone number. (N)

Continued

ADVANCED COMPETITIVE SERVICES (N)

G. FRAME RELAY SERVICE (FRS) - Continued

3. REGULATIONS - Continued

j. Application of Rates - Continued

(5) Service Rearrangements - Continued

(c) Conversion of service to another jurisdiction will be treated as a disconnect of service and establishment of new service. However, if no other changes are ordered, nonrecurring charges will apply.

(d) Moves

When the customer requests a move or relocation of the UNI Port and Access Line, UNI Port Only or Private NNI Port Only, the move or relocation will be treated as a termination of the existing service and the establishment of a new service.

(e) Upgrade to Higher Speed Service

The customer may elect to upgrade service(s) to a higher speed during a TPP period without incurring termination liability, subject to the following conditions:

- Both the existing and the new service are provided solely by the Company.
- The order to discontinue service at an existing speed or capacity and the order for the upgraded service are received by the Company at the same time.
- The new service will provided at the same customer location as the discontinued service. (N)

Continued

ADVANCED COMPETITIVE SERVICES

G. FRAME RELAY SERVICE (FRS) - Continued

4. RATES

a. UNI Port and Access Line, each

	Nonrecurring Charge[1]	Monthly Rate	
56 Kbps			
Month-to-Month	$ 595.00	$ 187.00	(I)
One Year	0.00	182.00	
Three Years	0.00	171.00	
Five Years	0.00	154.00	
128 Kbps			
Month-to-Month	595.00	352.00	
One Year	0.00	341.00	
Three Years	0.00	319.00	
Five Years	0.00	292.00	
256 Kbps			
Month-to-Month	595.00	451.00	
One Year	0.00	440.00	
Three Years	0.00	413.00	
Five Years	0.00	385.00	
384 Kbps			
Month-to-Month	695.00	457.00	
One Year	0.00	440.00	
Three Years	0.00	413.00	
Five Years	0.00	385.00	
1.536 Mbps			
Month-to-Month	695.00	649.00	
One Year	0.00	616.00	
Three Years	0.00	578.00	
Five Years	0.00	528.00	(I)

(T) (T)

[1] Applies in lieu of service charges found elsewhere in this Tariff or other Company Tariffs.

Continued

ADVANCED COMPETITIVE SERVICES

G. FRAME RELAY SERVICE (FRS) - Continued

4. RATES

a. UNI Port and Access Line, each

	Nonrecurring Charge[1]	Maximum Monthly Rate	Current Monthly Rate	
56 Kbps				
Month-to-Month	$ 595.00	$ 320.00	$ 170.00	(I)
One Year	0.00	310.00	165.00	
Three Years	0.00	280.00	155.00	
Five Years	0.00	260.00	140.00	
128 Kbps				
Month-to-Month	595.00	580.00	320.00	
One Year	0.00	560.00	310.00	
Three Years	0.00	540.00	290.00	
Five Years	0.00	520.00	265.00	
256 Kbps				
Month-to-Month	595.00	700.00	410.00	
One Year	0.00	690.00	400.00	
Three Years	0.00	670.00	375.00	
Five Years	0.00	660.00	350.00	
384 Kbps				
Month-to-Month	695.00	730.00	415.00	
One Year	0.00	710.00	400.00	
Three Years	0.00	700.00	375.00	
Five Years	0.00	680.00	350.00	
1.536 Mbps				
Month-to-Month	695.00	1,060.00	590.00	
One Year	0.00	1,020.00	560.00	
Three Years	0.00	960.00	525.00	
Five Years	0.00	900.00	480.00	(I)

[1] Applies in lieu of service charges found elsewhere in this Tariff or other Company Tariffs.

Continued

ADVANCED COMPETITIVE SERVICES (N)

G. FRAME RELAY SERVICE (FRS) - Continued

4. RATES

a. UNI Port and Access Line, each

	Nonrecurring Charge[1]	Maximum Monthly Rate	Current Monthly Rate
56 Kbps			
Month-to-Month	$ 595.00	$ 320.00	$ 160.00
One Year	0.00	310.00	155.00
Three Years	0.00	280.00	140.00
Five Years	0.00	260.00	130.00
128 Kbps			
Month-to-Month	595.00	580.00	290.00
One Year	0.00	560.00	280.00
Three Years	0.00	540.00	270.00
Five Years	0.00	520.00	260.00
256 Kbps			
Month-to-Month	595.00	700.00	350.00
One Year	0.00	690.00	345.00
Three Years	0.00	670.00	335.00
Five Years	0.00	660.00	330.00
384 Kbps			
Month-to-Month	695.00	730.00	365.00
One Year	0.00	710.00	355.00
Three Years	0.00	700.00	350.00
Five Years	0.00	680.00	340.00
1.536 Mbps			
Month-to-Month	695.00	1,060.00	530.00
One Year	0.00	1,020.00	510.00
Three Years	0.00	960.00	480.00
Five Years	0.00	900.00	450.00

[1] Applies in lieu of service charges found elsewhere in this Tariff or other Company Tariffs. (N)

Continued

ADVANCED COMPETITIVE SERVICES

G. FRAME RELAY SERVICE (FRS) - Continued

4. RATES - Continued

a. UNI Port and Access Line, each - Continued

(T)

	Nonrecurring Charge[1]	Monthly Rate	
4 Mbps			
Month-to-Month	$ 795.00	$3,520.00	(I)
One Year	0.00	3,410.00	
Three Years	0.00	3,300.00	
Five Years	0.00	3,190.00	
6 Mbps			
Month-to-Month	795.00	3,630.00	
One Year	0.00	3,520.00	
Three Years	0.00	3,410.00	
Five Years	0.00	3,300.00	
10 Mbps			
Month-to-Month	795.00	3,850.00	
One Year	0.00	3,740.00	
Three Years	0.00	3,630.00	
Five Years	0.00	3,410.00	
22 Mbps			
Month-to-Month	795.00	4,180.00	
One Year	0.00	3,960.00	
Three Years	0.00	3,740.00	
Five Years	0.00	3,520.00	
44.736 Mbps			
Month-to-Month	795.00	4,620.00	
One Year	0.00	4,290.00	
Three Years	0.00	3,960.00	
Five Years	0.00	3,630.00	(I)

(T)

[1] Applies in lieu of service charges found elsewhere in this Tariff or other Company Tariffs.

Continued

ADVANCED COMPETITIVE SERVICES

G. FRAME RELAY SERVICE (FRS) - Continued

4. RATES - Continued

a. UNI Port and Access Line, each - Continued

	Nonrecurring Charge[1]	Maximum Monthly Rate	Current Monthly Rate	
4 Mbps				
Month-to-Month	$ 795.00	$ 5,300.00	$ 3,200.00	(I)
One Year	0.00	5,080.00	3,100.00	
Three Years	0.00	4,600.00	3,000.00	
Five Years	0.00	4,200.00	2,900.00	
6 Mbps				
Month-to-Month	795.00	6,000.00	3,300.00	
One Year	0.00	5,750.00	3,200.00	
Three Years	0.00	5,200.00	3,100.00	
Five Years	0.00	4,800.00	3,000.00	
10 Mbps				
Month-to-Month	795.00	6,650.00	3,500.00	
One Year	0.00	6,360.00	3,400.00	
Three Years	0.00	5,700.00	3,300.00	
Five Years	0.00	5,300.00	3,100.00	
22 Mbps				
Month-to-Month	795.00	7,000.00	3,800.00	
One Year	0.00	6,700.00	3,600.00	
Three Years	0.00	6,000.00	3,400.00	
Five Years	0.00	5,600.00	3,200.00	
44.736 Mbps				
Month-to-Month	795.00	7,500.00	4,200.00	
One Year	0.00	7,100.00	3,900.00	
Three Years	0.00	6,350.00	3,600.00	
Five Years	0.00	5,900.00	3,300.00	(I)

[1] Applies in lieu of service charges found elsewhere in this Tariff or other Company Tariffs.

Continued

ADVANCED COMPETITIVE SERVICES (N)

G. FRAME RELAY SERVICE (FRS) - Continued

4. RATES - Continued

a. UNI Port and Access Line, each - Continued

	Nonrecurring Charge[1]	Maximum Monthly Rate	Current Monthly Rate
4 Mbps			
Month-to-Month	$ 795.00	$ 5,300.00	$ 2,650.00
One Year	0.00	5,080.00	2,540.00
Three Years	0.00	4,600.00	2,300.00
Five Years	0.00	4,200.00	2,100.00
6 Mbps			
Month-to-Month	795.00	6,000.00	3,000.00
One Year	0.00	5,750.00	2,875.00
Three Years	0.00	5,200.00	2,600.00
Five Years	0.00	4,800.00	2,400.00
10 Mbps			
Month-to-Month	795.00	6,650.00	3,325.00
One Year	0.00	6,360.00	3,180.00
Three Years	0.00	5,700.00	2,850.00
Five Years	0.00	5,300.00	2,650.00
22 Mbps			
Month-to-Month	795.00	7,000.00	3,500.00
One Year	0.00	6,700.00	3,350.00
Three Years	0.00	6,000.00	3,000.00
Five Years	0.00	5,600.00	2,800.00
44.736 Mbps			
Month-to-Month	795.00	7,500.00	3,750.00
One Year	0.00	7,100.00	3,550.00
Three Years	0.00	6,350.00	3,175.00
Five Years	0.00	5,900.00	2,950.00

[1] Applies in lieu of service charges found elsewhere in this Tariff or other Company Tariffs. (N)

Continued

ADVANCED COMPETITIVE SERVICES

G. FRAME RELAY SERVICE (FRS) - Continued

4. RATES - Continued

b. UNI Port Only [1], each

	Nonrecurring Charge [2]	Monthly Rate	
56 Kbps			
Month-to-Month	$ 150.00	$ 55.00	(I)
One Year	0.00	53.00	
Three Years	0.00	46.00	
Five Years	0.00	41.00	
128 Kbps			
Month-to-Month	150.00	97.00	
One Year	0.00	92.00	
Three Years	0.00	85.00	
Five Years	0.00	75.00	
256 Kbps			
Month-to-Month	150.00	152.00	
One Year	0.00	145.00	
Three Years	0.00	138.00	
Five Years	0.00	127.00	
384 Kbps			
Month-to-Month	150.00	193.00	
One Year	0.00	185.00	
Three Years	0.00	172.00	
Five Years	0.00	156.00	
1.536 Mbps			
Month-to-Month	295.00	297.00	
One Year	0.00	286.00	
Three Years	0.00	270.00	
Five Years	0.00	251.00	(I)

(T) (T)

1 Refer to III.B.2. for the rules and regulations associated with Port Only digital access facilities.
2 Applies in lieu of service charges found elsewhere in this Tariff or other Company Tariffs.

Continued

ADVANCED COMPETITIVE SERVICES

G. FRAME RELAY SERVICE (FRS) - Continued

4. RATES - Continued

b. UNI Port Only [1], each

	Nonrecurring Charge [2]	Maximum Monthly Rate	Current Monthly Rate	
56 Kbps				
Month-to-Month	$ 150.00	$ 84.00	$ 50.00	(I)
One Year	0.00	80.00	48.00	
Three Years	0.00	70.00	42.00	
Five Years	0.00	64.00	37.00	
128 Kbps				
Month-to-Month	150.00	150.00	88.00	
One Year	0.00	140.00	84.00	
Three Years	0.00	130.00	77.00	
Five Years	0.00	120.00	68.00	
256 Kbps				
Month-to-Month	150.00	230.00	138.00	
One Year	0.00	220.00	132.00	
Three Years	0.00	210.00	125.00	
Five Years	0.00	200.00	115.00	
384 Kbps				
Month-to-Month	150.00	300.00	175.00	
One Year	0.00	290.00	168.00	
Three Years	0.00	280.00	156.00	
Five Years	0.00	260.00	142.00	
1.536 Mbps				
Month-to-Month	295.00	450.00	270.00	
One Year	0.00	440.00	260.00	
Three Years	0.00	420.00	245.00	
Five Years	0.00	400.00	228.00	(I)

1 Refer to III.B.2. for the rules and regulations associated with Port Only digital access facilities.
2 Applies in lieu of service charges found elsewhere in this Tariff or other Company Tariffs.

Continued

ADVANCED COMPETITIVE SERVICES (N)

G. FRAME RELAY SERVICE (FRS) - Continued

4. RATES - Continued

b. UNI Port Only [1], each

	Nonrecurring Charge [2]	Maximum Monthly Rate	Current Monthly Rate
56 Kbps			
Month-to-Month	$ 150.00	$ 84.00	$ 42.00
One Year	0.00	80.00	40.00
Three Years	0.00	70.00	35.00
Five Years	0.00	64.00	32.00
128 Kbps			
Month-to-Month	150.00	150.00	75.00
One Year	0.00	140.00	70.00
Three Years	0.00	130.00	65.00
Five Years	0.00	120.00	60.00
256 Kbps			
Month-to-Month	150.00	230.00	115.00
One Year	0.00	220.00	110.00
Three Years	0.00	210.00	105.00
Five Years	0.00	200.00	100.00
384 Kbps			
Month-to-Month	150.00	300.00	150.00
One Year	0.00	290.00	145.00
Three Years	0.00	280.00	140.00
Five Years	0.00	260.00	130.00
1.536 Mbps			
Month-to-Month	295.00	450.00	225.00
One Year	0.00	440.00	220.00
Three Years	0.00	420.00	210.00
Five Years	0.00	400.00	200.00

1 Refer to III.B.2. for the rules and regulations associated with Port Only digital access facilities.
2 Applies in lieu of service charges found elsewhere in this Tariff or other Company Tariffs. (N)

Continued

ADVANCED COMPETITIVE SERVICES

G. FRAME RELAY SERVICE (FRS) - Continued

4. RATES - Continued

b. UNI Port Only [1], each - Continued

	Nonrecurring Charge [2]	Monthly Rate	
4 Mbps			(T)
Month-to-Month	$ 395.00	$ 963.00	(I)
One Year	0.00	908.00	
Three Years	0.00	836.00	
Five Years	0.00	770.00	
6 Mbps			
Month-to-Month	395.00	990.00	
One Year	0.00	935.00	
Three Years	0.00	853.00	
Five Years	0.00	798.00	
10 Mbps			
Month-to-Month	395.00	1,018.00	
One Year	0.00	963.00	
Three Years	0.00	880.00	
Five Years	0.00	825.00	
22 Mbps			
Month-to-Month	395.00	1,045.00	
One Year	0.00	990.00	
Three Years	0.00	908.00	
Five Years	0.00	853.00	
44.736 Mbps			
Month-to-Month	395.00	1,100.00	
One Year	0.00	1,018.00	
Three Years	0.00	963.00	
Five Years	0.00	880.00	(I) (T)

1 Refer to III.B.2. for the rules and regulations associated with Port Only digital access facilities.
2 Applies in lieu of service charges found elsewhere in this Tariff or other Company Tariffs.

Continued

ADVANCED COMPETITIVE SERVICES

G. FRAME RELAY SERVICE (FRS) - Continued

4. RATES - Continued

b. UNI Port Only [1], each - Continued

	Nonrecurring Charge [2]	Maximum Monthly Rate	Current Monthly Rate	
4 Mbps				
Month-to-Month	$ 395.00	$ 1,580.00	$ 875.00	(I)
One Year	0.00	1,460.00	825.00	
Three Years	0.00	1,300.00	760.00	
Five Years	0.00	1,220.00	700.00	
6 Mbps				
Month-to-Month	395.00	1,620.00	900.00	
One Year	0.00	1,500.00	850.00	
Three Years	0.00	1,320.00	775.00	
Five Years	0.00	1,240.00	725.00	
10 Mbps				
Month-to-Month	395.00	1,680.00	925.00	
One Year	0.00	1,540.00	875.00	
Three Years	0.00	1,340.00	800.00	
Five Years	0.00	1,260.00	750.00	
22 Mbps				
Month-to-Month	395.00	1,740.00	950.00	
One Year	0.00	1,580.00	900.00	
Three Years	0.00	1,360.00	825.00	
Five Years	0.00	1,280.00	775.00	
44.736 Mbps				
Month-to-Month	395.00	1,800.00	1,000.00	
One Year	0.00	1,620.00	925.00	
Three Years	0.00	1,380.00	875.00	
Five Years	0.00	1,300.00	800.00	(I)

[1] Refer to III.B.2. for the rules and regulations associated with Port Only digital access facilities.
[2] Applies in lieu of service charges found elsewhere in this Tariff or other Company Tariffs.

Continued

ADVANCED COMPETITIVE SERVICES (N)

G. FRAME RELAY SERVICE (FRS) - Continued

4. RATES - Continued

b. UNI Port Only [1], each - Continued

	Nonrecurring Charge [2]	Maximum Monthly Rate	Current Monthly Rate
4 Mbps			
Month-to-Month	$ 395.00	$ 1,580.00	$ 790.00
One Year	0.00	1,460.00	730.00
Three Years	0.00	1,300.00	650.00
Five Years	0.00	1,220.00	610.00
6 Mbps			
Month-to-Month	395.00	1,620.00	810.00
One Year	0.00	1,500.00	750.00
Three Years	0.00	1,320.00	660.00
Five Years	0.00	1,240.00	620.00
10 Mbps			
Month-to-Month	395.00	1,680.00	840.00
One Year	0.00	1,540.00	770.00
Three Years	0.00	1,340.00	670.00
Five Years	0.00	1,260.00	630.00
22 Mbps			
Month-to-Month	395.00	1,740.00	870.00
One Year	0.00	1,580.00	790.00
Three Years	0.00	1,360.00	680.00
Five Years	0.00	1,280.00	640.00
44.736 Mbps			
Month-to-Month	395.00	1,800.00	900.00
One Year	0.00	1,620.00	810.00
Three Years	0.00	1,380.00	690.00
Five Years	0.00	1,300.00	650.00

[1] Refer to III.B.2. for the rules and regulations associated with Port Only digital access facilities.
[2] Applies in lieu of service charges found elsewhere in this Tariff or other Company Tariffs. (N)

Continued

ADVANCED COMPETITIVE SERVICES

G. FRAME RELAY SERVICE (FRS) - Continued

4. RATES

c. NNI Port Only [1], each

	Nonrecurring Charge [2]	Monthly Rate		
384Kbps				(T)
Month-to-Month	$150.00	$ 193.00	(I)	
One Year	0.00	185.00		
Three Years	0.00	172.00		
Five Years	0.00	156.00		
1.536 Mbps				
Month-to-Month	295.00	297.00		
One Year	0.00	286.00		
Three Years	0.00	270.00		
Five Years	0.00	251.00		
44.736 Mbps				
Month-to-Month	395.00	1,100.00		
One Year	0.00	1,018.00		
Three Years	0.00	908.00		
Five Years	0.00	880.00	(I)	(T)

1 Refer to III.B.2. for the rules and regulations associated with Port Only digital access facilities.
2 Applies in lieu of service charges found elsewhere in the Tariff or other Company Tariffs.

Continued

ADVANCED COMPETITIVE SERVICES

G. FRAME RELAY SERVICE (FRS) - Continued

4. RATES

c. NNI Port Only [1], each

	Nonrecurring Charge [2]	Maximum Monthly Rate	Current Monthly Rate	
384Kbps				
Month-to-Month	$150.00	$ 300.00	$ 175.00	(I)
One Year	0.00	290.00	168.00	
Three Years	0.00	280.00	156.00	
Five Years	0.00	260.00	142.00	
1.536 Mbps				
Month-to-Month	295.00	450.00	270.00	
One Year	0.00	440.00	260.00	
Three Years	0.00	420.00	245.00	
Five Years	0.00	400.00	228.00	
44.736 Mbps				
Month-to-Month	395.00	1,800.00	1,000.00	
One Year	0.00	1,620.00	925.00	
Three Years	0.00	1,380.00	825.00	
Five Years	0.00	1,300.00	800.00	(I)

1 Refer to III.B.2. for the rules and regulations associated with Port Only digital access facilities.
2 Applies in lieu of service charges found elsewhere in the Tariff or other Company Tariffs.

Continued

ADVANCED COMPETITIVE SERVICES (N)

G. FRAME RELAY SERVICE (FRS) - Continued

4. RATES

c. NNI Port Only [1], each

	Nonrecurring Charge [2]	Maximum Monthly Rate	Current Monthly Rate
384Kbps			
Month-to-Month	$150.00	$ 300.00	$ 150.00
One Year	0.00	290.00	145.00
Three Years	0.00	280.00	140.00
Five Years	0.00	260.00	130.00
1.536 Mbps			
Month-to-Month	295.00	450.00	225.00
One Year	0.00	440.00	220.00
Three Years	0.00	420.00	210.00
Five Years	0.00	400.00	200.00
44.736 Mbps			
Month-to-Month	395.00	1,800.00	900.00
One Year	0.00	1,620.00	810.00
Three Years	0.00	1,380.00	690.00
Five Years	0.00	1,300.00	650.00

1 Refer to III.B.2. for the rules and regulations associated with Port Only digital access facilities.
2 Applies in lieu of service charges found elsewhere in the Tariff or other Company Tariffs. (N)

Continued

ADVANCED COMPETITIVE SERVICES

G. FRAME RELAY SERVICE (FRS) - Continued

4. RATES - Continued

d. PVC CIR, per PVC

(1) Intrazone

	Monthly Rate	
4 Kbps	$ 4.00	
8 Kbps	6.00	(I)
16 Kbps	7.00	
28 Kbps	8.00	
32 Kbps	9.00	
42 Kbps	12.00	
48 Kbps	14.00	
64 Kbps	17.00	
96 Kbps	24.00	
128 Kbps	30.00	
192 Kbps	40.00	
256 Kbps	46.00	
288 Kbps	53.00	
384 Kbps	59.00	
512 Kbps	66.00	
576 Kbps	72.00	
768 Kbps	77.00	
1152 Kbps	88.00	
1536 Kbps	99.00	(I)

(T)

(T)

Continued

ADVANCED COMPETITIVE SERVICES (N)

G. FRAME RELAY SERVICE (FRS) - Continued

4. RATES - Continued

d. PVC CIR, per PVC

(1) Intrazone

	Maximum Monthly Rate	Current Monthly Rate
4 Kbps	$ 8.00	$ 4.00
8 Kbps	10.00	5.00
16 Kbps	12.00	6.00
28 Kbps	14.00	7.00
32 Kbps	16.00	8.00
42 Kbps	22.00	11.00
48 Kbps	26.00	13.00
64 Kbps	30.00	15.00
96 Kbps	44.00	22.00
128 Kbps	54.00	27.00
192 Kbps	75.00	36.00
256 Kbps	84.00	42.00
288 Kbps	96.00	48.00
384 Kbps	108.00	54.00
512 Kbps	120.00	60.00
576 Kbps	130.00	65.00
768 Kbps	140.00	70.00
1152 Kbps	160.00	80.00
1536 Kbps	180.00	90.00 (N)

Continued

ADVANCED COMPETITIVE SERVICES

G. FRAME RELAY SERVICE (FRS) - Continued

4. RATES - Continued

d. PVC CIR, per PVC - Continued

(1) Intrazone - Continued

	Monthly Rate	
2 Mbps	$ 105.00	(I)
3 Mbps	110.00	
4 Mbps	132.00	
5 Mbps	156.00	
6 Mbps	180.00	
7 Mbps	205.00	
8 Mbps	228.00	
9 Mbps	252.00	
10 Mbps	275.00	
11 Mbps	293.00	
12 Mbps	310.00	
13 Mbps	328.00	
14 Mbps	345.00	
15 Mbps	363.00	
16 Mbps	381.00	
17 Mbps	398.00	
18 Mbps	416.00	
19 Mbps	433.00	
20 Mbps	451.00	
21 Mbps	469.00	
22 Mbps	486.00	(I)

(T)

(T)

(2) Multi-jurisdictional [1]

[1] A Multi-jurisdictional PVC falls under federal jurisdiction and the PVC CIR rates, rules and regulations from the Verizon Telephone Companies FCC Tariff No. 20 are applicable.

Continued

ADVANCED COMPETITIVE SERVICES (N)

G. FRAME RELAY SERVICE (FRS) - Continued

4. RATES - Continued

d. PVC CIR, per PVC - Continued

(1) Intrazone - Continued

	Maximum Monthly Rate	Current Monthly Rate
2 Mbps	$ 190.00	$ 95.00
3 Mbps	200.00	100.00
4 Mbps	240.00	120.00
5 Mbps	284.00	142.00
6 Mbps	328.00	164.00
7 Mbps	372.00	186.00
8 Mbps	414.00	207.00
9 Mbps	458.00	229.00
10 Mbps	500.00	250.00
11 Mbps	532.00	266.00
12 Mbps	564.00	282.00
13 Mbps	596.00	298.00
14 Mbps	628.00	314.00
15 Mbps	660.00	330.00
16 Mbps	692.00	346.00
17 Mbps	724.00	362.00
18 Mbps	756.00	378.00
19 Mbps	788.00	394.00
20 Mbps	820.00	410.00
21 Mbps	852.00	426.00
22 Mbps	884.00	442.00

(2) Multi-jurisdictional [1]

[1] A Multi-jurisdictional PVC falls under federal jurisdiction and the PVC CIR rates, rules and regulations from the Verizon Telephone Companies FCC Tariff No. 20 are applicable. (N)

Continued

ADVANCED COMPETITIVE SERVICES

G. FRAME RELAY SERVICE (FRS) - Continued

4. RATES - Continued

d. PVC CIR, per PVC - Continued

(3) Public NNI

(T)

	Monthly Rate
4 Kbps	$ 14.00
8 Kbps	15.00
16 Kbps	16.00
28 Kbps	17.00
32 Kbps	18.00
42 Kbps	21.00
48 Kbps	23.00
64 Kbps	25.00
96 Kbps	30.00
128 Kbps	35.00
192 Kbps	40.00
256 Kbps	50.00
288 Kbps	55.00
384 Kbps	60.00
512 Kbps	70.00
576 Kbps	75.00
768 Kbps	80.00
1152 Kbps	90.00
1536 Kbps	105.00

(T)

Continued

ADVANCED COMPETITIVE SERVICES (N)

G. FRAME RELAY SERVICE (FRS) - Continued

4. RATES - Continued

d. PVC CIR, per PVC - Continued

(3) Public NNI

	Maximum Monthly Rate	Current Monthly Rate
4 Kbps	$ 28.00	$ 14.00
8 Kbps	30.00	15.00
16 Kbps	32.00	16.00
28 Kbps	34.00	17.00
32 Kbps	36.00	18.00
42 Kbps	42.00	21.00
48 Kbps	46.00	23.00
64 Kbps	50.00	25.00
96 Kbps	60.00	30.00
128 Kbps	70.00	35.00
192 Kbps	80.00	40.00
256 Kbps	100.00	50.00
288 Kbps	110.00	55.00
384 Kbps	120.00	60.00
512 Kbps	140.00	70.00
576 Kbps	150.00	75.00
768 Kbps	160.00	80.00
1152 Kbps	180.00	90.00
1536 Kbps	210.00	105.00 (N)

Continued

ADVANCED COMPETITIVE SERVICES

G. FRAME RELAY SERVICE (FRS) - Continued

4. RATES

d. PVC CIR, per PVC - Continued

(3) Public NNI - Continued

(T)

	Monthly Rate
2 Mbps	$ 115.00
3 Mbps	125.00
4 Mbps	135.00
5 Mbps	160.00
6 Mbps	185.00
7 Mbps	210.00
8 Mbps	235.00
9 Mbps	260.00
10 Mbps	285.00
11 Mbps	310.00
12 Mbps	335.00
13 Mbps	360.00
14 Mbps	385.00
15 Mbps	410.00
16 Mbps	430.00
17 Mbps	450.00
18 Mbps	470.00
19 Mbps	490.00
20 Mbps	510.00
21 Mbps	530.00
22 Mbps	550.00

(T)

Continued

ADVANCED COMPETITIVE SERVICES (N)

G. FRAME RELAY SERVICE (FRS) - Continued

4. RATES

d. PVC CIR, per PVC - Continued

(3) Public NNI - Continued

	Maximum Monthly Rate	Current Monthly Rate	
2 Mbps	$ 230.00	$ 115.00	
3 Mbps	250.00	125.00	
4 Mbps	270.00	135.00	
5 Mbps	320.00	160.00	
6 Mbps	370.00	185.00	
7 Mbps	420.00	210.00	
8 Mbps	470.00	235.00	
9 Mbps	520.00	260.00	
10 Mbps	570.00	285.00	
11 Mbps	620.00	310.00	
12 Mbps	670.00	335.00	
13 Mbps	720.00	360.00	
14 Mbps	770.00	385.00	
15 Mbps	820.00	410.00	
16 Mbps	860.00	430.00	
17 Mbps	900.00	450.00	
18 Mbps	940.00	470.00	
19 Mbps	980.00	490.00	
20 Mbps	1,020.00	510.00	
21 Mbps	1,060.00	530.00	
22 Mbps	1,100.00	550.00	(N)

Continued

ADVANCED COMPETITIVE SERVICES

G. FRAME RELAY SERVICE (FRS) - Continued

4. RATES - Continued

e. PVC CIR Optional Features, per PVC

(1) Interzone Transport [1]

(T)

	Monthly Rate
4 Kbps	$ 13.00
8 Kbps	14.00
16 Kbps	15.00
28 Kbps	16.00
32 Kbps	17.00
42 Kbps	20.00
48 Kbps	25.00
64 Kbps	30.00
96 Kbps	38.00
128 Kbps	43.00
192 Kbps	59.00
256 Kbps	73.00
288 Kbps	82.00
384 Kbps	91.00
512 Kbps	110.00
576 Kbps	115.00
768 Kbps	125.00
1152 Kbps	145.00
1536 Kbps	160.00

(T)

[1] The monthly rate applies in addition to applicable rates for Intrazone PVC CIR.

Continued

ADVANCED COMPETITIVE SERVICES (N)

G. FRAME RELAY SERVICE (FRS) - Continued

4. RATES - Continued

e. PVC CIR Optional Features, per PVC

(1) Interzone Transport [1]

	Maximum Monthly Rate	Current Monthly Rate
4 Kbps	$ 26.00	$ 13.00
8 Kbps	28.00	14.00
16 Kbps	30.00	15.00
28 Kbps	32.00	16.00
32 Kbps	34.00	17.00
42 Kbps	40.00	20.00
48 Kbps	50.00	25.00
64 Kbps	60.00	30.00
96 Kbps	76.00	38.00
128 Kbps	86.00	43.00
192 Kbps	118.00	59.00
256 Kbps	146.00	73.00
288 Kbps	164.00	82.00
384 Kbps	182.00	91.00
512 Kbps	220.00	110.00
576 Kbps	230.00	115.00
768 Kbps	250.00	125.00
1152 Kbps	290.00	145.00
1536 Kbps	320.00	160.00

[1] The monthly rate applies in addition to applicable rates for Intrazone PVC CIR. (N)

Continued

ADVANCED COMPETITIVE SERVICES

G. FRAME RELAY SERVICE (FRS) - Continued

4. RATES - Continued

e. PVC CIR Optional Features, per PVC

(1) Interzone Transport [1]

(T)

	Monthly Rate
2 Mbps	$ 180.00
3 Mbps	195.00
4 Mbps	205.00
5 Mbps	243.00
6 Mbps	286.00
7 Mbps	329.00
8 Mbps	373.00
9 Mbps	416.00
10 Mbps	460.00
11 Mbps	502.00
12 Mbps	544.00
13 Mbps	586.00
14 Mbps	628.00
15 Mbps	670.00
16 Mbps	704.00
17 Mbps	738.00
18 Mbps	772.00
19 Mbps	806.00
20 Mbps	840.00
21 Mbps	869.00
22 Mbps	898.00

(T)

(2) Frame Relay to ATM Service Interworking — No Charge

[1] The monthly rate applies in addition to applicable rates for Intrazone PVC CIR.

Continued

ADVANCED COMPETITIVE SERVICES (N)

G. FRAME RELAY SERVICE (FRS) - Continued

4. RATES - Continued

e. PVC CIR Optional Features, per PVC

(1) Interzone Transport [1]

	Maximum Monthly Rate	Current Monthly Rate
2 Mbps	$ 360.00	$ 180.00
3 Mbps	390.00	195.00
4 Mbps	410.00	205.00
5 Mbps	486.00	243.00
6 Mbps	572.00	286.00
7 Mbps	658.00	329.00
8 Mbps	746.00	373.00
9 Mbps	832.00	416.00
10 Mbps	920.00	460.00
11 Mbps	1,004.00	502.00
12 Mbps	1,088.00	544.00
13 Mbps	1,172.00	586.00
14 Mbps	1,256.00	628.00
15 Mbps	1,340.00	670.00
16 Mbps	1,408.00	704.00
17 Mbps	1,476.00	738.00
18 Mbps	1,544.00	772.00
19 Mbps	1,612.00	806.00
20 Mbps	1,680.00	840.00
21 Mbps	1,738.00	869.00
22 Mbps	1,796.00	898.00

(2) Frame Relay to ATM Service Interworking — No Charge

[1] The monthly rate applies in addition to applicable rates for Intrazone PVC CIR. (N)

Continued

ADVANCED COMPETITIVE SERVICES (N)

G. FRAME RELAY SERVICE (FRS) - Continued

4. RATES - Continued

		Nonrecurring Charge [1]
f.	Subsequent PVC CIR Charge, per PVC CIR	$ 40.00
g.	Backup UNI, Per Activation	200.00
h.	Software Change Charge, Per Order for UNI or Private NNI	40.00

[1] Applies in lieu of service charges found elsewhere in the Tariff or other Company Tariffs. (N)

Continued

ADVANCED COMPETITIVE SERVICES

H. VERIZON DEDICATED SONET RING (DSR)

1. APPLICATION

This section contains definitions, regulations and charges applicable to the provision of Dedicated SONET Ring (DSR) Service furnished by the Utility within the State of California, where conditions and facilities permit.

In addition to the terms and conditions set forth in this tariff, DSR is also subject to the provisions of tariff Schedule Cal. P.U.C. No. C-1, except that, in the event of conflict, the provisions of this tariff shall take precedence. DSR may be resold but no resale discount from the Utility shall be required or shall apply.

Verizon Dedicated SONET Ring (DSR) is available where facilities and conditions permit in all existing Verizon exchanges as listed in Schedule Cal. P.U.C. No. AB, Sheets 1 and 2. The Utility concurs in all of the maps filed as part of Southwestern Bell Communications (SBC) Network and Exchange Services tariff, Schedule Cal. P.U.C. No. A5.1.A.

2. DEFINITIONS

In addition to the General Definitions set forth in Schedule Cal. P.U.C. No. D&R, the following definitions apply:

Add/Drop Multiplexing, (ADM) - a multiplexing function that allows lower level signals to be added or dropped from an optical carrier channel.

Node - a DSR rate element and a designation of either a customer location or CO on a SONET ring that has ADM capability. It is also the address of where a lower speed service originates or terminates on a ring.

Fiber Path Diversity - the provision of service using at least two fibers placed on physically separate paths, i.e., different conduit runs that do not pass through the same manhole(s). The cable paths are separated by at least 25 feet.

GigE - an Ethernet circuit offered at the port level over DSR. Ethernet frames are mapped into STS1, STS-N, STS-Nv or STS-Nc SONET frames.

GigE Channel	Transport Bandwidth	Approximate Throughput	Effective SONET Payload Capacity	(L)	(N)
GigE-1	(1) STS1 or STS1-1v	50 Mbps	49.536 Mbps		
GigE-3	(1) STS-3 or STS1-3v	150 Mbps	149.760 Mbps		
GigE-6	(1) STS-6 or STS1-6v	300 Mbps	299.520 Mbps		
GigE-9	(1) STS-9 or STS1-9v	450 Mbps	449.280 Mbps		
GigE-12	(1) STS-12 or STS1-12v	600 Mbps	599.040 Mbps		
GigE-24	(1) STS1-21v	1000 Mbps	984.960 Mbps		
GigE-24	(1) STS-24	1000 Mbps	1,198.080 Mbps	(L)	(N)

(L) Material formerly on this sheet moved to 1st Revised Sheet 100.

Continued

ADVANCED COMPETITIVE SERVICES (N)

H. VERIZON DEDICATED SONET RING (DSR)

1. APPLICATION

This section contains definitions, regulations and charges applicable to the provision of Dedicated SONET Ring (DSR) Service furnished by the Utility within the State of California, where conditions and facilities permit.

In addition to the terms and conditions set forth in this tariff, DSR is also subject to the provisions of tariff Schedule Cal. P.U.C. No. C-1, except that, in the event of conflict, the provisions of this tariff shall take precedence. DSR may be resold but no resale discount from the Utility shall be required or shall apply.

Verizon Dedicated SONET Ring (DSR) is available where facilities and conditions permit in all existing Verizon exchanges as listed in Schedule Cal. P.U.C. No. AB, Sheets 1 and 2. The Utility concurs in all of the maps filed as part of Southwestern Bell Communications (SBC) Network and Exchange Services tariff, Schedule Cal. P.U.C. No. A5.1.A.

2. DEFINITIONS

In addition to the General Definitions set forth in Schedule Cal. P.U.C. No. D&R, the following definitions apply:

Add/Drop Multiplexing, (ADM) - a multiplexing function that allows lower level signals to be added or dropped from an optical carrier channel.

Node - a DSR rate element and a designation of either a customer location or CO on a SONET ring that has ADM capability. It is also the address of where a lower speed service originates or terminates on a ring.

Fiber Path Diversity - the provision of service using at least two fibers placed on physically separate paths, i.e., different conduit runs that do not pass through the same manhole(s). The cable paths are separated by at least 25 feet.

GigE - an Ethernet circuit offered at the port level over DSR. Ethernet frames are mapped into STS1, STS-N, STS-Nv or STS-Nc SONET frames.

Optical Carrier Rate, (OC #) - a SONET transmission signal/speed, line rate, or service. The rates are in multiples of an OC1, which is equivalent to a STS1 (51.84 Mbps), SONET's basic rate.

OC(#) Rate	Bandwidth Capacity
3	155.52 Mbps
12	622.08 Mbps
48	2.488 Gbps
192	9.952 Gbps

(N)

Continued

ADVANCED COMPETITIVE SERVICES

H. VERIZON DEDICATED SONET RING (DSR) - Continued

2. DEFINITIONS - Continued

Optical Carrier Rate, (OC #) - a SONET transmission signal/speed, line rate, or service. The rates are in multiples of an OC1, which is equivalent to a STS1 (51.84 Mbps), SONET's basic rate. (L)

OC(#) Rate	Bandwidth Capacity
3	155.52 Mbps
12	622.08 Mbps
48	2.488 Gbps
192	9.952 Gbps

(L)

Optical Carrier Rate Concatenated (OC#c) - a "clear channel" SONET transmission using only one framing format. Generally, an OC3 signal provides three STS1 frame formats with 3 overheads for a total capacity of 2268 bytes per Synchronous Payload Envelope (SPE) frame. For example, in an OC3c signal, one STS3c frame format is used with one overhead, increasing the total payload capacity to 2340 bytes per SPE frame.

DSR Port (Port) - a DSR rate element that denotes the interface at which a lower speed service terminates or originates at a DSR node. The port charge applies both at the entrance to and the exit from the ring.

Port Node - An arrangement on a DSR that interconnects the main DSR ring with a subtending DSR ring. (N)

Subtending Ring - A DSR service that subtends (interconnects with) a DSR main ring. (N)

Synchronous Optical Network (SONET) - an international standard for the transmission of high capacity bandwidth over optical facilities. This synchronous transmission platform utilizes a modular multiplexing approach. Because of the large bandwidth, some of the payload is used to monitor, protect, manage and improve the transmission of the signal.

Synchronous Transport Signal Level (STS1) - a 51.84 Mbps signal that is the electrical equivalent of the OC1 or a DS3 with additional Mbps devoted to SONET overhead information. An STS1 can carry a DS3 or 28 DS1s when specifically formatted (mapped). These DS1s may be accessed off-ring using the tariffed DS3 to DS1 multiplexing optional service or via a DS3 Transmux port.

Transmuxing - the function of a DSR DS3 Transmux port that performs a DS3 to DS1 conversion at a DSR Node. The DS3 to DS1 conversion allows a single DSR DS3 Transmux port to be associated with up to twenty-eight (28) VT1.5 mapped DSR DS1 ports. Transmuxing within the DSR network retains DS1 visibility, allowing for proactive maintenance capability of DS1 signals.

Virtual Tributary (VT) - a SONET structure designed for transport of sub-STS1 payloads. A DS1 is mapped into the SONET format using a VT1.5 as a packaging mechanism that is internal to the SONET signal.

(L) Material moved from 1st Revised Sheet 99.

Continued

ADVANCED COMPETITIVE SERVICES (N)

H. VERIZON DEDICATED SONET RING (DSR) - Continued

2. DEFINITIONS - Continued

Optical Carrier Rate Concatenated (OC#c) - a "clear channel" SONET transmission using only one framing format. Generally, an OC3 signal provides three STS1 frame formats with 3 overheads for a total capacity of 2268 bytes per Synchronous Payload Envelope (SPE) frame. For example, in an OC3c signal, one STS3c frame format is used with one overhead, increasing the total payload capacity to 2340 bytes per SPE frame.

DSR Port (Port) - a DSR rate element that denotes the interface at which a lower speed service terminates or originates at a DSR node. The port charge applies both at the entrance to and the exit from the ring.

Synchronous Optical Network (SONET) - an international standard for the transmission of high capacity bandwidth over optical facilities. This synchronous transmission platform utilizes a modular multiplexing approach. Because of the large bandwidth, some of the payload is used to monitor, protect, manage and improve the transmission of the signal.

Synchronous Transport Signal Level (STS1) - a 51.84 Mbps signal that is the electrical equivalent of the OC1 or a DS3 with additional Mbps devoted to SONET overhead information. An STS1 can carry a DS3 or 28 DS1s when specifically formatted (mapped). These DS1s may be accessed off-ring using the tariffed DS3 to DS1 multiplexing optional service or via a DS3 Transmux port.

Transmuxing - the function of a DSR DS3 Transmux port that performs a DS3 to DS1 conversion at a DSR Node. The DS3 to DS1 conversion allows a single DSR DS3 Transmux port to be associated with up to twenty-eight (28) VT1.5 mapped DSR DS1 ports. Transmuxing within the DSR network retains DS1 visibility, allowing for proactive maintenance capability of DS1 signals.

Virtual Tributary (VT) - a SONET structure designed for transport of sub-STS1 payloads. A DS1 is mapped into the SONET format using a VT1.5 as a packaging mechanism that is internal to the SONET signal. (N)

Continued

ADVANCED COMPETITIVE SERVICES

H. VERIZON DEDICATED SONET RING (DSR) - Continued

3. REGULATIONS

a. Description of Service

Verizon Dedicated SONET Ring (DSR) is an optical high-capacity service using SONET-based technology.

DSR provides the customer a dedicated, high-capacity customized network. The network is a ring architecture that provides connectivity to multiple customer locations. Full rings may subtend (interconnect with) each other as described in H.3.c.(2) following. (N) (N)

A full ring must have a minimum of three nodes. At least one of the nodes must be located in a Utility Central Office (CO) and one at a customer premises. The fiber path is such that when traversing the ring, the starting node and the end node are the same.

DSR is an alternative to basic High Capacity point-to-point service between multiple customer locations. Monthly rate elements include ports, nodes, mileage and optional features (e.g., Customer Network Management capabilities). Rates are specified in Section H.4 following.

b. Technical Specifications

Technical specifications are delineated in the following publications:

- Telcordia Document GR-253-CORE; Issue 2, December 1995; Revision 1, December 1997 "Synchronous Optical Network (SONET) Transport Systems: Common Generic Criteria;"

- Telcordia Document GR-1374-CORE; Issue 1, December 1994; "SONET Inter-Carrier Interface Physical Layer Generic Criteria for Carriers;"

- American National Standard, ANSI T1.105-1995; "Synchronous Optical Network (SONET) - Basic Description including Multiplex Structure, Rates and Formats;"

- Telcordia Document GR-1377-CORE; Issue 5, December 1998; “SONET OC192 Transport System Generic Criteria;”

- American National Standard, ANSI X3.802.3, Telecommunications and information exchange between systems-Local and Metropolitan Areas Networks-Specific Requirements-Part 3, Released 1998; and,

- American National Standard, ANSI X3.802.3z, Supplement to Standard for Information Technology-Local and Metropolitan Area Networks, Part 3, Released 1998.

Continued

ADVANCED COMPETITIVE SERVICES (N)

H. VERIZON DEDICATED SONET RING (DSR) - Continued

3. REGULATIONS

a. Description of Service

Verizon Dedicated SONET Ring (DSR) is an optical high-capacity service using SONET-based technology.

DSR provides the customer a dedicated, high-capacity customized network. The network is a ring architecture that provides connectivity to multiple customer locations.

A full ring must have a minimum of three nodes. At least one of the nodes must be located in a Utility Central Office (CO) and one at a customer premises. The fiber path is such that when traversing the ring, the starting node and the end node are the same.

DSR is an alternative to basic High Capacity point-to-point service between multiple customer locations. Monthly rate elements include ports, nodes, mileage and optional features (e.g., Customer Network Management capabilities). Rates are specified in Section H.4 following.

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- American National Standard, ANSI X3.802.3, Telecommunications and information exchange between systems-Local and Metropolitan Areas Networks-Specific Requirements-Part 3, Released 1998; and,

- American National Standard, ANSI X3.802.3z, Supplement to Standard for Information Technology-Local and Metropolitan Area Networks, Part 3, Released 1998. (N)

Continued

ADVANCED COMPETITIVE SERVICES

H. VERIZON DEDICATED SONET RING (DSR) - Continued

3. REGULATIONS - Continued

c. Provision of Service

(1) All Rings

When a customer premises node is located in the same building as a Central Office node, there may not be diversity between the two nodes.

Generally, a transmission of twenty (20) or more miles or a transmission through six (6) or more COs will be subject to loss of signal integrity. Additional nodes may be added to maintain signal integrity.

The customer specifies the ring capacity in terms of optical carrier rates. DSR is available in capacities of OC3, OC12, OC48 and OC192. Lower speed services are provided between nodes via ports.

DSR is deployed upon customer request, and is available based on negotiated installation intervals. Where suitable SONET facilities are not available, Special Construction rates and charges may apply.

The customer must provide, at no cost to the Utility, suitable and secure space, suitable environmental conditions**,** and uninterrupted power supply, building entrance facilities, and conduit for placement of the facilities and network equipment at its locations as necessary to provide the service.

The customer will be billed additional charges for any charges levied to the Utility for space and power required to place ADMs on the Utility's side of the network interface.

The customer may provide a single node and associated port equipment at one of its premises subject to compatibility with the Utility's equipment in the COs. This compatibility requires that the customer, at its own expense, uses matching vendor's equipment and maintains the same vintage in software release as the Utility. Upon written notification from the Utility, the customer has 60 days in which to complete the change out of software. In addition, the customer must configure the node to limit access to the data communications channel of the node. (N) (L)

The Utility cannot ensure the performance monitoring of the ring when it is equipped with customer provided nodes. (L) (N)

One or more lower speed node(s) may subtend a higher speed node (e.g., an OC12 node may subtend an OC192 node). Rates and charges apply for both the higher speed node and for each subtending lower speed node provided. Additionally, the appropriate port charge will apply to connect the higher speed node to the subtending lower speed node.

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(L) Material formerly on this sheet moved to Original Sheet 102.1.

Continued

ADVANCED COMPETITIVE SERVICES (N)

H. VERIZON DEDICATED SONET RING (DSR) - Continued

3. REGULATIONS - Continued

c. Provision of Service

(1) All Rings

When a customer premises node is located in the same building as a Central Office node, there may not be diversity between the two nodes.

Generally, a transmission of twenty (20) or more miles or a transmission through six (6) or more COs will be subject to loss of signal integrity. Additional nodes may be added to maintain signal integrity.

The customer specifies the ring capacity in terms of optical carrier rates. DSR is available in capacities of OC3, OC12, OC48 and OC192. Lower speed services are provided between nodes via ports.

DSR is deployed upon customer request, and is available based on negotiated installation intervals. Where suitable SONET facilities are not available, Special Construction rates and charges may apply.

The customer must provide, at no cost to the Utility, suitable and secure space, suitable environmental conditions**,** and uninterrupted power supply, building entrance facilities, and conduit for placement of the facilities and network equipment at its locations as necessary to provide the service.

The customer will be billed additional charges for any charges levied to the Utility for space and power required to place ADMs on the Utility's side of the network interface.

One or more lower speed node(s) may subtend a higher speed node (e.g., an OC12 node may subtend an OC192 node). Rates and charges apply for both the higher speed node and for each subtending lower speed node provided. Additionally, the appropriate port charge will apply to connect the higher speed node to the subtending lower speed node.

When High Capacity DS1 and DS3 services from Schedule Cal. P.U.C. No. C-1, or the Utility's FCC Tariffs No. 14 or No. 16, are connected to a DSR from an off-ring location, applicable port charges will be assessed in lieu of SALs for the on-ring portion of the circuit. The off-ring portion of the circuit will be covered by the applicable rates, terms and conditions of Schedule No. C-1, FCC No. 14 or FCC No. 16. The applicable rates, terms and conditions are based on the tariff jurisdiction of the circuit. (N)

Continued

ADVANCED COMPETITIVE SERVICES

H. VERIZON DEDICATED SONET RING (DSR) - Continued

3. REGULATIONS - Continued

c. Provision of Service

(1) All Rings- Continued

More than one lower speed enhanced node may subtend the same higher speed enhanced node. (N)

The connection between the higher and lower speed nodes is a SONET facility (Subtending Node Facility) between an OCn port on the higher speed node and the lower speed node. OCn ports arranged in this asymmetrical configuration are provided in accordance with H.3.c(2) following and must be of the same optical carrier rate as the OCn port on the higher speed node.

When the higher speed enhanced node is located at a customer designated premises, the subtending node(s) must be located at the same customer designated premises

When the higher speed enhanced node is located at a Utility wire center, the subtending node(s) may be located within that same wire center or extended to a customer designated premises that is served by that wire center or by a different wire center. When extending the subtending node to a customer designated premises, the SNF is subject to a channel extension charge. When the customer designated premises is not served by the same wire center where the higher speed enhanced node is located, mileage applies between the wire centers involved. Mileage applies in addition to the channel extension charge. (N)

When High Capacity DS1 and DS3 services from Schedule Cal. P.U.C. No. C-1, or the Utility's FCC Tariffs No. 14 or No. 16, are connected to a DSR from an off-ring location, applicable port charges will be assessed in lieu of SALs for the on-ring portion of the circuit. The off-ring portion of the circuit will be covered by the applicable rates, terms and conditions of Schedule No. C-1, FCC No. 14 or FCC No. 16. The applicable rates, terms and conditions are based on the tariff jurisdiction of the circuit. (L) (L)

(L) Material moved from 1st Revised Sheet 102.

Continued

ADVANCED COMPETITIVE SERVICES

H. VERIZON DEDICATED SONET RING (DSR) - Continued

3. REGULATIONS - Continued

c. Provision of Service - Continued

(1) All Rings - Continued

Ethernet services are provided on a point-to-point basis between two suitably equipped DSR nodes.

Connection of ethernet or optical private line services to a DSR will be provided on an Individual Case Basis (ICB). When connected to a DSR, such services will be charged as ports and will be subject to terms and conditions in Section H.3.c.(5) following.

When DSR is ordered under a meet point billing arrangement in which the Utility acts as an intermediate carrier as set forth in the Utility's FCC Tariff No. 14, at least one node of the DSR ring must be in a Utility central office.

The rates, terms and conditions contained in this tariff for the provision of DSR are applicable to customers whose interstate traffic on the service constitutes 10% or less of the total traffic on that service.

With the order for DSR service, the customer will provide to the Utility an estimate of whether the interstate traffic will comprise more than 10%, or less than 10% of total traffic. For existing services, the Utility will ask the customer to provide the data the customer uses to determine the percentages of the jurisdiction of their services. See Schedule Cal. P.U.C. No. C-1, Section VI for conditions.

If the customer's estimate of the interstate traffic on the service involved constitutes more than 10% of the total traffic on that service, the service will be provided in accordance with the applicable rules and regulations of the appropriate interstate tariff.

The facilites for intrastate access provided under this tariff shall be maintained by the Utility. The customer or others may not rearrange, move, disconnect, remove or attempt to repair any facilites for intrastate access provided by the Utility, other than by connection or disconnection to any interface means used, except with the written consent of the Utility.

(2) Subtending Rings (N)

The customer may interconnect two or more full rings in a subtending ring configuration subject to the following: (L)

(a) One of the DSR full rings must be designated as the main ring from which the other DSR full ring(s) will subtend. The main ring must be of equal or greater capacity than each DSR full ring that subtends the main ring. For example, a main ring that is an OC12 DSR can have an OC3 and/or OC12 subtending ring but cannot have an OC48 subtending ring. The number of rings that can subtend a main ring may be limited by the type and capacity of the nodes and port configuration specific to the customer's overall DSR service configuration. (L) (N)

(L) Material formerly on this sheet moved to Original Sheet 103.3.

Continued

ADVANCED COMPETITIVE SERVICES (N)

H. VERIZON DEDICATED SONET RING (DSR) - Continued

3. REGULATIONS - Continued

c. Provision of Service - Continued

(1) All Rings - Continued

Ethernet services are provided on a point-to-point basis between two suitably equipped DSR nodes.

Connection of ethernet or optical private line services to a DSR will be provided on an Individual Case Basis (ICB). When connected to a DSR, such services will be charged as ports and will be subject to terms and conditions in Section H.3.c.(3) following.

When DSR is ordered under a meet point billing arrangement in which the Utility acts as an intermediate carrier as set forth in the Utility's FCC Tariff No. 14, at least one node of the DSR ring must be in a Utility central office.

The rates, terms and conditions contained in this tariff for the provision of DSR are applicable to customers whose interstate traffic on the service constitutes 10% or less of the total traffic on that service.

With the order for DSR service, the customer will provide to the Utility an estimate of whether the interstate traffic will comprise more than 10%, or less than 10% of total traffic. For existing services, the Utility will ask the customer to provide the data the customer uses to determine the percentages of the jurisdiction of their services. See Schedule Cal. P.U.C. No. C-1, Section VI for conditions.

If the customer's estimate of the interstate traffic on the service involved constitutes more than 10% of the total traffic on that service, the service will be provided in accordance with the applicable rules and regulations of the appropriate interstate tariff.

The facilites for intrastate access provided under this tariff shall be maintained by the Utility. The customer or others may not rearrange, move, disconnect, remove or attempt to repair any facilites for intrastate access provided by the Utility, other than by connection or disconnection to any interface means used, except with the written consent of the Utility.

(2) Mileage

DSR Mileage on a full ring is the total of airline miles between nodes rounded up to the nearest mile.

The mileage rate is based on total ring capacity and not on individual services between nodes. For example, the mileage charge for a four-node OC3 ring with 5.1 miles between each node (20.4 total miles) would be calculated by multiplying the OC3 mileage rate by 21 miles. This mileage calculation applies regardless of the number of services (e.g., DS3s) on the ring. (N)

Continued

ADVANCED COMPETITIVE SERVICES

H. VERIZON DEDICATED SONET RING (DSR) - Continued

3. REGULATIONS - Continued

c. Provision of Service - Continued

(2) Subtending Rings - Continued (N)

(b) Interconnection between the main ring and the subtending ring requires a port node. A port node provides high speed interconnection between an enhanced node on the main ring and the high speed facilities of the subtending ring. Each subtending ring requires one port node where the subtending ring is interconnected to an enhanced node on the main ring. Interconnection between the main ring and a subtending ring may occur at a customer designated premises or within a Utility wire center where such nodes are located. A maximum of two (2) interconnection points with the main ring are allowed per subtending ring.

(c) Only DSR full rings that utilize suitably equipped enhanced nodes can be arranged in subtending ring configurations. DSR full rings that utilize nodes that are not enhanced will not be arranged in a subtending ring configuration(s).

(d) Each DSR full ring included in a subtending ring configuration must be arranged as a unidirectional path switched ring (UPSR) and must use nodes that are enhanced. Bidirectional path switched rings (BLSR) may not be arranged in subtending ring configurations.

(e) Where two (2) points of interconnection between the subtending ring and the main ring are provided, circuits originating on the main ring may be mapped to the subtending ring and circuits originating on the subtending ring may be mapped to the main ring. Channels mapped across the two interconnecting nodes are subject to Dual Node Cross-connect Channel Mapping charges as described in (I) following.

(f) The main ring and any subtending rings associated with the main ring must individually meet the minimum requirement of three nodes. However, only one node for the entire service configuration must be located in a Utility wire center. For example, if the main ring has one node located in a Utility wire center and two nodes located at customer designated premises, the subtending ring(s) need not have a node that is located in a Utility wire center.

i. When determining if the minimum number of nodes on a subtending ring has been met, the port node providing interconnection to the main ring is included in the count.

ii. When determining if the minimum number of nodes on a subtending ring has been met, the enhanced node on the main ring that interconnects with the subtending ring is not included in the count. (N)

Continued

ADVANCED COMPETITIVE SERVICES

H. VERIZON DEDICATED SONET RING (DSR) - Continued

3. REGULATIONS - Continued

c. Provision of Service - Continued

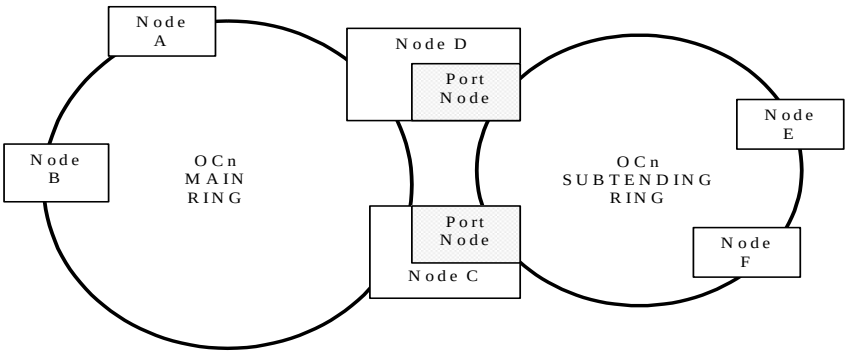
(2) Subtending Rings - Continued (N)

(g) Each subtending ring may only interconnect with one main ring.

(h) Subtending ring configurations may be established using new DSR full rings, existing DSR full rings, or a combination of new and existing DSR full rings.

(i) All DSR rings in the same subtending ring configuration must be for the same customer of record.

(j) An example of a subtending ring configuration with two (2) points of interconnection to the main ring is diagrammed below:



Applicable rate elements:

- Nodes (6)
- Port Node (2)
- Mileage for circumference of Main Ring
- Mileage for circumference of Subtending Ring

(N)

Continued

ADVANCED COMPETITIVE SERVICES

H. VERIZON DEDICATED SONET RING (DSR) - Continued

3. REGULATIONS - Continued

c. Provision of Service - Continued

(2) Subtending Rings - Continued (N)

(k) Lower speed services provided over DSR must ingress at a node on either ring (the main ring or the subtending ring) and egress DSR at a node on either ring (the subtending ring or the main ring). A single port charge applies at the point of ingress and a single port charge applies at the point of egress, unless the ingress and/or egress occurs via an asymmetrical port facility, in which case a separate port charge will not apply for each such ingress or egress.

(l) At the customer's option, a lower level service may interconnect the main and one or more of the subtending rings through two separate points of interconnection with each subtending ring. In this case, a Dual Node Cross-connect Charge applies per lower level service provided across the two interconnecting port nodes, regardless of the number of subtending rings involved. The Dual Node Cross-connect Charge does not apply when a lower level service interconnects the main and subtending rings through a single point of interconnection.

(m) In the event that the customer elects to remove the subtending arrangement ring configuration and make the subtending ring a full DSR that is independent from the main ring, the independent ring must meet all of the requirements for a DSR full ring as set forth in H.3.c.(1) preceding. This may require the addition of an additional node in order to satisfy the minimum node requirement for a single, independent ring. (N)

(3) Mileage (L) (T)

DSR Mileage on a full ring is the total of airline miles between nodes rounded up to the nearest mile.

The mileage rate is based on total ring capacity and not on individual services between nodes. For example, the mileage charge for a four-node OC3 ring with 5.1 miles between each node (20.4 total miles) would be calculated by multiplying the OC3 mileage rate by 21 miles. This mileage calculation applies regardless of the number of services (e.g., DS3s) on the ring. (L)

(4) Port Node (N)

A port node allows interconnection between two full DSR rings. One of the rings will be designated as the main ring and the other ring is designated as a subtending ring. (N)

(L) Material moved from 1st Revised Sheet 103.

Continued

ADVANCED COMPETITIVE SERVICES

H. VERIZON DEDICATED SONET RING (DSR) - Continued

3. REGULATIONS - Continued

c. Provision of Service - Continued

(5) DSR Ports (T)

The type of ports that are supported on a node may limit the maximum number of ports that are provided on that node. Accepted port speeds are as follows:

Nodes =	OC3	OC12	OC48	OC192
DS1 Ports	X	X	X	X
DS3 Ports	X	X	X	X
DS3 Transmux Ports	X	X	X	X
STS1 Ports	X	X	X	X
OC3 Ports		X	X	X
OC3c Ports		X	X	X
OC12 Ports			X	X
OC12c Ports			X	X
OC48 Ports				X
OC48c Ports				X
Ethernet Ports				
GigE - 1 Port	X	X	X	X
GigE - 3 Ports		X	X	X
GigE - 6 Ports		X	X	X
GigE - 9 Ports		X	X	X
GigE - 12 Ports			X	X
GigE - 24 Ports			X	X
Storage Interface Ports				(N)
Fibre Channel at 1Gbps			X	X |
FICON at 1Gbps			X	X (N)

Upon installation of a new ring, the Customer must provide the Utility with an initial port requirement and a forecast of future port requirements on each node, which the Utility will utilize when engineering the port configuration for that node.

Changes in month-to-month ports are treated as disconnects and subsequent installations.

When High Capacity services are provided between two DSR rings, the associated ports must be symmetrical. (e.g., DS1 Port to DS1 Port, DS3 Port to DS3 Port)

When a lower capacity service is connected to a DSR, the associated ports will be billed to the lower capacity service.

Continued

ADVANCED COMPETITIVE SERVICES (N)

H. VERIZON DEDICATED SONET RING (DSR) - Continued

3. REGULATIONS - Continued

c. Provision of Service - Continued

(3) DSR Ports

The type of ports that are supported on a node may limit the maximum number of ports that are provided on that node. Accepted port speeds are as follows:

Nodes =	OC3	OC12	OC48	OC192
DS1 Ports	X	X	X	X
DS3 Ports	X	X	X	X
DS3 Transmux Ports	X	X	X	X
STS1 Ports	X	X	X	X
OC3 Ports		X	X	X
OC3c Ports		X	X	X
OC12 Ports			X	X
OC12c Ports			X	X
OC48 Ports				X
OC48c Ports				X
Ethernet Ports				
GigE - 1 Port	X	X	X	X
GigE - 3 Ports		X	X	X
GigE - 6 Ports		X	X	X
GigE - 9 Ports		X	X	X
GigE - 12 Ports			X	X
GigE - 24 Ports			X	X

Upon installation of a new ring, the Customer must provide the Utility with an initial port requirement and a forecast of future port requirements on each node, which the Utility will utilize when engineering the port configuration for that node.

Changes in month-to-month ports are treated as disconnects and subsequent installations.

When High Capacity services are provided between two DSR rings, the associated ports must be symmetrical. (e.g., DS1 Port to DS1 Port, DS3 Port to DS3 Port)

When a lower capacity service is connected to a DSR, the associated ports will be billed to the lower capacity service. (N)

Continued

ADVANCED COMPETITIVE SERVICES

H. VERIZON DEDICATED SONET RING (DSR) - Continued

3. REGULATIONS - Continued

c. Provision of Service - Continued

(5) DSR Ports - Continued (T)

When a lower capacity service is provided between two separate asymmetric port facilities (APF) on the same DSR, the Utility must map the facility assignment on the first APF to the facility assignment on the second APF for which an Asymmetrical Port Mapping Nonrecurring Charge applies per lower capacity service mapped. (N) | (N)

When a customer transmits STS1, the mapping feature must be designated. The customer must indicate mapping of either individual STSs or concatenated STSs on the ASR.

Ethernet services are provided on a point-to-point basis between two suitably equipped DSR nodes.

Extended Superframe Format (ESF) is required on all DS1 circuits.

Ports may be ordered in a symmetrical arrangement (e.g., DS3 Port to DS3 Port), an asymmetrical arrangement (see table following) or in certain transmuxing arrangements as specified following. (D) (D)

When DS3 transmuxing arrangements are ordered, the following conditions apply:

- The DS3 Transmux Port may connect to Special Access DS3 service as specified in Schedule Cal. P.U.C. No. C-1, FCC No. 14, and FCC No. 16 for Special Access.

- The DS3 Transmux Port performs a DS3 to a DS1 conversion at a DSR node. The DS3 to DS1 conversion allows a single DSR DS3 Transmux port (which includes a DS3 Transmux Facility to which the DS1 circuits are mapped) to be a facility associated with up to twenty-eight (28) VT1.5 mapped DSR DS1 circuits.

- A DS1 port associated with a DS3 Transmux port may not coexist as a separate DS1 port within the same DSR node.

- An end-to-end DS1 service provided over DSR may not be associated with more than one DS3 Transmux port.

- DS3 Transmux ports are available at customer premises nodes only.

- DS3 Transmux Ports utilize a DS3 Transmux Facility to which VT1.5 mapped DS1 services are associated. Such DS1 services will be provisioned after ordering the associated DS3 Transmux port facility. Transmuxing is only available where suitable facilities and equipment exist to provide the DS3 Transmux Port. (N) (N)

Continued

ADVANCED COMPETITIVE SERVICES (N)

H. VERIZON DEDICATED SONET RING (DSR) - Continued

3. REGULATIONS - Continued

c. Provision of Service - Continued

(3) DSR Ports - Continued

When a customer transmits STS1, the mapping feature must be designated. The customer must indicate mapping of either individual STSs or concatenated STSs on the ASR.

Ethernet services are provided on a point-to-point basis between two suitably equipped DSR nodes.

Extended Superframe Format (ESF) is required on all DS1 circuits.

Ports may be ordered in a symmetrical arrangement (e.g., DS3 Port to DS3 Port), an asymmetrical arrangement (see table following) or in certain transmuxing arrangements as specified following. Ethernet ports may only be ordered in symmetrical arrangements.

When DS3 transmuxing arrangements are ordered, the following conditions apply:

- The DS3 Transmux Port may connect to Special Access DS3 service as specified in Schedule Cal. P.U.C. No. C-1, FCC No. 14, and FCC No. 16 for Special Access.

- The DS3 Transmux Port performs a DS3 to a DS1 conversion at a DSR node. The DS3 to DS1 conversion allows a single DSR DS3 Transmux port (which includes a DS3 Transmux Facility to which the DS1 circuits are mapped) to be a facility associated with up to twenty-eight (28) VT1.5 mapped DSR DS1 circuits.

- A DS1 port associated with a DS3 Transmux port may not coexist as a separate DS1 port within the same DSR node.

- An end-to-end DS1 service provided over DSR may not be associated with more than one DS3 Transmux port.

- DS3 Transmux ports are available at customer premises nodes only.

- DS3 Transmux Ports utilize a DS3 Transmux Facility to which VT1.5 mapped DS1 services are associated. Such DS1 services will be provisioned after ordering the associated DS3 Transmux port facility. (N)

Continued

ADVANCED COMPETITIVE SERVICES

H. VERIZON DEDICATED SONET RING (DSR) - Continued

3. REGULATIONS - Continued

c. Provision of Service - Continued

(5) DSR Ports - Continued (T)

Asymmetrical ports allow lower level services to be added to, and dropped from DSR, using ports with different transmission rates. For example, a DS1 channel can be added to the ring via a DS3 port and dropped from the ring via a DS1 port. These lower level services may originate and/or terminate at locations that are on or off of the DSR. (L1) (N)

For OCn ports, the port with the higher transmission rate provides a facility (Asymmetrical Port Facility or APF, also referred to as a Stub Hub) which is channelized to individual services requiring lower capacity facilities and lower capacity ports. Only one such higher transmission rate OCn port applies per asymmetrical port facility. The number of lower capacity services that can utilize the same APF is limited by the total STS1 capacity of the connecting services. Available transmission rates for the APF are dependent on the capacity of the port to which it is connected. For example, an OC12 APF cannot be established on an OC3 Port. Additionally, the capacity of the port is dependent on the capacity of the node involved.

The APF provides a two-point channelized facility between a customer designated premises or Expanded Interconnection arrangement and the higher transmission rate port of the asymmetrical port combination. Such port may be associated with a node that is located at either the customer designated premises or within a Utility wire center.

(a) When the APF is located at the customer's designated premises, the APF facility is provided between the customer's designated premises and the port on the associated node located at that same premises. Rates and charges for the port apply in accordance with the terms and conditions set forth in H.3.e., following. (L1) (L2)

(b) When the APF is located in a Utility wire center and the APF connects to a customer designated premises that is served by the same wire center, an asymmetrical port channel extension applies to extend the APF to the customer designated premises. Rates and charges for the asymmetrical port channel extension apply in addition to the rates and charges for the port under H.4, following. (L2)

(c) When the APF is located in a Utility wire center and the APF connects to a customer designated premises that is served by a different wire center, an asymmetrical port channel extension and mileage applies to extend the APF to the customer designated premises. Rates and charges for the asymmetrical port channel extension and mileage apply in addition to the rates and charges for the port under H.4, following. (N)

(L1) Material formerly on this sheet moved to Original Sheet 106.2.
(L2) Material formerly on this sheet moved to Original Sheet 106.3.

Continued

ADVANCED COMPETITIVE SERVICES (N)

H. VERIZON DEDICATED SONET RING (DSR) - Continued

3. REGULATIONS - Continued

c. Provision of Service - Continued

(3) DSR Ports - Continued

For asymmetrical port combinations, the following conditions apply:

- The higher speed port will be mapped based on the speed of the connecting service and port. The higher speed port is referred to as an Asymmetrical Port in the arrangement.
- The Asymmetrical Port is only available at a customer premises node.
- The lower speed port(s) can be provided at customer premises and CO nodes.
- Asymmetrical ports are available in the following combinations:

Ring Rate	Nodes	Asymmetrical Port Combinations	
OC3 DSR Ring	OC3 - OC3	STS1- DS3	
OC12 DSR Ring	OC12 - OC12	STS1- DS3	
		OC3 - DS3	OC3 - STS1
OC48 DSR Ring	OC48 - OC48	OC3 - DS3	OC3 - STS1
		OC12- DS3	OC12 - STS1
		OC12- OC3	OC12 - OC3c
OC192 DSR Ring	OC192 - OC192	STS1- DS3	
		OC3 - DS3	OC3 - STS1
		OC12 -DS3	OC12 - STS1
		OC12 -OC3	OC12 - OC3c
		OC48 -DS3	OC48 - STS1
		OC48 -OC3	OC48 - OC3c
		OC48 -OC12	OC48 - OC12c (N)

Continued

ADVANCED COMPETITIVE SERVICES

H. VERIZON DEDICATED SONET RING (DSR) - Continued

3. REGULATIONS - Continued

c. Provision of Service - Continued

(5) DSR Ports - Continued

(d) When the APF is located in a Utility wire center and the APF connects to an Expanded Interconnection arrangement that is located within the same wire center as the node, a port charge applies as set forth in H.4, following. (N)

(e) When the APF is located in a Utility wire center and the APF connects to an Expanded Interconnection arrangement that is not located within the same wire center where the node is located, mileage applies to extend the APF to the Collocation Interconnection arrangement. Rates and charges for the mileage apply in addition to the rates and charges for the port under H.4, following.

(f) For (c) through (e) preceding, special access line charges from Schedule Cal. P.U.C. No. C-1, Section III apply in addition to the port, asymmetrical port channel extension and mileage charges.

Storage Interface Ports

The FICON Storage Interface Port provides an optical transport channel for transmission of 1Gbps Fibre CONnection among mainframes, storage devices and on a single channel. A FICON signal is limited to a maximum distance of 100km (physical route kilometers) between the locations involved.

The Fibre Channel Storage Interface Port provides an optical transport channel for transmission of 1Gbps signals in a serial link between supercomputers, mainframes, workstations, desktop computers, storage devices, displays and other peripherals. A Fibre Channel signal is limited to a maximum distance of 100 km (physical route kilometers) between the locations involved. (N)

Continued

ADVANCED COMPETITIVE SERVICES

H. VERIZON DEDICATED SONET RING (DSR) - Continued

3. REGULATIONS - Continued

c. Provision of Service - Continued

(5) DSR Ports - Continued

Asymmetrical ports are available in the following combinations: (L) (D) (C)

Ring Capacity	Node Speeds	APF Rate	Asymmetrical Port Combination
OC3 DSR Ring	OC3 – OC3	STS1	STS1 – DS3 STS1 – DS1
OC12 DSR Ring	OC12 – OC12	OC3	OC3 – STS1 OC3 – DS3 OC3 – DS1 OC3 – GigE3 OC3 – GigE1
OC48 DSR Ring	OC48 – OC48	OC12	OC12 – OC3 OC12 – OC3c OC12 – STS1 OC12 – DS3 OC12 – DS1 OC12 – GigE12* OC12 – GigE9* OC12 – GigE6* OC12 – GigE3* OC12 – GigE1*
		OC3	OC3 – STS1 OC3 – DS3 OC3 – DS1 OC3 – GigE3* OC3 – GigE1*

(D)

(L)

* For Ethernet (GigE) port options, the associated Ethernet Service must be SONET mapped.

(C)

(L) Moved from 1st Revised Sheet 106 with new material added.

Continued

ADVANCED COMPETITIVE SERVICES

H. VERIZON DEDICATED SONET RING (DSR) - Continued

3. REGULATIONS - Continued

c. Provision of Service - Continued

(5) DSR Ports - Continued

Asymmetrical ports - Continued

Ring Capacity	Node Speeds	APF Rate	Asymmetrical Port Combination	(L)	(C)
OC192 DSR Ring	OC192 – OC192	OC48	OC48 – OC12		
			OC48 – OC12c		
			OC48 – OC3		
			OC48 – OC3c		
			OC48 – STS1		
			OC48 – DS3	(L)	
			OC48 – DS1*		
			OC48 – GigE24*		
			OC48 – GigE12*		
			OC48 – GigE9*		
			OC48 – GigE6*		
			OC48 – GigE3*		
			OC48 – GigE1*		
		OC12	OC12 – OC3		
			OC12 – OC3c		
			OC12 – STS1		
			OC12 – DS3		
			OC12 - DS1*		
			OC12 – GigE12*		
			OC12 – GigE9*		
			OC12 – GigE6*		
			OC12 – GigE3*		
			OC12 – GigE1*		
		OC3	OC3 – STS1		
			OC3 – DS3		
			OC3 – DS1*		
			OC3 – GigE3*		
			OC3 – GigE1*		

* For Ethernet (GigE) port options, the associated Ethernet Service must be SONET mapped. (C)

(L) Moved from 1st Revised Sheet 106 with new material added.

Continued

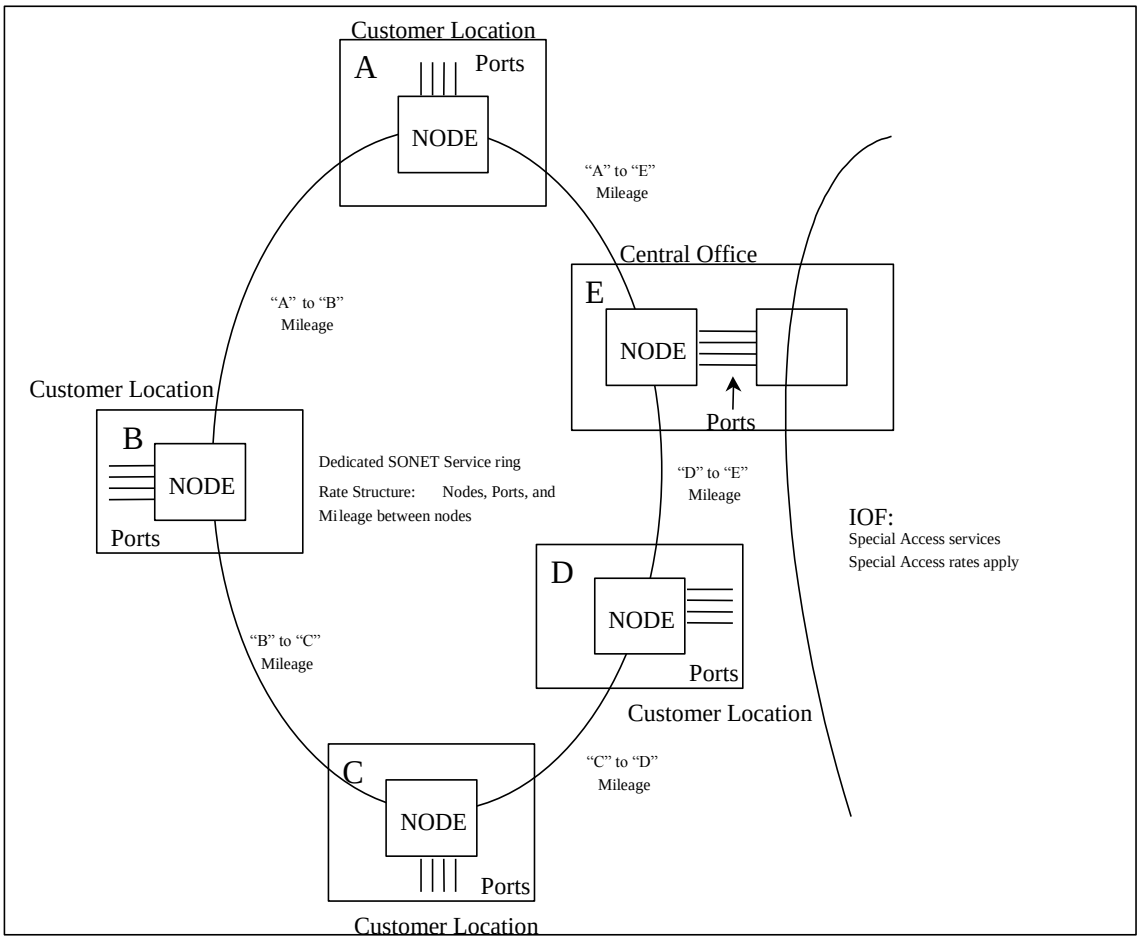
ADVANCED COMPETITIVE SERVICES

H. VERIZON DEDICATED SONET RING (DSR) - Continued

3. REGULATIONS - Continued

c. Provision of Service - Continued

(6) An example of an Verizon Dedicated SONET Ring (DSR) ring is diagrammed below: (T)



(T)

Continued

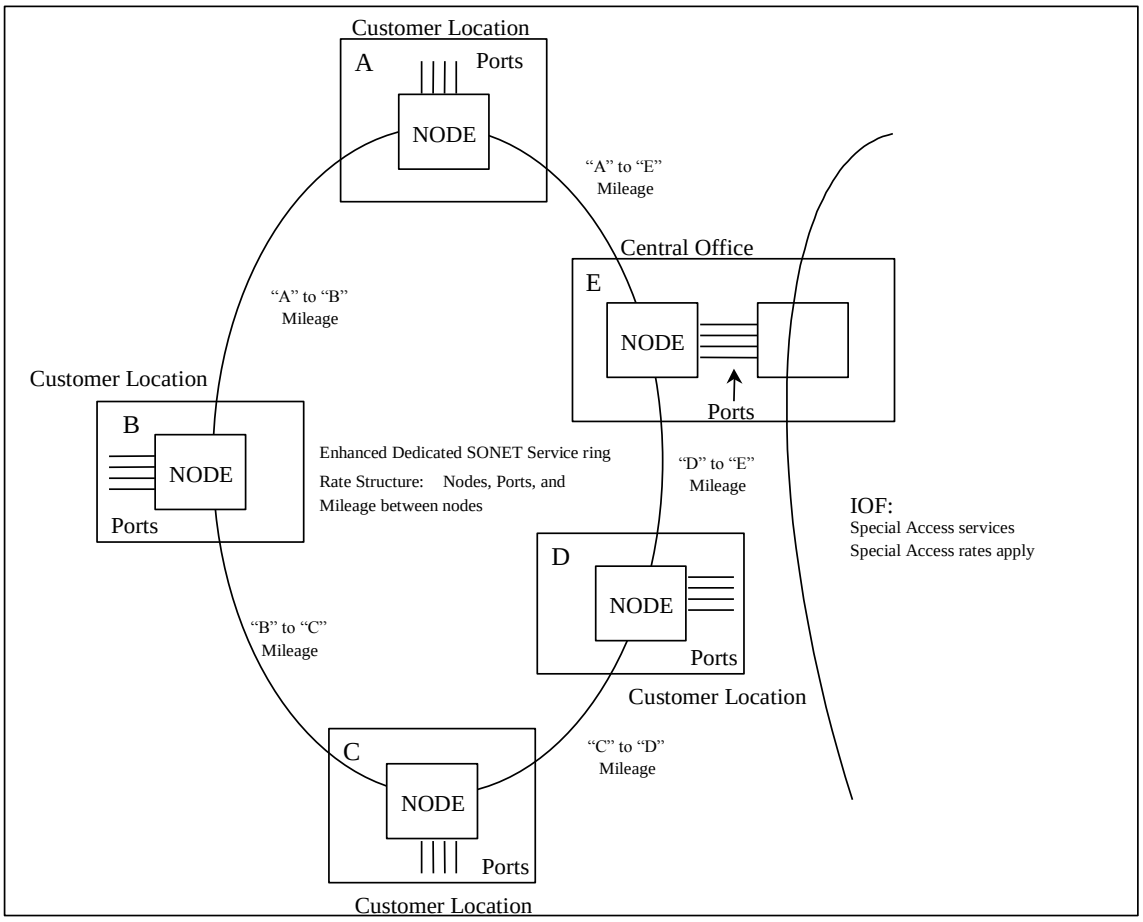
ADVANCED COMPETITIVE SERVICES (N)

H. VERIZON DEDICATED SONET RING (DSR) - Continued

3. REGULATIONS - Continued

c. Provision of Service - Continued

(4) An example of an Verizon Dedicated SONET Ring (DSR) ring is diagrammed below:



(N)

Continued

ADVANCED COMPETITIVE SERVICES (N)

H. VERIZON DEDICATED SONET RING (DSR) - Continued

3. REGULATIONS - Continued

d. Optional Feature - Customer Network Management

(1) Description of Service

The customer has the option of purchasing Customer Network Management for use with DSR service provided by the Utility. In order to purchase an Optional Feature, the customer must be subscribed to a DSR service and must use such DSR service in conjunction with the selected Optional Feature.

Optional Feature Customer Service Management (CSM) provides a customer with real-time information about the operational status of its DSR network and the ability to reconfigure lower level services riding the DSR ring. Three (3) Service Levels of support are offered for CSM. Each Service Level provides different functionalities to which the customer may gain access. These functionalities are described in the following paragraphs, and include access to real-time information about the customer's DSR network, the ability to generate reports, and the ability to reconfigure lower level services riding the DSR ring.

(2) Provision of Service

The customer must utilize Internet web access to connect its customer-provided terminal equipment to the Utility's CSM management system. Access to the Internet and any associated rates and charges are the responsibility of the customer. The customer is also responsible for obtaining communications software that is compatible with the software the Utility utilizes to provide CSM. The Utility will work cooperatively with the customer to determine compatibility of its communications software.

CSM may be installed at the same time as the associated DSR ring or may be added to an existing ring, subject to the provisions set forth in H.3.d(3), Application of Rates and Charges.

The customer may subscribe to CSM only if the Utility provides all nodes on the ring.

When ordering CSM, the customer must specify the level of CSM support as one of the following three (3) Service Levels.

Level 1 support provides a network view of real-time detection and reporting of network alarm conditions within the customer's DSR network.

Level 2 support provides the same support described in Level 1 along with the ability for the customer to generate basic network performance reports for its DSR network. Basic reports are available at no additional charge to the customer. The customer may also request network performance reports that are customized to meet their specific needs. Rates and charges for customized reports are provided on an individual case basis (ICB) only. (N)

Continued

ADVANCED COMPETITIVE SERVICES (N)

H. VERIZON DEDICATED SONET RING (DSR) - Continued

3. REGULATIONS - Continued

d. Optional Feature - Customer Network Management - Continued

(2) Provision of Service - Continued

Level 3 support provides the same support described in Levels 1 and 2 along with the ability to reconfigure (re-map) the end points of lower level services riding the ring.

Reconfiguration using CSM consists of re-mapping the end point of a primary circuit to its preplanned (backup) port location. The customer must specify a preplanned port location for each primary circuit installed. The preplanned port location is a backup location that is activated and de-activated when a primary circuit is reconfigured at the request of the customer via the CSM platform. A reconfiguration is limited to the mapping of one primary circuit to its assigned preplanned location. For each pre-planned port location, a monthly recurring rate and a nonrecurring installation charge apply per port.

A Utility Performed Reconfiguration charge will apply when the customer requests that the Utility perform a reconfiguration of service on its behalf. This charge does not apply when a customer performs its own service reconfiguration.

Reconfiguration is not permitted on services arranged in the following service configurations:
Switched Access Service;
Service provided under a shared use arrangement;
Service associated with CentraNet-CO or Primary Rate ISDN service; or
Primary circuits for which the customer has not specified a preplanned backup location.

The type of nodes deployed within the DSR network may limit reconfiguration capability.

When CSM is added to an existing ring, the customer must designate which existing circuits are being made reconfigurable. Nonrecurring charges as set forth in H.4.e will apply. The Utility's ability to provide CSM on a particular ring may be limited by the overall configuration of that ring. Reconfiguration is limited to those circuits that originate and/or terminate on the ring (i.e., at locations served by a node on the ring) and utilize ports that are symmetrical. For circuits that originate or terminate off the ring (i.e., at locations not served by a node on the ring), the reconfiguration is limited to customer premises node locations on the ring.

(3) Application of Rates and Charges

CSM rates and charges apply in addition to any applicable DSR rates and charges. Unless otherwise indicated below, CSM rates and charges apply regardless of the Service Level selected by the customer.

(N)

Continued

ADVANCED COMPETITIVE SERVICES (N)

H. VERIZON DEDICATED SONET RING (DSR) - Continued

3. REGULATIONS - Continued

d. Optional Feature - Customer Network Management - Continued

(3) Application of Rates and Charges - Continued

Monthly Recurring Charges

A CSM Service Level rate applies for each DSR ring provided with CSM.

For customers subscribing to Service Level 3 support, a preplanned port rate applies in addition to the DSR port rate for each preplanned port location established.

Nonrecurring Charges

A Node Setup charge applies for each node that is equipped with CSM at the time that CSM is initially established on the ring.

An Initial CSM Setup charge applies for establishment of the customer's initial CSM database partition. The initial CSM database partition includes setup for up to six (6) users. A database partition is a dedicated portion of the CSM platform that can only be accessed by a specific set of users designated by the customer.

A Setup of Additional Partition or Change in CSM Service Level charge applies for the setup of an additional CSM database partition created for the same customer or to change from one CSM service level to another (e.g., change Service Level 2 to Service Level 3). Each additional CSM database provides for the setup of up to six (6) additional users.

A Setup of Additional Users charge applies for the setup of up to six (6) additional users beyond those provided with the initial database setup when CSM is initially established on the ring.

An Add/Remove Node charge applies for each node that is subsequently added to, or removed from, a ring that has already been equipped to provide CSM.

A Utility Performed Reconfiguration charge applies for Service Level 3 customers only when the customer requests that the Utility perform a reconfiguration based on its pre-mapping instructions.

A Consultation and Support charge applies for each thirty (30) minutes or fraction thereof that the customer requests Utility consultation and support of its CSM network. This charge does not apply during initial setup of CSM on the ring.

A Preplanned Port charge applies for Service Level 3 customers only for each preplanned port location that is established during the initial establishment of CSM on the ring. (N)

Continued

ADVANCED COMPETITIVE SERVICES (N)

H. VERIZON DEDICATED SONET RING (DSR) - Continued

3. REGULATIONS - Continued

d. Optional Feature - Customer Network Management - Continued

(3) Application of Rates and Charges - Continued

CSM Service Level is provided under a term plan of 3 years or 5 years.

The duration of the term plan for CSM Service Level must be the same duration as the term plan for the DSR nodes provided with CSM.

The customer has the option of subscribing to Preplanned Ports on a month-to-month basis or under a term plan of 3 or 5 years. At the expiration of its 3- or 5-Year term plans for CSM Service Levels or Preplanned Ports, the customer has the option of extending CSM Service Level or Preplanned Ports with a coterminous end date.

The expiration date of each CSM Service Level added subsequent to the initial installation must be coterminous to the expiration date of the associated DSR service, provided that the addition is prior to the 21st month for a 3-Year plan, or prior to the 36th month for a 5-Year plan. A CSM added after the aforementioned periods requires extension of the commitment period for the associated DSR service. Such extension results in the establishment of a new plan that includes both the DSR and the CSM under the same plan with the same expiration date.

CSM is subject to termination liability if CSM is removed prior to completion of the existing commitment period. The terms and conditions in H.3.e(2) following, apply to removal of CSM prior to completion of the existing commitment period. (N)

Continued

ADVANCED COMPETITIVE SERVICES

H. VERIZON DEDICATED SONET RING (DSR) - Continued

3. REGULATIONS - Continued

e. Application of Rates and Charges

(1) Commitment Periods

DSR is available for 3 or 5-year term commitment periods. Ports and asymmetrical port facilities are also available on a month-to-month basis. Ports, nodes, port nodes, optional features, subtending node facilities, and asymmetrical port facilities added subsequent to the initial installation may be coterminous to the expiration date of the DSR provided the addition is prior to the 21st month for a 3-year plan, or prior to the 36th month for a 5-year plan. Ports, nodes, port nodes, optional features, subtending node facilities, and asymmetrical port facilities added after the aforementioned periods require extending the commitment period for an additional one-year for a 3-year plan, or an additional 2 years for a 5-year plan. Ports and asymmetrical port facilities in a month-to-month plan may be added at anytime. The added nodes must be at the same or lower speed as the existing nodes. (T) (N)

Monthly recurring rates apply for the ports, port nodes, nodes, mileage, optional features, subtending node facilities and asymmetrical port facilities. Once a term period expires, the tariffed rates of the customer's existing plan will continue until the customer cancels service or requests a new term plan.

(2) Nonrecurring charges for DSR apply as follows: (D) (N)

(a) First and Additional charges apply for the initial installation of ports provided on a Month-to-Month term. The First Nonrecurring Charge applies to the first of each port type and speed installed at a node. The Additional Nonrecurring Charge applies for each additional port of the same type and same speed added at the same node on the same order. For example, if a customer places an order for (10) GigE3 Ports at the same OC48 node, one First Nonrecurring Charge and nine Additional Nonrecurring Charges will apply for the GigE3 Ports. A port is charged at each location. (D) (L)

(b) First and Additional charges apply for the subsequent installation of all ports (whether on a Month-to-Month term or a term pricing plan).

(c) Subsequent installation of a node or port node.

(d) Installation of a CSM optional feature. These charges are described in H.3.d(3).

(e) An Asymmetrical Port Mapping nonrecurring charge applies for each channel which the Utility must map across two separate asymmetrical port facilities on the same DSR. These charges are set forth in H.4 following. (L) (N)

(L) Material formerly on this sheet moved to Original Sheet 112.2.

Continued

ADVANCED COMPETITIVE SERVICES (N)

H. VERIZON DEDICATED SONET RING (DSR) - Continued

3. REGULATIONS - Continued

e. Application of Rates and Charges

(1) Commitment Periods

DSR is available for 3 or 5-year term commitment periods, for ports, nodes, mileage and optional features. Ports are also available on a month-to-month basis. Ports and nodes added subsequent to the initial installation may be coterminous to the expiration date of the DSR provided the addition is prior to the 21st month for a 3-year plan, or prior to the 36th month for a 5-year plan. Ports and nodes added after the aforementioned periods require extending the commitment period for an additional one-year for a 3-year plan, or an additional 2 years for a 5-year plan. Ports in a month-to-month plan may be added at anytime. The added nodes must be at the same or lower speed as the existing nodes.

Monthly recurring rates apply for the ports, nodes, mileage and optional features. Once a term period expires, the tariffed rates of the customer's existing plan will continue until the customer cancels service or requests a new term plan.

Nonrecurring charges for ports apply on a first and additional basis. To qualify as first and additional, the ports must be like-ports (e.g., 2 DS1 Ports) installed at the same node at the same time.

Nonrecurring charges apply to the initial installation of ports purchased on a month-to-month basis.

(2) Termination Liability

Unless otherwise set forth in this section, termination liability will apply if the customer terminates DSR service or a Customer Network Management Optional Feature prior to the expiration of the selected term commitment period. Termination liability, as set forth in Schedule Cal. P.U.C. No. D&R, Rule No. 47, is charged per monthly rate element on all nodes and ports (other than month-to-month ports for which the one month minimum service charge applies). A separate termination liability charge is assessed for each rate element associated with the disconnected DSR or Customer Network Management Optional Feature.

DSR service or a Customer Network Management Optional Feature may be canceled without termination liability when cancellation of the service occurs within thirty (30) days of the effective date of a Utility initiated rate increase of eight percent (8%) or more on any rate applicable to DSR service or a Customer Network Management Optional Feature. (N)

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Continued

ADVANCED COMPETITIVE SERVICES

H. VERIZON DEDICATED SONET RING (DSR) - Continued

3. REGULATIONS - Continued

e. Application of Rates and Charges - Continued

(2) Nonrecurring charges - Continued

(f) A Dual Node Cross-connect Charge applies per lower level service provided across the interconnecting port nodes of a subtending ring(s) configuration, regardless of the number of subtending rings involved. Dual Node Cross-connect charges as set forth in H.4 following apply for each channel which the Utility must cross-connect between the two port nodes of the interconnecting ring(s). (N)

Changes in Month-to-Month billed ports, port nodes, and asymmetrical port facilities are treated as disconnects and subsequent installations.

When a lower capacity service is dropped from a DSR, the associated ports will be billed to the lower capacity service. Lower capacity services may not be dropped at locations utilizing a pass-through interface. However, a Channel Mapping charge will apply for each lower capacity service that originates at and terminates to devices that are not within the partial ring provided by the Utility. The Channel Mapping Charge is billed to the lower capacity service.

When a lower capacity service is provided between two separate asymmetric port facilities (APF) on the same DSR, the Utility must map the facility assignment on the first APF to the facility assignment on the second APF for which an Asymmetrical Port Mapping Nonrecurring Charge applies per lower capacity service mapped.

For Storage Interface Ports purchased on a month-to-month basis, nonrecurring charges apply to the installation of ports on a first and additional basis regardless of whether the installation of such Storage Interface Port is in connection with the initial or subsequent installation of DSR.

Where an Ethernet signal is mapped to a SONET service, and that SONET service is provided in a symmetrical port arrangement, two OCn ports apply (one where the mapped signal enters the ring and one where the mapped signal exits the ring).

Where one or more Ethernet signals are mapped to a SONET service, and that SONET service utilizes an asymmetrical port combination (e.g., the signals enter the ring mapped to an OC12 SONET service and exit the ring via an OC48 port associated with an asymmetrical port facility), only one OCn port applies per mapped signal to enter the ring and the signal exits the ring over the asymmetrical port facility. The total number of such mapped Ethernet signals that can be associated with the OCn Port of the asymmetrical port facility is limited by the STS1 capacity required to map each signal into the SONET service. For example, assume that an OC48 APF is ordered for which an OC48 port, OC48 mileage, and, when applicable, an OC48 Extension applies (an OC48 has a capacity of 48 STS1s). (N)

Continued

ADVANCED COMPETITIVE SERVICES

H. VERIZON DEDICATED SONET RING (DSR) - Continued

3. REGULATIONS - Continued

e. Application of Rates and Charges - Continued

(3) Termination Liability (L) (T)

Unless otherwise set forth in this section, termination liability will apply if the customer terminates DSR service or a Customer Network Management Optional Feature prior to the expiration of the selected term commitment period. Termination liability, as set forth in Schedule Cal. P.U.C. No. D&R, Rule No. 47, is charged per monthly rate element on all nodes, ports (other than month-to-month billed ports for which the one month minimum service charge applies), port nodes, optional features, subtending node facilities, and asymmetrical port facilities. A separate termination liability charge is assessed for each rate element associated with the disconnected DSR or Customer Network Management Optional Feature. (N) | (N)

DSR service or a Customer Network Management Optional Feature may be canceled without termination liability when cancellation of the service occurs within thirty (30) days of the effective date of a Utility initiated rate increase of eight percent (8%) or more on any rate applicable to DSR service or a Customer Network Management Optional Feature. (L)

(L) Material moved from 1st Revised Sheet 112.

Continued

ADVANCED COMPETITIVE SERVICES

H. VERIZON DEDICATED SONET RING (DSR) - Continued

3. REGULATIONS - Continued

e. Application of Rates and Charges - Continued

(3) Termination Liability - Continued (T)

Termination liability will not apply for any DSR service or Customer Network Management Optional Feature if a customer changes to a longer-term commitment period for the same service, or upgrades to a higher capacity DSR service [1], if all of the following conditions are met: [2]

a) A new commitment period commences with the upgrade.

b) The new expiration date must extend beyond the discontinued plan date.

c) The upgrade consists of either one (1) DSR being upgraded to a higher capacity DSR, or two (2) existing DSR being upgraded into a single, higher capacity DSR.

d) The new DSR has at least one customer premises node and one CO node in common with the discontinued DSR.

e) When two (2) existing DSR are being upgraded into a single, higher capacity DSR, the aggregate amount of all monthly charges for the nodes and ports included under the new commitment period is at least 25% greater than the aggregate amount of the monthly charges remaining in the commitment period for the nodes and ports being disconnected.

(4) Moves of Service (T)

A customer can move a node (customer node or CO node) from one location to another location without incurring termination liability providing that all of the following conditions are met:

a) A new commitment period commences with the move.

b) The new expiration date must extend beyond the discontinued plan date.

c) The customer accepts a temporary interruption of the existing service in order to establish the new service.

d) The new service is ordered at the same time as the order for disconnection is received.

e) A nonrecurring charge will apply to install the node at each new location added to the DSR.

1 Upgrades are further subject to the regulations set forth in H.3.e.1 preceding.
2 These conditions do not apply to Customer Network Management Optional Features.

Continued

ADVANCED COMPETITIVE SERVICES (N)

H. VERIZON DEDICATED SONET RING (DSR) - Continued

3. REGULATIONS - Continued

e. Application of Rates and Charges - Continued

(2) Termination Liability - Continued

Termination liability will not apply for any DSR service or Customer Network Management Optional Feature if a customer changes to a longer-term commitment period for the same service, or upgrades to a higher capacity DSR service [1], if all of the following conditions are met: [2]

a) A new commitment period commences with the upgrade.

b) The new expiration date must extend beyond the discontinued plan date.

c) The upgrade consists of either one (1) DSR being upgraded to a higher capacity DSR, or two (2) existing DSR being upgraded into a single, higher capacity DSR.

d) The new DSR has at least one customer premises node and one CO node in common with the discontinued DSR.

e) When two (2) existing DSR are being upgraded into a single, higher capacity DSR, the aggregate amount of all monthly charges for the nodes and ports included under the new commitment period is at least 25% greater than the aggregate amount of the monthly charges remaining in the commitment period for the nodes and ports being disconnected.

(3) Moves of Service

A customer can move a node (customer node or CO node) from one location to another location without incurring termination liability providing that all of the following conditions are met:

a) A new commitment period commences with the move.

b) The new expiration date must extend beyond the discontinued plan date.

c) The customer accepts a temporary interruption of the existing service in order to establish the new service.

d) The new service is ordered at the same time as the order for disconnection is received.

e) A nonrecurring charge will apply to install the node at each new location added to the DSR.

1 Upgrades are further subject to the regulations set forth in H.3.e.1 preceding.
2 These conditions do not apply to Customer Network Management Optional Features. (N)

Continued

ADVANCED COMPETITIVE SERVICES

H. VERIZON DEDICATED SONET RING (DSR) - Continued

3. REGULATIONS - Continued

e. Application of Rates and Charges - Continued

(5) Conversions of Service (T)

Customers who wish to convert existing point-to-point services (e.g. High Capacity DS1 and DS3 services, Custom Connect services) to the Utility's DSR may do so without conversion charges (termination liability for the existing service) as long as the total capacity of services purchased by the customer does not decrease.

(6) Extension of a Commitment Period (T)

For DSR, the customer also has the option, within sixty (60) days prior to the expiration date of the commitment period, to extend the expiring term plan to a plan with a longer commitment period. The commitment period selected for the extended plan must be longer than the commitment period of the expiring plan, i.e., an expiring 3-Year Term may be extended to a 5-Year Term Plan.

Time-in-service credit on the expiring plan will be granted and applied towards the new extended plan. For example, an expiring 3-Year term plan will allow for 3 years of time-in-service credit towards a 5-Year extended plan.

The discount associated with the extended plan will apply effective with the first bill date following expiration of the commitment period for the existing plan and will continue through the remainder of the commitment period associated with the extended plan. No adjustment for the increased discount percentage associated with the extended plan will be made to the monthly rates on the expiring plan.

For DSR with a commitment period extended under these regulations, termination liability is calculated as the difference between the monthly rates for the highest commitment period that could have been satisfied prior to disconnection of the service or cancellation of the plan and the monthly rates for the extended commitment period for the period of time the service was in effect.

(7) Service Interruption (T)

a) Credit Allowance Application

Verizon Dedicated SONET Ring (DSR) is interrupted when it becomes unusable to the customer because of a failure of a component used to furnish service under this tariff, or when the service is preempted as a result of invoking National Security Emergency Preparedness (NSEP Treatment) or when the application of protective controls interrupt all transmission paths as set forth in Cal. P.U.C. No. C-1, Section A.9.

Continued

ADVANCED COMPETITIVE SERVICES (N)

H. VERIZON DEDICATED SONET RING (DSR) - Continued

3. REGULATIONS - Continued

e. Application of Rates and Charges - Continued

(4) Conversions of Service

Customers who wish to convert existing point-to-point services (e.g. High Capacity DS1 and DS3 services, Custom Connect services) to the Utility's DSR may do so without conversion charges (termination liability for the existing service) as long as the total capacity of services purchased by the customer does not decrease.

(5) Extension of a Commitment Period

For DSR, the customer also has the option, within sixty (60) days prior to the expiration date of the commitment period, to extend the expiring term plan to a plan with a longer commitment period. The commitment period selected for the extended plan must be longer than the commitment period of the expiring plan, i.e., an expiring 3-Year Term may be extended to a 5-Year Term Plan.

Time-in-service credit on the expiring plan will be granted and applied towards the new extended plan. For example, an expiring 3-Year term plan will allow for 3 years of time-in-service credit towards a 5-Year extended plan.

The discount associated with the extended plan will apply effective with the first bill date following expiration of the commitment period for the existing plan and will continue through the remainder of the commitment period associated with the extended plan. No adjustment for the increased discount percentage associated with the extended plan will be made to the monthly rates on the expiring plan.

For DSR with a commitment period extended under these regulations, termination liability is calculated as the difference between the monthly rates for the highest commitment period that could have been satisfied prior to disconnection of the service or cancellation of the plan and the monthly rates for the extended commitment period for the period of time the service was in effect.

(6) Service Interruption

a) Credit Allowance Application

Verizon Dedicated SONET Ring (DSR) is interrupted when it becomes unusable to the customer because of a failure of a component used to furnish service under this tariff, or when the service is preempted as a result of invoking National Security Emergency Preparedness (NSEP Treatment) or when the application of protective controls interrupt all transmission paths as set forth in Cal. P.U.C. No. C-1, Section A.9.

(N)

Continued

ADVANCED COMPETITIVE SERVICES

H. VERIZON DEDICATED SONET RING (DSR) - Continued

3. REGULATIONS - Continued

e. Application of Rates and Charges - Continued

(7) Service Interruption - Continued (T)

a) Credit Allowance Application - Continued

An interruption period starts when Utility personnel are notified by the customer that the service is inoperable. The credit allowance(s) for an interruption or for a series of interruptions will be computed based upon the billing method, which applies to the service being credited. In no case will the credit allowance for service interruptions exceed the applicable charges for the billing period during which the interruption occurred.

For DSR, any outage greater than one (1) minute and due solely to a Utility facility failure will result in a credit of 100% of the monthly rate for the applicable rate elements of the affected service. Only one such credit is allowed in a single month's billing period.

b) A Credit Allowance Does Not Apply for Service Interruptions:

- of less than one minute;
- caused by the negligence of the customer or authorized user;
- resulting from the failure of equipment or systems provided by the customer or authorized user;
- during any period in which the Utility is not afforded access to a premises for testing and/or repair of service;
- for a negotiated time period during which the customer has released the service to the Utility for maintenance purposes, to make rearrangements, or for the implementation of an order for a change in the service. Should the time to perform the maintenance, rearrangement or order for change extend beyond the agreed upon time period, credit allowance will apply for the extended time;
- which continue due to the failure of the customer to authorize replacement of any element of Special Construction. The period during which no credit allowance will be made begins on the seventh day after the customer receives the Utility's notification of the need for replacement and ends on the day after the Utility receives the customer's authorization for replacement; or
- during periods when the customer elects not to release the service for testing and/or repair, and continues to use it on an impaired basis.

Continued

ADVANCED COMPETITIVE SERVICES (N)

H. VERIZON DEDICATED SONET RING (DSR) - Continued

3. REGULATIONS - Continued

e. Application of Rates and Charges - Continued

(6) Service Interruption - Continued

a) Credit Allowance Application - Continued

An interruption period starts when Utility personnel are notified by the customer that the service is inoperable. The credit allowance(s) for an interruption or for a series of interruptions will be computed based upon the billing method, which applies to the service being credited. In no case will the credit allowance for service interruptions exceed the applicable charges for the billing period during which the interruption occurred.

For DSR, any outage greater than one (1) minute and due solely to a Utility facility failure will result in a credit of 100% of the monthly rate for the applicable rate elements of the affected service. Only one such credit is allowed in a single month's billing period.

b) A Credit Allowance Does Not Apply for Service Interruptions:

- of less than one minute;
- caused by the negligence of the customer or authorized user;
- resulting from the failure of equipment or systems provided by the customer or authorized user;
- during any period in which the Utility is not afforded access to a premises for testing and/or repair of service;
- for a negotiated time period during which the customer has released the service to the Utility for maintenance purposes, to make rearrangements, or for the implementation of an order for a change in the service. Should the time to perform the maintenance, rearrangement or order for change extend beyond the agreed upon time period, credit allowance will apply for the extended time;
- which continue due to the failure of the customer to authorize replacement of any element of Special Construction. The period during which no credit allowance will be made begins on the seventh day after the customer receives the Utility's notification of the need for replacement and ends on the day after the Utility receives the customer's authorization for replacement; or
- during periods when the customer elects not to release the service for testing and/or repair, and continues to use it on an impaired basis. (N)

Continued

ADVANCED COMPETITIVE SERVICES

H. VERIZON DEDICATED SONET RING (DSR) - Continued

3. REGULATIONS - Continued

e. Application of Rates and Charges - Continued

(8) Cancellation Charges (T)

a) The order date for DSR is the date on which the customer provides the Utility with a complete and accurate Access Service Request (ASR) for the service. In the event that the customer cancels the request, or part of the request, for construction of the ring, cancellation charges as set forth below will apply.

b) Cancellation Charges Which Apply After Issuance of the order: per Node or Port Node (N)

	Within the first 30 days of ordering	31st to 60th day after ordering	61st day after ordering to completion of construction
Per OC3 Node	None	$565.00	$1,130
Per OC12 Node	None	962.00	1,924
Per OC48 Node	None	2,159	4,318
Per OC192 Node	None	7,010	14,020

c) Termination Liability as set forth in H.3.e.(3) preceding will apply after the customer has received notification that construction is complete, and the ring has been turned up and accepted by the customer. (T)

Continued

ADVANCED COMPETITIVE SERVICES (N)

H. VERIZON DEDICATED SONET RING (DSR) - Continued

3. REGULATIONS - Continued

e. Application of Rates and Charges - Continued

(7) Cancellation Charges

a) The order date for DSR is the date on which the customer provides the Utility with a complete and accurate Access Service Request (ASR) for the service. In the event that the customer cancels the request, or part of the request, for construction of the ring, cancellation charges as set forth below will apply.

b) Cancellation Charges Which Apply After Issuance of the order: per Node

	Within the first 30 days of ordering	31st to 60th day after ordering	61st day after ordering to completion of construction
Per OC3 Node	None	$565.00	$1,130
Per OC12 Node	None	962.00	1,924
Per OC48 Node	None	2,159	4,318
Per OC192 Node	None	7,010	14,020

c) Termination Liability as set forth in 3.e.(2) preceding will apply after the customer has received notification that construction is complete, and the ring has been turned up and accepted by the customer. (N)

Continued

ADVANCED COMPETITIVE SERVICES

H. VERIZON DEDICATED SONET RING (DSR) - Continued

4. RATES

a. DSR Node, each

	Maximum Monthly Rate	Current Monthly Rate
OC3		
Three Years	$ 2,660.00	$ 1,330.00
Five Years	2,580.00	1,290.00
OC12		
Three Years	$ 5,800.00	$ 2,900.00
Five Years	5,400.00	2,700.00
OC48		
Three Years	$ 9,600.00	$ 4,800.00
Five Years	9,208.00	4,604.00
OC192		
Three Years	$ 20,000.00	$ 10,000.00
Five Years	18,400.00	9,200.00

	Nonrecurring Charge w/ Term Plans	
Subsequent Installations, per node or port node	$ 1,599.00	(N)

Continued

ADVANCED COMPETITIVE SERVICES (N)

H. VERIZON DEDICATED SONET RING (DSR) - Continued

4. RATES

a. DSR Node, each

	Maximum Monthly Rate	Current Monthly Rate
OC3		
Three Years	$ 2,660.00	$ 1,330.00
Five Years	2,580.00	1,290.00
OC12		
Three Years	$ 5,800.00	$ 2,900.00
Five Years	5,400.00	2,700.00
OC48		
Three Years	$ 9,600.00	$ 4,800.00
Five Years	9,208.00	4,604.00
OC192		
Three Years	$ 20,000.00	$ 10,000.00
Five Years	18,400.00	9,200.00

	Nonrecurring Charge w/ Term Plans	
Subsequent Installations, per node	$ 1,599.00	(N)

Continued

ADVANCED COMPETITIVE SERVICES

H. VERIZON DEDICATED SONET RING (DSR) - Continued

4. RATES

b. Subtending Node Facility (SNF) (N)

(1) Monthly rate, per port node Port Node Type -	Maximum Monthly Rate	Current Monthly Rate
OC3 at OC3 Node		
Three Years	$ 1,200.00	$ 600.00
Five Years	1,000.00	500.00
OC3 at OC12 Node		
Three Years	$ 1,200.00	$ 600.00
Five Years	1,000.00	500.00
OC3 at OC48 Node		
Three Years	$ 1,200.00	$ 600.00
Five Years	1,000.00	500.00
OC3 at OC192 Node		
Three Years	$ 1,200.00	$ 600.00
Five Years	1,000.00	500.00
OC12 at OC12 Node		
Three Years	$ 1,700.00	$ 850.00
Five Years	1,500.00	750.00
OC12 at OC48 Node		
Three Years	$ 1,700.00	$ 850.00
Five Years	1,500.00	750.00
OC12 at OC192 Node		
Three Years	$ 1,700.00	$ 850.00
Five Years	1,500.00	750.00
OC48 at OC48 Node		
Three Years	$ 3,600.00	$ 1,800.00
Five Years	3,200.00	1,600.00
OC48 at OC192 Node		
Three Years	$ 3,600.00	$ 1,800.00
Five Years	3,200.00	1,600.00
OC192 at OC192 Node		
Three Years	$ 9,000.00	$ 4,500.00
Five Years	7,600.00	3,800.00

(N)

Continued

ADVANCED COMPETITIVE SERVICES

H. VERIZON DEDICATED SONET RING (DSR) - Continued

4. RATES

b. Subtending Node Facility (SNF) - Continued (N)

(2) Monthly rate, per SNF extended

SNF Type -	Maximum Monthly Rate	Current Monthly Rate
OC3 SNF		
OC3 Mileage, per mile		
Three Years	$ 750.00	$ 375.00
Five Years	675.00	337.50
OC3 Channel Extension, each		
Three Years	$ 5,700.00	$ 2,850.00
Five Years	5,130.00	2,565.00
OC12 SNF		
OC12 Mileage, per mile		
Three Years	$ 1,500.00	$ 750.00
Five Years	1,350.00	675.00
OC12 Channel Extension, each		
Three Years	$ 11,000.00	$ 5,500.00
Five Years	9,000.00	4,500.00
OC48 SNF		
OC48 Mileage, per mile		
Three Years	$ 5,250.00	$ 2,625.00
Five Years	4,724.00	2,362.50
OC48 Channel Extension, each		
Three Years	$ 15,000.00	$ 7,500.00
Five Years	12,700.00	6,350.00

(3) Dual Node Cross-Connect Charge, per lower capacity channel provided through two interconnecting nodes in a subtending ring arrangement

	Nonrecurring Charge
All Channel Types	$ 500.00 (N)

Continued

ADVANCED COMPETITIVE SERVICES

H. VERIZON DEDICATED SONET RING (DSR) - Continued

4. RATES - Continued

c. DSR Mileage, per mile (T)

	Maximum Monthly Rate	Current Monthly Rate
OC3		
Three Years	$ 650.00	$ 325.00
Five Years	600.00	300.00
OC12		
Three Years	$ 670.00	$ 335.00
Five Years	640.00	320.00
OC48		
Three Years	$ 900.00	$ 450.00
Five Years	840.00	420.00
OC192		
Three Years	$ 2,780.00	$ 1,390.00
Five Years	2,558.00	1,279.00

Continued

ADVANCED COMPETITIVE SERVICES (N)

H. VERIZON DEDICATED SONET RING (DSR) - Continued

4. RATES - Continued

b. DSR Mileage, per mile

	Maximum Monthly Rate	Current Monthly Rate
OC3		
Three Years	$ 650.00	$ 325.00
Five Years	600.00	300.00
OC12		
Three Years	$ 670.00	$ 335.00
Five Years	640.00	320.00
OC48		
Three Years	$ 900.00	$ 450.00
Five Years	840.00	420.00
OC192		
Three Years	$ 2,780.00	$ 1,390.00
Five Years	2,558.00	1,279.00 (N)

Continued

ADVANCED COMPETITIVE SERVICES

H. VERIZON DEDICATED SONET RING (DSR) - Continued

4. RATES - Continued

d. DSR Port (T)

	Maximum Monthly Rate	Current Monthly Rate
DS1 at OC3 Node		
Month-to-Month	$ 110.00	$ 55.00
Three Years	110.00	55.00
Five Years	110.00	55.00
DS1 at OC12 Node		
Month-to-Month	$ 110.00	$ 55.00
Three Years	110.00	55.00
Five Years	110.00	55.00
DS1 at OC48 Node		
Month-to-Month	$ 110.00	$ 55.00
Three Years	110.00	55.00
Five Years	110.00	55.00
DS1 at OC192 Node		
Month-to-Month	$ 110.00	$ 55.00
Three Years	110.00	55.00
Five Years	110.00	55.00
DS3 or STS1 at OC3 Node		
Month-to-Month	$ 230.00	$ 115.00
Three Years	230.00	115.00
Five Years	230.00	115.00
DS3 or STS1 at OC12 Node		
Month-to-Month	$ 230.00	$ 115.00
Three Years	230.00	115.00
Five Years	230.00	115.00

Continued

ADVANCED COMPETITIVE SERVICES (N)

H. VERIZON DEDICATED SONET RING (DSR) - Continued

4. RATES - Continued

c. DSR Port

	Maximum Monthly Rate	Current Monthly Rate
DS1 at OC3 Node		
Month-to-Month	$ 110.00	$ 55.00
Three Years	110.00	55.00
Five Years	110.00	55.00
DS1 at OC12 Node		
Month-to-Month	$ 110.00	$ 55.00
Three Years	110.00	55.00
Five Years	110.00	55.00
DS1 at OC48 Node		
Month-to-Month	$ 110.00	$ 55.00
Three Years	110.00	55.00
Five Years	110.00	55.00
DS1 at OC192 Node		
Month-to-Month	$ 110.00	$ 55.00
Three Years	110.00	55.00
Five Years	110.00	55.00
DS3 or STS1 at OC3 Node		
Month-to-Month	$ 230.00	$ 115.00
Three Years	230.00	115.00
Five Years	230.00	115.00
DS3 or STS1 at OC12 Node		
Month-to-Month	$ 230.00	$ 115.00
Three Years	230.00	115.00
Five Years	230.00	115.00 (N)

Continued

ADVANCED COMPETITIVE SERVICES

H. VERIZON DEDICATED SONET RING (DSR) - Continued

4. RATES - Continued

d. DSR Port - Continued (T)

	Maximum Monthly Rate	Current Monthly Rate
DS3 or STS1 at OC48 Node		
Month-to-Month	$ 230.00	$ 115.00
Three Years	230.00	115.00
Five Years	230.00	115.00
DS3 or STS1 at OC192 Node		
Month-to-Month	$ 230.00	$ 115.00
Three Years	230.00	115.00
Five Years	230.00	115.00
DS3 Transmux at OC3 Node		
Month-to-Month	$ 800.00	$ 400.00
Three Years	800.00	400.00
Five Years	800.00	400.00
DS3 Transmux at OC12 Node		
Month-to-Month	$ 800.00	$ 400.00
Three Years	800.00	400.00
Five Years	800.00	400.00
DS3 Transmux at OC48 Node		
Month-to-Month	$ 800.00	$ 400.00
Three Years	800.00	400.00
Five Years	800.00	400.00
DS3 Transmux at OC192 Node		
Month-to-Month	$ 800.00	$ 400.00
Three Years	800.00	400.00
Five Years	800.00	400.00

Continued

ADVANCED COMPETITIVE SERVICES (N)

H. VERIZON DEDICATED SONET RING (DSR) - Continued

4. RATES - Continued

c. DSR Port - Continued

	Maximum Monthly Rate	Current Monthly Rate
DS3 or STS1 at OC48 Node		
Month-to-Month	$ 230.00	$ 115.00
Three Years	230.00	115.00
Five Years	230.00	115.00
DS3 or STS1 at OC192 Node		
Month-to-Month	$ 230.00	$ 115.00
Three Years	230.00	115.00
Five Years	230.00	115.00
DS3 Transmux at OC3 Node		
Month-to-Month	$ 800.00	$ 400.00
Three Years	800.00	400.00
Five Years	800.00	400.00
DS3 Transmux at OC12 Node		
Month-to-Month	$ 800.00	$ 400.00
Three Years	800.00	400.00
Five Years	800.00	400.00
DS3 Transmux at OC48 Node		
Month-to-Month	$ 800.00	$ 400.00
Three Years	800.00	400.00
Five Years	800.00	400.00
DS3 Transmux at OC192 Node		
Month-to-Month	$ 800.00	$ 400.00
Three Years	800.00	400.00
Five Years	800.00	400.00 (N)

Continued

ADVANCED COMPETITIVE SERVICES

H. VERIZON DEDICATED SONET RING (DSR) - Continued

4. RATES - Continued

d. DSR Port - Continued (T)

	Maximum Monthly Rate	Current Monthly Rate
OC3c at OC12 Node		
Month-to-Month	$ 548.00	$ 274.00
Three Years	548.00	274.00
Five Years	548.00	274.00
OC3c at OC48 Node		
Month-to-Month	$ 548.00	$ 274.00
Three Years	548.00	274.00
Five Years	548.00	274.00
OC3c at OC192 Node		
Month-to-Month	$ 548.00	$ 274.00
Three Years	548.00	274.00
Five Years	548.00	274.00
OC3 at OC12 Node		
Month-to-Month	$ 686.00	$ 343.00
Three Years	686.00	343.00
Five Years	686.00	343.00
OC3 at OC48 Node		
Month-to-Month	$ 686.00	$ 343.00
Three Years	686.00	343.00
Five Years	686.00	343.00
OC3 at OC192 Node		
Month-to-Month	$ 686.00	$ 343.00
Three Years	686.00	343.00
Five Years	686.00	343.00

Continued

ADVANCED COMPETITIVE SERVICES (N)

H. VERIZON DEDICATED SONET RING (DSR) - Continued

4. RATES - Continued

c. DSR Port - Continued

	Maximum Monthly Rate	Current Monthly Rate
OC3c at OC12 Node		
Month-to-Month	$ 548.00	$ 274.00
Three Years	548.00	274.00
Five Years	548.00	274.00
OC3c at OC48 Node		
Month-to-Month	$ 548.00	$ 274.00
Three Years	548.00	274.00
Five Years	548.00	274.00
OC3c at OC192 Node		
Month-to-Month	$ 548.00	$ 274.00
Three Years	548.00	274.00
Five Years	548.00	274.00
OC3 at OC12 Node		
Month-to-Month	$ 686.00	$ 343.00
Three Years	686.00	343.00
Five Years	686.00	343.00
OC3 at OC48 Node		
Month-to-Month	$ 686.00	$ 343.00
Three Years	686.00	343.00
Five Years	686.00	343.00
OC3 at OC192 Node		
Month-to-Month	$ 686.00	$ 343.00
Three Years	686.00	343.00
Five Years	686.00	343.00 (N)

Continued

ADVANCED COMPETITIVE SERVICES

H. VERIZON DEDICATED SONET RING (DSR) - Continued

4. RATES - Continued

d. DSR Port - Continued (T)

	Maximum Monthly Rate	Current Monthly Rate
OC12c at OC48 Node		
Month-to-Month	$ 1,028.00	$ 514.00
Three Years	1,028.00	514.00
Five Years	1,028.00	514.00
OC12c at OC192 Node		
Month-to-Month	$ 1,028.00	$ 514.00
Three Years	1,028.00	514.00
Five Years	1,028.00	514.00
OC12 at OC48 Node		
Month-to-Month	$ 1,284.00	$ 642.00
Three Years	1,284.00	642.00
Five Years	1,284.00	642.00
OC12 at OC192 Node		
Month-to-Month	$ 1,284.00	$ 642.00
Three Years	1,284.00	642.00
Five Years	1,284.00	642.00
OC48c at OC192 Node		
Month-to-Month	$ 2,400.00	$ 1,200.00
Three Years	2,400.00	1,200.00
Five Years	2,400.00	1,200.00
OC48 at OC192 Node		
Month-to-Month	$ 2,800.00	$ 1,400.00
Three Years	2,800.00	1,400.00
Five Years	2,800.00	1,400.00

Continued

ADVANCED COMPETITIVE SERVICES (N)

H. VERIZON DEDICATED SONET RING (DSR) - Continued

4. RATES - Continued

c. DSR Port - Continued

	Maximum Monthly Rate	Current Monthly Rate
OC12c at OC48 Node		
Month-to-Month	$ 1,028.00	$ 514.00
Three Years	1,028.00	514.00
Five Years	1,028.00	514.00
OC12c at OC192 Node		
Month-to-Month	$ 1,028.00	$ 514.00
Three Years	1,028.00	514.00
Five Years	1,028.00	514.00
OC12 at OC48 Node		
Month-to-Month	$ 1,284.00	$ 642.00
Three Years	1,284.00	642.00
Five Years	1,284.00	642.00
OC12 at OC192 Node		
Month-to-Month	$ 1,284.00	$ 642.00
Three Years	1,284.00	642.00
Five Years	1,284.00	642.00
OC48c at OC192 Node		
Month-to-Month	$ 2,400.00	$ 1,200.00
Three Years	2,400.00	1,200.00
Five Years	2,400.00	1,200.00
OC48 at OC192 Node		
Month-to-Month	$ 2,800.00	$ 1,400.00
Three Years	2,800.00	1,400.00
Five Years	2,800.00	1,400.00

(N)

Continued

ADVANCED COMPETITIVE SERVICES

H. VERIZON DEDICATED SONET RING (DSR) - Continued

4. RATES - Continued

d. DSR Port - Continued (T)

	Maximum Monthly Rate	Current Monthly Rate
GigE1 at OC3 Node		
Month-to-Month	$ 610.00	$ 305.00
Three Years	610.00	305.00
Five Years	610.00	305.00
GigE1 at OC12 Node		
Month-to-Month	$ 610.00	$ 305.00
Three Years	610.00	305.00
Five Years	610.00	305.00
GigE1 at OC48 Node		
Month-to-Month	$ 610.00	$ 305.00
Three Years	610.00	305.00
Five Years	610.00	305.00
GigE1 at OC192 Node		
Month-to-Month	$ 610.00	$ 305.00
Three Years	610.00	305.00
Five Years	610.00	305.00
GigE3 at OC12 Node		
Month-to-Month	$ 690.00	$ 345.00
Three Years	690.00	345.00
Five Years	690.00	345.00
GigE3 at OC48 Node		
Month-to-Month	$ 690.00	$ 345.00
Three Years	690.00	345.00
Five Years	690.00	345.00

Continued

ADVANCED COMPETITIVE SERVICES (N)

H. VERIZON DEDICATED SONET RING (DSR) - Continued

4. RATES - Continued

c. DSR Port - Continued

	Maximum Monthly Rate	Current Monthly Rate
GigE1 at OC3 Node		
Month-to-Month	$ 610.00	$ 305.00
Three Years	610.00	305.00
Five Years	610.00	305.00
GigE1 at OC12 Node		
Month-to-Month	$ 610.00	$ 305.00
Three Years	610.00	305.00
Five Years	610.00	305.00
GigE1 at OC48 Node		
Month-to-Month	$ 610.00	$ 305.00
Three Years	610.00	305.00
Five Years	610.00	305.00
GigE1 at OC192 Node		
Month-to-Month	$ 610.00	$ 305.00
Three Years	610.00	305.00
Five Years	610.00	305.00
GigE3 at OC12 Node		
Month-to-Month	$ 690.00	$ 345.00
Three Years	690.00	345.00
Five Years	690.00	345.00
GigE3 at OC48 Node		
Month-to-Month	$ 690.00	$ 345.00
Three Years	690.00	345.00
Five Years	690.00	345.00 (N)

Continued

ADVANCED COMPETITIVE SERVICES

H. VERIZON DEDICATED SONET RING (DSR) - Continued

4. RATES - Continued

d. DSR Port - Continued (T)

	Maximum Monthly Rate	Current Monthly Rate
GigE3 at OC192 Node		
Month-to-Month	$ 690.00	$ 345.00
Three Years	690.00	345.00
Five Years	690.00	345.00
GigE6 at OC12 Node		
Month-to-Month	$ 910.00	$ 455.00
Three Years	910.00	455.00
Five Years	910.00	455.00
GigE6 at OC48 Node		
Month-to-Month	$ 910.00	$ 455.00
Three Years	910.00	455.00
Five Years	910.00	455.00
GigE6 at OC192 Node		
Month-to-Month	$ 910.00	$ 455.00
Three Years	910.00	455.00
Five Years	910.00	455.00
GigE9 at OC12 Node		
Month-to-Month	$ 1,070.00	$ 535.00
Three Years	1,070.00	535.00
Five Years	1,070.00	535.00
GigE9 at OC48 Node		
Month-to-Month	$ 1,070.00	$ 535.00
Three Years	1,070.00	535.00
Five Years	1,070.00	535.00

Continued

ADVANCED COMPETITIVE SERVICES (N)

H. VERIZON DEDICATED SONET RING (DSR) - Continued

4. RATES - Continued

c. DSR Port - Continued

	Maximum Monthly Rate	Current Monthly Rate
GigE3 at OC192 Node		
Month-to-Month	$ 690.00	$ 345.00
Three Years	690.00	345.00
Five Years	690.00	345.00
GigE6 at OC12 Node		
Month-to-Month	$ 910.00	$ 455.00
Three Years	910.00	455.00
Five Years	910.00	455.00
GigE6 at OC48 Node		
Month-to-Month	$ 910.00	$ 455.00
Three Years	910.00	455.00
Five Years	910.00	455.00
GigE6 at OC192 Node		
Month-to-Month	$ 910.00	$ 455.00
Three Years	910.00	455.00
Five Years	910.00	455.00
GigE9 at OC12 Node		
Month-to-Month	$ 1,070.00	$ 535.00
Three Years	1,070.00	535.00
Five Years	1,070.00	535.00
GigE9 at OC48 Node		
Month-to-Month	$ 1,070.00	$ 535.00
Three Years	1,070.00	535.00
Five Years	1,070.00	535.00 (N)

Continued

ADVANCED COMPETITIVE SERVICES

H. VERIZON DEDICATED SONET RING (DSR) - Continued

4. RATES - Continued

d. DSR Port - Continued (T)

	Maximum Monthly Rate	Current Monthly Rate
GigE9 at OC192 Node		
Month-to-Month	$ 1,070.00	$ 535.00
Three Years	1,070.00	535.00
Five Years	1,070.00	535.00
GigE12 at OC48 Node		
Month-to-Month	$ 1,290.00	$ 645.00
Three Years	1,290.00	645.00
Five Years	1,290.00	645.00
GigE12 at OC192 Node		
Month-to-Month	$ 1,290.00	$ 645.00
Three Years	1,290.00	645.00
Five Years	1,290.00	645.00
GigE24 at OC48 Node		
Month-to-Month	$ 1,760.00	$ 880.00
Three Years	1,760.00	880.00
Five Years	1,760.00	880.00
GigE24 at OC192 Node		
Month-to-Month	$ 1,760.00	$ 880.00
Three Years	1,760.00	880.00
Five Years	1,760.00	880.00

Continued

ADVANCED COMPETITIVE SERVICES (N)

H. VERIZON DEDICATED SONET RING (DSR) - Continued

4. RATES - Continued

c. DSR Port - Continued

	Maximum Monthly Rate	Current Monthly Rate
GigE9 at OC192 Node		
Month-to-Month	$ 1,070.00	$ 535.00
Three Years	1,070.00	535.00
Five Years	1,070.00	535.00
GigE12 at OC48 Node		
Month-to-Month	$ 1,290.00	$ 645.00
Three Years	1,290.00	645.00
Five Years	1,290.00	645.00
GigE12 at OC192 Node		
Month-to-Month	$ 1,290.00	$ 645.00
Three Years	1,290.00	645.00
Five Years	1,290.00	645.00
GigE24 at OC48 Node		
Month-to-Month	$ 1,760.00	$ 880.00
Three Years	1,760.00	880.00
Five Years	1,760.00	880.00
GigE24 at OC192 Node		
Month-to-Month	$ 1,760.00	$ 880.00
Three Years	1,760.00	880.00
Five Years	1,760.00	880.00 (N)

Continued

ADVANCED COMPETITIVE SERVICES

H. VERIZON DEDICATED SONET RING (DSR) - Continued

4. RATES - Continued

d. DSR Port - Continued (N)

	Maximum Monthly Rate	Current Monthly Rate
1Gbps Fibre Channel at OC48 Node		
Month-to-Month	$ 2,000.00	$ 1,000.00
Three Years	2,000.00	1,000.00
Five Years	2,000.00	1,000.00
1Gbps Fibre Channel at OC192 Node		
Month-to-Month	$ 2,000.00	$ 1,000.00
Three Years	2,000.00	1,000.00
Five Years	2,000.00	1,000.00
1 Gbps FICON at OC48 Node		
Month-to-Month	$ 2,000.00	$ 1,000.00
Three Years	2,000.00	1,000.00
Five Years	2,000.00	1,000.00
1 Gbps FICON at OC192 Node		
Month-to-Month	$ 2,000.00	$ 1,000.00
Three Years	2,000.00	1,000.00
Five Years	2,000.00	1,000.00

(N)

Continued

ADVANCED COMPETITIVE SERVICES

H. VERIZON DEDICATED SONET RING (DSR) - Continued

4. RATES - Continued

e. DSR Port, Initial Installation - Nonrecurring Charges (T)

	First	Additional
DS1 Port		
Month-to-month	$ 525.00	$ 210.00
3 Year Term	N/A	N/A
5 Year Term	N/A	N/A
DS3 or STS1 Port		
Month-to-month	$ 805.00	$ 343.00
3 Year Term	N/A	N/A
5 Year Term	N/A	N/A
DS3 Transmux		
Month-to-month	$ 805.00	$ 343.00
3 Year Term	N/A	N/A
5 Year Term	N/A	N/A
OC3c Port		
Month-to-month	$ 805.00	$ 343.00
3 Year Term	N/A	N/A
5 Year Term	N/A	N/A
OC3 Port		
Month-to-month	$ 805.00	$ 343.00
3 Year Term	N/A	N/A
5 Year Term	N/A	N/A
OC12c Port		
Month-to-month	$ 767.00	$ 327.00
3 Year Term	N/A	N/A
5 Year Term	N/A	N/A
OC12 Port		
Month-to-month	$ 767.00	$ 327.00
3 Year Term	N/A	N/A
5 Year Term	N/A	N/A

Continued

ADVANCED COMPETITIVE SERVICES (N)

H. VERIZON DEDICATED SONET RING (DSR) - Continued

4. RATES - Continued

d. DSR Port, Initial Installation - Nonrecurring Charges

	First	Additional
DS1 Port		
Month-to-month	$ 525.00	$ 210.00
3 Year Term	N/A	N/A
5 Year Term	N/A	N/A
DS3 or STS1 Port		
Month-to-month	$ 805.00	$ 343.00
3 Year Term	N/A	N/A
5 Year Term	N/A	N/A
DS3 Transmux		
Month-to-month	$ 805.00	$ 343.00
3 Year Term	N/A	N/A
5 Year Term	N/A	N/A
OC3c Port		
Month-to-month	$ 805.00	$ 343.00
3 Year Term	N/A	N/A
5 Year Term	N/A	N/A
OC3 Port		
Month-to-month	$ 805.00	$ 343.00
3 Year Term	N/A	N/A
5 Year Term	N/A	N/A
OC12c Port		
Month-to-month	$ 767.00	$ 327.00
3 Year Term	N/A	N/A
5 Year Term	N/A	N/A
OC12 Port		
Month-to-month	$ 767.00	$ 327.00
3 Year Term	N/A	N/A
5 Year Term	N/A	N/A

(N)

Continued

ADVANCED COMPETITIVE SERVICES

H. VERIZON DEDICATED SONET RING (DSR) - Continued

4. RATES - Continued

e. DSR Port, Initial Installation - Nonrecurring Charges - Continued (T)

	First	Additional
OC48c Port		
Month-to-month	$ 767.00	$327.00
3 Year Term	N/A	N/A
5 Year Term	N/A	N/A
OC48 Port		
Month-to-month	$ 767.00	$327.00
3 Year Term	N/A	N/A
5 Year Term	N/A	N/A
GigE1 Port		
Month-to-month	$ 767.00	$327.00
3 Year Term	N/A	N/A
5 Year Term	N/A	N/A
GigE3 Port		
Month-to-month	$ 767.00	$327.00
3 Year Term	N/A	N/A
5 Year Term	N/A	N/A
GigE6 Port		
Month-to-month	$ 767.00	$327.00
3 Year Term	N/A	N/A
5 Year Term	N/A	N/A
GigE9 Port		
Month-to-month	$ 767.00	$327.00
3 Year Term	N/A	N/A
5 Year Term	N/A	N/A

(L)

(L) Material formerly on this sheet moved to Original Sheet 127.1.

(L)
Continued

ADVANCED COMPETITIVE SERVICES (N)

H. VERIZON DEDICATED SONET RING (DSR) - Continued

4. RATES - Continued

d. DSR Port, Initial Installation - Nonrecurring Charges - Continued

	First	Additional
OC48c Port		
Month-to-month	$ 767.00	$327.00
3 Year Term	N/A	N/A
5 Year Term	N/A	N/A
OC48 Port		
Month-to-month	$ 767.00	$327.00
3 Year Term	N/A	N/A
5 Year Term	N/A	N/A
GigE1 Port		
Month-to-month	$ 767.00	$327.00
3 Year Term	N/A	N/A
5 Year Term	N/A	N/A
GigE3 Port		
Month-to-month	$ 767.00	$327.00
3 Year Term	N/A	N/A
5 Year Term	N/A	N/A
GigE6 Port		
Month-to-month	$ 767.00	$327.00
3 Year Term	N/A	N/A
5 Year Term	N/A	N/A
GigE9 Port		
Month-to-month	$ 767.00	$327.00
3 Year Term	N/A	N/A
5 Year Term	N/A	N/A
GigE12 Port		
Month-to-month	$ 767.00	$327.00
3 Year Term	N/A	N/A
5 Year Term	N/A	N/A
GigE24 Port		
Month-to-month	$ 767.00	$327.00
3 Year Term	N/A	N/A
5 Year Term	N/A	N/A

(N)

Continued

ADVANCED COMPETITIVE SERVICES

H. VERIZON DEDICATED SONET RING (DSR) - Continued

4. RATES - Continued

e. DSR Port, Initial Installation - Nonrecurring Charges - Continued

	First	Additional	
GigE12 Port			(L)
Month-to-month	$ 767.00	$327.00	
3 Year Term	N/A	N/A	
5 Year Term	N/A	N/A	
GigE24 Port			
Month-to-month	$ 767.00	$327.00	
3 Year Term	N/A	N/A	
5 Year Term	N/A	N/A	(L)
1 Gbps Fibre Channel			(N)
Month-to-month	$ 767.00	$578.00	
3 Year Term	N/A	N/A	
5 Year Term	N/A	N/A	
1Gbps FICON			
Month-to-month	$ 767.00	$578.00	
3 Year Term	N/A	N/A	
5 Year Term	N/A	N/A	(N)

(L) Material moved from 1st Revised Sheet 127.

Continued

ADVANCED COMPETITIVE SERVICES

H. VERIZON DEDICATED SONET RING (DSR) - Continued

4. RATES

f. Asymmetrical Port Facility (APF) (N)

(1) Monthly rate, per APF APF Type -	Maximum Monthly Rate	Current Monthly Rate
OC3 APF		
OC3 Mileage, per mile		
Month-to-Month	$ 1,000.00	$ 500.00
Three Years	750.00	375.00
Five Years	675.00	337.50
OC3 Channel Extension, each		
Month-to-Month	$ 7,600.00	$ 3,800.00
Three Years	5,700.00	2,850.00
Five Years	5,130.00	2,565.00
OC12 APF		
OC12 Mileage, per mile		
Month-to-Month	$ 2,000.00	$ 1,000.00
Three Years	1,500.00	750.00
Five Years	1,350.00	675.00
OC12 Channel Extension, each		
Month-to-Month	$ 14,000.00	$ 7,000.00
Three Years	11,000.00	5,500.00
Five Years	9,000.00	4,500.00
OC48 APF		
OC48 Mileage, per mile		
Month-to-Month	$ 7,000.00	$ 3,500.00
Three Years	5,250.00	2,625.00
Five Years	4,725.00	2,362.50
OC48 Channel Extension, each		
Month-to-Month	$ 22,000.00	$ 11,000.00
Three Years	15,000.00	7,500.00
Five Years	12,700.00	6,350.00

(2) APF Mapping Charge, per lower capacity channel mapped between two APFs on the same DSR	Nonrecurring Charge	
All Channel Types	$ 1,068.00	(N)

Continued

ADVANCED COMPETITIVE SERVICES

H. VERIZON DEDICATED SONET RING (DSR) - Continued

4. RATES - Continued

g. Optional Feature - Customer Network Management (T)

Monthly Rates

	Maximum Monthly Rate	Current Monthly Rate
Service Level 1 - Network View only		
Month-to-Month	N/A	N/A
Three Years	$ 500.00	$ 250.00
Five Years	500.00	250.00
Service Level 2 - Network View & Basic Reports		
Month-to-Month	N/A	N/A
Three Years	$ 900.00	$ 450.00
Five Years	900.00	450.00
Service Level 3 - Network View, Basic Reports & Reconfiguration		
Month-to-Month	N/A	N/A
Three Years	$ 1,700.00	$ 850.00
Five Years	1,700.00	850.00
Pre-planned Port Rates		
see H.4.d. for applicable corresponding DSR Port speeds & rates		

(T)

Continued

ADVANCED COMPETITIVE SERVICES (N)

H. VERIZON DEDICATED SONET RING (DSR) - Continued

4. RATES - Continued

e. Optional Feature - Customer Network Management

Monthly Rates

	Maximum Monthly Rate	Current Monthly Rate
Service Level 1 - Network View only		
Month-to-Month	N/A	N/A
Three Years	$ 500.00	$ 250.00
Five Years	500.00	250.00
Service Level 2 - Network View & Basic Reports		
Month-to-Month	N/A	N/A
Three Years	$ 900.00	$ 450.00
Five Years	900.00	450.00
Service Level 3 - Network View, Basic Reports & Reconfiguration		
Month-to-Month	N/A	N/A
Three Years	$ 1,700.00	$ 850.00
Five Years	1,700.00	850.00
Pre-planned Port Rates see H.4.c. for applicable corresponding DSR Port speeds & rates		

(N)

Continued

ADVANCED COMPETITIVE SERVICES

H. VERIZON DEDICATED SONET RING (DSR) - Continued

4. RATES - Continued

g. Optional Feature - Customer Network Management - Continued (T)

Nonrecurring Charges

	Nonrecurring Charge
Node Setup, per node on the ring equipped during initial establishment	$ 345.00
Initial CSM Setup, first partition with up to six (6) users	$ 500.00
Setup of additional partition, or change in CSM Service Level, each	$ 500.00
Setup of additional users, up to six (6) additional users	$ 350.00
Add/Remove Node, per node	$ 1,500.00
Utility performed reconfiguration, per mapping	$ 300.00
Consultation and Support, each thirty (30) minutes or fraction thereof	$ 100.00
Preplanned Port, per port location see H.4.e. for nonrecurring charges for corresponding DSR Port speeds - Initial Installation	(T)

Continued

ADVANCED COMPETITIVE SERVICES (N)

H. VERIZON DEDICATED SONET RING (DSR) - Continued

4. RATES - Continued

e. Optional Feature - Customer Network Management - Continued

Nonrecurring Charges

	Nonrecurring Charge
Node Setup, per node on the ring equipped during initial establishment	$ 345.00
Initial CSM Setup, first partition with up to six (6) users	$ 500.00
Setup of additional partition, or change in CSM Service Level, each	$ 500.00
Setup of additional users, up to six (6) additional users	$ 350.00
Add/Remove Node, per node	$ 1,500.00
Utility performed reconfiguration, per mapping	$ 300.00
Consultation and Support, each thirty (30) minutes or fraction thereof	$ 100.00
Preplanned Port, per port location see H.4.d. for nonrecurring charges for corresponding DSR Port speeds - Initial Installation	

(N)

Continued

ADVANCED COMPETITIVE SERVICES

I. VERIZON DEDICATED WAVELENGTH RING (DWR)

1. APPLICATION

This section contains definitions, regulations and charges applicable to the provision of Dedicated Wavelength Ring (DWR) Service furnished by the Utility within the State of California, where conditions and facilities permit.

In addition to the terms and conditions set forth in this tariff, DWR is also subject to the provisions of tariff Schedule Cal. P.U.C. No. C-1, except that, in the event of conflict, the provisions of this tariff shall take precedence. DWR may be resold but no resale discount from the Utility shall be required or shall apply.

Verizon Dedicated Wavelength Ring (DWR) is available where facilities and conditions permit in all existing Verizon exchanges as listed in Schedule Cal. P.U.C. No. AB, Sheets 1 and 2. The Utility concurs in all of the maps filed as part of Southwestern Bell Communications (SBC) Network and Exchange Services tariff, Schedule Cal. P.U.C. No. A5.1.A.

2. DESCRIPTION OF SERVICE

Dedicated Wavelength Ring (DWR) provides managed optical transport of multiple protocols which are transmitted over a single fiber optic pair. DWR is configured in a diversely routed ring architecture or topology and can be arranged as a full (closed) ring. The ring architecture allows for point-to-point optical services of varying wavelengths to be multiplexed on or off of the ring.

DWR allows for the native transmission of multiple high-speed protocols of various wavelengths over a single customized network. The wavelengths are arranged in a channelized format such that the protocol transmitted over each channel is independent of every other channel on the DWR. The customer must specify, by channel, the interface that defines the transmission speed and protocol being transmitted over the associated wavelength.

3. TERMS AND CONDITIONS

The Dedicate Wavelength Ring (DWR) is comprised of nodes, ring mileage, network optimization (amplification), and optical transport channels

a. Full Ring

A DWR full (closed) ring provides connectivity to multiple customer designated locations (nodes). A full ring must have a minimum of three nodes at different locations or two nodes at different locations with a network optimization mid-span amplifier. At least one of the devices (node or amplifier) must be located in a Central Office (CO) and one must be located at a customer's designated premises.

Continued

ADVANCED COMPETITIVE SERVICES

I. VERIZON DEDICATED WAVELENGTH RING (DWR) - Continued

3. TERMS AND CONDITIONS - Continued

b. Network Design

The Utility is responsible for the overall design and configuration of the DWR. Construction of the ring will not begin until such design and configuration are mutually agreeable to both the customer and the Utility.

The customer is responsible to ensure that its facilities and equipment meet any applicable technical requirements or limitations for the protocol being transmitted over the optical transport channels.

The technical specifications for DWR are delineated in Technical Publications GR-2918- CORE, Issue 4, GR-2979-CORE, Issue 3, GR-1312- CORE, Issue 3, ITU G.959.1, and ITU G.692.

c. Connection to a Dedicated Wavelength Ring (DWR)

Connection of SONET Connects to a DWR occurs via a protected or unprotected SONET transport channel of an equal speed as follows:

SONET Connects Capacity	Single Port Channel	Multi-port 2.5 Gbps Facility	Multi-port 10 Gbps Facility
OC3/OC3c	SONET OC3/OC3c	SONET OC3/OC3c	
OC12/OC12c	SONET OC12/OC12c	SONET OC12/OC12c	
OC48/OC48c	SONET OC48/OC48c		SONET OC48/OC48c
OC192/OC192c	SONET OC192/OC192c		

Continued

ADVANCED COMPETITIVE SERVICES

I. VERIZON DEDICATED WAVELENGTH RING (DWR) - Continued

3. TERMS AND CONDITIONS - Continued

c. Connection to a Dedicated Wavelength Ring (DWR) - Continued

Connection of Dedicated SONET Ring (DSR) to a DWR is provided over an equal speed, unprotected optical transport channel (e.g. a 155.52 Mbps unprotected channel would connect to an OC3 DSR node). Each node on the DSR ring must be located at the same customer designated premises or in the same Utility CO as its corresponding DWR node.

Connection of Custom Connect Service to a DWR is provided over an equal speed OC3/OC3c, OC12/OC12c, OC48/OC48c, or OC192/OC192c protected SONET optical transport channel with a 2-fiber or 4-fiber interface or using an equal speed or unprotected optical transport channel with a 2-fiber interface as described in the following section. Protected 4-fiber interfaces are available with single port interfaces only.

Connection of a Verizon Optical Networking to a DWR is provided over an equal speed protected optical transport channel as follows. These services are transported over the DWR using a 2-fiber protected interface or a 4-fiber protected interface.

Verizon Optical Networking Service	Single Port Channel	Multi-port 2.5 Gbps Facility	Multi-port 10 Gbps Facility
OC3c Ethernet to SONET mapped Service	SONET OC3c	SONET OC3c	
GigE12/600 Mbps Ethernet mapped to OC12c Ethernet to SONET mapped	SONET OC12c	SONET OC12c	
1 Gbps Ethernet full rate	Gigabit Ethernet	Gigabit Ethernet	Gigabit Ethernet
1 Gbps FICON	1 Gbps FICON	1 Gbps FICON	1 Gbps FICON
Fiber Channel	1 Gbps Fibre	1 Gbps Fibre	1 Gbps Fibre

Connection of a Verizon Optical Networking Gigabit Fibre Channel and/or Gigabit FICON service is provided over a Gigabit Fibre channel and/or Gigabit FICON optical transport channel.

The use of a multi-port interface card requires that all channels on a single card be interrupted during periods when the Utility is performing maintenance on that card. No credit for such periods of interruption will apply.

Continued

ADVANCED COMPETITIVE SERVICES

I. VERIZON DEDICATED WAVELENGTH RING (DWR) - Continued

4. SERVICE COMPONENTS

a. Nodes

Nodes are Dense Wave Division Multiplexing (DWDM) devices located at customer designated premises or Utility wire centers from which optical transport channels are multiplexed on or off of the DWR. The type of node that is deployed at each location is determined by the number of optical transport channels that will be multiplexed on or off of the DWR at that location.

(1) 4-Channel Node

Placement of a 4-channel node at a location enables up to 4 protected optical transport channels to be deployed. Each protected optical channel may be replaced by two unprotected optical channels up to a maximum of 8 possible channels on the node. A 4-channel node may be utilized as the primary node at a location or as an expansion node to expand the capacity of a 16-channel primary node. 4-channel nodes are subject to the availability of suitable facilities and equipment to provide such device. No more than one 4-channel node will be provided at a location.

(2) 16-Channel Node

Placement of a 16-channel node at a location enables up to 16 protected optical transport channels to be deployed. Each protected optical channel may be replaced by two unprotected optical channels up to a maximum of 32 possible channels on the primary node.

The capacity of a 16-channel primary node may be increased through the addition of an expansion node at the same location. A 4-channel expansion node enables up to 20 protected optical transport channels (i.e., 16 on the primary node and 4 on the expansion node) to be deployed at a single location. Each protected optical channel may be replaced by 2 unprotected optical channels up to a maximum of 40 possible channels at that location. A 16-channel expansion node enables up to 32 protected optical transport channels (i.e., 16 on the primary node and 16 on the expansion node) to be deployed at a single location. Each protected optical channel may be replaced by two unprotected optical channels up to a maximum of 64 possible channels at that location.

The maximum number of optical transport channels that can be deployed at a single location is dependent upon the specific configuration of the DWR and the type of optical transport channels being deployed from that location.

The customer will be billed additional charges for any charges levied the Utility for space and power required to place nodes on the Utility's side of the network interface.

When two nodes are located in the same building there will be no diversity between the two nodes.

Continued

ADVANCED COMPETITIVE SERVICES

I. VERIZON DEDICATED WAVELENGTH RING (DWR) - Continued

4. SERVICE COMPONENTS - Continued

b. Mileage

For full ring service configurations, DWR Mileage is the total of airline distances between devices (nodes and amplifiers) rounded up to the nearest mile. The mileage rate is based on total ring capacity and not on individual services between devices. For example, the mileage charge for a five device ring with two mid-span amplifiers and a distance of 4.3 miles between each device (21.5 total miles) would be calculated by multiplying the mileage rate by 22 miles.

c. Network Optimization/Amplification

Network Optimization provides for amplification of the signal to ensure acceptable optical levels. When required, amplification is performed in a Utility CO when mid-span amplification of the signal is required between nodes. Node amplification occurs in one or two directions (East to West and/or West to East). Mid-span amplification occurs simultaneously in both directions (East to West and West to East). The Utility shall have sole responsibility in determining when amplification is required and the quantity and type of amplification necessary to maintain acceptable optical levels.

d. Optical Transport Channels

Optical transport channels allow for optical services to be multiplexed on to or off of the DWR at locations equipped with a DWR node. An optical interface at the node allows for connection of the applicable protocol to the customer's equipment. Optical transport channels are provided on a node-to-node (i.e., point-to-point) basis.

A Channel Mapping nonrecurring charge applies in lieu of the rates and charges for a point-to-point transport channel. Optical Transport Channels are available on a protected or unprotected basis depending on the protocol being transmitted and the level of redundancy required for the optical channel. These channels may be ordered using a single-port interface (each a single channel per interface card) or using a multi-port interface. A multi-port interface is a facility capable of supporting up to 4 multi-port channels of ESCON, Fibre Channel, FDDI, Fast Ethernet, D1 Video, or any combination of these multi-port channels. A multi-port optical transport channel provides a two-point facility over the DWR for the purpose of aggregating multiple optical channels over a single wavelength.

Continued

ADVANCED COMPETITIVE SERVICES

I. VERIZON DEDICATED WAVELENGTH RING (DWR) - Continued

4. SERVICE COMPONENTS - Continued

d. Optical Transport Channels - Continued

Some protocols have facility distance limitations and may affect the design or availability of the DWR or its optical transport channels. The multi-port interface is provided with a short reach, 2-fiber interface with a 1310nm signal. A protected optical channel allows for a single signal from the customer to be duplicated and sent over separate diverse routes (working and protect) within the DWR network. An unprotected optical channel provides minimum protection of the signal from the customer. End-to-end protection is provided by the protection inherent in the connecting service provided by Verizon (e.g., DSR), as applicable.

Optical transport channels are delivered over a single-port interface or multi-port optical transport channel unless otherwise specified. The use of a multi-port optical transport channel and the type of optical transport channels that can be provided over a single-port or multi-port optical transport channel are subject to the availability of suitable equipment to provide the requested service. Multi-port facilities are offered in capacities of 2.5 Gbps or 10 Gbps and are capable of supporting the following channel types, in any combination up to the maximum capacity of the multi-port facility.

2.5 Gbps Multi-port Facility	10 Gbps Multi-port Facility
ESCON	1 Gbps Fibre Channel
1 Gbps Fibre Channel	2 Gbps Fibre Channel
FDDI	Gigabit Ethernet
1 Gbps FICON	1 Gbps FICON
Fast Ethernet	2 Gbps FICON
D1 Video	SONET OC48/OC48c
SONET OC3/OC3c	
SONET OC12/OC12c	
Gigabit Ethernet	

Continued

ADVANCED COMPETITIVE SERVICES

I. VERIZON DEDICATED WAVELENGTH RING (DWR) - Continued

4. SERVICE COMPONENTS - Continued

e. Protocols

All signals generated by customer provided equipment and delivered to the Utility for multiplexing on to DWR must meet industry standards and specifications for the underlying protocol. The customer is responsible to perform any error detection and error correction of the data generated by its equipment. The Utility assumes no responsibility for the quality of the signal generated by the customer or any customer provided equipment and will deliver the signal to the receiving location in the same format and condition as generated by the customer. The Utility will transmit the following protocols over DWR optical transport channels:

SONET OC3 – for transmission of 155.52 Mbps synchronous optical data transmission capability. SONET OC3 is delivered over a 2-fiber or 4-fiber single-port channel or a 2.5 Gbps multi-port channel.

SONET OC3c – for transmission of concatenated 155.52 Mbps synchronous optical data transmission capability. SONET OC3c is delivered over a 2-fiber or 4-fiber single-port channel or a 2.5 Gbps multi-port channel.

SONET OC12 – for transmission of 622.08 Mbps synchronous optical data transmission capability. SONET OC12 is delivered over a 2-fiber or 4-fiber single-port channel or a 2.5 Gbps multi-port channel.

SONET OC12c – for transmission of concatenated 622.08 Mbps synchronous optical data transmission capability. SONET OC12c is delivered over a 2-fiber or 4-fiber single-port channel or a 2.5 Gbps multi-port channel.

SONET OC48 – for transmission of 2.488 Gbps synchronous optical data transmission capability. SONET OC48 is delivered over a 2-fiber or 4-fiber single-port channel or a 10 Gbps multi-port channel.

SONET OC48c – for transmission of concatenated 2.488 Gbps synchronous optical data transmission capability. SONET OC48c is delivered over a 2-fiber or 4-fiber single-port channel or a 10 Gbps multi-port channel.

SONET OC192 – for transmission of 9.953 Gbps synchronous optical data transmission capability. SONET OC192 is delivered over a 2-fiber or 4-fiber single-port channel only.

SONET OC192c – for transmission of concatenated 9.953 Gbps synchronous optical data transmission capability. SONET OC192c is delivered over a 2-fiber or 4-fiber single-port channel only.

ESCON* – for transmission of one 200 Mbps Enterprise Service Connection channel between the same two DWR nodes used for computer-to-computer data exchange. An ESCON signal is limited to a maximum distance of 43km (physical route kilometers) between the locations involved. ESCON is delivered over a 2.5 Gbps multi-port channel only.

FICON* – for transmission of 1 Gbps and 2 Gbps Fiber Connection among mainframes, storage devices and peripherals on a single channel. A FICON signal is limited to a maximum distance of 100km (physical route kilometers) between the locations involved. FICON is delivered over a single-port channel, a 2.5 Gbps multi-port channel or a 10 Gbps multi-port channel.

* Denotes a data optical transport channel.

Continued

ADVANCED COMPETITIVE SERVICES

I. VERIZON DEDICATED WAVELENGTH RING (DWR) - Continued

4. SERVICE COMPONENTS - Continued

e. Protocols - Continued

Fibre Channel* – for transmission of 2.125 Gbps, 1.0625 Gbps, 531 Mbps, 266 Mbps and 133 Mbps in a serial link between supercomputers, mainframes, workstations, desktop computers, storage devices, displays and other peripherals. A Fiber Channel signal is limited to a maximum distance of 100km (physical route kilometers) between the locations involved. Fiber Channel signals at transmission speeds of 2.125 Gbps, 1.0625 Gbps, 531 Mbps, 266 Mbps, and 133 Mbps are delivered over a single-port channel. Fiber Channel may also be delivered over a multi-port channel as follows:

2.5 Gbps Multi-port Facility	10 Gbps Multi-port Facility
133 Mbps	1.0625 Gbps
266 Mbps	2.125 Gbps
531 Mbps	
1.0625 Gbps	

ETR/CLO* – a channel for transmission of an 8 Mbps External Timing Reference/Control Link Oscillator signal for distributing time-of-day information to all central processing units in the Sysplex and to keep the Sysplex timer units synchronized with each other. An ETR/CLO signal is limited to a maximum distance of 40km (physical route kilometers) between the locations involved. ETL/CLO is delivered over a single-port channel only.

FDDI* – for transmission of 100 Mbps Fiber Distributed Data Interface channels for general purpose interconnection between computers and peripheral equipment, including interconnection of Local Area Networks and other networks. FDDI is delivered over a single-port channel or 2.5 Gbps multi-port channel.

ISC* – for transmission of 1.06 Gbps InterSystem Channel for data caching, locking and queuing services between coupling facility and a central processing unit. An ISC signal is limited to a maximum distance of 40km (physical route kilometers) between the locations involved. ISC is delivered over a single-port channel only.

ISC3* – for transmission of 2.125 Gbps InterSystem Channel for data caching, locking and queuing services between coupling facility and a central processing unit. An ISC3 signal is limited to a maximum distance of 40 km (physical route kilometers) between the locations involved. ISC3 is delivered over a single-port channel only.

* Denotes a data optical transport channel.

Continued

ADVANCED COMPETITIVE SERVICES

I. VERIZON DEDICATED WAVELENGTH RING (DWR) - Continued

4. SERVICE COMPONENTS - Continued

e. Protocols - Continued

Fast Ethernet* – for 100 Mbps transmission of Ethernet. Fast Ethernet is delivered over a single-port or multi-port channel.

Gigabit Ethernet* – for 1.0 Gbps transmission of Ethernet. Gigabit Ethernet is delivered over a single-port channel, a 2.5 Gbps multi-port channel, or a 10 Gbps multi-port channel.

10 Gigabit Ethernet LAN-PHY – 10GBASE-R (LAN PHY) interfaces offer an effective line rate of 10.3125 Gbps (10 Gbps of data traffic encoded in a 64B/66B protocol compared to the traditional 8B/10B protocol of Gigabit Ethernet). 10 Gigabit Ethernet LAN-PHY is delivered over a single-port channel only.

10 Gigabit Ethernet WAN-PHY – 10GigE data rate and format compatible with the SONET OC192c transmission format defined by ANSI. 10 Gigabit Ethernet WAN-PHY is delivered over a single-port channel only.

D1 Video* – for uncompressed digital transmission of video signals operating at 270 Mbps. D1 Video is delivered over a single-port channel or 2.5 Gbps multi-port channel.

* Denotes a data optical transport channel.

f. Channel Interface Codes

The following channel interface codes are used for the DWR:

NCI
02FMF.4 for 4 Channel Node (Primary or Expansion)
02FMF.16 for 16 Channel Node (Primary or Expansion)

The following channel interface codes are used for channels using wavelengths on the DWR:

02FCF.10A (FDDI MM 125 Mbps)
02FCF.10A (FDDI SM 125 Mbps)
02FMF.S (DWDM 4-Port 1.25 Gbps)
02LNF. A02, A04, A07 (Fast Ethernet)
02LNF. A02, A04, A07 (Gigabit Ethernet)
02LNF.A02 (10 Gigabit Ethernet LAN-PHY)
02LNF.A02 (10 Gigabit Ethernet WAN-PHY)
02OPF.A02, A04, A07 (2.125 Gbps Fibre Channel)
02OPF.A02, A04, A07 (2.125 Gbps FICON)
02OPF.A02, A04, A07 (ISC3 at 2.125Gbps)
02OPF.A02, A04, A07 (1.0625 Gbps Fiber Channel)
02OPF.A02, A04, A07 (133 Mbps Fiber Channel)
02OPF.A02, A04, A07 (1Gbps FICON)
02OPF.A02, A04, A07 (266 Mbps Fiber Channel)
02OPF.A02, A04, A07 (531 Mbps Fiber Channel)
02OPF.A02, A04, A07 (ESCON)
02OPF.A02, A04, A07 (ETR/CLO)
02OPF.A02, A04, A07 (ISC)
02SOF.B,D,F,X (SONET OC12/OC12c)
02SOF.B,D,F,X (SONET OC192/192c)
02SOF.B,D,F,X (SONET OC3/OC3c)
02SOF.B,D,F,X (SONET OC48/OC48c)
02TD6.E (D1 Video)
04SOF.B,D,F,X (SONET OC12/OC12c)
04SOF.B,D,F,X (SONET OC3/OC3c)
04SOF.B,D,F,X (SONET OC48/OC48c)

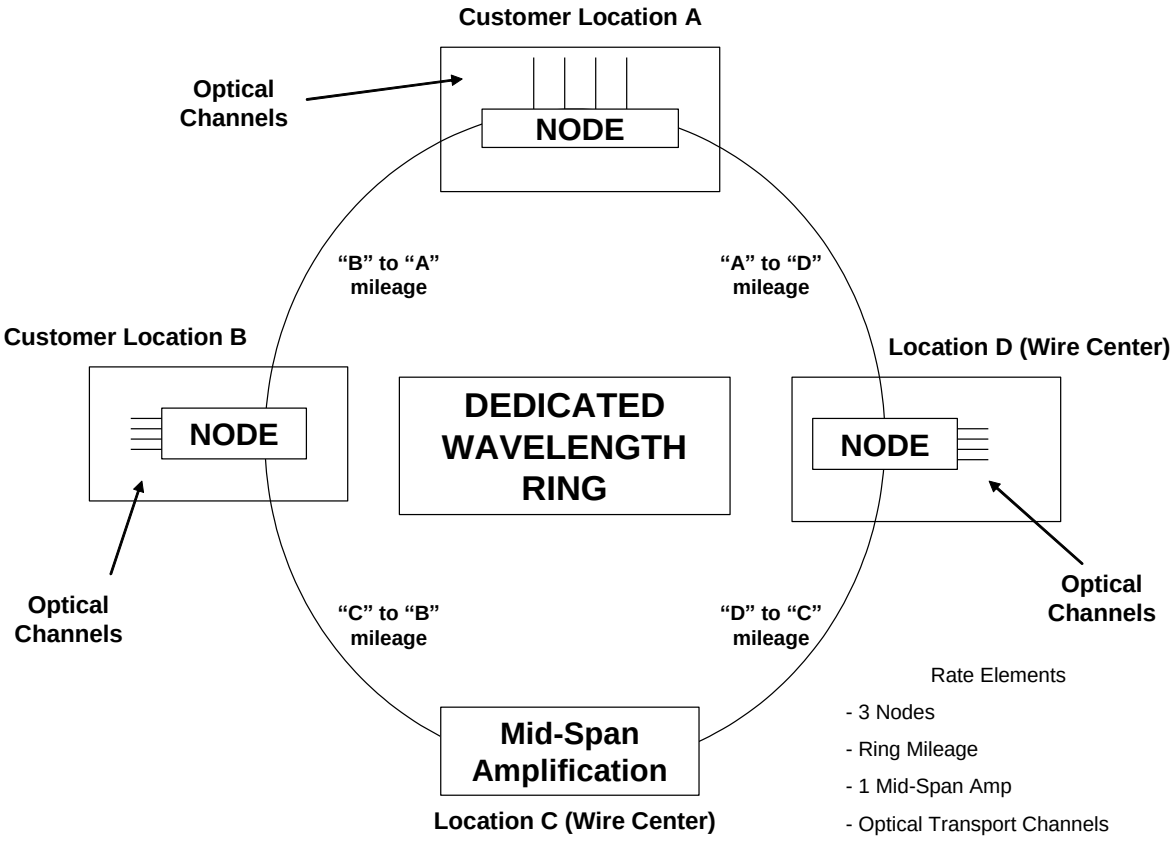
Continued

ADVANCED COMPETITIVE SERVICES

I. VERIZON DEDICATED WAVELENGTH RING (DWR) - Continued

4. SERVICE COMPONENTS - Continued

g. An example of a Dedicated Wavelength Ring is diagrammed below:



Continued

ADVANCED COMPETITIVE SERVICES

I. VERIZON DEDICATED WAVELENGTH RING (DWR) - Continued

5. APPLICATION OF RATES AND CHARGES

a. Commitment Periods

DWR is available for 3-, 5- and 7-year commitment periods for the nodes, ring mileage, network optimization mid-span amplification and optical transport channels. DWR Optical Transport Channels are also available for a 1-year commitment.

Nodes, network optimization mid-span amplification and SONET optical transport channels added subsequent to the initial installation may be coterminous to the expiration date of the DWR at the rates and charges specified for the term plan on the existing DWR or may require an extension to the existing plan as follows:

For all rate elements other than SONET optical transport channels under a 1-year commitment period,

If the addition is prior to the 21st month for an existing 3-year plan, prior to the 36th month for an existing 5-year plan, or prior to the 50th month for an existing 7-year plan, the addition will be coterminous to the expiration date of the DWR.

If the addition is after the aforementioned periods, the customer must extend the commitment period of the existing plan for an additional one-year for a 3-year plan, an additional 2 years for a 5-year plan, or an additional 3 years for a 7-year plan. SONET services associated with DWR are subject to the termination liability set forth in I.5.c following.

For SONET optical transport channels under a 1-year commitment period, the addition will have commitment period that expires one year from the date that billing for the SONET optical transport channel commences. The minimum service period for such channels is three months.

Data optical transport channels (see I.4.f.) added subsequent to the initial installation under a 3-year, 5-year or 7-year commitment period will be coterminous to the expiration date of the DWR at the rates and charges specified for the term plan on the existing DWR. These channels are subject to a minimum service period of three months.

Data optical transport channels under a 1-year commitment period will have a commitment period that expires one year from the date that billing for the SONET optical transport channel commences. The minimum service period for such channels is three months.

The addition of SONET and/or Data optical transport channels subsequent to the initial installation of service may also require the addition of an expansion node(s) and/or network optimization device(s) to accommodate the increase in channels. The addition of an expansion node or network optimization is subject to the conditions set forth above.

Continued

ADVANCED COMPETITIVE SERVICES

I. VERIZON DEDICATED WAVELENGTH RING (DWR) - Continued

5. APPLICATION OF RATES AND CHARGES - Continued

a. Commitment Periods - Continued

Monthly recurring charges apply for the nodes, ring mileage, network optimization, partial ring high speed (pass-through) interfaces (certain partial ring configurations only), and optical transport channels. The monthly rate for an optical transport channel applies for the entire point-to-point connection. The monthly rate for a point-to-fiber-meet optical transport channel applies for the entire node-to-fiber-meet (collocation arrangement in a wire center, premises or mutually agreed upon location, as applicable) connection. Once a term period expires, the prevailing rates of the current plan will continue until the customer cancels service or requests a new term plan.

When the optical transport channel is provided with a multi-port channel, rates and charges apply for the multi-port facility and for each multi-port channel riding the multi-port facility. When an optical transport channel is delivered over a multi-port channel, the multi-port facility and each multi-port channel riding the multi-port facility must be billed to the same customer who subscribes to the DWR. Once a term period expires, the prevailing rates of the current plan will continue until the customer cancels service or requests a new term plan.

The rates and charges for optical transport channels delivered over a single-port or multi-port interface are set forth in I.7.d. When the optical transport channel is provided with a multi-port interface, rates and charges apply for the multi-port facility and for each multi-port channel riding the multi-port facility.

b. Nonrecurring Charges

Nonrecurring charges for DWR apply for the initial installation of service and for any subsequent node, network optimization mid-span amplification, or optical transport channel that is added at any time after the initial installation of service. A nonrecurring charge also applies to upgrade a 4 channel primary node to a 16 channel primary node or a 4-channel expansion node to a 16-channel expansion node.

A change in the type (e.g., Fiber Channel to FICON, or SONET channel with a 2-fiber interface to SONET channel with a 4-fiber interface) or optical carrier rate (e.g., OC3 to OC12) of optical transport channel is treated as a discontinuance of the existing channel and an installation of a new optical transport channel.

When an optical transport channel is ordered to connect with DSR or Custom Connect, the optical channel will be billed to the DSR or Custom Connect customer, as applicable.

When an optical transport channel is delivered over a multi-port interface, the multi-port facility and each multi-port channel riding the multi-port facility must be billed to the same customer who subscribes to the DWR.

Continued

ADVANCED COMPETITIVE SERVICES

I. VERIZON DEDICATED WAVELENGTH RING (DWR) - Continued

5. APPLICATION OF RATES AND CHARGES - Continued

c. Termination Liability

Termination liability applies to DWR and is charged per rate element on all nodes, network optimization, optical transport channels and Network Management Methods. Data optical transport channels as set forth in this tariff are not subject to termination liability; however, such channels are subject to a minimum service period of three months.

A separate termination liability charge is assessed for each rate element associated with the disconnected DWR or a Network Management Method. For a customer who subscribes to a DWR ring that is arranged with the Direct TL1 Monitoring Optional Feature, as set forth in I.6.b following, if that customer disconnects the DWR ring along with the Direct TL1 Monitoring Optional Feature prior to the end of the commitment period, the customer would pay termination liability on the nodes, network optimization, optical transport channels and the Direct TL1 Monitoring Optional Feature monthly recurring rate elements as set forth in I.7 Rates and Charges.

DWR or a Network Management Method may be canceled without termination liability when cancellation of the DWR or Network Management Method occurs within thirty (30) days of the effective date of a Utility initiated rate increase of eight percent (8%) or more on any rate applicable to DWR service or Network Management Method.

Termination liability will not apply (1) if a customer changes its term plan to a longer commitment period; (2) if a 4 channel primary node is upgraded to a 16 channel primary node; or (3) if a 4 channel expansion node is upgraded to a 16 channel expansion node.

Termination liability will apply when the conditions above are not met and the customer cancels service prior to expiration of the plan period.

For all rate elements other than SONET optical transport channels under a 1-Year commitment period, if the cancellation occurs within the first two years of a term plan, termination liability is equal to 100 percent (100%) of the monthly charges for the unexpired portion of the first two years, and 25 percent (25%) of the monthly charges for the remainder of the plan.

If the customer cancels after the first two years of service, then termination liability is equal to 25 percent (25%) of the monthly charges for the remaining life of the term.

For SONET optical transport channels under a 1-year term commitment, if the cancellation occurs prior to completion of the 1-year commitment period, termination liability is equal to 100 percent of the monthly charges for the unexpired portion of the first year.

Continued

ADVANCED COMPETITIVE SERVICES

I. VERIZON DEDICATED WAVELENGTH RING (DWR) - Continued

5. APPLICATION OF RATES AND CHARGES - Continued

c. Termination Liability - Continued

For Dedicated Wavelength Ring (DWR) Service with a commitment period which was extended, termination liability is calculated as the difference between the monthly rates for the highest Term Pricing Plan commitment period that could have been satisfied prior to disconnection of the service or cancellation of the plan and the monthly rates already paid for the expired commitment period and the extended commitment period for the period of time the service was in effect.

d. Conversions

Customers who wish to move or convert existing Special Access DSR or High Capacity Special Access services to DWR may do so without conversion charges (termination liability and installation charges) as long as the total capacity of Special Access services or DSR purchased by the customer does not decrease.

e. Extension of a Commitment Period

The customer has the option, within sixty (60) days prior to the expiration date for its commitment period, to extend its expiring Term Pricing Plan to a plan with a longer commitment period, for which time-in-service credit will be allowed for the expiring plan. The commitment period selected for the extended plan must be longer that the commitment period of the expiring plan as follows:

- An expiring 1-Year Term may be extended to a 3-Year, 5-Year or 7-Year Term Plan.
- An expiring 3-Year Term may be extended to either a 5-Year or 7-Year Term Plan.
- An expiring 5-Year Term may be extended to a 7-Year Term Plan.

Time-in-service credit on the expiring plan will be granted and applied towards the new extended plan. For example, an expiring 3-Year term plan will allow for 3 years of time-in-service credit towards the extended plan.

The customer may also extend the commitment period in order to install additional nodes, network optimization devices or SONET optical channels as described in I.5.a preceding.

The rate for the longer commitment period will apply effective with the first bill day following expiration of the commitment period for the existing plan and continue through the remainder of the commitment period associated with the extended plan. No adjustment for the increased discount associated with the extended plan will be made to the monthly rates already billed on the expiring plan.

Continued

ADVANCED COMPETITIVE SERVICES

I. VERIZON DEDICATED WAVELENGTH RING (DWR) - Continued

5. APPLICATION OF RATES AND CHARGES - Continued

f. Credit Allowance for Service Interruption

For Dedicated Wavelength Ring (DWR) nodes and network optimization, any single service outage of four hours or more due solely to a Utility facility failure will result in a credit of 100% of the monthly rates for the applicable DWR node or network optimization devices affected. Only one such credit is allowed in a single month's billing period.

For DWR Optical Transport Channels, the following credits will be applied.

- For protected Optical Transport Channels, any Utility facility failure which is not restored within 1 minute will result in a credit of 100% of the monthly rate for the applicable protected optical channels affected. Only one such credit is allowed in a single month's billing period.

- For unprotected Optical Transport Channels, no credit applies for a service outage on these channels for which no protection is provided by the Utility.

g. Moves and Changes

A move involves a change in the physical location of the Customer designated Premises which also involves a connection to a different rate demarcation point. The charges for the move are dependent on whether the move is to a new location within the same building or to a different building.

a. Moves Within the Same Building

When the move is to a new location within the same building (Inside Move), a non-recurring charge for the Inside Move will apply. There will be no change in the Minimum Period requirement, and termination liability does not apply.

b. Moves To a Different Building

Moves to a different building (Outside Move) will be treated as a discontinuance and start of Service and all associated nonrecurring charges will apply. New minimum period and/or Service Discount Plan requirements will be established for the new Services. The Customer will also remain responsible for satisfying all outstanding minimum period and/or termination liability charges for the discontinued Service.

Continued

ADVANCED COMPETITIVE SERVICES

I. VERIZON DEDICATED WAVELENGTH RING (DWR) - Continued

5. APPLICATION OF RATES AND CHARGES - Continued

h. Cancellation Charges

For DWR, the Utility will construct the customer's dedicated ring. The customer must provide the Utility with complete and accurate information to design and construct the customer's dedicated ring. Construction will not begin until the customer and the Utility agree on the design of the ring. The order date for the ring is the date on which the customer provides the Utility with a complete and accurate order for the service. In the event that the customer cancels its request, or part of its request, for construction of the ring, cancellation charges will apply as follows.

Cancellation Charges Which Apply After the Order Date

	31st to 60th day after ordering	61st day after ordering to completion of Ring
- per Primary Node	$13,000.00	$26,000.00
- per Expansion Node	26,000.00	52,000.00
- per Mid-span Amp.	5,600.00	10,600.00

6. OPTIONAL FEATURES - NETWORK MANAGEMENT

The customer has the option of purchasing one of the following Network Management Methods for use with DWR Special Access service provided by the Utility in accordance with the tariff. Only one method may be provided on a single DWR. Network Management Methods will be available subject to compatibility of the current release of the Network Management Methods software with the DWR equipment deployed for the customer's network.

a. Customer Service Management (CSM)

CSM provides a customer with real-time information about the operational status of its DWR network. CSM provides a network view of real-time detection and reporting of network alarm conditions within the customer's DWR network. In addition, CSM provides the customer with the ability to generate basic network performance reports for its DWR network. The customer may also request network performance reports that are customized to meet their specific needs.

Continued

ADVANCED COMPETITIVE SERVICES

I. VERIZON DEDICATED WAVELENGTH RING (DWR) - Continued

6. OPTIONAL FEATURES - NETWORK MANAGEMENT - Continued

a. Customer Service Management (CSM) - Continued

(1) Terms and Conditions

The customer must utilize Internet web access to connect its customer-provided terminal equipment to the Utility's CSM management system. Access to the internet and any associated rates and charges are the responsibility of the customer. The customer is also responsible for obtaining communications software that is compatible with the software the Utility utilizes to provide CSM. The Utility will work cooperatively with the customer to determine compatibility of its communications software.

CSM is provided only when the Utility provides all nodes on the ring.

Subject to the restrictions set forth in I.6.a(3) following, CSM is provided coincident with the installation of the associated DWR ring or may be added to an existing ring.

(2) Application of Rates and Charges

A CSM monthly recurring charge applies, per full ring, for each DWR provided with the CSM optional feature.

A Node Setup charge applies, per primary or expansion node, for each node that is equipped with CSM at the time that CSM is initially established on the DWR.

An Initial CSM Setup charge applies for establishment of the customer's initial CSM database partition. The initial CSM database partition includes setup for up to six (6) users.

A Setup of Additional Users charge applies for the setup of up to six (6) additional users beyond those users included with the setup of initial or additional database partitions.

A Setup of Additional Partition charge applies for the setup of an additional CSM database partition created for the same customer. Each additional CSM database partition provides for the setup of up to six (6) additional users.

Continued

ADVANCED COMPETITIVE SERVICES

I. VERIZON DEDICATED WAVELENGTH RING (DWR) - Continued

6. OPTIONAL FEATURES - NETWORK MANAGEMENT - Continued

a. Customer Service Management (CSM) - Continued

(2) Application of Rates and Charges - Continued

An Add/Remove Node charge applies, per primary and expansion node, for each node that is added to, or removed from, a DWR equipped with CSM subsequent to the initial establishment of CSM.

A Consultation and Support charge applies for each thirty (30) minutes or fraction thereof that the customer requests Utility consultation and support of its CSM network. This charge does not apply during initial setup of CSM.

A Change in Network Management Method charge applies, per primary and expansion node, when the customer requests a change in Network Management Method (e.g., from CSM to DTM).

(3) Rate Regulations

CSM is provided under a term plan of 3 years, 5 years or 7 years, as described following:

a) The duration of the term plan for CSM must be the same duration as the term plan for the DWR nodes provided with CSM. At the expiration of its 3-, 5- or 7-year term plans for CSM, the customer has the option of extending CSM with a coterminous end date as described following.

b) The expiration date of each CSM added subsequent to the initial installation must be coterminous to the expiration date of the associated DWR, provided the addition is prior to the 21st month for a 3-year plan, prior to the 36th month for a 5-year plan, or prior to the 50th month for a 7-year plan. A CSM added after the aforementioned periods requires extension of the commitment period for the associated DWR in accordance with the tariff. Such extension results in the establishment of a new plan that includes both the DWR and the CSM under the same plan with the same expiration date.

The customer may retrieve basic reports containing performance-monitoring information on its DWR network. Basic reports are available at no additional charge to the customer. The customer may also request that a report be customized to meet its particular needs. Rates and charges for customized reports are provided on an individual case basis (ICB) only.

CSM is subject to termination liability if the service is disconnected prior to completion of the existing commitment period. The terms and conditions in I.5.c apply to termination of CSM prior to completion of the existing commitment period. Changes in Network Management Method (e.g., from CSM to DTM) will be made without termination liability subject to the Add/Remove Node charge described in I.5.a of this tariff.

Continued

ADVANCED COMPETITIVE SERVICES

I. VERIZON DEDICATED WAVELENGTH RING (DWR) - Continued

6. OPTIONAL FEATURES - NETWORK MANAGEMENT - Continued

b. Direct TL1 Monitoring (DTM)

DTM provides a customer with near real-time information about the operational status of its DWR network over a TL1 connection. A TL1 connection is a machine-to-machine communication language protocol. The connection allows a customer to monitor its DWR network via a limited set of executable TL1 commands in order to query alarm and performance criteria.

DTM enables the following:

- Near real-time access to system-generated alarm and performance messages originating from the customer's DWR network elements.
- Query and response capability that enables two-way communications with the capability to poll and retrieve messages, such as command alarms and performance messages.
- Access to ring inventory information that will enable the customer to maintain its own inventory database containing network element configurations and usage records for active service channels.
- Notification that a power failure has occurred at a DWR network element and that the affected network element has reverted to battery backup.
- Ability to monitor the ring, as well as all service channels riding the ring.

(1) Terms and Conditions

The customer must order two (2) special access services, provided by the Utility, in order to ensure secure, dedicated private line access and enable full redundancy for DTM. These special access lines must originate at the customer's designated premises and terminate at a DTM site designated by the Utility with the terms and conditions of this tariff. The customer is responsible for procuring any additional services that may be necessary to connect the special access service to the customer's designated premises.

When requested by the customer, and where technically feasible to do so, the Utility will provide encryption capabilities on the Special Access Services used to access DTM. The Utility will specify any equipment or software required to provide encryption. Obtaining such equipment or software is the responsibility of the customer. The customer is also responsible for:

a) Security of any equipment, servers, systems or other facilities provided by the customer and which have access to the DTM network; and
b) Monitoring access to the DTM service using the facilities, systems, equipment or servers provided by the customers.
c) DTM is only provided when the Utility provides all the nodes on the ring.

Continued

ADVANCED COMPETITIVE SERVICES

I. VERIZON DEDICATED WAVELENGTH RING (DWR) - Continued

6. OPTIONAL FEATURES - NETWORK MANAGEMENT - Continued

b. Direct TL1 Monitoring (DTM) - Continued

(2) Application of Rates and Charges

A DTM monthly recurring charge applies, per full ring, for each DWR provided with the DTM optional feature.

A Node Setup charge applies, per primary or expansion node, for each node that is equipped with DTM at the time that DTM is initially established on the DWR.

A DTM Setup charge applies for establishment of the customer's DTM database partition.

An Add/Remove Node charge applies, per primary and expansion node, for each node that is added to, or removed from, an DWR ring equipped with DTM subsequent to the initial establishment of DTM.

A Consultation and Support charge applies for each thirty (30) minutes or fraction thereof that the customer requests Utility consultation and support of its DTM network. This charge does not apply during initial setup of DTM.

A Change in Network Management Method charge applies, per primary and expansion node, when the customer requests a change in Network Management Method (e.g., from DTM to CSM).

(3) Rate Regulations

DTM is provided under a term plan of 3 years, 5 years or 7 years, as described following.

a) The duration of the term plan for DTM must be the same duration as the term plan for the DWR nodes provided with DTM. At the expiration of its 3-, 5- or 7-year term plans for DTM, the customer has the option of extending DTM with a coterminous end date as described following.

b) The expiration date of each DTM added subsequent to the initial installation must be coterminous to the expiration date of the associated DWR, provided the addition is prior to the 21st month for a 3-year plan, prior to the 36th month for a 5-year plan, or prior to the 50th month for a 7-year plan. A DTM added after the aforementioned periods requires extension of the commitment period for the associated DWR in accordance with the tariff. Such extension results in the establishment of a new plan that includes both the DWR and the DTM under the same plan with the same expiration date.

Termination liability will apply if DTM is removed prior to completion of the existing commitment period. The terms and conditions in I.5.c apply to termination of DTM prior to completion of the existing commitment period. Changes in Network Management Method (e.g., from DTM to CSM) will be made without termination liability subject to the Add/Remove Node charge set forth in I.5.a of this tariff.

Continued

ADVANCED COMPETITIVE SERVICES

I. VERIZON DEDICATED WAVELENGTH RING (DWR) - Continued

7. RATES AND CHARGES

a. Nodes, per node

	Monthly Rate	Initial Nonrecurring Charge
4 Channel Nodes (Primary or Expansion)		
3-Year Term	$ 6,530.00	$1.00
5-Year Term	4,900.00	1.00
7-Year Term	4,850.00	1.00
16 Channel Nodes (Primary or Expansion)		
3-Year Term	$ 8,270.00	$1.00
5-Year Term	6,200.00	1.00
7-Year Term	6,100.00	1.00

Continued

ADVANCED COMPETITIVE SERVICES

I. VERIZON DEDICATED WAVELENGTH RING (DWR) - Continued

7. RATES AND CHARGES - Continued

a. Nodes, per node - Continued

	Nonrecurring Charge
Subsequent Installation or Augmentation, per 4 channel or 16 channel Primary or Expansion node	$ 1,600.00
Upgrade to 16 channel Primary or Expansion Node, Per 4 channel Primary or Expansion Node Upgraded	20,000.00

Continued

ADVANCED COMPETITIVE SERVICES

I. VERIZON DEDICATED WAVELENGTH RING (DWR) - Continued

7. RATES AND CHARGES - Continued

b. Ring Mileage, per mile

	Monthly Rate
3-Year Term	
Mile 1 – 20	$310.00
Mile 21 and Over	310.00
5-Year Term	
Mile 1 – 20	230.00
Mile 21 and Over	230.00
7-Year Term	
Mile 1 – 20	225.00
Mile 21 and Over	225.00

Continued

ADVANCED COMPETITIVE SERVICES

I. VERIZON DEDICATED WAVELENGTH RING (DWR) - Continued

7. RATES AND CHARGES - Continued

c. Network Optimization,
per amplification device

	Monthly Rate	Initial Nonrecurring Charge
Mid-span 3-Year Term	5,130.00	1.00
Mid-span 5-Year Term	3,850.00	1.00
Mid-span 7-year Term	3,825.00	1.00

		Nonrecurring Charge
Subsequent Installation, per amplification device	--	$1,600.00

Continued

ADVANCED COMPETITIVE SERVICES

I. VERIZON DEDICATED WAVELENGTH RING (DWR) - Continued

7. RATES AND CHARGES - Continued

d. Optical Transport Channels, Point-to-Point Unprotected, Single/Multi-Port Interface

Interface Type	Monthly Rate 1-Year Term	3-Year Term	5-Year Term	7-Year Term
Unprotected SONET OC3/OC3c	$ 1,905.00	$ 1,270.00	$ 950.00	$ 850.00
Unprotected SONET OC12/OC12c	2,100.00	1,400.00	1,050.00	950.00
Unprotected SONET OC48/OC48c	2,805.00	1,870.00	1,400.00	1,300.00
Unprotected SONET OC192/OC192c	6,900.00	4,600.00	3,450.00	3,350.00
Unprotected 1 Gbps FICON	3,600.00	2,400.00	1,800.00	1,600.00
Unprotected 2 Gbps FICON	3,600.00	2,400.00	1,800.00	1,600.00
Unprotected Fiber Channel	3,600.00	2,400.00	1,800.00	1,600.00
Unprotected 2Gbps Fiber Channel	3,600.00	2,400.00	1,800.00	1,600.00
Unprotected ETR/CLO	3,600.00	2,400.00	1,800.00	1,600.00
Unprotected FDDI	3,600.00	2,400.00	1,800.00	1,600.00
Unprotected 1.06 Gbps ISC	3,600.00	2,400.00	1,800.00	1,600.00
Unprotected 2Gbps ISC3	3,600.00	2,400.00	1,800.00	1,600.00
Unprotected Fast Ethernet	3,600.00	2,400.00	1,800.00	1,600.00
Unprotected Gigabit Ethernet	3,600.00	2,400.00	1,800.00	1,600.00
Unprotected 10Gigabit Ethernet LAN-PHY/WAN-PHY	6,900.00	4,600.00	3,450.00	3,350.00
Unprotected D1 Video	3,600.00	2,400.00	1,800.00	1,600.00
Unprotected 2.5Gbps Multi-Port Facility	4,995.00	3,330.00	2,500.00	2,200.00
Unprotected Multi-Port Channel				
ESCON	225.00	225.00	225.00	225.00
Fiber Channel (up to 1Gbps)	225.00	225.00	225.00	225.00
FDDI	225.00	225.00	225.00	225.00
Fast Ethernet	225.00	225.00	225.00	225.00
D1 Video	225.00	225.00	225.00	225.00
OC3/3c	225.00	225.00	225.00	225.00
OC12/12c	225.00	225.00	225.00	225.00
Gigabit Ehternet	225.00	225.00	225.00	225.00
1Gbps FICON	225.00	225.00	225.00	225.00
Unprotected 10Gbps Multi-Port Facility	8,625.00	5,750.00	4,312.50	4,187.50
Unprotected Multi-Port Channel				
Gigabit Ethernet	225.00	225.00	225.00	225.00
1Gbps Fiber Channel	225.00	225.00	225.00	225.00
2Gbps Fiber Channel	225.00	225.00	225.00	225.00
1Gbps FICON	225.00	225.00	225.00	225.00
2Gbps FICON	225.00	225.00	225.00	225.00
OC48/48c	225.00	225.00	225.00	225.00

Continued

ADVANCED COMPETITIVE SERVICES

I. VERIZON DEDICATED WAVELENGTH RING (DWR) - Continued

7. RATES AND CHARGES - Continued

d. Optical Transport Channels, Point-to-Point Protected, Single/Multi-Port Interface

	Monthly Rate			
Interface Type	1-Year Term	3-Year Term	5-Year Term	7-Year Term
4-Fiber Protected SONET OC3/OC3c	$ 3,810.00	$ 2,540.00	$ 1,900.00	$ 1,700.00
4-Fiber Protected SONET OC12/OC12c	4,200.00	2,800.00	2,100.00	1,900.00
4-Fiber Protected SONET OC48/OC48c	5,610.00	3,740.00	2,800.00	2,600.00
4-Fiber Protected SONET OC192/OC192c	13,800.00	9,200.00	6,900.00	6,700.00
Protected SONET OC3/OC3c	2,400.00	1,600.00	1,200.00	1,100.00
Protected SONET OC12/OC12c	2,595.00	1,730.00	1,300.00	1,200.00
Protected SONET OC48/OC48c	4,305.00	2,870.00	2,150.00	1,925.00
Protected SONET OC192/OC192c	11,205.00	7,470.00	5,600.00	4,750.00
Protected 1 Gbps FICON	4,395.00	2,930.00	2,200.00	1,950.00
Protected 2 Gbps FICON	4,395.00	2,930.00	2,200.00	1,950.00
Protected Fiber Channel	4,395.00	2,930.00	2,200.00	1,950.00
Protected 2Gbps Fiber Channel	4,395.00	2,930.00	2,200.00	1,950.00
Protected FDDI	4,395.00	2,930.00	2,200.00	1,950.00
Protected 1.06 Gbps ISC	4,395.00	2,930.00	2,200.00	1,950.00
Protected 2Gbps ISC3	4,395.00	2,930.00	2,200.00	1,950.00
Protected Fast Ethernet	4,395.00	2,930.00	2,200.00	1,950.00
Protected Gigabit Ethernet	4,395.00	2,930.00	2,200.00	1,950.00
Protected 10Gigabit Ethernet LAN-PHY/WAN-PHY	11,205.00	7,470.00	5,600.00	4,750.00
Protected D1 Video	4,395.00	2,930.00	2,200.00	1,950.00

Continued

ADVANCED COMPETITIVE SERVICES

I. VERIZON DEDICATED WAVELENGTH RING (DWR) - Continued

7. RATES AND CHARGES - Continued

d. Optical Transport Channels, Point-to-Point Protected, Single/Multi-Port Interface - Continued

Interface Type	Monthly Rate 1-Year Term	3-Year Term	5-Year Term	7-Year Term
Protected 2.5Gbps Multi-Port Facility	$ 6,000.00	$ 4,000.00	$ 3,000.00	$ 2,700.00
Protected Multi-Port Channel				
ESCON	225.00	225.00	225.00	225.00
Fiber Channel (up to 1Gbps)	225.00	225.00	225.00	225.00
FDDI	225.00	225.00	225.00	225.00
Fast Ethernet	225.00	225.00	225.00	225.00
D1 Video	225.00	225.00	225.00	225.00
OC3/3c	225.00	225.00	225.00	225.00
OC12/12c	225.00	225.00	225.00	225.00
Gigabit Ehternet	225.00	225.00	225.00	225.00
1Gbps FICON	225.00	225.00	225.00	225.00
Protected 10Gbps Multi-Port Facility	14,006.25	9,337.50	7,000.00	5,937.50
Protected Multi-Port Channel				
Gigabit Ethernet	225.00	225.00	225.00	225.00
1Gbps Fiber Channel	225.00	225.00	225.00	225.00
2Gbps Fiber Channel	225.00	225.00	225.00	225.00
1Gbps FICON	225.00	225.00	225.00	225.00
2Gbps FICON	225.00	225.00	225.00	225.00
OC48/48c	225.00	225.00	225.00	225.00

Continued

ADVANCED COMPETITIVE SERVICES

I. VERIZON DEDICATED WAVELENGTH RING (DWR) - Continued

7. RATES AND CHARGES - Continued

e. Initial and Subsequent Installations - Nonrecurring Charges,
Per optical transport channel

Interface Type	Nonrecurring Charge
Unprotected SONET OC3/OC3c	$ 1.00
Unprotected SONET OC12/OC12c	1.00
Unprotected SONET OC48/OC48c	1.00
Unprotected SONET OC192/OC192c	1.00
Unprotected 1Gbps FICON	1.00
Unprotected 2Gbps FICON	1.00
Unprotected 1GbpsFiber Channel	1.00
Unprotected 2Gbps Fiber Channel	1.00
Unprotected ETR/CLO	1.00
Unprotected FDDI	1.00
Unprotected 1.06 Gbps ISC	1.00
Unprotected 2Gbps ISC3	1.00
Unprotected Fast Ethernet	1.00
Unprotected Gigabit Ethernet	1.00
Unprotected 10 Gigabit Ethernet (LAN-PHY/WAN-PHY)	1.00
Unprotected D1 Video	1.00
Unprotected 2.5Gbps Multi-Port Facility	1.00
Unprotected Multi-Port Channel	
ESCON	1.00
Fiber Channel (up to 1Gbps)	1.00
FDDI	1.00
Fast Ethernet	1.00
D1 Video	1.00
OC3/3c	1.00
OC12/12c	1.00
Gigabit Ethernet	1.00
1Gbps FICON	1.00
Unprotected 10Gbps Multi-Port Facility	1.00
Unprotected Multi-Port Channel	
Gigabit Ethernet	1.00
1Gbps Fiber Channel)	1.00
2Gbps Fiber Channel	1.00
1Gbps FICON	1.00
2Gbps FICON	1.00
OC48/48c	1.00

Continued

ADVANCED COMPETITIVE SERVICES

I. VERIZON DEDICATED WAVELENGTH RING (DWR) - Continued

7. RATES AND CHARGES - Continued

e. Initial and Subsequent Installations - Nonrecurring Charges,
Per optical transport channel - Continued

Interface Type	Nonrecurring Charge
4-Fiber Protected SONET OC3/OC3c	$ 1.00
4-Fiber Protected SONET OC12/OC12c	1.00
4-Fiber Protected SONET OC48/OC48c	1.00
4-Fiber Protected SONET OC192/OC192c	1.00
Protected SONET OC3/OC3c	1.00
Protected SONET OC12/OC12c	1.00
Protected SONET OC48/OC48c	1.00
Protected SONET OC192/OC192c	1.00
Protected 1 Gbps FICON	1.00
Protected 2 Gbps FICON	1.00
Protected Fiber Channel	1.00
Protected 2Gbps Fiber Channel	1.00
Protected FDDI	1.00
Protected 1.06 Gbps ISC	1.00
Protected 2Gbps ISC3	1.00
Protected Fast Ethernet	1.00
Protected Gigabit Ethernet	1.00
Protected 10 Gigabit Ethernet (LAN-PHY/WAN-PHY)	1.00
Protected D1 Video	1.00

Continued

ADVANCED COMPETITIVE SERVICES

I. VERIZON DEDICATED WAVELENGTH RING (DWR) - Continued

7. RATES AND CHARGES - Continued

e. Initial and Subsequent Installations - Nonrecurring Charges,
Per optical transport channel - Continued

Interface Type	Nonrecurring Charge
Protected 2.5Gbps Multi-Port Facility	$ 1.00
Protected Multi-Port Channel	
ESCON	1.00
Fiber Channel (up to 1Gbps)	1.00
FDDI	1.00
Fast Ethernet	1.00
D1 Video	1.00
OC3/3c	1.00
OC12/12c	1.00
Gigabit Ethernet	1.00
1Gbps FICON	1.00
Protected 10Gbps Multi-Port Facility	1.00
Protected Multi-Port Channel	
Gigabit Ethernet	1.00
1Gbps Fiber Channel)	1.00
2Gbps Fiber Channel	1.00
1Gbps FICON	1.00
2Gbps FICON	1.00
OC48/48c	1.00

Continued

ADVANCED COMPETITIVE SERVICES

I. VERIZON DEDICATED WAVELENGTH RING (DWR) - Continued

7. RATES AND CHARGES - Continued

f. Optional Features - Network Management Methods

(1) Customer Service Management

	Monthly Rate
CSM, per primary ring	
3 year	$ 450.00
5 year	450.00
7 year	450.00
Customized Reports	ICB

	Nonrecurring Charge
Node Setup, per primary or expansion node on the ring equipped during initial CNM Method establishment	$ 200.00
Initial CSM Setup, first partition with up to 6 users	500.00
Setup of Additional Partition	500.00
Setup of Additional Users, up to 6 additional users	350.00
Add/Remove Node, per primary or expansion node added to, or removed from, the CSM ring subsequent to initial establishment or for a Change in Network Management Method	200.00
Consultation and Support, each 30 minutes or fraction thereof	100.00
Change Network Management Method, from CSM to DTM, per node	200.00

Continued

ADVANCED COMPETITIVE SERVICES

I. VERIZON DEDICATED WAVELENGTH RING (DWR) - Continued

7. RATES AND CHARGES - Continued

f. Optional Features - Network Management Methods - Continued

(2) Direct TL1 Monitoring (DTM)

	Monthly Rate
DTM, per primary ring	
3 year	$ 450.00
5 year	450.00
7 year	450.00
Customized Reports	ICB

	Nonrecurring Charge
Node Setup, per primary or expansion node on the ring equipped during initial DTM establishment	$ 200.00
Initial DTM Setup, first partition with up to 6 users	500.00
Add/Remove Node, per primary or expansion node added to, or removed from, the DTM ring subsequent to initial establishment or for a Change in Network Management Method	200.00
Consultation and Support, each 30 minutes or fraction thereof	100.00
Change Network Management Method, from DTM to CSM, per node	200.00

Continued

ADVANCED COMPETITIVE SERVICES

I. VERIZON INTEGRATED OPTICAL SERVICES (IOS)

1. APPLICATION

This section contains definitions, regulations and charges applicable to the provision of Integrated Optical Services (IOS) furnished by the Utility within the State of California, where conditions and facilities permit.

In addition to the terms and conditions set forth in this tariff, IOS is also subject to the provisions of tariff Schedule Cal. P.U.C. No. C-1, except that, in the event of conflict, the provisions of this tariff shall take precedence. IOS may be resold but no resale discount from the Utility shall be required or shall apply.

Verizon Integrated Optical Services (IOS) is available where facilities and conditions permit in all existing Verizon exchanges as listed in Schedule Cal. P.U.C. No. AB, Sheets 1 and 2. The Utility concurs in all of the maps filed as part of Southwestern Bell Communications (SBC) Network and Exchange Services tariff, Schedule Cal. P.U.C. No. A5.1.A.

2. DESCRIPTION OF SERVICE

Integrated Optical Service (IOS) is a dedicated optical network that integrates Dense Wave Division Multiplexing (DWDM), Synchronous Optical Network (SONET), and packet technologies into a single network. An IOS network may be configured specifically to address the Customer's diversity and survivability requirements and may be configured as a single diversely routed ring. The rings are full (closed). The protocols that can be transmitted over IOS include, but are not limited to, time division multiplexing (TDM), SONET, Ethernet, Storage, Video, and mainframe. These services may be protected or unprotected depending on the level of survivability required by the Customer.

IOS is designed with fiber path diversity, which provides two fiber pairs, placed in physically separate paths (e.g. different conduit paths) and separated by at least twenty-five (25) feet. Such 25-foot separation is not required: a) on Customer's property, even if past the Point of Termination; b) five hundred (500) feet out from the property line of the Customer Node location; and c) five hundred (500) feet out from any Verizon central office Node location.

IOS provides a high capacity optical network for the delivery of a variety of interfaces and protocols. Each signal (Rider) transported over IOS is provisioned over a single or multiple Facilities of the dedicated optical network.

An IOS full (closed) ring provides connectivity to multiple locations (Nodes) using Facilities and network elements provided solely by Verizon. A minimum of three (3) Nodes are required of which one (1) Node must be located at a Customer designated Premises and one (1) Node must be located in a Verizon Wire Center.

Continued

ADVANCED COMPETITIVE SERVICES

I. VERIZON INTEGRATED OPTICAL SERVICES (IOS) - Continued

3. ACRONYMS AND DEFINITIONS

a. Acronyms

ANSI - American National Standards Institute
CSM – Customer Service Management Optional Feature
DSR – Dedicated SONET Ring
EPR - Ethernet Packet Ring
F.C.C. - Federal Communications Commission
Gbps - Gigabits Per Second
GigE - Gigabit Ethernet
HDTV - High Definition Television
IBT – IntelliLight® Broadband Transport
IOTS - IntelliLight® Optical Transport Service
LAN - Local Area Network
Mbps - Megabits Per Second
OC - Optical Carrier
SLA - Service Level Agreement
STS - Synchronous Transport Signal
UNI - User to Network Interface

b. Definitions

Appearance: an IOS rate element that denotes the interface at which a Rider terminates or originates at an IOS Node.

Central Office (CO): A Verizon office or building in which local loops serving a Customer designated Premises in a locality are connected to each other or to a Verizon optical network at such office or building.

Channel(s): an electrical or photonic, in the case of fiber optic-based transmission systems, communications path between two (2) or more points of termination.

Customer(s): any individual, partnership, association, joint-stock company, trust, corporation, or governmental entity or other entity which subscribes to the Services or other arrangements offered under this Product Guide, including both Interexchange Carriers and End Users.

Customer Premises Equipment (CPE): terminal equipment connected to Verizon's network and residing on the Customer designated Premises.

Drop Port Protection: provided on SONET appearances in which a four fiber (4-fiber) 1+1 interface is demarcated. This 1+1 interface is protected against a port failure either on the Verizon side or on the Customer side of the demarcation point.

Continued

ADVANCED COMPETITIVE SERVICES

I. VERIZON INTEGRATED OPTICAL SERVICES (IOS) - Continued

3. ACRONYMS AND DEFINITIONS - Continued

b. Definitions - Continued

Facilities: telecommunications cables and equipment owned and utilized by Verizon in the provision of service.

Node: A rate element and a designation of either a Customer designated Premises or CO on an IOS ring that has ADM capability.

Optical Carrier Rate (OCn): a SONET transmission signal/speed, line rate, or service. The rates are in multiples of an OC1, which is equivalent to an STS1 (51.84 Mbps), SONET's basic rate.

OCn Rate	Bandwidth Capacity
OC3	155.52 Mbps
OC12	622.08 Mbps
OC48	2.488 Gbps
OC192	9.953 Gbps

Optical Carrier Rate Concatenated (OCnc): a "clear channel" SONET transmission using only one (1) framing format. For example, an OC3 signal provides three (3) STS1 frame formats with 3 overheads for a total capacity of 2,268 bytes per SPE frame in an OC3c signal. In an OC3c signal, one (1) STS3c frame format is used with one (1) overhead, increasing the total payload capacity to 2,340 bytes per SPE frame.

Point of Termination: the point of demarcation within the Customer designated Premises at which Verizon's responsibility for the provision of Service ends.

Premises: a building, a portion of a building in a multi-tenant building, or buildings on a continuous property (except Railroad Right-of-Way, etc.) not separated by a public highway.

Service Date: the date that a service has been installed, tested, and made available to the Customer. A confirmed ASR is required to establish a Service Date.

Continued

ADVANCED COMPETITIVE SERVICES

I. VERIZON INTEGRATED OPTICAL SERVICES (IOS) - Continued

3. ACRONYMS AND DEFINITIONS - Continued

b. Definitions - Continued

SONET (Synchronous Optical Network): the North American standard for the transmission of high capacity bandwidth over optical Facilities. This synchronous transmission platform utilizes a modular multiplexing approach. Because of the large bandwidth, some of the payload is used to monitor, protect, manage, and improve the transmission of the signal.

Synchronous Transport Signal - Level (STS1): a 51.84 Mbps signal that is the electrical equivalent of the OC1 or a DS3 with additional Mbps devoted to SONET overhead information. The STS1 signal consists of overhead and an SPE. The overhead part of the signal is used for controlling, framing, and maintaining the signal. An STS1 can carry a DS3 or 28 DS1s when specifically formatted (Mapped). However, individual DS1s within a DS3 are not accessible within SONET and their performance cannot be guaranteed for this reason. These DS1s may be accessed using the Special Access DS3-to-DS1 multiplexing optional service.

Wire Center: a Verizon building in which one (1) or more Central Office switches and cross connection equipment used for the provision of Verizon telecommunications services are located.

4. SERVICE COMPONENTS

a. Components

1) Nodes

Nodes are optical networking devices located at Customer designated Premises or Verizon Wire Centers from which Riders are multiplexed on or off of the IOS network. The configuration of an IOS Node that is deployed at each location is determined by the number and type of Riders that are transported between locations.

Each Node allows Protected or Unprotected Riders to be deployed, as described in I.4.a.3) following.

The maximum number of Riders that can be deployed at a single location is dependent upon the specific configuration of the IOS network and the type and quantity of Riders being deployed from that location.

Continued

ADVANCED COMPETITIVE SERVICES

I. VERIZON INTEGRATED OPTICAL SERVICES (IOS) - Continued

4. SERVICE COMPONENTS - Continued

a. Components - Continued

2) Ring Mileage

For full ring service configurations, Ring Mileage is the total of airline distances between devices (Nodes and/or high speed pass-through interfaces) rounded up to the nearest mile. The mileage rate is based on total ring capacity and not on individual services between devices. For example, the mileage charge for a five device ring and a distance of 4.3 miles between each device (21.5 total miles) would be calculated by multiplying the mileage rate by 22 miles.

The mileage between devices located at the same Customer designated Premises or Verizon CO (e.g., dual Nodes at the same Premises) is zero.

The mileage calculation applies regardless of the number of services that are transported over the IOS ring.

3) Riders

Riders allow lower level signals to be transported over the IOS network. Riders allow for optical services to be multiplexed on to or off of the IOS network at locations equipped with a Node. An optical interface at the Node allows for connection of the applicable protocol to the Customer's equipment.

Riders are available on a Protected or Unprotected basis depending on the protocol being transmitted and the level of redundancy required for the Rider. Some protocols have facility distance limitations and may affect the design or availability of the IOS network or its Riders.

i) Protected Rider

A Protected Rider allows for a single signal from the Customer to be duplicated and sent over separate diverse routes (working and protect) within the IOS network. At the option of the Customer, network Protected Riders may be ordered with Drop Port Protection.

ii) Unprotected Rider

An Unprotected Rider provides minimum protection of the signal from the Customer. Verizon does not provide route (network level) protection or Drop Port Protection on an Unprotected Rider. However, a Customer purchasing two (2) Unprotected Riders may create their own protection schemes.

Riders are provided on a Node-to-Node (i.e., point-to-point) basis.

Continued

ADVANCED COMPETITIVE SERVICES

I. VERIZON INTEGRATED OPTICAL SERVICES (IOS) - Continued

4. SERVICE COMPONENTS - Continued

a. Components - Continued

3) Riders - Continued

The services transmitted as Riders over the IOS network include the following protocols:

DS1 (available pursuant to Verizon's Tariff F.C.C. Nos. 14 and/or 16) – for transmission of isochronous serial data at a rate of 1.544 Mbps.

DS3 (available pursuant to Verizon's Tariff F.C.C. Nos. 14 and/or 16) – for transmission of isochronous serial data at a rate of 44.736 Mbps.

SONET OC3 – for transmission of 155.52 Mbps synchronous optical data transmission capability.

SONET OC3c – for transmission of concatenated 155.52 Gbps synchronous optical data transmission capability.

SONET OC12 – for transmission of 622.08 Mbps synchronous optical data transmission capability.

SONET OC12c – for transmission of concatenated 622.08 Gbps synchronous optical data transmission capability.

SONET OC48 – for transmission of 2.488 Gbps synchronous optical data transmission capability.

SONET OC48c – for transmission of concatenated 2.488 Gbps synchronous optical data transmission capability.

SONET OC192 – for transmission of 9.953 Gbps synchronous optical data transmission capability.

SONET OC192c – for transmission of concatenated 9.953 Gbps synchronous optical data transmission capability.

Continued

ADVANCED COMPETITIVE SERVICES

I. VERIZON INTEGRATED OPTICAL SERVICES (IOS) - Continued

4. SERVICE COMPONENTS - Continued

a. Components - Continued

3) Riders - Continued

The services transmitted as Riders over the IOS network include the following protocols: - Continued

10 Gigabit Ethernet LAN-PHY – 10GBASE-R (LAN PHY) interfaces offer an effective line rate of 10.3125 Gbps (10 Gbps of data traffic encoded in a 64B/66B protocol compared to the traditional 8B/10B protocol of Gigabit Ethernet).

10 Gigabit Ethernet WAN-PHY – 10GigE data rate and format compatible with the SONET OC192c transmission format defined by ANSI.

10 Mbps Ethernet – for 10 Mbps transmission of Ethernet.

Fast Ethernet – for 50 Mbps or 100 Mbps transmission of Ethernet.

Gigabit Ethernet – for 1.0 Gbps transmission of Ethernet. Gigabit Ethernet may also be mapped at 50, 100, 150, 300, 450, or 600 Mbps.

Fibre Channel – for full-duplex, serial bit transmission at a link rate of 1, 2, 4 or 10 Gbps Fibre Channel among mainframes, storage devices, and peripherals.

D1 Video – for uncompressed digital transmission of video signals operating at 270 Mbps.

High Definition Video – for uncompressed digital transmission of video signals operating at 1.485Gbps.

When a Rider is ordered to connect with Verizon Optical Networking, Custom Connect or IBT, the Rider will be billed to the Verizon Optical Networking, Custom Connect or IBT Customer, as applicable.

Continued

ADVANCED COMPETITIVE SERVICES

I. VERIZON INTEGRATED OPTICAL SERVICES (IOS) - Continued

4. SERVICE COMPONENTS - Continued

a. Components - Continued

4) Ethernet Packet Ring Service Optional Feature

a) Description

EPRS is available on IOS. EPRS enables switched Ethernet signals to be transmitted over partitioned bandwidth of the Customer's IOS.

The partitioned bandwidth is comprised of STS1 capacity within the IOS that is dedicated to unprotected Ethernet signal transmission between Nodes on that IOS. Ethernet signals must originate at, and terminate to, Nodes that are located at a Customer designated Premises. These Nodes are part of the backbone ring for IOS and are also used to add lower level services onto the backbone ring or to drop lower level services from the backbone ring.

Multiple EPRS partitions may be created on the same IOS. Subject to the preceding paragraph, in no case will the total bandwidth of the EPRS partition(s) exceed the remaining OCn capacity of the IOS. Ethernet traffic on the EPRS partition may be transmitted in either direction (East to West or West to East) around the ring.

Connection to other Verizon Ethernet services is prohibited.

Verizon does not guarantee the performance of Ethernet signals transported over EPRS.

Monthly rates apply for each EPR Station per Node and to each UNI associated with that EPR Station. Nonrecurring charges apply for the installation of EPRS UNIs on a first and additional basis. Rates and charges EPRS are provided on an individual case basis (ICB) only.

Continued

ADVANCED COMPETITIVE SERVICES

I. VERIZON INTEGRATED OPTICAL SERVICES (IOS) - Continued

4. SERVICE COMPONENTS - Continued

a. Components - Continued

4) Ethernet Packet Ring Service Optional Feature - Continued

b) Service Components of EPRS

EPRS is comprised of EPR Stations and UNIs.

An EPR Station defines the bandwidth required for the partitioned EPRS. A minimum of one EPR Station is required per EPRS. Available EPR Station rates include:

EPR Station Rate	OC12	OC48	OC192
50 Mbps (STS1)	X	X	X
150 Mbps (STS3 or STS3c)	X	X	X
300 Mbps (STS6 or STS6c)	X	X	X
450 Mbps (STS9 or STS9c)	X	X	X
600 Mbps (STS12 or STS12c)		X	X
1000 Mbps (STS21/24 or STS21c/24c)		X	X

UNIs provide access to the EPRS partition on the IOS ring. A minimum of two UNIs is required per EPRS partition. The maximum number of UNIs per EPRS partition is dependent upon the type and capacity of Enhanced Nodes on the IOS. Available UNIs on EPR stations are as follows:

	EPR Station Rate					
Available UNIs	50 Mbps	150 Mbps	300 Mbps	450 Mbps	600 Mbps	1,000 Mbps
10 Mbps UNIs	X	X	X	X	X	X
100 Mbps UNIs	X	X	X	X	X	X
1000 Mbps UNIs	X	X	X	X	X	X

Continued

ADVANCED COMPETITIVE SERVICES

I. VERIZON INTEGRATED OPTICAL SERVICES (IOS) - Continued

4. SERVICE COMPONENTS - Continued

a. Components - Continued

4) Ethernet Packet Ring Service Optional Feature - Continued

b) Service Components of EPRS - Continued

Verizon will disable SONET protection on the portion of the IOS that is partitioned for transmission of Ethernet traffic. No credit applies for a service outage of EPRS, or for any Ethernet signal transported over EPRS, when the SONET protection is disabled by Verizon.

When an EPRS partition is established on an IOS that is also configured with Customer Service Management as set forth in Section 4.B following, Customer Service Management functionality will not be provided on EPRS or any Ethernet signals transmitted over EPRS.

EPRS cannot be used to access Transparent LAN Service.

b. Customer Service Management (CSM)

Customer Service Management (CSM) provides a customer a view of their IOS network. CSM will be accessible via the internet on the Verizon Business Customer Center (VBCC). CSM will provide inventory and circuit information with regards to the IOS network and all services that ride the IOS.

The Customer may retrieve basic reports containing performance monitoring information on its IOS network. Basic reports are available at no additional charge to the Customer. The Customer may also request that a report be customized to meet its particular needs. Rates and charges for customized reports are provided on an individual case basis (ICB) only.

The Customer must utilize Internet web access to connect its Customer provided terminal equipment to Verizon's CSM management system. Access to the Internet and any associated rates and charges are the responsibility of the Customer. The Customer is also responsible for obtaining communications software that is compatible with the software Verizon utilizes to provide CSM. Verizon will work cooperatively with the Customer to determine compatibility of its communications software.

CSM is provided as part of the IOS offering at no additional charge.

EPRS partitions and Ethernet signals transmitted over such partitions are not accessible via CSM.

Continued

ADVANCED COMPETITIVE SERVICES

I. VERIZON INTEGRATED OPTICAL SERVICES (IOS) - Continued

5. TECHNICAL SPECIFICATIONS

a. Technical Specifications

The technical specifications for IOS are currently delineated in following Technical References:

DWDM. Technical Publications GR-2918-CORE, Issue 4, GR-2979-CORE, Issue 3, GR-1312-CORE, Issue 3, ITU-T G.959.1 and ITU-T G.692 for DWDM.

SONET. Technical Publications GR-253-CORE, Issue 3, GR-1374-CORE, Issue 1, ANSI T1.105-1995 for SONET.

EPRS. Technical Publication IEEE 802.17 for EPRS.

b. Protocols

The technical publications for the protocols transmitted over IOS are set forth in:

Protocol Transmitted	Technical Publication
DS1, DS3	GR-342, Issue 1, Pub 62411, TR-NPL-000054, TR-EOP-000063 Issue 1
OC3, OC3c, OC12, OC12c, OC48, OC48c, OC192, OC192c	GR-253-CORE, Issue 3
Ethernet (10 Mbps)	ANSI/IEEE 802.3
Fast Ethernet	ANSI/IEEE 802.3u
Gigabit Ethernet	ANSI/IEEE X3.802.3, X3.802.3z
10 Gigabit Ethernet WAN-PHY	IEEE 802.3ae with WAN Interface Sublayer
10 Gigabit Ethernet LAN-PHY	IEEE 802.3ae with LAN Interface Sublayer
Fibre Channel	ANSI/NCITS 404 - 2005 ANSI/NCITS 364 - 2004
D1 Video	ANSI/SMPTE 259M – 1997

Technical specifications are subject to change in accordance with changes adopted by standards-setting industry bodies. Such updates to technical specifications, as they occur, and as determined by Verizon, shall be automatically incorporated without the requirement to amend this tariff.

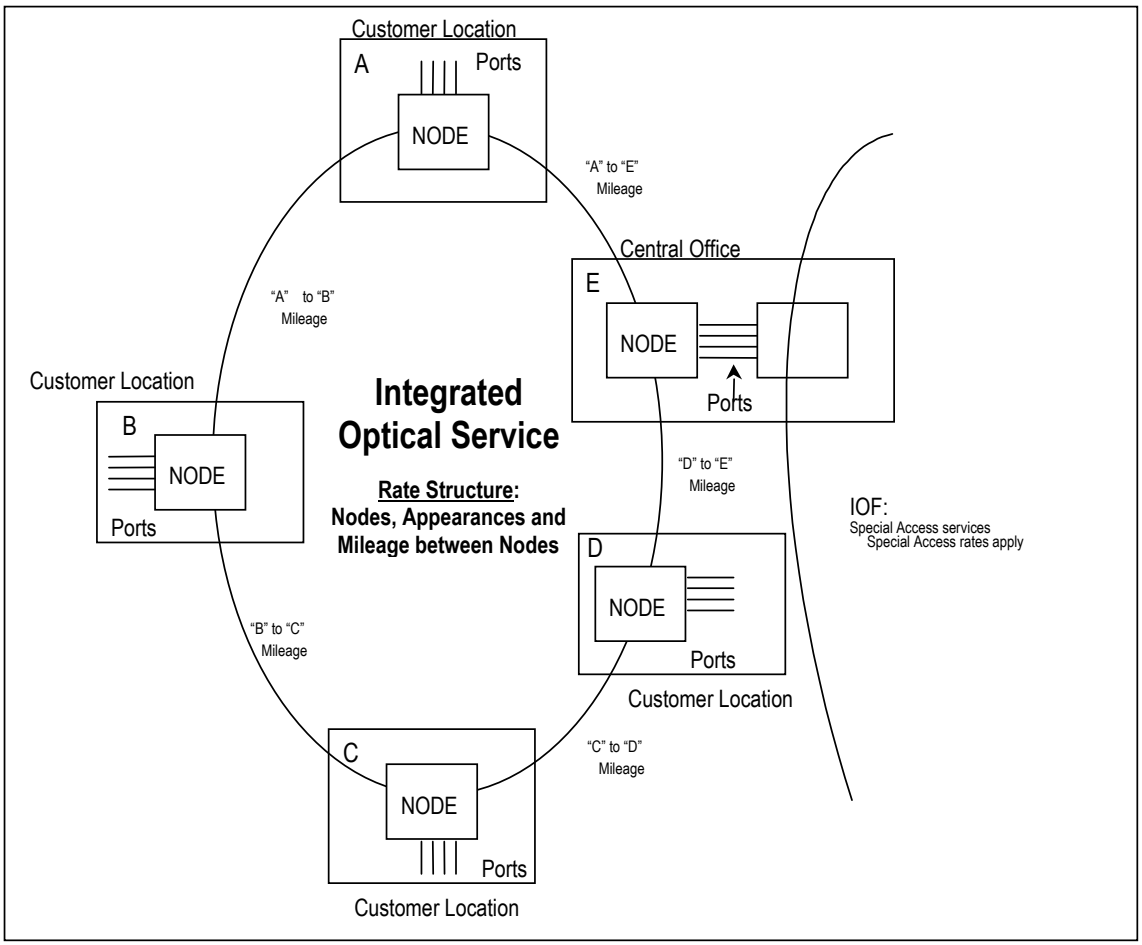
Continued

ADVANCED COMPETITIVE SERVICES

I. VERIZON INTEGRATED OPTICAL SERVICES (IOS) - Continued

5. TECHNICAL SPECIFICATIONS - Continued

c. An example of an Integrated Optical Service ring is diagrammed below:



Continued

ADVANCED COMPETITIVE SERVICES

I. VERIZON INTEGRATED OPTICAL SERVICES (IOS) - Continued

6. TERMS AND CONDITIONS

a. Deployment and Availability

Because IOS is a dedicated high capacity customized network, it is deployed upon Customer request. Where suitable Facilities and equipment are not sufficient or do not exist to provide IOS, Verizon may provide the Service subject to additional special construction, if any. If the Customer agrees to the special construction charges, the Parties shall either enter in to a separate agreement for such special construction, or enter into an amendment to an existing agreement, as mutually agreed to by the Parties.

The provisioning of IOS is based on negotiated intervals between Verizon and the Customer.

b. Connection to Other Services

IOS connects to other Verizon services only as expressly stated herein:

Special Access DS1 and DS3 High Capacity Services - Connection of Special Access DS1 and DS3 High Capacity Services are provided pursuant to Verizon's Tariff F.C.C. Nos. 1, 11, 14, and/or 16.

IBT - Connection of IBT to an IOS network is provided over an equal speed OC3/OC3c, OC12/OC12c, OC48/OC48c, or OC192/OC192c Protected Rider or Protected Rider with Drop Port Protection.
All other applicable IBT regulations apply.

Verizon Optical Networking - Connection of a Verizon Optical Networking Ethernet service to an IOS network is provided over an equal speed protected Ethernet Rider. Connection of a Verizon Optical Networking Ethernet-to-SONET mapped service is provided over an equal speed Protected SONET Rider. All other applicable Verizon Optical Networking regulations apply to the derived Ethernet-to-SONET mapped service.

Available Verizon Optical Networking Service	Interface Connections
10M Ethernet	10BaseT
Fast Ethernet @ 50Mbps	10BaseT or 100FX
Fast Ethernet @ 100Mbps	10BaseT or 100FX
Gigabit Ethernet @ 50Mbps	1000SX or LX
Gigabit Ethernet @ 150Mbps	1000SX or LX
Gigabit Ethernet @ 300Mbps	1000SX or LX
Gigabit Ethernet @ 450Mbps	1000SX or LX
Gigabit Ethernet @ 600Mbps	1000SX or LX
Gigabit Ethernet @ 1000Mbps	1000SX or LX

Continued

ADVANCED COMPETITIVE SERVICES

I. VERIZON INTEGRATED OPTICAL SERVICES (IOS) - Continued

6. TERMS AND CONDITIONS - Continued

b. Connection to Other Services - Continued

Available Verizon Optical Networking Service	Interface Connections - Continued
10M Ethernet mapped to STS1	OC3, OC12, OC48
Fast Ethernet mapped to STS1	OC3, OC12, OC48
Fast Ethernet mapped to OC3c	OC3c, OC12,OC48
Gigabit Ethernet @ 50Mbps mapped to STS1	OC3, OC12, OC48
Gigabit Ethernet @ 150Mbps mapped to 3 STS1s	OC3, OC12, OC48
Gigabit Ethernet @ 300Mbps mapped to 6 STS1s	OC12, OC48
Gigabit Ethernet @ 450Mbps mapped to 9 STS1s	OC12, OC48
Gigabit Ethernet @ 600Mbps mapped to 12 STS1s	OC12, OC48
Gigabit Ethernet @ 600Mbps mapped to OC12c	OC12c, OC48
Gigabit Ethernet @ 1000Mbps mapped to 21 STS1s	OC48

Custom Connect - Connection of Custom Connect to an IOS network is provided over an equal speed OC3/OC3c, OC12/OC12c, OC48/OC48c, or OC192/OC192c Protected Rider or a Protected Rider with Drop Port Protection (e.g., a 155.52 Mbps Protected Rider would connect to a Custom Connect SONET OC3 service). All other applicable Custom Connect and SONET regulations apply to the derived Custom Connect.

c. Responsibilities of the Parties

The Customer is responsible to ensure that its Facilities and equipment meet any applicable technical requirements or limitations for the protocol being transmitted over IOS.

Verizon is responsible for the overall design and configuration of the IOS network. Construction of the IOS network will not begin until such design and configuration are mutually agreeable to both the Customer and Verizon.

All signals generated by the Customer provided equipment and delivered to Verizon for multiplexing on to IOS must meet industry standards and specifications for the underlying protocol. The Customer is responsible to perform any error detection and error correction of the data generated by its equipment. Verizon assumes no responsibility for the quality of the signal generated by the Customer or any Customer provided equipment and will deliver the signal to the receiving location in the same format and condition as generated by the Customer.

Continued

ADVANCED COMPETITIVE SERVICES

I. VERIZON INTEGRATED OPTICAL SERVICES (IOS) - Continued

6. TERMS AND CONDITIONS - Continued

d. Service Level Agreements

1) General

The following Service Level Agreements (SLAs) apply only to the IOS network and Riders. The applicable SLAs are Mean Time To Restore and Service Availability. Customer is eligible for Service Response Credits (SRCs) for missed SLAs with respect to the IOS network and Riders (Affected Services). No SLAs shall be available until the Affected Service measured is in service for at least one full calendar month.

In order to obtain an SRC, Customer must make a written request as directed by Verizon for such SRCs within thirty (30) calendar days of the end of the monitoring period for the SLA measurement. The request must include a list of all impacted circuit/connection identification numbers and the type of SRC requested for each circuit/connection. The monitoring period for all SLAs is based on a calendar month. Any SRCs are subject to verification by Verizon through its own monitoring systems and procedures.

For any calendar month, the SRCs may not exceed the total monthly recurring charges (MRCs) billed to Customer for the Affected Service that is subject to a missed SLA for that month.

No SRCs will be issued to the extent the missed SLA is caused by the following:

a) The negligence of the Customer or a third party authorized by the Customer to use the IOS;

b) Failure of power, CPE or other equipment, systems, facilities or services not provided by Verizon;

c) Customer's failure to release any IOS component for testing and/or repair or Verizon is otherwise not afforded access to the premises where the IOS are provided;

d) The SLA is missed due to routine maintenance of the IOS, an IOS rearrangement requested by Customer, or the implementation of a Customer issued service order for a change to the IOS;

e) Customer failure to authorize replacement of any element of new construction following the receipt of written notification by Verizon of the need for such replacement;

f.) Force majeure events;

g) Subsequent reports made by Customer while the initial trouble report is pending or service troubles repaired by Verizon prior to its receipt of a trouble report; and

h) Service troubles closed due to Customer action.

Continued

ADVANCED COMPETITIVE SERVICES

I. VERIZON INTEGRATED OPTICAL SERVICES (IOS) - Continued

6. TERMS AND CONDITIONS - Continued

d. Service Level Agreements - Continued

2) Service Availability

The Service Availability SLA refers to the percentage of time during a calendar month that the Affected Services (*i.e.*, IOS network or Riders as may be applicable) is available for use by Customer, which means that the Affected Service is capable of transmitting data over such Affected Service. Measurements for Service Availability shall not be rounded up. Service Availability is calculated based upon the total number of minutes in a calendar month that Customer was actually in service divided by the total number of minutes in such month for all Affected Services.

With respect to IOS network, the Service Availability SLA is 99.999%. If the overall Service Availability measurement for the IOS network is less than that threshold for a calendar month, Customer is eligible for an SRC of twenty-five percent (25%) of the MRCs for Nodes and Mileage.

The Service Availability measurement of a Protected Rider is 99.999%. The Service Availability of an Unprotected Rider is 99.000%. When the Service Availability SLA for a Rider is not met, Customer is eligible for an SRC of twenty-five percent (25%) of the MRCs for the Appearances relating to the Affected Rider that did not meet such threshold during such calendar month.

3) Mean Time to Restore

The Mean Time to Restore (MTTR) SLA refers to the average Time to Restore (TTR) for Customer-reported IOS Interruptions. An IOS Interruption shall mean that data cannot be transported over the IOS network solely because of a failure in Verizon-provided facilities.

The TTR is measured from the date and time a trouble ticket is opened by Verizon and the date and time when such ticket is closed by Verizon. In measuring the TTR, any stop clock time or adjusted duration time basis associated with the trouble shall be subtracted from such measurement. For purposes of this measurement, stop clock time refers to:

a) time periods when Customer testing is occurring,

b) time periods when Verizon is awaiting Customer authorization to commence work on the IOS;

c) periods when the Customer is working on its equipment and has not released the facility to Verizon for maintenance, testing, or repair;

d) Verizon is denied access to Customer premises or facilities as necessary to diagnose, repair or test;

Continued

ADVANCED COMPETITIVE SERVICES

I. VERIZON INTEGRATED OPTICAL SERVICES (IOS) - Continued

6. TERMS AND CONDITIONS - Continued

d. Service Level Agreements - Continued

3) Mean Time to Restore - Continued

e) periods following a repair of a Service when the trouble ticket is held open by Customer to ensure the trouble is resolved;

f) periods when pre-defined maintenance windows have been established between the Customer and Verizon, and

g) any time period during which any of the occurrences listed in I.6.d.3)a)-f) preceding existed.

The MTTR SLA shall not apply to cases where no trouble is found, informational tickets, subsequent trouble tickets made by Customer while the initial trouble report is pending or trouble repaired by Verizon prior to its receipt of a trouble ticket.

The MTTR SLA shall be measured on a calendar month basis and shall be calculated by adding the TTR for all IOS Interruptions and dividing that sum by the total number of trouble tickets opened for such Interruptions for that Customer during that month. Calculation of MTTR shall exclude any subsequent reports (additional Customer inquiries while the trouble is pending), and troubles repaired by Verizon prior to receipt of a trouble report on the Affected Service from Customer.

If the MTTR for the IOS network is greater than 2.5 hours over the calendar month, then Customer will be eligible for an SRC of twenty-five percent (25%) of the MRC per Affected Node or Mileage that was interrupted for more than 2.5 hours.

The MTTR for a Service Interruption of a Protected Rider is 2.5 hours. The MTTR for a Service Interruption of an Unprotected Rider is four (4) hours. For a Protected Rider, if the MTTR is greater than 2.5 hours over the calendar month, then Customer will be eligible for an SRC of one hundred percent (100%) of the MRC per Appearance for such Affected Rider that was interrupted for more than 2.5 hours. For an Unprotected Rider, if the MTTR is greater than four (4) hours over the calendar month, then Customer is eligible for an SRC of one hundred percent (100%) of the MRC per Appearance for such Affected Rider that was interrupted for more than four (4) hours.

4) Exceptions

The Remedies set forth in Section I.6.d. 2) and 3) preceding will not apply in the following instances:

a) Interruptions, failures, or delays in service resulting from DC power, equipment, service, or services not under the sole responsibility of Verizon.

b) Interruptions, failures, or delays in service resulting from Customer owned and/or installed equipment.

Continued

ADVANCED COMPETITIVE SERVICES

I. VERIZON INTEGRATED OPTICAL SERVICES (IOS) - Continued

6. TERMS AND CONDITIONS - Continued

d. Service Level Agreements - Continued

4) Exceptions - Continued

c) Interruptions, failures, or delays in service that occur at any time in which Verizon or its authorized agents, after reasonable attempt to gain access to the Customer designated premises, are not granted access to such premises where Verizon Facilities and equipment associated with the provision of IOS are terminated.

d) Interruptions or delays in service resulting from maintenance, rearrangement of service, or implementation of an order authorized by the Customer.

e) Interruptions, failures, or delays in service resulting from the Customer's refusal to release IOS to Verizon or its authorized agents for testing and/or repair, after reasonable attempts by Verizon or its authorized agent to schedule repair with the Customer.

f) Interruptions, failures, or delays in service due to acts of God or the public enemy, compliance with any order of any governmental authority, acts of terrorism, war, rebellion, insurrection, or sabotage or damage resulting from, fires, floods, earthquakes, unusually severe weather, explosions, washouts, rules and regulations with regard to common carriers, accidents, epidemics, breakdowns, riots, strikes or other concerted acts of its employees, whether direct or indirect, lockouts or other industrial disturbances, whether direct or indirect, worms, viruses or other contaminants that may cause damage to or disable software, computer, or electronic services, or any similar cause, or other causes beyond such party's reasonable control.

g) Interruptions, failures, or delays in service during periods of scheduled maintenance and scheduled downtimes where the Customer has received prior written (electronic, fax, or paper) notification from Verizon.

h) Interruptions resulting from the negligence, gross negligence, willful misconduct, or other act or omission of the Customer or other party authorized by the Customer to use the service.

e. Conversions and Upgrades

Customers who wish to convert one (1) or both Points of Termination of an existing High Capacity Special Access services, Special Access DSR, Special Access IOTS, Special Access IBT, or Special Access Custom Connect to IOS may do so without conversion charges (termination liability and installation charges) as long as the total capacity of Special Access services purchased by the Customer does not decrease.

Continued

ADVANCED COMPETITIVE SERVICES

I. VERIZON INTEGRATED OPTICAL SERVICES (IOS) - Continued

7. APPLICATION OF RATES AND CHARGES

a. Monthly Rates

MRCs apply for the Node, Ring Mileage, and Riders.

The MRC for a Rider applies per appearance, and two (2) appearances apply per Rider for the entire point-to-point (Node-to-Node) connection. MRCs for Riders are also differentiated by whether the Rider is Protected or Unprotected, and whether the Rider is delivered with Drop Port Protection.

b. Nonrecurring Charges

A nonrecurring charge (NRC) applies for any subsequent installation of a Node.

Subsequent installations of Nodes include (i) Nodes that are added to an existing ring, and (ii) existing Nodes on the ring that are moved to a new location and remain on that same ring. Nodes that are moved to a new location and remain on the same ring are also subject to the requirements set forth in Section I.7.c. following.

A Consultation and Support charge applies for each thirty (30) minutes or fraction thereof that the Customer requests Verizon consultation and support of its CSM network. This charge does not apply during initial setup of CSM.

First and additional nonrecurring charges apply for the installation of EPRS UNIs provided on a month-to-month basis.

Any other required work, services or facilities not referred to herein will be provided subject to prevailing tariff rates and charges, or if no tariff is applicable, as mutually agreed to in writing by the parties.

c. Term Plans

IOS is available for term plans of 1 year, 2 years, 3 years, 5 years, or 7 years (Commitment Periods) for the Nodes, Ring Mileage, and Riders. IOS is also available with a 3-, 5-, or 7-year Commitment Period for EPRS. EPRS UNIs and certain Riders are also available on month-to-month basis. However, such Riders shall have a 12 month minimum service period. As such, if a month-to-month Rider is terminated prior to the first twelve months following installation of such Rider, the Customer will be responsible for termination liability of 100% of the monthly rates for the Rider times the number of months left in such twelve month period.

Continued

ADVANCED COMPETITIVE SERVICES

I. VERIZON INTEGRATED OPTICAL SERVICES (IOS) - Continued

7. APPLICATION OF RATES AND CHARGES - Continued

c. Term Plans - Continued

Nodes, Riders, and EPRS UNIs added subsequent to the initial installation and prior to the first twelve (12) months of a 2-year term plan, the first twenty-one (21) months of a 3-year term plan, the first thirty-six (36) months of a 5-year term plan, or the first fifty (50) months of a 7-year term plan will be added to the existing term plan with an expiration date that is coterminous with the expiration date for the remainder of the service. For example, a Node added in the 18th month of a 3-year term plan will be added to the existing term plan for the balance of the 3-year Commitment Period. The rate applicable to such Node is the 3-year rate for the applicable Rider. Nodes added to an IOS on a 1-year term plan require a 1-year extension beyond the completion of the current 1-year term plan.

Nodes, Riders, and EPRS UNIs added subsequent to the initial installation and after the first 12 months of a 2-year term plan, the first 21 months of a 3-year term plan, the first 36 months of a 5-year term plan, or the first 50 months of a 7-year term plan require that the existing term plan be extended so that the term plan will include the existing services and the added services. In doing so, the expiration date of the existing services and the added services will be common (coterminous) for all rate elements of the service. The existing term plan shall be extended by 12 months for a 2-year term plan, 12 months for a 3-year term plan, 24 months for a 5-year term plan, or 36 months for a 7-year term plan. For example, a Node added in the 38th month of a 5-year term plan requires that the expiration date for the 5-year term plan be extended by 24 months so that the existing rate elements (e.g., Nodes, Riders, etc) and the added Node will have a coterminous expiration date.

EPRS UNIs provided on a month-to-month basis may be added at any time. Changes in month-to-month billed EPRS UNIs are treated as disconnects and subsequent installations.

Riders (appearances) provided on a month-to-month basis may be added at any time subsequent to the initial installation of IOS. Such Riders will be added for the balance of the applicable Commitment Period and do not require extension of the term plan as specified in Section I.7.d. following. Riders are described in Section I.4.a.3) preceding.

d. Extension and Renewal of Commitment Period

Once a term period expires, the prevailing rates of the current term plan will continue until the Customer cancels service, extends the term plan, or requests a new term plan.

When the Commitment Period for IOS is extended under this Section (V)(C), termination liability is calculated as the difference between the monthly rates for the highest term plan Commitment Period that could have been satisfied prior to disconnection of the service or cancellation of the plan and the monthly rates already paid for the expired Commitment Period and the extended Commitment Period for the period of time the service was in effect. For example: If a customer is on a 3-year plan and extends to a 5-year plan, and terminates the service in month 48, the termination liability will be the difference between the 3-year Node and Mileage MRC and 5-year Node and Mileage MRC multiplied by 12 months (for months 37 through 48).

Continued

ADVANCED COMPETITIVE SERVICES

I. VERIZON INTEGRATED OPTICAL SERVICES (IOS) - Continued

7. APPLICATION OF RATES AND CHARGES - Continued

d. Extension and Renewal of Commitment Period - Continued

The Customer has the option to extend its expiring term plan to a plan with a longer Commitment Period, for which the original term will be considered under the new extended term. For example, an expiring 3-year term plan will allow for 3 years towards the extended plan. The Commitment Period selected for the extended plan must be longer than the Commitment Period of the expiring plan as follows:

- An expiring 1-year term plan may be extended to a 2-year, 3-year, 5-year, or 7-year term plan.
- An expiring 2-year term plan may be extended to a 3-year, 5-year, or 7-year term plan.
- An expiring 3-year term plan may be extended to a 5-year or 7-year term plan.
- An expiring 5-year term plan may be extended to a 7-year term plan.

The Customer may also extend the Commitment Period in order to install additional Nodes or Riders as described in Section I.7.c. preceding.

The rate for the longer Commitment Period will apply effective with the first bill day following expiration of the Commitment Period for the existing plan and continue through the remainder of the Commitment Period associated with the extended plan. No adjustment for the increased discount associated with the extended plan will be made to the monthly rates already billed on the expiring plan.

e. Moves and Changes

1) Node Moves

The Customer may move a Node subject to all of the following:

a) The Node must remain on the same ring.

b) The Customer remains responsible for any outstanding minimum period obligations on the Node being disconnected from its originally installed location.

c) A new minimum period will be established for the Node at the newly installed location.

d) The newly installed Node will be treated as a Node addition in accordance with Section I.7.b. preceding.

e) A subsequent installation charge applies for installation of the Node at the new location.

When the above requirements are met, termination liability will not apply for discontinuance of the Node from its originally installed location. In all other cases, termination liability applies for discontinuance of the Node from its originally installed location.

Continued

ADVANCED COMPETITIVE SERVICES

I. VERIZON INTEGRATED OPTICAL SERVICES (IOS) - Continued

7. APPLICATION OF RATES AND CHARGES - Continued

e. Moves and Changes - Continued

2) Change in Rider

A change in the type (e.g., Fibre Channel to Gigabit Ethernet) of a Rider is treated as a discontinuance of the existing Rider and an installation of a new Rider. Termination liability does not apply to a Rider that is changed to another Rider of the same bandwidth.

A change of a Rider to a new Rider with a higher optical carrier rate (e.g., OC3 to OC12) is an upgrade for which termination liability charges do not apply to the Rider being disconnected.

Minimum period obligations apply for both of the changes in Riders described above.

f. Order Cancellation

A Customer may cancel an order for the installation of IOS at any time prior to notification by Verizon that service is available for the Customer's use or prior to the Service Date, whichever is later. The cancellation date is the date Verizon receives written or verbal notice from the Customer that the order is to be cancelled. The verbal notice must be followed by written confirmation within ten (10) days.

Cancellation charges apply if the Customer cancels an order, or part of an order, for the installation of Integrated Optical Service, or to partition the ring for EPRS, after providing Verizon with written or electronic notification to begin installation. Cancellation charges apply as follows:

1. When a Customer cancels the order, or part of the order, within the first thirty (30) days following written or electronic notification to Verizon to begin installation, no cancellation charge will apply.

2. When a Customer cancels the order, or part of the order, on the thirty-first (31st) day, but no later than the sixtieth (60th) day, following written or electronic notification to Verizon to begin installation, cancellation charges will apply.

3. When a Customer cancels the order, or part of the order, on the sixty-first (61st) day following written or electronic notification to Verizon to begin installation, up to the date of notification that installation is complete, cancellation charges will apply.

4. If the Customer cancels the order, or part of the order, after installation is complete, cancellation will apply. Minimum period charges as described in Section I.7.h. following and termination liability as described in Section I.7.g. following will also apply.

5. When a Customer cancels the order, or part of the order, to establish an EPRS partition on its Integrated Optical Service, cancellation charges apply.

Continued

ADVANCED COMPETITIVE SERVICES

I. VERIZON INTEGRATED OPTICAL SERVICES (IOS) - Continued

7. APPLICATION OF RATES AND CHARGES - Continued

g. Termination Liability

Termination liability applies to IOS and is charged per monthly rate element on all Nodes, Riders (Appearances), and EPRS.

Termination liability does not apply to Ring Mileage.

A separate termination liability charge is assessed for each rate element associated with the disconnected IOS.

Termination liability is calculated as follows:

1) If the disconnection occurs during the first year of the Commitment Period, the Minimum Period obligation specified in Section I.7.h. following applies for the unexpired portion of the first year. Termination liability is calculated at one hundred percent (100%) of the MRCs for the second year and twenty-five percent (25%) of the MRCs for the 25th month through the remainder of the Commitment Period, as applicable.

2) If the disconnection occurs during the second year of the Commitment Period, termination liability is calculated at one hundred percent (100%) of the MRCs for the unexpired portion of the second year and twenty-five percent (25%) of the MRCs for the 25th month through the remainder of the Commitment Period, as applicable.

3) If the disconnection occurs after the first two (2) years of the Commitment Period, termination liability is calculated at twenty-five (25%) of the MRCs from the date of disconnection through the remainder of the Commitment Period.

IBT, Special Access DS1 and DS3 High Capacity Service, and Verizon Optical Networking services associated with IOS are subject to the termination liability specified for such service pursuant to the applicable arrangement offered by Verizon (e.g., tariff or contract).

h. Minimum Period

The minimum period for which IOS (i.e. Nodes, Mileage and Riders) is provided is twelve (12) months, regardless of the applicable term plan requested.

When an IOS term plan is disconnected prior to the expiration of the minimum period, minimum period charges are applicable for the balance of the minimum period. The charge for each month, or fraction thereof, remaining in the minimum period is the applicable monthly rate for the service.

Riders must be purchased for a minimum period of twelve (12) months following installation of such Riders. Off-Net Riders may also be purchased for longer service periods of twenty-four (24), thirty-six (36) or sixty (60) months.

Continued

ADVANCED COMPETITIVE SERVICES

I. VERIZON INTEGRATED OPTICAL SERVICES (IOS) - Continued

8. RATES AND CHARGES

a. IOS Nodes, per node

	Monthly Rate
Month to month	N/A
1-Year Term	$ 14,000.00
2-Year Term	11,000.00
3-Year Term	8,800.00
5-Year Term	7,500.00
7-Year Term	7,000.00

	Nonrecurring Charge
Subsequent Node Installation Charge	$ 5,000.00

Continued

ADVANCED COMPETITIVE SERVICES

I. VERIZON INTEGRATED OPTICAL SERVICES (IOS) - Continued

8. RATES AND CHARGES - Continued

b. IOS Mileage, per mile

	Monthly Rate
Month to month	N/A
1-Year Term	$ 625.00
2-Year Term	500.00
3-Year Term	400.00
5-Year Term	350.00
7-Year Term	325.00

Continued

ADVANCED COMPETITIVE SERVICES

I. VERIZON INTEGRATED OPTICAL SERVICES (IOS) - Continued

8. RATES AND CHARGES - Continued

c. Protected Riders,

Two Appearances per Rider provided on a Node-to-Node (i.e., point-to-point) basis

	Monthly Rate					
Appearance Type	Month-to-Month	1-Year Term	2-Year Term	3-Year Term	5-Year Term	7-Year Term
DS1	$ 75.00	$ 75.00	$ 75.00	$ 75.00	$ 75.00	$ 75.00
DS3	150.00	150.00	150.00	150.00	150.00	150.00
SONET OC3/3c	450.00	450.00	450.00	450.00	450.00	450.00
SONET OC12/12c	650.00	650.00	650.00	650.00	650.00	650.00
SONET OC48/48c	900.00	900.00	900.00	900.00	900.00	900.00
SONET OC192/192c	2,200.00	2,200.00	2,200.00	2,200.00	2,200.00	2,200.00
SONET OC3/OC3c, w/Drop Side Protection	525.00	525.00	525.00	525.00	525.00	525.00
SONET OC12/OC12c, w/Drop Side Protection	775.00	775.00	775.00	775.00	775.00	775.00
SONET OC48/OC48c, w/Drop Side Protection	1,075.00	1,075.00	1,075.00	1,075.00	1,075.00	1,075.00
SONET OC192/OC192c, w/Drop Side Protection	2,550.00	2,550.00	2,550.00	2,550.00	2,550.00	2,550.00
1 Gbps Fibre Channel	750.00	750.00	750.00	750.00	750.00	750.00
2 Gbps Fibre Channel	1,250.00	1,250.00	1,250.00	1,250.00	1,250.00	1,250.00
4 Gbps Fibre Channel	1,500.00	1,500.00	1,500.00	1,500.00	1,500.00	1,500.00
10 Gbps Fibre Channel	2,200.00	2,200.00	2,200.00	2,200.00	2,200.00	2,200.00
10M Ethernet	150.00	150.00	150.00	150.00	150.00	150.00
Fast Ethernet @ 50Mbps	150.00	150.00	150.00	150.00	150.00	150.00
Fast Ethernet @ 100Mbps	200.00	200.00	200.00	200.00	200.00	200.00
Gigabit Ethernet @ 50Mbps	600.00	600.00	600.00	600.00	600.00	600.00
Gigabit Ethernet @ 100Mbps	600.00	600.00	600.00	600.00	600.00	600.00
Gigabit Ethernet @ 150Mbps	600.00	600.00	600.00	600.00	600.00	600.00
Gigabit Ethernet @ 300Mbps	600.00	600.00	600.00	600.00	600.00	600.00
Gigabit Ethernet @ 450Mbps	600.00	600.00	600.00	600.00	600.00	600.00
Gigabit Ethernet @ 600Mbps	600.00	600.00	600.00	600.00	600.00	600.00
Gigabit Ethernet @ 1000Mbps	750.00	750.00	750.00	750.00	750.00	750.00
10Gbps Ethernet (LAN-PHY/WAN-PHY)	2,200.00	2,200.00	2,200.00	2,200.00	2,200.00	2,200.00
SDI Video 270Mbps	800.00	800.00	800.00	800.00	800.00	800.00
High Definition Video 1.485Gbps	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00

Continued

ADVANCED COMPETITIVE SERVICES

I. VERIZON INTEGRATED OPTICAL SERVICES (IOS) - Continued

8. RATES AND CHARGES - Continued

d. Unprotected Riders,
Two Appearances per Rider provided on a Node-to-Node (i.e., point-to-point) basis

	Monthly Rate					
Appearance Type	Month-to-Month	1-Year Term	2-Year Term	3-Year Term	5-Year Term	7-Year Term
SONET OC48/48c	$ 650.00	$ 650.00	$ 650.00	$ 650.00	$ 650.00	$ 650.00
SONET OC192/192c	1,225.00	1,225.00	1,225.00	1,225.00	1,225.00	1,225.00
1 Gbps Fibre Channel	625.00	625.00	625.00	625.00	625.00	625.00
2 Gbps Fibre Channel	825.00	825.00	825.00	825.00	825.00	825.00
4 Gbps Fibre Channel	1,025.00	1,025.00	1,025.00	1,025.00	1,025.00	1,025.00
10 Gbps Fibre Channel	1,225.00	1,225.00	1,225.00	1,225.00	1,225.00	1,225.00
Gigabit Ethernet @ 1000Mbps	625.00	625.00	625.00	625.00	625.00	625.00
10Gbps Ethernet (LAN-PHY/WAN-PHY)	1,225.00	1,225.00	1,225.00	1,225.00	1,225.00	1,225.00

	Nonrecurring Charge
e. Consultation and Support, each 30 minutes or fraction thereof	$ 100.00

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