FACILITY HUBS

A. DEFINITIONS

Intermediate Hub

The term "Intermediate Hub" denotes a wire center, that provides multiplexing, which can serve itself and one or more wire centers within the LATA. In an Intermediate Hub (wire center), a SONET, DS3 or DS1 facility can be multiplexed and the individual Special Access channels are terminated at Customer designated premises located within the local serving area of that wire center. Individual Special Access channels can be extended through any designated wire center(s) subtending the Intermediate Hub within the LATA to terminate at Customer designated premises located within the local serving area of each wire center.

Super-Intermediate Hub

The term "Super-Intermediate Hub" denotes a wire center that serves itself and/or subtending wire centers in an entire LATA or within one or more specific NPA(s) in a LATA for the provision of multiplexing a SONET, DS3 or DS1 facility. In this Super-Intermediate Hub (wire center) a SONET, DS3 or DS1 facility can be multiplexed and the individual channels terminated at Customer designated end office or access tandem switches, or at Customer designated premises located within the local serving area of this Super-Intermediate Hub. The individual channels can be extended through its subtending wire center(s) to terminate at Customer designated premises located within the local serving area of each subtending wire center.

Super-Intermediate Hub locations for SONET services are the same Super-Intermediate Hub locations where DS3 to DS1 multiplexing is performed.

In Verizon New York Inc.:
The LATAs within which one or more DS1 to Voice Super-Intermediate Hub(s) have been established, the area and NPA(s) or portion of an NPA served by each Hub are as follows:

LATA/Hub(s)	Area Served	NPA(s)
Albany	Entire LATA	518
Binghamton	Entire LATA	607
Buffalo	Entire LATA	716
New York METRO	NPAs	203*, 914
New York METRO	NPAs	212, 347, 646, 718, 917,201**
New York METRO	NPAs	516, 631
Poughkeepsie	Entire LATA	914
Syracuse	Entire LATA	315, 607

A DS3 to DS1 Super-Intermediate Hub serves the entire LATA in which it has been established.

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A. DEFINITIONS (Cont'd)

In Verizon New England Inc.:
A DS1 to Voice Super-Intermediate Hub serves the entire LATA in which it has been established.
A DS3 to DS1 Super-Intermediate Hub serves the entire LATA in which it has been established.

The LATAs within which one or more DS3 to DS1 Super-Intermediate Hubs(s) have been established, the area and NPA(s) served by each hub are as follows:

LATA/Hub(s)	Area Served	NPA(s)
Albany	Entire LATA	518
Binghamton	Entire LATA	607
Buffalo	Entire LATA	716
New York METRO	Entire LATA	203*, 212,347,516, 631,646, 718, 914, 917, 201**, 732**, 908**, 973**
Poughkeepsie	Entire LATA	914
Syracuse	Entire LATA	315,607

*NPA 203 includes only those Connecticut locations within the operating territory of the Company in the State of Connecticut.
** The New Jersey NPA 201 has been included for the purpose of establishing the locations within the New Jersey portion of the New York-New Jersey Corridor which may be served by a Super-Intermediate Hub.

Terminus Hub
The term "Terminus Hub" denotes a wire center in which a SONET, DS3 or DS1 facility can be multiplexed to individual channels. A Terminus Hub serves only Customers in the wire center in which the multiplexing is performed.

Vertical Service
The term "Vertical Service" denotes an Access Service which is provided in conjunction with (or vertical to) Special Access Service at a Company Hub. The function of a vertical service is to connect two or more Special Access Services to create a two-point Special Access Service between Customer designated premises.

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B. GENERAL

A Customer has the option of ordering Voice Grade facilities or digital high capacity facilities (i.e., DS1 or DS3) to a facility Hub for distributing or channelizing to individual services requiring lower capacity facilities (e.g., Voice, etc.), except for Video Services which are always ordered to a hub although they do not require multiplexing.

When digital high capacity facilities are provided between a Customer premises and a facility Hub, the facility will not be considered an end-to-end service until an associated channelized service is installed. The facility Hub will not be considered as a Customer premises.

Different locations may be designated as Hubs*, ** for different functions (such as bridging or multiplexing arrangements) for different facility capacities.

In the operating territories of Region 11, locations (wire centers) that provide multiplexing of High Capacity Services have been designated as Intermediate Hubs, Super-Intermediate Hubs or Terminus Hubs (described herein).

Locations (wire centers) that provide grooming of Enterprise Services are the wire centers designated as NES Hubs.

When ordering the Customer will specify the desired multiplexing Hub(s) selected from the NECA Tariff FCC No. 4. This tariff identifies the type(s) of bridging, multiplexing or grooming functions which are available, the serving wire centers at which they are available, and, for the operating territories of Region 11, the serving wire centers that subtend High Capacity DS3 to DS1 and DS1 to Voice multiplexing Hubs.

When a DS3 High Capacity Service is multiplexed at a Customer designated premises, such configuration is not a Company Hub for purposes of administering the terms and conditions of this Product Guide.

Some of the types of multiplexing available include the following:

- from higher to lower bit rate
- from higher to lower bandwidth
- from digital to voice frequency channels

* Includes connection to or between locations where Company-provided IntelliLight Broadband Transport multiplexing capability occurs.

** Depending on the operating territory, a facility Hub may also be referred to as Hub Wire Center.

FACILITY HUBS

C. CHANNELIZED SERVICES

End to end services may be provided on channels of these facilities to a Hub. The transmission performance for the end to end service provided between Customer designated premises will be that of the lower capacity or bit rate. For example, when a 1.544 Mbps facility is multiplexed to voice frequency channels, the transmission performance of the channelized services will be Voice Grade, not High Capacity.

The Company will commence billing the monthly rate for the facility to the Hub on the date specified by the Customer on the service order. Additional individual services utilizing these facilities may be installed coincident with the installation of the facility to the Hub, or may be ordered and/or installed at a later date, at the option of the Customer. Except as otherwise specified for Shared Use, the Customer who orders the High Capacity Service must order all associated individual Access Channelized Services. The Customer will be billed the applicable rates and charges for the facility and the multiplexer at the time the facility is installed. Additional individual service rates and charges (by service type) will apply for each subsequent channelized service. These will be billed to the Customer as each individual service is installed.

When a High Capacity 44.736 Mbps Service is multiplexed at a Customer designated premises, such configuration is not a Company Hub for purposes of administering the terms and conditions of this Product Guide.

D. CASCADING MULTIPLEXING

Cascading multiplexing or grooming occurs when a high capacity digital channel is de-multiplexed to provide channels with a lesser capacity and one of the lesser capacity channels is further de-multiplexed or groomed.

When cascading multiplexing is performed whether in the same or a different Hub, a charge for the additional multiplexing unit also applies. When cascading multiplexing is performed at different Hubbing locations, Channel Mileage rates also apply between the Hubs. In the operating territories of Region 11, Mid-Link nonrecurring charges also apply between the Hubs.

In the cascading multiplexing arrangements described above, specific NCI codes may be used in conjunction with the individual multiplexed services at the Hub in order to identify the technology hierarchy employed in the total service arrangement.