AUTOMATIC METER READING AND UTILITY TELEMETRY TRUNK SERVICE [1]

A. AUTOMATIC METER READING

1. Description

Automatic Meter Reading (AMR) Service provides a public utility or other entity providing metered gas, water and/or electric services (AMR Customers) with access to its end users' meters where facilities permit via Telephone Company Central Office Special Access Circuit (COSAC) Common Equipment and end user Exchange Access Lines in order to read meters. The COSAC is interfaced to the Telephone Company central office switch in such a way that it is possible for the AMR Customer to dial a telephone number and be connected to its end user's Exchange Access Line without ringing the bell of the end user's telephone instrument. When the connection is made, the COSAC turns on the Meter Interface Unit (MIU) which is owned by the AMR Customer and located on the end user's premises. The meter reading information is transmitted back to the AMR Customer via the end user's Exchange Access Line. At the end of the reading, the end user connection is terminated and the COSAC is ready to receive the telephone number of the next end user. If an end user Exchange Access Line is in use, a connection cannot be made. If it goes off hook during a meter read, the reading call is terminated and rescheduled by the AMR Customer at a later time.

AMR Customer is defined as the public utility or other entity providing metered gas, water and/or electric services which deploys and utilizes AMR equipment and subscribes to AMR Service.

End user is defined as the person or entity using gas, water and/or electric services provided by an AMR Customer.

2. Service Components

a. Central Office Special Access Circuit (COSAC) Common Equipment - Telephone Company rack-mounted central office equipment dedicated to the addressing and routing of meter messages as well as to the accumulating traffic information for administration and billing purposes.

b. Central Office Special Access Circuit Trunk - The Telephone Company intraoffice trunk from the COSAC Common Equipment to the Telephone Company Local Exchange Service switching equipment. One trunk is required for each switch in the C.O.

c. Switch Interface Card - Telephone Company Trunk termination equipment on the COSAC; one Switch Interface Card is required per Central Office Special Access Circuit Trunk (Item b. above).

d. Programmed Number Call Back Change - The ability to change a dial back telephone number stored in the COSAC Common Equipment memory which it is authorized to dial back.

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(C) Indicates change

AUTOMATIC METER READING
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A. AUTOMATIC METER READING (Cont'd)

3. Responsibilities of the AMR Customer

The AMR Customer is responsible for the installation and maintenance of the Meter Interface Unit(s) located on the end user's premises. Such units shall be conspicuously labeled with the full AMR Customer name. In addition, the AMR Customer is responsible for securing authorization from its end users for installation of meter reading equipment on, and the use of, the End User's Exchange Access Line.

The AMR customer, including and limited to public utilities and municipal corporations to the extent that they are under the jurisdiction of the Pennsylvania Public Utility Commission, may not require its end users to subscribe to telephone service as a condition of the AMR customer's provision of utility service to such end users.

By its use of end user's Exchange Access Lines, the AMR Customer warrants and represents that it has obtained the required end user's authorization for such use. Further, the AMR Customer agrees that it shall defend, indemnify and save the Telephone Company harmless from and against all losses, costs, damages, expense, claims or demands brought by any person or persons arising out of or caused or alleged to have been caused in any manner by any breach of the aforementioned warranty and representation and/or by the AMR Customer's use of end user Exchange Access Lines, including all suits, actions or complaints of every kind and description brought against the Telephone Company either individually or jointly with AMR Customer for or on account of any property damages, personal injury, service outages, interruption(s), delays, errors or defects in transmission (including but not limited to personal injuries or property damage from voltage or currents) arising from the AMR Customer's use of end users' Exchange Access Lines.

If it is determined during a Telephone Company repair visit that trouble on an end user Exchange Access Line is attributable to an AMR Customer MIU, the Telephone Company will bill the AMR Customer for the repair visit at current time and material rates or at rates covered by a separate maintenance agreement as applicable.

The AMR Customer is also responsible for the creation and maintenance of its end user data base. Any unique information required for the data base is to be acquired by the AMR Customer directly from the end user.

4. Responsibilities of the Telephone Company

The Telephone Company is responsible for the provision and maintenance of the central office equipment necessary to offer AMR Service, and for the operation and maintenance of the Telephone Company Network between the AMR Customer data collection site and the premises of the end user.

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AUTOMATIC METER READING
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A. AUTOMATIC METER READING (Cont'd)

5. Service Limitations

The temporary suspension of service provisions in Section 27 of the Telephone Company's Pa. P.U.C. –No. 1 Tariff do not apply for the AMR Customer. The AMR Customer is responsible for the applicable local message charges or Direct Distance Dialed (DDD) Unassisted Service charges for each completed call between the COSAC Common Equipment and the utility over an Exchange Access Line.

The Telephone Company will not provide the AMR Customer with any additional information regarding an individual end user other than such information which is publicly available regarding such end user via the Telephone Company's directories and/or Directory Assistance.

All AMR Customer connections of the Meter Interface Unit to the Telephone Company network will be by means of a registered jack. In the event that such a jack needs to be deployed, it will be installed on the Customer's side of the Rate Demarcation Point consistent with FCC Rules and Regulations.

The Company shall not be liable to the AMR Customer for any End User Exchange Access Line outages.

6. Classes of Service Messages

a. Description of Message Classes

Meter reading calls using AMR Service will be limited to and charged at applicable tariff rates for calls placed via Direct Distance Dialed (DDD) Unassisted Service or local message service as applicable.

The classes of meter messages are as follows:

Class I - Messages from the COSAC Common Equipment to the AMR Customer and vice versa.

Class II - Messages between the COSAC Common Equipment and the MIU located at the end user's premises.

b. Meter Message Rating

Class I

For calls between the AMR Customer's data collection site and the COSAC Common Equipment, where the call is local as defined in the applicable Telephone Company local exchange tariff, the rates and regulations for local messages will apply. Where the call is not defined as local but as a toll call within the AMR Customer's LATA, the rates and

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AUTOMATIC METER READING
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A. AUTOMATIC METER READING (Cont'd)

6. Classes of Service Messages (Cont'd)

b. Meter Message Rating (Cont'd)

Class I (Cont'd)

regulations specified in the Telephone Company tariff Pa. P.U.C.-No. 500, Informational Tariff for Competitive Services will apply. All calls transported between LATAs will be handled by the appropriate interexchange carrier.

Class II

The initial period for a Class II meter message is one second or fraction thereof. Each overtime period is one second or fraction thereof. The overtime period is the unit of time used for measuring and charging for time beyond the initial period.

For Class II calls the following time of day provisions apply to each day of the week:

Peak Rate: 8:00 a.m. - 11:00 p.m.

Off-Peak Rate: 11:00 p.m. - 8:00 a.m.

7. Service Evaluation Test Period

The AMR Customer may elect to engage in a short term evaluation of AMR Service prior to investing in the equipment necessary for full deployment. Where the AMR Customer elects the option when the service is ordered from the Company, the following regulations will apply:

- The AMR Customer shall be responsible for a minimum of twelve months' charges at the monthly rate elements stated in C.1 following regardless of the length of the evaluation.
- If the Customer discontinues the service during or after an evaluation and elects not to subscribe to the Service, a Trial Service Fee (TSF) will be charged in addition to the minimum twelve month charges upon disconnection of AMR service. The TSF rates in C.1 following will apply.
- The evaluation will take place in a single central office serving area
- Only one evaluation per Customer will be allowed.
- If the Customer at any time during the evaluation elects to terminate the evaluation and subscribe to AMR Service, no change in rates will occur and credit for the months in service during the evaluation will be applied to the minimum 48 month period required in C.1 following.

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A. AUTOMATIC METER READING (Cont'd)

8. Rates

a. Central Office Equipment

Per unit as follows:

	Nonrecurring Charge	Monthly Rate	USOC
- Central Office Special Access Circuit (COSAC) Common Equipment[2]	$1500.00	$410.00	AMM
- Central Office Special Access Circuit Trunk[3]		206.00	AMY
- Switch Interface Card[2].....		25.00	AMJ
- Programmed Number Call Back Change.....	30.00	-	AAV
- Trial Service Fee[4].....	700.00		TUA2X

b. Class I Local Service Area Calls

Applicable rates and regulations for local messages specified in the applicable Telephone Company local exchange tariffs apply for each completed call from the COSAC Common Equipment to the AMR Customer and vice versa.

c. Class I Direct Distance Dialed (DDD) Unassisted Service Calls Applicable charges as specified in the Telephone Company tariff Pa. P.U.C.-No. 500, Informational Tariff for Competitive Services for calls not defined as local but within the AMR Customer's LATA, will apply for each completed call from the COSAC Common Equipment to the AMR Customer and vice versa.

d. Class II Calls

The following rates apply per completed call from the COSAC Common Equipment to the MIU located at the end user's premises:

	Rate
Peak (8:00 a.m. to 11:00 p.m.)	
- Initial one second period or fraction thereof	$0.08
- Additional one second period(s) or fraction thereof	0.07
Off-Peak (11:00 p.m. to 8:00 a.m.)	
- Initial one second period or fraction thereof	0.03
- Additional one second period(s) or fraction thereof	0.02

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[2] The AMR Customer will be responsible for a minimum of 48 months' charges for these rate elements unless the customer elects not to continue the service after a service evaluation. Stated monthly rates shall apply after the 48 month minimum period.
[3] This service does not include any message allowance.
[4] Applies as described in A.7 preceding.

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AUTOMATIC METER READING
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B. UTILITY TELEMETRY TRUNK SERVICE

1. Description

Utility Telemetry Trunk Service (UTS) enables a public utility company to remotely access and read its subscribers' utility meters, where facilities permit, via Verizon provided trunks and subscriber exchange access lines. The Customer will connect a host computer to a Customer-provided service unit meeting Verizon's specifications. Verizon will connect a 4 wire E&M trunk to the Customer's demarcation point, which Customer will connect with the service unit. Verizon will terminate the trunk on a central office switch equipped with suppressed ringing feature capability. Verizon will connect the switch with Customer's subscribers' existing exchange access lines. The customer must provide a meter interface unit (MIU) at each subscriber's premises, which will be connected to the subscriber's telephone line via a standard registered jack. The customer shall ensure that the MIUs and meters are compatible with the service unit.

The service unit will dial a subscriber's telephone number. When the connection is made, the service unit will activate the MIU without ringing the bell of the subscriber's telephone instrument. The MIU will transmit the meter reading information through the subscriber exchange access line back to the service unit, which will pass it to the host computer at the Customer's premises. At the end of the reading, the subscriber connection will be terminated and the service unit will be ready to connect the telephone number of the next subscriber. If a subscriber's exchange access line is in use, a connection will not be made. If the connection goes off-hook during a meter read, the reading call will be terminated and rescheduled by the customer at a later time. The customer will not be charged for such terminated reads.

A UTS Customer is defined as the public utility or other entity which deploys and utilizes UTS equipment.

A Subscriber is defined as the person or persons using the public utility company services and having an exchange access line terminating at the same location as the utility's meter(s).

[1] Services in this section are provided to existing customers only. AMR customers will be maintained as long as replacement parts are available.

(C) Indicates change

AUTOMATIC METER READING
AND UTILITY TELEMETRY TRUNK SERVICE [1]

B. UTILITY TELEMETRY TRUNK SERVICE (CONT'D)

2. Responsibilities of the UTS Customer

The UTS Customer must provide the host computer, service unit and connection to the customer demarcation point in accordance with Verizon's specifications. To the extent that interconnections to other services provided by Verizon or other persons are necessary, such other services shall be provided for separately. The customer will access Verizon's central office switch only in connection with using the service. The customer will be responsible for the installation and maintenance of the MIUs located on each subscriber's premises. MIUs shall be conspicuously labeled with the customer's full name. The customer must secure authorization from its subscribers for installation of meter reading equipment on, and the use of, the subscribers' exchange access lines. The customer will allow access to and use subscriber information only as specifically permitted by a subscriber. The customer will pay Verizon its then-current time and material charges for repair of telephone service outages caused by MIU or wiring failures which occur on the customer's subscribers' side of the demarcation point. The customer will also create and maintain a subscriber data base. Except as specifically set forth under Responsibilities of the Company, the customer will supply all information required for the database.

Verizon may immediately suspend the service if the customer fails to adhere to these requirements for the duration of such failure, without prejudice to its other rights and remedies.

3. Responsibilities of the Telephone Company

Verizon will provide the trunks and exchange access lines required to use the service. It will provide a central office switch feature—suppressed ringing—necessary to offer the service. Verizon shall have no liability to the customer for subscriber exchange access line outages. Verizon, to the extent permitted by law, will allow the customer to populate and update its subscriber database using its TNA database, which provides listed telephone numbers and addresses for Verizon residential subscribers. Verizon shall not be responsible for the installation, repair, or maintenance of facilities or equipment furnished by the customer for use with the service. Verizon reserves the right to terminate a customer if the customer's average number of reads per month falls below 40,000. Verizon will provide the UTS Customer with a maintenance process.

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AUTOMATIC METER READING
AND UTILITY TELEMETRY TRUNK SERVICE [1]

B. UTILITY TELEMETRY TRUNK SERVICE (CONT'D)

4. Limitations

The UTS Customer is responsible for the applicable local message charges or Direct Distance Dialed (DDD) Unassisted Service for each completed call between the service unit and the utility over a subscriber's exchange access line. Verizon will not provide the UTS Customer with any unique information on listed or unlisted subscribers other than that information which is normally provided by Directory Assistance.

All connections of the MIU to the network will be by means of a registered jack. In the event that such a jack needs to be deployed, it will be installed on the Customer's side of the demarcation point consistent with FCC rules and regulations.

Verizon shall have no liability to the UTS Customer for subscriber exchange access line outages.

5. Rates

	Non-recurring Charge	Monthly Recurring Charge
Per Utility Telemetry Trunk	$1,000.00	$150.00
Per meter read	-	0.08

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