

COMMUNICATIONS SERVICES TARIFF

CHECK SHEET

Title Page 1 and Pages 1 to 6-2 inclusive, of this tariff are effective as of the date shown.

<u>Page Number</u>	Number of Revision Except as <u>Indicated</u>	<u>Page Number</u>	Number of Revision Except as <u>Indicated</u>	<u>Page Number</u>	Number of Revision Except as <u>Indicated</u>
1	1st *				
3	1st *				
5-256	1st *				
5-291.1	Original *				
5-292	1st *				
5-308	1st *				

\* New or Revised Page

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## 5. DESCRIPTION OF DATA SERVICES AND RATES (Cont'd)

5.5 Asynchronous Transfer Mode Network Service I (ATM)

(T)

This service is offered in the state of Missouri.

**Effective: June 1, 2015**, CenturyLink's ATM will no longer be available to new customers for new orders nor will new orders from existing customers be accepted (except to the extent permitted by term discount plan/contract).

(N)

Existing customers of this service will be grandfathered as follows:

- As of June 1, 2015, month-to-month customers will no longer be able to purchase this service.
- Existing term discount plans/contracts for this service will not be renewed.
- Customers with a term discount plan/contract that expires between February 24, 2015 and June 1, 2015 may retain their ATM Service on a month-to-month basis until June 1, 2015.
- Customers with a term discount plan/contract that expires after June 1, 2015 may retain their ATM covered by that term discount plan/contract until the expiration of that term discount plan/contract. If a customer is currently under a term discount plan/contract and wishes to move to another service, cancellation charges will not apply.

(N)

5.5.1 General

Asynchronous Transfer Mode (ATM) Network 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 Network Service 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 (CCITT) and American National Standards Institute (ANSI), publications T1.511, T1.627 and T1.630.

ATM Network Service is a high-bandwidth medium with low delay and has the capability to be switched or routed to a specific destination.

ATM Network Service is available where facilities and conditions permit.

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## 5. DESCRIPTION OF DATA SERVICES AND RATES (Cont'd)

(N)

5.6 Asynchronous Transfer Mode Network Access Service II (ATM)

This service is offered in the state of Missouri.

**Effective: June 1, 2015**, CenturyLink's ATM will no longer be available to new customers for new orders nor will new orders from existing customers be accepted (except to the extent permitted by term discount plan/contract).

Existing customers of this service will be grandfathered as follows:

- As of June 1, 2015, month-to-month customers will no longer be able to purchase this service.
- Existing term discount plans/contracts for this service will not be renewed.
- Customers with a term discount plan/contract that expires between February 24, 2015 and June 1, 2015 may retain their ATM Service on a month-to-month basis until June 1, 2015.
- Customers with a term discount plan/contract that expires after June 1, 2015 may retain their ATM covered by that term discount plan/contract until the expiration of that term discount plan/contract. If a customer is currently under a term discount plan/contract and wishes to move to another service, cancellation charges will not apply.

(N)

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## 5. DESCRIPTION OF DATA SERVICES AND RATES (Cont'd)

5.6 Asynchronous Transfer Mode Network Access Service II (ATM)

(T)

5.6.1 General

(D)

Asynchronous Transfer Mode (ATM) Network 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 (CCITT) and American National Standards Institute (ANSI), publications T1.511, T1.627 and T1.630.

ATM is a high-bandwidth medium with low delay and has the capability to be switched or routed to a specific destination.

ATM Network Service is available where facilities and conditions permit.

5.6.2 Service Description

ATM is a data networking technology that uses 53 byte cells, consisting of a 5 byte header which contains addressing, payload type and network priority information and a 48 byte payload for data. The cells are transmitted through an ATM network in a "real time" (no delay in transmission) or "non-real time" sensitive manner on virtual channels.

A Permanent Virtual Circuit (PVC) is established between two or more Customer Designated Locations (CDLs). PVCs are logical circuits that define a specific path for data sent by Customer to another location. Once a PVC is defined, it requires no setup operation before data is sent and no disconnect operation after data is sent. A new PVC connection between the same CDLs may be routed along a different path.

A Permanent Virtual Path (PVP) is a point-to-point, pre-defined logical circuit pathway that is utilized for routing ATM cells which are assigned to PVCs between two Customer locations. PVPs are available in assignable bandwidths and cannot exceed the bandwidth of the ports through which they are provided network access and egress, i.e., DS3 (45 Mbps) and OC3c (155 Mbps).

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## 5. DESCRIPTION OF DATA SERVICES AND RATES (Cont'd)

5.9 Frame Relay Service III

This service is offered in the states of Alabama and Missouri.

**Effective June 1, 2015**, CenturyLink's Frame Relay Access Service will no longer be available to new customers for new orders nor will new orders from existing customers be accepted (except to the extent permitted by term discount plan/contract).

Existing customers of this service will be grandfathered as follows:

- As of June 1, 2015, month-to-month customers will no longer be able to purchase this service.
- Existing term discount plans/contracts for this service will not be renewed.
- Customers with a term discount plan/contract that expires between February 24, 2015 and June 1, 2015 may retain their Frame Relay Service on a month-to-month basis until June 1, 2015.
- Customers with a term discount plan/contract that expires after June 1, 2015 may retain their Frame Relay Service covered by that term discount plan/contract until the expiration of that term discount plan/contract. If a customer is currently under a term discount plan/contract and wishes to move to another service, cancellation charges will not apply.

5.9.1 Service Description

Frame Relay Service III (FRSIII) is a low to medium speed, connection oriented, statistically multiplexed packet switched service. FRSIII allows for the transfer of variable length frames (packets) across Permanent Virtual Circuits (PVCs), which are bi-directional, end-to-end logical channels that define a specific path for data transmission. PVCs are established and dis-established via the Service Order process.

There are three types of frame relay PVCs:

- A. Permanent Virtual Circuit (PVC) – Intrazone  
An intrazone PVC is a logical channel path between two Customer ports located within the same zone.
- B. Permanent Virtual Circuit (PVC) – Interzone  
An interzone PVC is a logical channel path between two Customer ports located in different zones within a state.
- C. Permanent Virtual Circuit (PVC) – Interworked  
An interworked PVC is a logical channel path that traverses both a Frame Relay switch and an ATM switch.

Frame Relay zones are found in Section 5.9.6.

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