

**TARIFF DISTRIBUTION**

FILE PACKAGE NO.: GA-17-0041

DATE: July 15, 2017

STATE: GEORGIA

EFFECTIVE DATE: 07/15/2017

TYPE OF DISTRIBUTION: Approved

PURPOSE: SMARTRing Service MTM Conversion Modification

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## B7. DIGITAL NETWORK SERVICE

### B7.7 Self-Healing Multi-Nodal Alternate Route Topology Ring (SMARTRing) Service (Cont'd)

#### B7.7.2 Application of Rates (Cont'd)

- G.** In addition, customers with DS3 interfaces at the Customer Node electing to connect with DS1 services at a Central Office Node, must obtain a 28 DS1 Channel System, and the appropriate number of DS1 Channel Interfaces. The applicable rate elements for this arrangement are a DS3 Interface at the Customer Node and a 28 DS1 Channel System with DS1 Interfaces at the Central Office Node. The SMARTRing service 28 DS1 Channel System does not require a DS3 interface at the Central Office Node. A maximum of 28 DS1 Channel Interfaces can be activated for each 28 DS1 System utilized. Nonrecurring charges apply for each 28 DS1 Channel System. Nonrecurring charges also apply for each DS1 Channel Interface in a 28 DS1 Channel System. The recurring rate applies for each 28 DS1 Channel System and each DS1 Channel Interface in a 28 DS1 Channel System.
- H.** In order to accommodate more flexible customer situations, SMARTRing service is available under several payment plans<sup>1</sup>: 36 Month Term Payment Plan (24-48 months), 60 Month Term Payment Plan (49-72 months), or 84 Month Term Payment Plan (73-96 months). The 36, 60, and 84 Month Term Payment Plans<sup>1</sup> are provided under conditions specified in the Channel Services Payment Plan, (CSPP), B2.4.9 preceding, except as modified following. For all payment plans, the following terms and conditions apply:
1. All rate elements, except Channel Interfaces for a given SMARTRing service, whether initially or subsequently ordered, must be provided under the same payment plan with the same service period and are coterminous upon disconnect of the SMARTRing service. Channel Interfaces may be ordered under payment plans equal to or less than the selected payment period for the given SMARTRing service.
  2. The rates applicable to a month-to-month payment plan are subject to Company initiated changes.
  3. A termination liability charge will be applicable if services provided under a CSPP arrangement are disconnected prior to the end of the chosen service period. The applicable charge is equal to the number of months remaining in the rate stabilized service period times fifty percent (50%) of the monthly rates for SMARTRing service which include all Nodes, Local Channels, Alternate Central Office Channels, Internodal Channels and/or Interoffice Channels provided under the CSPP arrangement. For services under the month-to-month payment plan, a termination charge is equal to the number of months remaining in the twelve month minimum times the month-to-month rates in effect for SMARTRing service at the time of termination.  
Termination liability charges will not apply to any OC-3+ SMARTRing service disconnected on or after May 30, 2015.
  4. When a service period under an existing CSPP arrangement is completed and a customer elects to revert to a month-to-month payment option, no minimum period is applicable. If the customer does not select a new payment period or does not request discontinuance of service, service will be continued under the terms specified in B2.4.
  5. Additions of services or rate elements, for activating spare or unused capacities of a SMARTRing service under a CSPP arrangement, must be activated at the same rates and charges specified under the existing CSPP arrangement. Channel interfaces may be ordered as specified in 1. preceding.
  6. Additions of services or rate elements, i.e. new local channels, interoffice channels, etc., other than for activating spare or unused capacities, must be under a new CSPP arrangement at rates and charges as specified in 1. preceding. The new CSPP arrangement must be at least 24 months and must be coterminous with the CSPP arrangement for the existing SMARTRing service.

**Note 1:** All term plans for SMARTRing Service which are established, renewed or extended after December 13, 2013, for term lengths which are scheduled to expire at any time after February 1, 2019, will instead expire on February 1, 2019. All such services provided on or after February 1, 2019 will be provided on a Month-to-Month (MTM) basis at the applicable, then-current MTM rates. *Notwithstanding anything to the contrary in the previous two sentences, this footnote does not apply to any term plans established after July 15, 2017.*

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**B7. DIGITAL NETWORK SERVICE**

**B7.7 Self-Healing Multi-Nodal Alternate Route Topology Ring (SMARTRing) Service (Cont'd)**

**B7.7.3 Architecture (Cont'd)**

**A. SMARTRing Service (Cont'd)**

- Metro Ethernet Access Links must be Optical and must work with an optical VPR. Metro Ethernet Access Links are sized in a static configuration, meaning that they will not allow bursting up to the line speed. This is important when configuring Metro Ethernet, VPR and the Metro Ethernet Access Link. If the Metro Ethernet circuit supports bursting then each Metro Ethernet Access Link needs to be configured to match the maximum bandwidth allowed. The VPR will also need to be configured to match the burst capability.
- Metro Ethernet Access Link service uses the SMARTRing service as transport and broadcasts the Metro Ethernet to all Metro Ethernet Access Links associated with a specific VPR. Connection with the Metro Ethernet circuit at the SMARTRing central office node is limited to optical connections.
- Metro Ethernet and SMARTRing Metro Ethernet Access Links are limited to the following connections:

| <u>Metro Ethernet Connection</u>             | <u>SMARTRing Metro Ethernet Access Link Fractional 1000 Mbps at – Central Office</u> | <u>SMARTRing Metro Ethernet Access Link Fractional 1000 Mbps at – Customer Premises</u> |
|--|--|---|
| Basic 1000 Mbps                              | 1000 Mbps  | 1000 Mbps   |
| Premium 100 Mbps Optical (Fixed)             | 150 Mbps   | 150 Mbps  |
| Premium 250 Mbps (Fixed)                     | 300 Mbps   | 300 Mbps  |
| Premium 500 Mbps (Fixed)                     | 600 Mbps   | 600 Mbps  |
| Premium 100, 250, 500 Mbps (Burst)           | 1000 Mbps  | 1000 Mbps   |
| Premium 900 Mbps, 1000 Mbps                  | 1000 Mbps  | 1000 Mbps   |
| Virtual Ethernet Service 100 Mbps            | 150 Mbps   | 150 Mbps  |
| Virtual Ethernet Service 200 Mbps            | 300 Mbps   | 300 Mbps  |
| Virtual Ethernet Service 300 Mbps            | 300 Mbps   | 300 Mbps  |
| Virtual Ethernet Service 450 Mbps            | 450 Mbps   | 450 Mbps  |
| Virtual Ethernet Service 600 Mbps            | 600 Mbps   | 600 Mbps  |
| Virtual Ethernet Service 750, 900, 1000 Mbps | 1000 Mbps  | 1000 Mbps   |

- Customer requested upgrades of SMARTRing service will involve a service outage associated with Basic Shared Ethernet LAN Access Links, for which a credit for service outage shall not apply.
- Shared Node Interconnection (SNI) is available, based on equipment capability, whereby two SMARTRing service arrangements belonging to the same customer may share a node in a central office that is common to both rings.

(M)

**B7. DIGITAL NETWORK SERVICE**

**B7.7 Self-Healing Multi-Nodal Alternate Route Topology Ring (SMARTRing) Service (Cont'd)**

**B7.7.4 Rates and Charges**

**A. Self-healing Multi-nodal Alternate Route Topology Ring (SMARTRing Service)**

**1. Local Channel Mileage Rates (All Capacities)**

|   | <b>Nonrecurring Charge</b> | <b>Month to Month</b> | <b>24 to 48<sup>1</sup> Months</b> | <b>49 to 72<sup>1</sup> Months</b> | <b>73 to 96<sup>1</sup> Months</b> | <b>USOC</b> |
|---|----------------------------|-----------------------|------------------------------------|------------------------------------|------------------------------------|-------------|
| (a) Per Local Channel   | \$500.00                   | \$-                   | \$-                                | \$-                                | \$-                                | 1HVXX       |
| (b) Per quarter air mile  | -                          | 105.00                | \$83.00                            | \$73.00                            | \$68.00                            | 1HVAX       |
| <b>2. Alternate Central Office Channel Mileage Rates (All capacities)</b> |                            |                       |                                    |                                    |                                    |             |
| (a) Alternate C.O. Channel, per channel                                   | 500.00                     | -                     | -                                  | -                                  | -                                  | 1HAXX       |
| (b) Per quarter air mile  | -                          | 685.00                | 280.00                             | 175.00                             | 140.00                             | 1HAAX       |
| <b>3. Interoffice Channel Mileage Rates</b>                               |                            |                       |                                    |                                    |                                    |             |
| (a) Fixed, OC-3 capacity  | 200.00                     | 50.00                 | 36.00                              | 32.00                              | 27.00                              | 1HXFX       |
| (b) Fixed, OC-12 capacity   | 200.00                     | 145.00                | 130.00                             | 115.00                             | 105.00                             | 1HXFX       |
| (c) Per quarter air mile (OC-3 capacity)                                  | -                          | 55.00                 | 36.00                              | 30.00                              | 23.00                              | 1HXAX       |
| (d) Per quarter air mile (OC-12 capacity)                                 | -                          | 55.00                 | 36.00                              | 30.00                              | 23.00                              | 1HXAX       |
| (e) Fixed, OC-3+ capacity   | 200.00                     | 145.00                | 130.00                             | 115.00                             | 105.00                             | 1HXFX       |
| (f) Fixed, OC-48 and OC-48+ capacity                                      | 200.00                     | 340.00                | 270.00                             | 260.00                             | 250.00                             | 1HXFX       |
| (g) Fixed, OC-192 and OC-192+ capacity                                    | 200.00                     | 770.00                | 635.00                             | 610.00                             | 590.00                             | 1HXFX       |
| (h) Per quarter air mile (OC-3+ capacity)                                 | -                          | 55.00                 | 36.00                              | 30.00                              | 23.00                              | 1HXAX       |
| (i) Per quarter air mile (OC-48 and 48+ capacity)                         | -                          | 55.00                 | 36.00                              | 30.00                              | 23.00                              | 1HXAX       |
| (j) Per quarter air mile (OC-192 and OC192+ capacity)                     | -                          | 55.00                 | 36.00                              | 30.00                              | 23.00                              | 1HXAX       |

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## B7. DIGITAL NETWORK SERVICE

### B7.7 Self-Healing Multi-Nodal Alternate Route Topology Ring (SMARTRing) Service (Cont'd)

#### B7.7.4 Rates and Charges (Cont'd)

##### A. Self-healing Multi-nodal Alternate Route Topology Ring (SMARTRing Service) (Cont'd)

|    |  | Nonrecurring<br>Charge | Month to<br>Month | 24 to 48 <sup>1</sup><br>Months | 49 to 72 <sup>1</sup><br>Months | 73 to 96 <sup>1</sup><br>Months | USOC  |
|----|--|------------------------|-------------------|---------------------------------|---------------------------------|---------------------------------|-------|
| 4. | Internodal Channel Mileage Rates<br>(All Capacities)   |                        |                   |                                 |                                 |                                 |       |
|    | (a) Per Internodal Channel,<br>Same Wire Center area   | \$500.00               | -                 | -                               | -                               | -                               | 1HNXX |
|    | (b) Per quarter air mile, Same<br>Wire Center  | -                      | \$1,795.00        | \$690.00                        | \$415.00                        | \$345.00                        | 1HNWX |
|    | (c) Per Internodal Channel,<br>Same Office Park/Campus<br>Environment in Contiguous<br>Serving Wire Center areas | 500.00                 | -                 | -                               | -                               | -                               | 1HNZX |
|    | (d) Per quarter air mile, same<br>Office Park/Campus<br>Environment in contiguous<br>Serving Wire Center areas   | -                      | 2,000.00          | 780.00                          | 465.00                          | 390.00                          | 1HNCX |
| 5. | Customer Node (per Node)   |                        |                   |                                 |                                 |                                 |       |
|    | (a) OC-3 capacity  | 430.00                 | 2,300.00          | 990.00                          | 900.00                          | 810.00                          | SHNC3 |
|    | (b) OC-3+ capacity   | 430.00                 | 2,700.00          | 1,845.00                        | 1,575.00                        | 1,350.00                        | SHNN5 |
|    | (c) OC-12 capacity   | 460.00                 | 3,590.00          | 1,980.00                        | 1,800.00                        | 1,575.00                        | SHNC1 |
|    | (d) OC-48 capacity   | 460.00                 | 5,220.00          | 4,410.00                        | 4,050.00                        | 3,510.00                        | SHNN8 |
|    | (e) OC-48+ capacity  | 460.00                 | 5,850.00          | 4,410.00                        | 4,050.00                        | 3,510.00                        | SHNN9 |
|    | (f) OC-192 capacity  | 540.00                 | 25,000.00         | 9,375.00                        | 8,250.00                        | 7,300.00                        | SHNN6 |
|    | (g) OC-192+ capacity   | 540.00                 | 25,000.00         | 9,375.00                        | 8,250.00                        | 7,300.00                        | SHNN2 |

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## B7. DIGITAL NETWORK SERVICE

### B7.7 Self-Healing Multi-Nodal Alternate Route Topology Ring (SMARTRing) Service (Cont'd)

#### B7.7.4 Rates and Charges (Cont'd)

##### A. Self-healing Multi-nodal Alternate Route Topology Ring (SMARTRing Service) (Cont'd)

##### 6. Customer Channel Interface (per Node)

|   | Nonrecurring<br>Charge | Month to<br>Month | 24 to 48 <sup>1</sup><br>Months | 49 to 72 <sup>1</sup><br>Months | 73 to 96 <sup>1</sup><br>Months | USOC  |
|---|------------------------|-------------------|---------------------------------|---------------------------------|---------------------------------|-------|
| (a) Per DS1   | \$185.00               | \$45.00           | \$34.00                         | \$27.00                         | \$25.00                         | SHNBB |
| (b) Per DS3   | 145.00                 | 170.00            | 135.00                          | 130.00                          | 125.00                          | SHNZT |
| (c) Per STS-1   | 190.00                 | 220.00            | 170.00                          | 150.00                          | 140.00                          | SHN13 |
| (d) Per OC-3, 2 fiber                                       | 190.00                 | 255.00            | 190.00                          | 170.00                          | 160.00                          | SHN1D |
| (e) Per OC-3, 4 fiber                                       | 190.00                 | 515.00            | 380.00                          | 340.00                          | 320.00                          | SHN15 |
| (f) Per OC-12, 2 fiber                                      | 340.00                 | 745.00            | 515.00                          | 475.00                          | 440.00                          | SHN1F |
| (g) Per OC-12, 4 fiber                                      | 340.00                 | 1,490.00          | 1030.00                         | 950.00                          | 880.00                          | SHN19 |
| (h) Per OC-48, 2 fiber                                      | 420.00                 | 1,600.00          | 1,325.00                        | 1,215.00                        | 1,050.00                        | SHN1A |
| (i) Per OC-48, 4 fiber                                      | 420.00                 | 3,200.00          | 2,650.00                        | 2,430.00                        | 2,100.00                        | SHN1B |
| (j) Per OC-192, 2 fiber                                     | 1,600.00               | 7,500.00          | 4,800.00                        | 3,300.00                        | 2,850.00                        | SHNE1 |
| (k) Per OC-192, 4 fiber                                     | 1,600.00               | 15,000.00         | 9,600.00                        | 6,600.00                        | 5,700.00                        | SHNE2 |
| (l) Per DS1 within an STS-1<br>Asymmetrical Arrangement     | 330.00                 | 25.00             | 22.00                           | 20.00                           | 18.00                           | SHNBS |
| (m) Per DS3 (Asymmetrical with DS1)                         | 360.00                 | 550.00            | 450.00                          | 400.00                          | 350.00                          | SHN1T |
| (n) Per 10 Mbps   | 450.00                 | 500.00            | 175.00                          | 155.00                          | 140.00                          | SHN1M |
| (o) Per 100 Mbps (3 STS-1) – Electrical                     | 450.00                 | 540.00            | 210.00                          | 190.00                          | 170.00                          | SHN1N |
| (p) Per 100 Mbps (3 STS-1) – Optical<br>1310 nm Single-mode | 450.00                 | 540.00            | 210.00                          | 190.00                          | 170.00                          | SHN3N |

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## B7. DIGITAL NETWORK SERVICE

### B7.7 Self-Healing Multi-Nodal Alternate Route Topology Ring (SMARTRing) Service (Cont'd)

#### B7.7.4 Rates and Charges (Cont'd)

##### A. Self-healing Multi-nodal Alternate Route Topology Ring (SMARTRing Service) (Cont'd)

##### 6. Customer Channel Interface (per Node)

|  | Nonrecurring<br>Charge | Month to<br>Month | 24 to 48 <sup>1</sup><br>Months | 49 to 72 <sup>1</sup><br>Months | 73 to 96 <sup>1</sup><br>Months | USOC  |
|--|------------------------|-------------------|---------------------------------|---------------------------------|---------------------------------|-------|
| (q) Per Fractional 1000 Mbps                         |                        |                   |                                 |                                 |                                 |       |
| - 50 Mbps 850 nm Multi-mode – 1 STS-1                | \$450.00               | \$520.00          | \$190.00                        | \$170.00                        | \$150.00                        | SHN1O |
| - 50 Mbps 1310 nm Single-mode – 1 STS-1              | 450.00                 | 520.00            | 190.00                          | 170.00                          | 150.00                          | SHN3O |
| - 150 Mbps 850 nm Multi-mode – 3c STS-1              | 450.00                 | 560.00            | 230.00                          | 210.00                          | 190.00                          | SHN1P |
| - 150 Mbps 1310 nm Single-mode – 3c STS-1            | 450.00                 | 560.00            | 230.00                          | 210.00                          | 190.00                          | SHN3P |
| - 150 Mbps 850 nm Multi-mode – 3 STS-1               | 450.00                 | 560.00            | 230.00                          | 210.00                          | 190.00                          | SHN3J |
| - 150 Mbps 1310 nm Single-mode – 3 STS-1             | 450.00                 | 560.00            | 230.00                          | 210.00                          | 190.00                          | SHN3L |
| - 300 Mbps 850 nm Multi-mode – 6c STS-1              | 450.00                 | 600.00            | 300.00                          | 280.00                          | 260.00                          | SHN1R |
| - 300 Mbps 1310 nm Single-mode – 6c STS-1            | 450.00                 | 600.00            | 300.00                          | 280.00                          | 260.00                          | SHN3R |
| - 300 Mbps 850 nm Multi-mode – 6 STS-1               | 450.00                 | 600.00            | 300.00                          | 280.00                          | 260.00                          | SHN3M |
| - 300 Mbps 1310 nm Single-mode – 6 STS-1             | 450.00                 | 600.00            | 300.00                          | 280.00                          | 260.00                          | SHN3Q |
| - 450 Mbps 850 nm Multi-mode – 9c STS-1              | 450.00                 | 640.00            | 340.00                          | 310.00                          | 290.00                          | SHN1U |
| - 450 Mbps 1310 nm Single-mode – 9c STS-1            | 450.00                 | 640.00            | 340.00                          | 310.00                          | 290.00                          | SHN3U |
| - 450 Mbps 850 nm Multi-mode – 9 STS-1               | 450.00                 | 640.00            | 340.00                          | 310.00                          | 290.00                          | SHN3T |
| - 450 Mbps 1310 nm Single-mode – 9 STS-1             | 450.00                 | 640.00            | 340.00                          | 310.00                          | 290.00                          | SHN39 |
| - 600 Mbps 850 nm Multi-mode – 12c STS-1             | 450.00                 | 700.00            | 380.00                          | 340.00                          | 320.00                          | SHN1V |
| - 600 Mbps 1310 nm Single-mode – 12c STS-1           | 450.00                 | 700.00            | 380.00                          | 340.00                          | 320.00                          | SHN3V |
| - 600 Mbps 850 nm Multi-mode – 12 STS-1              | 450.00                 | 700.00            | 380.00                          | 340.00                          | 320.00                          | SHNBY |
| - 600 Mbps 1310 nm Single-mode – 12 STS-1            | 450.00                 | 700.00            | 380.00                          | 340.00                          | 320.00                          | SHNBZ |
| - 1000 Mbps 850 nm Multi-mode – 21 STS-1             | 400.00                 | 740.00            | 520.00                          | 475.00                          | 425.00                          | SHN1K |
| - 1000 Mbps 1310 nm Single-mode – 21 STS-1           | 400.00                 | 740.00            | 520.00                          | 475.00                          | 425.00                          | SHN3K |
| - 1000 Mbps 850 nm Multi-mode – 24c STS-1            | 400.00                 | 740.00            | 520.00                          | 475.00                          | 425.00                          | SHN3G |
| - 1000 Mbps 1310 nm Single-mode – 24c STS-1          | 400.00                 | 740.00            | 520.00                          | 475.00                          | 425.00                          | SHN3H |
| (r) Per Flex DS1                                     | 360.00                 | 45.00             | 34.00                           | 27.00                           | 25.00                           | SHN1Q |
| (s) Per 100 Mbps (1 STS-1) Metro Ethernet Backbone   | 800.00                 | 500.00            | 175.00                          | 155.00                          | 140.00                          | SHN1J |
| (t) Per 100 Mbps (3 STS-1) Metro Ethernet Backbone   | 800.00                 | 540.00            | 210.00                          | 190.00                          | 170.00                          | SHN33 |
| (u) Per 1000 Mbps Metro Ethernet Backbone            | 850.00                 | 740.00            | 520.00                          | 475.00                          | 425.00                          | SHN34 |
| (v) Per Fractional 1000 Mbps Metro Ethernet Backbone |                        |                   |                                 |                                 |                                 |       |
| - 150 Mbps (3 STS-1)                                 | 850.00                 | 560.00            | 230.00                          | 210.00                          | 190.00                          | SHN35 |
| - 300 Mbps (6 STS-1)                                 | 850.00                 | 600.00            | 300.00                          | 280.00                          | 260.00                          | SHN36 |
| - 450 Mbps (9 STS-1)                                 | 850.00                 | 640.00            | 340.00                          | 310.00                          | 290.00                          | SHN37 |
| - 600 Mbps (12 STS-1)                                | 850.00                 | 700.00            | 380.00                          | 340.00                          | 320.00                          | SHN38 |

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## B7. DIGITAL NETWORK SERVICE

### B7.7 Self-Healing Multi-Nodal Alternate Route Topology Ring (SMARTRing) Service (Cont'd)

#### B7.7.4 Rates and Charges (Cont'd)

##### A. Self-healing Multi-nodal Alternate Route Topology Ring (SMARTRing Service) (Cont'd)

##### 6. Customer Channel Interface (per Node) (Cont'd)

|   | Nonrecurring<br>Charge | Month to<br>Month | 24 to 48 <sup>1</sup><br>Months | 49 to 72 <sup>1</sup><br>Months | 73 to 96 <sup>1</sup><br>Months | USOC  |
|---|------------------------|-------------------|---------------------------------|---------------------------------|---------------------------------|-------|
| (w) Per Fibre Connection (FICON) (21 STS-1)             | \$500.00               | \$810.00          | \$570.00                        | \$520.00                        | \$470.00                        | SHNBC |
| (x) Per Fibre Connection (FICON) (24c STS-1)            | 500.00                 | 810.00            | 570.00                          | 520.00                          | 470.00                          | SHNBD |
| (y) Per Fibre Connection (FICON) Express<br>(48 STS-1)  | 520.00                 | 1,280.00          | 1,060.00                        | 970.00                          | 840.00                          | SHNBE |
| (z) Per Fibre Connection (FICON) Express<br>(48c STS-1) | 520.00                 | 1,280.00          | 1,060.00                        | 970.00                          | 840.00                          | SHNBF |
| (aa) Per Fibre Channel 100 (21 STS-1)                   | 500.00                 | 830.00            | 580.00                          | 530.00                          | 480.00                          | SHNBG |
| (ab) Per Fibre Channel 100 (24c STS-1)                  | 500.00                 | 830.00            | 580.00                          | 530.00                          | 480.00                          | SHNBH |
| (ac) Per Fibre Channel 200 (48 STS-1)                   | 520.00                 | 1,360.00          | 1,130.00                        | 1,030.00                        | 890.00                          | SHNBK |
| (ad) Per Fibre Channel 200 (48c STS-1)                  | 520.00                 | 1,360.00          | 1,130.00                        | 1,030.00                        | 890.00                          | SHNBK |
| 7. Central Office Node (per Node)                       |                        |                   |                                 |                                 |                                 |       |
| (a) OC-3 capacity                                       | 400.00                 | 1,400.00          | 990.00                          | 900.00                          | 810.00                          | SHNH3 |
| (b) OC-3+ capacity                                      | 400.00                 | 2,250.00          | 1,845.00                        | 1,575.00                        | 1,350.00                        | SHNH5 |
| (c) OC-12 capacity                                      | 460.00                 | 2,680.00          | 1,980.00                        | 1,800.00                        | 1,575.00                        | SHNH1 |
| (d) OC-48 capacity                                      | 460.00                 | 4,860.00          | 4,410.00                        | 4,050.00                        | 3,510.00                        | SHNH8 |
| (e) OC-48+ capacity                                     | 460.00                 | 5,490.00          | 4,410.00                        | 4,050.00                        | 3,510.00                        | SHNH9 |
| (f) OC-192 capacity                                     | 540.00                 | 25,000.00         | 9,375.00                        | 8,250.00                        | 7,300.00                        | SHNH7 |
| (g) OC-192+ capacity                                    | 540.00                 | 25,000.00         | 9,375.00                        | 8,250.00                        | 7,300.00                        | SHNH6 |
| (h) OC-3 Shared Node Interconnection                    | 550.00                 | 980.00            | 690.00                          | 630.00                          | 570.00                          | SHNHA |
| (i) OC-12 Shared Node Interconnection                   | 550.00                 | 1,820.00          | 1,390.00                        | 1,260.00                        | 1,100.00                        | SHNHB |
| (j) OC-48 Shared Node Interconnection                   | 550.00                 | 3,400.00          | 2,880.00                        | 2,840.00                        | 2,460.00                        | SHNHC |
| (k) OC-48+ Shared Node Interconnection                  | 550.00                 | 3,840.00          | 2,880.00                        | 2,840.00                        | 2,460.00                        | SHNHD |

**Note 1:** All term plans for SMARTRing Service which are established, renewed or extended after December 13, 2013, for term lengths which are scheduled to expire at any time after February 1, 2019, will instead expire on February 1, 2019. All such services provided on or after February 1, 2019 will be provided on a Month-to-Month (MTM) basis at the applicable, then-current MTM rates. *Notwithstanding anything to the contrary in the previous two sentences, this footnote does not apply to any term plans established after July 15, 2017.*

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## B7. DIGITAL NETWORK SERVICE

### B7.7 Self-Healing Multi-Nodal Alternate Route Topology Ring (SMARTRing) Service (Cont'd)

#### B7.7.4 Rates and Charges (Cont'd)

##### A. Self-healing Multi-nodal Alternate Route Topology Ring (SMARTRing Service) (Cont'd)

##### 8. Central Office Channel Interface (per Central Office Node)

|   | Nonrecurring<br>Charge | Month to<br>Month | 24 to 48 <sup>1</sup><br>Months | 49 to 72 <sup>1</sup><br>Months | 73 to 96 <sup>1</sup><br>Months | USOC  |
|---|------------------------|-------------------|---------------------------------|---------------------------------|---------------------------------|-------|
| (a) Per DS1   | \$145.00               | \$40.00           | \$30.00                         | \$25.00                         | \$20.00                         | SHNCB |
| (b) Per DS3   | 210.00                 | 115.00            | 85.00                           | 80.00                           | 75.00                           | SHNYT |
| (c) Per STS-1   | 210.00                 | 150.00            | 105.00                          | 100.00                          | 90.00                           | SHNO2 |
| (d) Per OC-3, 2 fiber                                   | 340.00                 | 255.00            | 190.00                          | 170.00                          | 160.00                          | SHNCD |
| (e) Per OC-3, 4 fiber                                   | 340.00                 | 515.00            | 380.00                          | 340.00                          | 320.00                          | SHNO4 |
| (f) Per OC-12, 2 fiber                                  | 535.00                 | 745.00            | 515.00                          | 475.00                          | 440.00                          | SHNCF |
| (g) Per OC-12, 4 fiber                                  | 535.00                 | 1,490.00          | 1030.00                         | 950.00                          | 880.00                          | SHNC9 |
| (h) Per OC-48, 2 fiber                                  | 650.00                 | 1,600.00          | 1,325.00                        | 1,215.00                        | 1,050.00                        | SHNCJ |
| (i) Per OC-48, 4 fiber                                  | 650.00                 | 3,200.00          | 2,650.00                        | 2,430.00                        | 2,100.00                        | SHNCK |
| (j) Per OC-192, 2 fiber                                 | 1,600.00               | 7,500.00          | 4,800.00                        | 3,300.00                        | 2,850.00                        | SHNE3 |
| (k) Per OC-192, 4 fiber                                 | 1,600.00               | 15,000.00         | 9,600.00                        | 6,600.00                        | 5,700.00                        | SHNE4 |
| (l) Per 28 DS1 Channel System (DS3)                     | 205.00                 | 700.00            | 550.00                          | 500.00                          | 450.00                          | SHNW8 |
| (m) Per 28 DS1 Channel System (STS-1)                   | 205.00                 | 750.00            | 650.00                          | 600.00                          | 575.00                          | SHNCS |
| (n) Per DS1 on 28 DS1 Channel System (DS3)              | 175.00                 | 18.00             | 12.00                           | 9.00                            | 8.00                            | SHNCA |
| (o) Per DS1 on 28 DS1 Channel System (STS-1)            | 175.00                 | 40.00             | 35.00                           | 30.00                           | 25.00                           | SHNCG |
| (p) Per DS1 within an STS-1 Asymmetrical<br>Arrangement | 360.00                 | 25.00             | 22.00                           | 20.00                           | 18.00                           | SHNCH |
| (q) Per DS3 (Asymmetrical with DS1)                     | 400.00                 | 550.00            | 450.00                          | 400.00                          | 350.00                          | SHNCT |
| (r) Per 10 Mbps   | 450.00                 | 500.00            | 175.00                          | 155.00                          | 140.00                          | SHNCM |
| (s) Per 100 Mbps (3 STS-1) - Electrical                 | 450.00                 | 540.00            | 210.00                          | 190.00                          | 170.00                          | SHNCN |
| (t) Per 100 Mbps (3 STS-1) - Optical                    | 550.00                 | 540.00            | 210.00                          | 190.00                          | 170.00                          | SHNDU |

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## B7. DIGITAL NETWORK SERVICE

### B7.7 Self-Healing Multi-Nodal Alternate Route Topology Ring (SMARTRing) Service (Cont'd)

#### B7.7.4 Rates and Charges (Cont'd)

##### A. Self-healing Multi-nodal Alternate Route Topology Ring (SMARTRing Service) (Cont'd)

##### 8. Central Office Channel Interface (per Central Office Node) (Cont'd)

|  | Nonrecurring<br>Charge | Month to<br>Month | 24 to 48 <sup>1</sup><br>Months | 49 to 72 <sup>1</sup><br>Months | 73 to 96 <sup>1</sup><br>Months | USOC  |
|--|------------------------|-------------------|---------------------------------|---------------------------------|---------------------------------|-------|
| (u) Per Fractional 1000 Mbps                             |                        |                   |                                 |                                 |                                 |       |
| - 50 Mbps – 1 STS-1                                      | \$450.00               | \$520.00          | \$190.00                        | \$170.00                        | \$150.00                        | SHNCO |
| - 150 Mbps – 3c STS-1                                    | 450.00                 | 560.00            | 230.00                          | 210.00                          | 190.00                          | SHNCP |
| - 150 Mbps – 3 STS-1                                     | 450.00                 | 560.00            | 230.00                          | 210.00                          | 190.00                          | SHNDV |
| - 300 Mbps – 6c STS-1                                    | 450.00                 | 600.00            | 300.00                          | 280.00                          | 260.00                          | SHNCR |
| - 300 Mbps – 6 STS-1                                     | 450.00                 | 600.00            | 300.00                          | 280.00                          | 260.00                          | SHNDX |
| - 450 Mbps – 9c STS-1                                    | 450.00                 | 640.00            | 340.00                          | 310.00                          | 290.00                          | SHNCU |
| - 450 Mbps – 9 STS-1                                     | 450.00                 | 640.00            | 340.00                          | 310.00                          | 290.00                          | SHNDY |
| - 600 Mbps – 12c STS-1                                   | 450.00                 | 700.00            | 380.00                          | 340.00                          | 320.00                          | SHNCV |
| - 600 Mbps – 12 STS-1                                    | 450.00                 | 700.00            | 380.00                          | 340.00                          | 320.00                          | SHNDZ |
| - 1000 Mbps – 21 STS-1                                   | 400.00                 | 740.00            | 520.00                          | 475.00                          | 425.00                          | SHNCW |
| - 1000 Mbps – 24c STS-1                                  | 400.00                 | 740.00            | 520.00                          | 475.00                          | 425.00                          | SHNDW |
| (v) Per Flex DS1   | 250.00                 | 40.00             | 30.00                           | 25.00                           | 20.00                           | SHNCQ |
| (w) Per 100 Mbps (1 STS-1) Metro Ethernet<br>Backbone    | 800.00                 | 500.00            | 175.00                          | 155.00                          | 140.00                          | SHNOJ |
| (x) Per 100 Mbps (3 STS-1) Metro Ethernet<br>Backbone    | 800.00                 | 540.00            | 210.00                          | 190.00                          | 170.00                          | SHNCX |
| (y) Per 1000 Mbps Metro Ethernet Backbone                | 850.00                 | 740.00            | 520.00                          | 475.00                          | 425.00                          | SHNC5 |
| (z) Per Fractional 1000 Mbps Metro Ethernet Backbone     |                        |                   |                                 |                                 |                                 |       |
| - 150 Mbps (3 STS-1)                                     | 850.00                 | 560.00            | 230.00                          | 210.00                          | 190.00                          | SHND5 |
| - 300 Mbps (6 STS-1)                                     | 850.00                 | 600.00            | 300.00                          | 280.00                          | 260.00                          | SHND6 |
| - 450 Mbps (9 STS-1)                                     | 850.00                 | 640.00            | 340.00                          | 310.00                          | 290.00                          | SHND7 |
| - 600 Mbps (12 STS-1)                                    | 850.00                 | 700.00            | 380.00                          | 340.00                          | 320.00                          | SHND8 |
| (aa) Per Fibre Connection (FICON) (21 STS-1)             | 500.00                 | 810.00            | 570.00                          | 520.00                          | 470.00                          | SHNDB |
| (ab) Per Fibre Connection (FICON) (24c STS-1)            | 500.00                 | 810.00            | 570.00                          | 520.00                          | 470.00                          | SHNDC |
| (ac) Per Fibre Connection (FICON) Express<br>(48 STS-1)  | 520.00                 | 1,280.00          | 1,060.00                        | 970.00                          | 840.00                          | SHNDD |
| (ad) Per Fibre Connection (FICON) Express<br>(48c STS-1) | 520.00                 | 1,280.00          | 1,060.00                        | 970.00                          | 840.00                          | SHNDE |
| (ae) Per Fibre Channel 100 (21 STS-1)                    | 500.00                 | 830.00            | 580.00                          | 530.00                          | 480.00                          | SHNDF |
| (af) Per Fibre Channel 100 (24c STS-1)                   | 500.00                 | 830.00            | 580.00                          | 530.00                          | 480.00                          | SHNDG |
| (ag) Per Fibre Channel 200 (48 STS-1)                    | 520.00                 | 1,360.00          | 1,130.00                        | 1,030.00                        | 890.00                          | SHNDH |
| (ah) Per Fibre Channel 200 (48c STS-1)                   | 520.00                 | 1,360.00          | 1,130.00                        | 1,030.00                        | 890.00                          | SHNDJ |

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**B7. DIGITAL NETWORK SERVICE**

**B7.7 Self-Healing Multi-Nodal Alternate Route Topology Ring (SMARTRing) Service (Cont'd)**

**B7.7.4 Rates and Charges (Cont'd)**

**A. Self-healing Multi-nodal Alternate Route Topology Ring (SMARTRing Service) (Cont'd)**

9. Channel Interface Capacity Reallocation

|                              |                            |              |
|------------------------------|----------------------------|--------------|
| (a) Per Node, Per occurrence | <b>Nonrecurring Charge</b> | <b>USOC</b>  |
|                              | <b>\$365.00</b>            | <b>SHRBC</b> |

10. Concatenation Rearrangement Charge

|   |                     |                            |                   |              |
|---|---------------------|----------------------------|-------------------|--------------|
| (a) Per OC-3, OC-12 or OC-48 optical circuit rearranged as concatenated or non-concatenated subsequent to the initial installation of the circuit | <b>Monthly Rate</b> | <b>Nonrecurring Charge</b> |                   | <b>USOC</b>  |
|   | \$-                 | <b>Initial</b>             | <b>Subsequent</b> | <b>NRCCN</b> |
|   |                     | \$-                        | \$500.00          |              |

11. SMARTRing Service Rearrangement

|   |   |   |        |       |
|---|---|---|--------|-------|
| (a) Surveillance, Per Node, per SMARTRing service | - | - | 255.00 | SHNRR |
| (b) Reconfiguration, Per STS-1 group, per Node    | - | - | 365.00 | SHNRI |

12. Basic Shared Ethernet LAN Access Link

(a) Customer Premises Access Links Link Connection

|   | <b>Nonrecurring Charge</b> | <b>Month to Month</b> | <b>24 to 48<sup>2</sup> Months</b> | <b>49 to 72<sup>2</sup> Months</b> | <b>73 to 96<sup>2</sup> Months</b> | <b>USOC</b> |
|---|----------------------------|-----------------------|------------------------------------|------------------------------------|------------------------------------|-------------|
| (1) Per 10 Mbps Basic Shared Ethernet LAN Access Link - Electrical <sup>1</sup>                   | 2,050.00                   | 730.00                | 250.00                             | 220.00                             | 200.00                             | SHN1G       |
| (2) Per 100 Mbps Basic Shared Ethernet LAN Access Link - Electrical <sup>1</sup>                  | 2,050.00                   | 780.00                | 300.00                             | 280.00                             | 250.00                             | SHN1H       |
| (3) Per 100 Mbps Basic Shared Ethernet LAN Access Link – Optical 1310 nm Single-mode <sup>1</sup> | 2,050.00                   | 780.00                | 300.00                             | 280.00                             | 250.00                             | SHN1I       |
| (4) Per Fractional 1000 Mbps Basic Shared Ethernet LAN Access Link - Optical <sup>1</sup>         |                            |                       |                                    |                                    |                                    |             |
| - 50 Mbps 850 nm Multi-mode   | 2,050.00                   | 750.00                | 280.00                             | 250.00                             | 240.00                             | SHN1S       |
| - 50 Mbps 1310 nm Single-mode   | 2,050.00                   | 750.00                | 280.00                             | 250.00                             | 240.00                             | SHN3S       |
| - 150 Mbps 850 nm Multi-mode  | 2,050.00                   | 810.00                | 330.00                             | 300.00                             | 280.00                             | SHN1W       |
| - 150 Mbps 1310 nm Single-mode  | 2,050.00                   | 810.00                | 330.00                             | 300.00                             | 280.00                             | SHN3W       |
| - 300 Mbps 850 nm Multi-mode  | 2,050.00                   | 870.00                | 440.00                             | 410.00                             | 380.00                             | SHN1X       |
| - 300 Mbps 1310 nm Single-mode  | 2,050.00                   | 870.00                | 440.00                             | 410.00                             | 380.00                             | SHN3X       |
| - 450 Mbps 850 nm Multi-mode  | 2,050.00                   | 930.00                | 490.00                             | 450.00                             | 420.00                             | SHN1Y       |
| - 450 Mbps 1310 nm Single-mode  | 2,050.00                   | 930.00                | 490.00                             | 450.00                             | 420.00                             | SHN3Y       |
| - 600 Mbps 850 nm Multi-mode  | 2,050.00                   | 1,020.00              | 550.00                             | 490.00                             | 460.00                             | SHN1Z       |
| - 600 Mbps 1310 nm Single-mode  | 2,050.00                   | 1,020.00              | 550.00                             | 490.00                             | 460.00                             | SHN3Z       |
| - 1000 Mbps 850 nm Multi-mode   | 2,050.00                   | 1,120.00              | 650.00                             | 590.00                             | 560.00                             | SHNJA       |
| - 1000 Mbps 1310 nm Single-mode   | 2,050.00                   | 1,120.00              | 650.00                             | 590.00                             | 560.00                             | SHNKA       |

**Note 1:** Basic Shared Ethernet LAN Access Link interfaces are available based on equipment capability and only at Customer Nodes.

**Note 2:** All term plans for SMARTRing Service which are established, renewed or extended after December 13, 2013, for term lengths which are scheduled to expire at any time after February 1, 2019, will instead expire on February 1, 2019. All such services provided on or after February 1, 2019 will be provided on a Month-to-Month (MTM) basis at the applicable, then-current MTM rates. *Notwithstanding anything to the contrary in the previous two sentences, this footnote does not apply to any term plans established after July 15, 2017.*

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**B7. DIGITAL NETWORK SERVICE**

**B7.7 Self-Healing Multi-Nodal Alternate Route Topology Ring (SMARTRing) Service (Cont'd)**

**B7.7.4 Rates and Charges (Cont'd)**

**A. Self-healing Multi-nodal Alternate Route Topology Ring (SMARTRing Service) (Cont'd)**

**12. Basic Shared Ethernet LAN Access Link (Cont'd)**

**(b) Metro Ethernet Access Link Connection**

|  | <b>Nonrecurring Charge</b> | <b>Month to Month</b> | <b>24 to 48<sup>1</sup> Months</b> | <b>49 to 72<sup>1</sup> Months</b> | <b>73 to 96<sup>1</sup> Months</b> | <b>USOC</b>  |
|--|----------------------------|-----------------------|------------------------------------|------------------------------------|------------------------------------|--------------|
| <b>(1) Per Fractional 1000 Mbps Access Link – Metro Ethernet Customer Premises</b> |                            |                       |                                    |                                    |                                    |              |
| - 150 Mbps 850 nm Multi-mode   | <b>\$2,050.00</b>          | <b>\$980.00</b>       | <b>\$800.00</b>                    | <b>\$500.00</b>                    | <b>\$400.00</b>                    | <b>SHNMA</b> |
| - 150 Mbps 1310 nm Single-mode   | <b>2,050.00</b>            | <b>980.00</b>         | <b>800.00</b>                      | <b>500.00</b>                      | <b>400.00</b>                      | <b>SHNSA</b> |
| - 300 Mbps 850 nm Multi-mode   | <b>2,050.00</b>            | <b>1,220.00</b>       | <b>930.00</b>                      | <b>580.00</b>                      | <b>540.00</b>                      | <b>SHNMB</b> |
| - 300 Mbps 1310 nm Single-mode   | <b>2,050.00</b>            | <b>1,220.00</b>       | <b>930.00</b>                      | <b>580.00</b>                      | <b>540.00</b>                      | <b>SHNSB</b> |
| - 450 Mbps 850 nm Multi-mode   | <b>2,050.00</b>            | <b>1,310.00</b>       | <b>990.00</b>                      | <b>630.00</b>                      | <b>590.00</b>                      | <b>SHNMC</b> |
| - 450 Mbps 1310 nm Single-mode   | <b>2,050.00</b>            | <b>1,310.00</b>       | <b>990.00</b>                      | <b>630.00</b>                      | <b>590.00</b>                      | <b>SHNSC</b> |
| - 600 Mbps 850 nm Multi-mode   | <b>2,050.00</b>            | <b>1,430.00</b>       | <b>1,075.00</b>                    | <b>690.00</b>                      | <b>650.00</b>                      | <b>SHNMD</b> |
| - 600 Mbps 1310 nm Single-mode   | <b>2,050.00</b>            | <b>1,430.00</b>       | <b>1,075.00</b>                    | <b>690.00</b>                      | <b>650.00</b>                      | <b>SHNSD</b> |
| - 1000 Mbps 850 nm Multi-mode  | <b>2,050.00</b>            | <b>1,570.00</b>       | <b>1,200.00</b>                    | <b>830.00</b>                      | <b>790.00</b>                      | <b>SHNME</b> |
| - 1000 Mbps 1310 nm Single-mode  | <b>2,050.00</b>            | <b>1,570.00</b>       | <b>1,200.00</b>                    | <b>830.00</b>                      | <b>790.00</b>                      | <b>SHNSE</b> |
| <b>(2) Per Fractional 1000 Mbps Access Link – Metro Ethernet Central Office</b>    |                            |                       |                                    |                                    |                                    |              |
| - 150 Mbps   | <b>2,050.00</b>            | <b>980.00</b>         | <b>800.00</b>                      | <b>500.00</b>                      | <b>400.00</b>                      | <b>SHNOA</b> |
| - 300 Mbps   | <b>2,050.00</b>            | <b>1,220.00</b>       | <b>930.00</b>                      | <b>580.00</b>                      | <b>540.00</b>                      | <b>SHNOB</b> |
| - 450 Mbps   | <b>2,050.00</b>            | <b>1,310.00</b>       | <b>990.00</b>                      | <b>630.00</b>                      | <b>590.00</b>                      | <b>SHNOC</b> |
| - 600 Mbps   | <b>2,050.00</b>            | <b>1,430.00</b>       | <b>1,075.00</b>                    | <b>690.00</b>                      | <b>650.00</b>                      | <b>SHNOD</b> |
| - 1000 Mbps  | <b>2,050.00</b>            | <b>1,570.00</b>       | <b>1,200.00</b>                    | <b>830.00</b>                      | <b>790.00</b>                      | <b>SHNOE</b> |

**13. Virtual Packet Ring Rearrangement Charge**

|  | <b>Monthly Rate</b> | <b>Nonrecurring Charge</b> |                   | <b>USOC</b>  |
|--|---------------------|----------------------------|-------------------|--------------|
|  |                     | <b>Initial</b>             | <b>Subsequent</b> |              |
| (a) Per service order associated with a rearrangement to increase or decrease a virtual packet ring subsequent to the initial setup of the virtual packet ring | -                   | -                          | <b>\$500.00</b>   | <b>SHNRP</b> |

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