

TFN REGISTRY FUNCTIONS

CHECK SHEET

Title page 1 and Pages 1 through 71 inclusive of this tariff are effective as of the date shown. Original and revised Pages as named below contain all changes from the original tariff that are in effect on the date hereof.

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TFN REGISTRY FUNCTIONS**REFERENCE TO TECHNICAL PUBLICATIONS**

The following technical publications are referenced in this tariff and current issues may be obtained from the Somos website (<http://www.somos.com>).

BR 780-004-280 Issue 34	User Guide: SMS/800 User Guide: Web Based Access (WBA)* September 2019	Available: September 2019	T
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ROCGUIDEUSR01 Version 12, Issue 4	User Guide: Resp Org Change System User Guide February 2020	Available: February 2020	T
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SMS/800 TFN Registry User Guide Version 4, Issue 11	January 2021	Available: January 2021	T T
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SMS/800 TFN Registry: API Overview Version 3, Issue 4	January 2021	Available: January 2021	T T
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SMS/800 TFN Reporting User Guide Version 1, Issue 9	January 2021	Available: January 2021	T T
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* All new users after June 24, 2019 will be required to use the GUI or API to access the system. No new WBA users will be permitted after that date. WBA will no longer be available as of September 30, 2021.

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TFN REGISTRY FUNCTIONS**REFERENCE TO TECHNICAL PUBLICATIONS (Cont'd)**

The following technical publications are referenced in this tariff and current issues may be obtained from the Somos website (<http://www.somos.com>).

SR-4592	SMS/800 Mechanized Generic Interface (MGI) Specification*		T
Issue 21	June 2019	Available: June 2019	
SR-4592 Addendum	SMS/800 MGI Industry Test Plan*		T
Issue 21	June 2019	Available: June 2019	
SR-5120	SMS/800 CR Batch Update and Response Specification		T
Issue 8	June 2019	Available: June 2019	
UIS-SMS-201	SMS/800 Data Center Network Connectivity Guide		T
Version 9, Issue 10	September 2020	Available: September 2020	
ROCSPECWSI01	Resp Org Change (ROC) System Web Service Interface Specification		
Version 2.24, Issue 6	December 2020	Available: December 2020	T
ROCSPECWSI02	Resp Org Change (ROC) System Notification Subscriber Web Services Interface Specification		
Version 2.19, Issue 4	August 2020	Available: August 2020	T
* No new applications for MGI access will be accepted after June 24, 2019. MGI access will no longer be available as of September 30, 2021.			T

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3. Service Offerings (Cont'd)

3.3 TFN Registry Access (Cont'd)

3.3.2 Dedicated Terminal Access Requirements

When connecting to the TFN Registry on a MGI or non-MGI dedicated basis, the Resp Org must provide certain information to the Company.

Information to be provided is identified in UIS-SMS-201 TFN Registry Data Center Network Connectivity Guide, which can be obtained from the Somos website, <http://www.somos.com>, or by contacting the Company's Help Desk at 1-844-HEY-Somos (844-439-7666, Option 1).

3.3.3 Mechanized Generic Interface (MGI)* Access Requirements

The Resp Orgs may also elect to interface with the TFN Registry on a mechanized basis. The TFN Registry Mechanized Generic Interface (MGI) facilitates the transfer of number administration and customer record administration data between TFN Registry and other Operations Systems (OSs) belonging to the Resp Org in order to support the various operations functions performed by TFN Registry. The interface is a two-way interface in the sense that data will flow to and from an OS.

The TFN Registry to OS interface consists of five protocol layers: (1) the physical layer; (2) the link layer; (3) the packet layer; (4) a User Application Layer (UAL); and (5) the User Program Layer (UPL). The physical, packet, and link layers comprise the Transport Service, which provides an error-free communication path for the transfer of data between sites. It relieves application layers of any concern about the way in which reliable data transfer is achieved. UAL provides the Application Service functionality, which performs the necessary high-level protocol functions not supplied by the Transport Service. The functionality includes request/reply correlation, site-to-site confirmation, message queuing, message priority, message segmentation, and system or link failure/recovery. The UPL is concerned with the specific application messages themselves.

* No new applications for MGI access will be accepted after June 24, 2019. MGI access will no longer be available as of September 30, 2021.

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3. Service Offerings (Cont'd)

3.5 Mechanized Generic Interface (MGI) Testing*

Before OS to TFN Registry total system integration, Mechanized Generic Interfaces (MGIs) must be tested thoroughly to confirm data communications integrity. Resp Orgs planning to use the MGI method of access must comply with specific laboratory and field testing requirements prior to being allowed to access the TFN Registry via an MGI. A unique testing logon ID will be assigned for such testing.

* No new applications for MGI access will be accepted after June 24, 2019. MGI access will no longer be available as of September 30, 2021.

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3.5.1 Laboratory Test Requirements

The laboratory test consists of the following test phases: Telcordia Protocol Conformance Testing Facility (verify TCP/IP protocol stack connectivity); User Application Layer (UAL) Testing; User Program Layer (UPL) Testing; and Volume Testing. Detailed testing requirements are set forth in SR-4592 Addendum, TFN Registry MGI Industry Test Plan.

Any MGI company which expands or enhances its use of MGI access must first complete laboratory testing of the additional functionality, consistent with the above documents.

3.5.2 Field Test Requirements

Field testing will be conducted on a one-on-one basis. Five types of field testing will be conducted. These are: Communications Protocol testing, User Application Layer (UAL) testing, User Programming Layer (UPL) testing, Volume testing and Line Failure/Outage testing. Detailed testing requirements are set forth in SR-4592 Addendum, TFN Registry MGI Industry Test Plan.

3.5.3 Test Duration

Initial MGI testing will take approximately four months. Requests for initial MGI testing must be received at least four months in advance of the proposed testing start date. Additional testing may be requested by the Resp Org, with advance notice. When testing is requested, charges will be assessed, on an hourly basis.

3.5.4 Technical References for Testing Requirements

MGI laboratory tests and field tests are described in detail in SR-4592 Addendum, TFN Registry MGI Industry Test Plan.

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4. Schedule of Rates and Charges (Cont'd)

4.2 Rates and Charges

Following are the rates and charges applicable to SMS/800 functions.

	Monthly Rate	Per Request Rate	Nonrecurring Charge	
(A) Service Establishment				
- Per Logon ID assigned				
- First Logon ID			\$ 699.37	R
- Each Additional Logon ID			\$ 110.88	R
- Per Initial, Additional or Replacement Security Key Defined			\$ 161.75	R
- Service restoration (post suspension)			\$ 127.75	R
(B) SMS/800 Access				
(1) Non-dedicated Access				
- Per Security Key Defined	\$ 26.22			R
(2) Dedicated Access				
- Non-MGI Access				
- Per Port	\$ 40.09			I
- MGI Access				
- Per Port	\$ 211.86			R
(C) Customer Record Administration				
- Per Toll-free Number	\$ 0.1279			I
(D) Resp Org Reports				
(1) On-line				
- Per report		\$ 21.32		I
(2) Off-line				
- Per Hour		\$ 180.47		R

All rates and charges on this page expire on February 14, 2022

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TFN REGISTRY FUNCTIONS

4. Schedule of Rates and Charges (Cont'd)

4.2 Rates and Charges (Cont'd)

	Monthly Rate	Per Request Rate	Nonrecurring Charge
(E) Mechanized Generic Interface and Web Services Interface Testing and Activation			
- Additional Resp Org Requested Testing			
- Per Staff Hour of Testing			\$ 200.00
(F) Miscellaneous Functions			
(1) Batch Update			
- Per file processed		\$ 102.35	I
Batch Update Testing			
- Per Staff Hour of Testing		\$ 60.02	R
(2) Resp Org Change Charge			
- Per Request			
- Per Toll-free Number Changed		\$ 12.37	R

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