

ACCESS SERVICECHECK SHEET

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Issued: January 13, 2012

Effective: January 14, 2012

John Summersett – Vice President Business Development
Great Lakes Comnet, Inc.
1515 Turf Lane, Suite 100
East Lansing, MI 48823

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* New or revised page

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*New or revised page

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Great Lakes Comnet, Inc.
1515 Turf Lane, Suite 100
East Lansing, MI 48823

ACCESS SERVICE
EXPLANATION OF SYMBOLS

C - to signify changed regulation.
D - to signify discontinued rate or regulation.
I - to signify increase to a rate or charge.
M - to signify matter relocated without change.
N - to signify new rate or regulation.
R - to signify reduction to a rate or charge.
S - to signify matter reissued without change.
T - to signify a change in text but no change in rate or regulation.
Z - to signify a correction.

EXPLANATION OF ABBREVIATIONS

ADM - Add/Drop Multiplexing
ANI - Automatic Number Identification
BHM C - Busy Hour Minutes of Capacity
CCS - Common Channel Signaling
CDP - Customer Designated Premises
CI - Channel Interface
CN - Charge Number (N)
CNP - Charge Number Parameter
CO - Central Office
Cont'd - Continued
CPE - Customer Provided Equipment
CPN - Calling Party Number
CSP - Carrier Selection Parameter
DA - Directory Assistance
dB - decibel
dBmC - Decibel Reference Noise C-Message Weighting
dBmCO - Decibel Reference Noise C-Message Weighted O
DDD - Direct Distance Dialing
DSL - Digital Subscriber Line
EAS - Extended Area Service
EML - Expected Measured Loss
EPL - Echo Path Loss
ERL - Echo Return Loss
f - frequency
F.C.C. - Federal Communications Commission

ACCESS SERVICE

EXPLANATION OF ABBREVIATIONS (Cont'd)

HC - High Capacity
Hz - Hertz
IC - Interexchange Carrier
ICB - Individual Case Basis
kbps - kilobits per second
kHz - kilohertz
LATA - Local Access and Transport Area
LNP - Local Number Portability
LRN - Location Routing Number
ma - milliamperes
Mbps - Megabits per second
MHZ - Megahertz
NPA - Numbering Plan Area
NXX - Three-Digit Central Office Prefix
OC - Optical Carrier
POT - Point of Termination
PSTN - Public Switched Telephone Network (N)
SNAL - Signaling Network Access Line
SONET - Synchronous Optical Network
SP - Signaling Point
SPOI - Signaling Point of Interface SRL -
Singing Return Loss
SSP - Service Switching Point
SS7 - Signaling System 7
STP - Signal Transfer Point
STS - Synchronous Transport Signal
SWC - Serving Wire Center
VG - Voice Grade
TDM - Time Division Multiplexing (N)
V & H - Vertical & Horizontal
WSC - Wireless Switching Center

ACCESS SERVICE2 General Regulations (Cont'd) (T)26 Definitions (Cont'd) (T)Add/ Drop Multiplexing

The term Add/ Drop Multiplexing denotes a multiplexing function offered in connection with SONET that allows lower level signals to be added or dropped from a high speed optical carrier channel in a wire center. The connection to the add/drop multiplexer is via a channel to a Central Office Port at a specific digital speed (i.e., DS3, DS 1, etc.).

Automatic Number Identification (ANI) (N)

The term "Automatic Number Identification" denotes the Multi-frequency (MF) signaling parameter that identifies the billing number of the calling party. (N)

Answer/ Disconnect Supervision

The term "Answer/ Disconnect Supervision" denotes the transmission of the switch trunk equipment supervisory signal (off-hook or on-hook) to the customer's point of termination as an indication that the called party has answered or disconnected.

ACCESS SERVICE2 General Regulations (Cont'd) (T)26 Definitions (Cont'd) (T)Business Day

The term "Business Day" denotes the times of day that a company is open for business. Generally, in the business community, these are 8:00 or 9:00 a.m. to 5:00 or 6:00 p.m., respectively, with an hour for lunch, Monday through Friday, resulting in a standard forty (40) hour work week. However, Business Day hours for the Telephone Company may vary based on company policy, union contract and location. To determine such hours for an individual company, or company location, that company should be contacted at the address shown under the Issuing Carrier's name listed on Title Pages 2 through 68 preceding.

Busy Hour Minutes of Capacity (BHMC)

The term "Busy Hour Minutes of Capacity (BHMC)" denotes the customer specified maximum amount of Switched Access Service access minutes the customer expects to be handled in an end office switch during any hour in an 8:00 A.M. to 11:00 P.M. period for the Feature Group ordered. This customer specified BHMC quantity is the input data the Telephone Company uses to determine the number of transmission paths for the Feature Group ordered.

Call

The term "Call" denotes a customer attempt for which complete address information (e.g., 0-, 911, or 10 digits) is provided to the serving dial tone office.

Calling Party Number (CPN) (N)

The term "Calling Party Number" denotes the SS7 signaling parameter that identifies the subscriber line number or directory number of the calling party. (N)
(N)

Carrier Identification Code (CIC)

The term "Carrier Identification Code (CIC)" denotes a numeric code assigned by the North American Numbering Plan (NANP) Administrator for the provisioning of Feature Group D Switched Access Services. The numeric code is unique to each carrier and is used by the Telephone Company to route switched access traffic to the Customer Designated Premises.

Carrier or Common Carrier

See Interexchange Carrier.

ACCESS SERVICE2 General Regulations (Cont'd) (T)26 Definitions (Cont'd) (T)Communications System

The term "Communications System" denotes channels and other facilities which are capable of communications between terminal equipment provided by other than the Telephone Company.

Customer(s)

The term "Customer(s)" denotes any individual, partnership, association, joint-stock company, trust, corporation, or governmental entity or other entity which subscribes to the services offered under this tariff, including but not limited to End Users, Interexchange Carriers (ICs) and other telecommunications carriers or providers originating or terminating Toll VoIP-PSTN Traffic. (M)
(M)

Customer Node

The term Customer Node denotes Telephone Company provided equipment located at a customer designated premises that terminate a high speed optical channel.

ACCESS SERVICE

2 General Regulations (Cont d)

26 Definitions (Cont d)

Installation and Repair Technician

The term "Installation and Repair Technician" denotes a Telephone Company employee who performs installation and/or repair work, including testing and trouble isolation, outside of the Telephone Company Central Office and generally at the customer designated premises.

Interexchange Carrier (IC) or Interexchange Common Carrier

The terms "Interexchange Carrier" (IC) or "Interexchange Common Carrier" denotes any individual, partnership, association, joint-stock company, trust, governmental entity or corporation engaged for hire in interstate or foreign communication by wire or radio, between two or more exchanges.

Intermediate Hub

The term "Intermediate Hub" denotes a wire center at which bridging or multiplexing functions are performed only for customers served by that wire center and wire centers that subtend the hub, as specified in NECA Tariff F.C.C. No. 4.

Intermodulation Distortion

The term "Intermodulation Distortion" denotes a measure of the nonlinearity of a channel. It is measured using four tones, and evaluating the ratios (in dB) of the transmitted composite four-tone signal power to the second-order products of the tones (R2), and the third-order products of the tones (R3).

Internet Protocol (IP) Signaling

(N)

The term "Internet Protocol "IP" Signaling" denotes a packet data-oriented protocol used for communicating call signaling information.

(N)
(N)

Interstate Communications

The term "Interstate Communications" denotes both interstate and foreign communications.

Intrastate Communications

The term "Intrastate Communications" denotes any communications within a state subject to oversight by a state regulatory commission as provided by the laws of the state involved.

ACCESS SERVICE2 General Regulations (Cont'd) (T)26 Definitions (Cont'd) (T)Milliwatt (102 Type) Test Line

The term "Milliwatt (102 Type) Test Line" denotes an arrangement in an end office which provides a 1004 Hz tone at 0 dB m0 for one-way transmission measurements towards the customer's premises from the Telephone Company end office.

Multi-Frequency (MF) Signaling (N)

The term "Multi-Frequency (MF) Signaling" denotes an in-band signaling method in which call signaling information is transmitted between network switches using the same voiceband channel used for voice. (N)

North American Numbering Plan

The term "North American Numbering Plan" denotes a three-digit area code (Numbering Plan Area -NPA) and a seven-digit telephone number made up of a three-digit Central Office prefix plus a four-digit station number.

Off-hook

The term "Off-hook" denotes the active condition of Switched Access or a Telephone Exchange Service line.

ACCESS SERVICE

2 General Regulations (Cont'd) (T)

2.6 Definitions (Cont'd) (T)

On-hook

The term "On-hook" denotes the idle condition of Switched Access or a Telephone Exchange Service line.

Open Circuit Test Line

The term "Open Circuit Test Line" denotes an arrangement in an end office which provides an ac open circuit termination of a trunk or line by means of an inductor of several Henries.

Optical Carrier Channel

The term Optical Carrier Channel denotes the high speed optical communications path for transporting information utilizing a Synchronous Optical Channel platform. The channel is provided at transmission rates of 155.52 M bps (OC 3) and 622.08 M bps (OC 12).

Optical Carrier Rate (OC-N)

The term Optical Carrier Rate" denotes the line rate being transmitted on an optical carrier channel. A SONET transmission rate is equivalent to N times the OC 1 line rate of 5 1.84 M bps.

Optical Carrier Rate Concatenated

The term Optical Carrier Rate Concatenated denotes the transmission of a combined signal formed by linking together multiple individual signals.

Optical Line Termination

The term Optical Line Termination denotes the network interface on the customer designated premises equipment that provides for an optical handoff.

Originating Direction

The term "Originating Direction" denotes the use of Access Service for the origination of calls (T)
from an End User Premises to a Customer's Premises. (C)

ACCESS SERVICE

- 2 General Regulations (Cont'd) (T)
- 26 Definitions (Cont'd) (T)
- Payphone Service Provider
- The term Payphone Service Provider denotes an entity that provides pay telephone service, which is the provision of public, semi-public or inmate pay telephone service.
- Phase Jitter
- The term "Phase Jitter" denotes the unwanted phase variations of a signal.
- Point of Termination
- The term "Point of Termination" denotes the point of demarcation within a customer-designated premise at which the Telephone Company's responsibility for the provision of Access Service ends.
- Premises
- The term "Premises" denotes a building or buildings on continuous property (except Railroad Right-of-Way, etc.) not separated by a public highway.
- Release Message
- The term "Release Message" denotes an SS7 message sent in either direction to indicate that a specific circuit is being released.
- Remote Switching Modules/Systems
- The term "Remote Switching Modules/Systems" denotes small, remotely controlled electronic end office switches which obtain their call processing capability from an electronic Host Central Office. The Remote Switching Modules/Systems cannot accommodate direct trunks. (C)
- Return Loss
- The term "Return Loss" denotes a measure of the similarity between the two impedances at the junction of two transmission paths. The higher the return loss, the higher the similarity.

ACCESS SERVICE2 General Regulations (Cont'd) (T)26 Definitions (Cont'd) (T)Synchronous Test Line

The term "Synchronous Test Line" denotes an arrangement in an end office which performs marginal operational tests of supervisory and ring-tripping functions.

Synchronous Transport Signal (STS)

The term Synchronous Transport Signal denotes a 51.84 Mbps. electrical signal used within the SONET optical carrier network. The signal consists of the information content and the overhead used by SON ET. The overhead is used for controlling, framing and maintaining the STS signal so it can be directly connected to other SONET carrier channels. STS signals are in exact multiples of 51.84 Mbps. (STS-1 is 51.84 Mbps., STS-3 is 155.52 Mbps., etc.).

Tandem Switched Transport

The term "Tandem Switched Transport" denotes transport from the tandem to the end office that is switched at a tandem.

Terminating Direction

The term "Terminating Direction" denotes the use of Access Service for the completion of calls from a Customer's premises to an End User Premises. (C)

Terminus Hub

The term "Terminus Hub" denotes a wire center at which bridging or multiplexing functions are performed only for Customers served directly by the same wire center.

Throughput

The term Throughput denotes the number of data bits successfully transferred in one direction per unit of time.

Toll VoIP-PSTN Traffic (N)

The term "Toll VoIP-PSTN Traffic" denotes a Customer's interexchange voice traffic exchanged with the Telephone Company in Time Division Multiplexing format over PSTN facilities, which originates and/or terminates in Internet Protocol (IP) format. "Toll VoIP-PSTN Traffic" originates and/or terminates in IP format when it originates from and/or terminates to an end user customer of a service that requires IP-compatible customer premises equipment. (N)

Transmission Measuring (105 Type) Test Line/ Responder

The term "Transmission Measuring (105 Type) Test Line /Responder" denotes an arrangement in an end office which provides far-end access to a responder and permits two-way loss and noise measurements to be made on trunks from a near end office.

ACCESS SERVICE

6 Switched Access Service

61 General

Switched Access Service, which is available to customers for their use in furnishing their services to end users, provides a two-point communications path between a customer designated premises and an end user's premises. It provides for the use of common terminating, switching, and trunking facilities and for the use of common subscriber plant of the Telephone Company. Switched Access Service provides for the ability to originate calls from an end user's premises to a customer designated premises, and to terminate calls from a customer designated premises to an end user's premises of LEC whose end office(s) subtend the Company's tandem. Specific references to material describing the elements of Switched Access Service are provided in 6.1.3 and 6.5 through 6.9 following.

Rates and charges for Switched Access Service are set forth in 17 following. The application of rates for Switched Access Service is described in 6.4 following. Rates and charges for services other than Switched Access Service, e.g., a customer's interLATA toll message service, may also be applicable when Switched Access Service is used in conjunction with these other services. Descriptions of such applicability are provided in 6.4.5, 6.4.9 and 6.8.1(E) following. (C)

The following provision applies to the treatment of Toll VoIP-PSTN Traffic pursuant to the Federal Communications Commission's Part 51 Interconnection Rules and in compliance with the Federal Communications Commission's Report and Order and Further Notice of Proposed Rulemaking in CC Docket Nos. 96-45 and 01-92; GN Docket No. 09-51; WC Docket Nos. 03-109, 05-337, 07-135 and 10-90; and WT Docket No. 10-208, adopted October 27, 2011 and released November 18, 2011 (FCC 11-161). In the absence of an interconnection agreement between the Telephone Company and the customer specifying the treatment of Toll VoIP-PSTN Traffic, the Telephone Company will bill the customer the applicable switched access rates and charges specified in Section 17, following, on all jurisdictionally interstate voice traffic identified as Toll VoIP-PSTN Traffic. (N)

ACCESS SERVICE

- 6. Switched Access Service (Cont'd) (T)
 - 6.3 Obligations of the Customer (Cont'd) (T)
 - 6.3.2 Trunk Group Measurement Reports

With the agreement of the customer, trunk group data in the form of usage in CCS, peg count and overflow for its end of all access trunk groups, where technologically feasible, will be made available to the Telephone Company. These data will be used to monitor trunk group utilization and service performance and will be based on previously arranged intervals and format.
 - 6.3.3 Supervisory Signaling

The customer's facilities shall provide the necessary on-hook, off-hook, answer and disconnect supervision.
 - 6.3.4 Short Duration Mass Calling Requirements

When a customer offers service for which a substantial call volume is expected during a short period of time (e.g., 900 service media stimulated events), the customer must notify the Telephone Company at least 48 hours in advance of each peak period. Notification should include the nature, time, duration, and frequency of the event, an estimated call volume, and the telephone number(s) to be used.

On the basis of the information provided, the telephone Company may invoke network management controls, (e.g., code blocking) to reduce the probability of excessive network congestion. The Telephone Company will work cooperatively with the customer to determine the appropriate level of such control.
 - 6.3.5 Call Signaling (N)

Depending on the signaling system used by the customer in its network, the customer's facilities shall transmit the following call signaling information to the Telephone Company on traffic the customer's end users originate which is handed off for termination on the Telephone Company's network.

 - (A) Signaling System 7 (SS7) Signaling

When the customer uses SS7 signaling, it will transmit the Calling Party Number (CPN) or, if different from the CPN, the Charge Number (CN) information in the SS7 signaling stream.
 - (B) Multi-Frequency (MF) Signaling

When the customer uses MF signaling, it will transmit the number of the calling party or, if different from the number of the calling party, the Charge Number (CN) information in the MF Automatic Number Identification (ANI) field.
 - (C) Internet Protocol (IP) Signaling

When the customer uses IP signaling, it will transmit the telephone number of the calling party or, if different from the telephone number, the billing number of the calling party.

ACCESS SERVICE

17SMC. Rates and Charges (Cont'd)

17SMC.2 Switched Access Service (Cont'd)

I7SMC.2.2 Local Transport (Cont'd)

**Tariff
Section
Reference**

-Tandem Switched Transport
-Tandem Switched Facility
Per Access Minute Per Mile

6.1.3(A)(3)

The rate charged by Southwestern Michigan Communications is the applicable current rate at NECA Tariff F.C.C. No. 5. Section 17.2.2, Tandem Switched Facility.

-Tandem Switched Termination
Per Access Minute Per Termination

The rate charged by Southwestern Michigan Communications is the applicable current rate at NECA Tariff F.C.C. No. 5. Section 17.2.2, Tandem Switched Termination.

-Tandem Switching
Per Access Minute Per Tandem

The rate charged by Southwestern Michigan Communications is the applicable current rate at NECA Tariff F.C.C. No. 5. Section 17.2.2, Tandem Switching.

(C)
(C)
(C)

Network Blocking Per Blocked Call

6.8.6

The rate charged by Southwestern Michigan Communications is the applicable current rate at NECA Tariff F.C.C. No. 5. Section 17.2.2, Network Blocking Per Blocked Call.