## 5. SWITCHED ETHERNET SERVICES (SES) FORM ENTRIES

The SES Form with each of the entry fields numbered is depicted in Section 4 of this practice.  These numbers correspond to the field definitions in Sections 3.1 – 3.3.  Section 3.4 contains an alphabetic listing of the SES fields cross referenced to the field numbers depicted in the numbered form.

## 3.1   ADMINISTRATIVE SECTION

**1.     CCNA -** Customer Carrier Name Abbreviation

Identifies the COMMON LANGUAGE IAC code for the customer submitting the ASR and receiving the Confirmation Notice Form (CN).

**NOTE 1:**  The format and structure of this field is defined by ANSI in document ATIS-0300251 Codes for Identification of Service Providers for Information Exchange.

**NOTE 2:**  This entry must be identical to the CCNA field on the ASR Form.

**VALID ENTRIES:**

IAC Code
CUS =   Casual customer

**NOTE 1:**  Valid IAC codes are maintained by Telcordia Technologies.

**USAGE:**      This field is required.

**DATA CHARACTERISTICS:**   3 alpha characters

**EXAMPLE:**   | U | T | C |

**2.**     **PON -** Purchase Order Number

Identifies the customer's or end user's unique purchase order or requisition number that authorizes the issuance of this request or supplement.

**NOTE 1:**   This entry must be identical to the PON field entry on the ASR Form.

**USAGE:**     This field is required.

**DATA CHARACTERISTICS:**    16 alpha/numeric characters

**EXAMPLE:**    | 8 | 2 | 4 | Z | 9 | | | | | | | | | | | |

**3.**   **VER -** Version Identification

Identifies the customer's version number.

**NOTE 1:**  This entry must be identical to the VER field entry on the ASR Form.

**USAGE:**   This field is required.

**DATA CHARACTERISTICS:**   2 alpha/numeric characters

**EXAMPLE:**   |A|  |

**4.**     **ASR NO -** Access Service Request Number

Identifies the number that may be generated by the provider mechanized systems, pre-assigned to the customer by a provider, or manually assigned by the provider to identify a customer's request for service.

**NOTE 1:**    This entry MUST be identical to the ASR NO field entry on the ASR Form.

**USAGE:**    This field is conditional.

**NOTE 1:**    Required when ASR NO is pre-assigned.

**NOTE 2:**    Required on all supplements when PON is not unique.

**NOTE 3:**    Otherwise optional.

**DATA CHARACTERISTICS:**    18 alpha/numeric characters maximum

**EXAMPLE:**    | 3 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | | | | | | | |

## 3.2    CIRCUIT DETAIL SECTION

**5.**     **NC -** Network Channel Code

Identifies the network channel code for the connections related to the UNI/ENNI involved.  A UNI/ENNI connection is assigned a circuit(s) ID.  The network channel code describes the channel provided by the provider.

**NOTE 1:**  The format and structure of this field is defined by ANSI in document T1.223, Structure and Representation of Network Channel (NC) and Network Channel Interface (NCI) Codes for the North American Telecommunications System or by COMMON LANGUAGE in BR-795-403-100. A brief summary of the format can be found in ATIS-0404000 Section 2.14.6.

**VALID ENTRIES:**

NC Code

**NOTE 1:**  Valid NC codes are maintained by Telcordia Technologies.

**USAGE:**     This field is conditional.

**NOTE 1:**  Required when the ACT field on the ASR Form is "N" "C", or "M", otherwise optional.

**DATA CHARACTERISTICS**:    4 alpha/numeric characters

**EXAMPLE:**    | K | Q | - | - |

**6.**     **NCI -** Network Channel Interface Code

Identifies the interface characteristics on the customer/end user location side of the UNI/ENNI connection.

**NOTE 1:**    The format and structure of this field is defined by ANSI in document T1.223, Structure and Representation of Network Channel (NC) and Network Channel Interface (NCI) Codes for the North American Telecommunications System. The Network Channel Code consists of the following elements:

**VALID ENTRIES:**

NCI Code

**NOTE 1:**    Valid NCI codes are maintained by Telcordia Technologies.

**USAGE:**      This field is conditional.

**NOTE 1:**    Required when the ACT field on the ASR Form is "N", "C", or "M", otherwise optional.

**DATA CHARACTERISTICS:**    5 alpha/numeric characters minimum, 12 alpha/numeric characters maximum

**EXAMPLE:**    | 0 | 4 | L | N | 9 | . | 1 | 0 | T | | | |

**7.**      **SECNCI -** Secondary Network Channel Interface Code

Identifies the interface characteristics on the provider side of the UNI/ENNI connection.

**NOTE 1:**    The format and structure of this field is defined by ANSI in document T1.223, Structure and Representation of Network Channel (NC) and Network Channel Interface (NCI) Codes for the North American Telecommunications System or by COMMON LANGUAGE in BR-795-403-100. A brief summary of the format can be found in ATIS-0404000 Section 2.14.7.

**VALID ENTRIES:**

NCI Code

**NOTE 1:**    Valid NCI codes are maintained by Telcordia Technologies.

**USAGE:**      This field is conditional.

**NOTE 1:**    Required when the ACT field on the ASR Form is "N", "C", or "M", otherwise optional.

**DATA CHARACTERISTICS:**    5 alpha/numeric characters minimum, 12 alpha/numeric characters maximum

**EXAMPLE:**    | 0 | 4 | C | X | 9 | . | 1 | C | T | | | |

**8.**    **SR -** Special Routing Code

Identifies the type of special routing requested.

**NOTE 1:**  The provider may originate a telephone contact with the customer to ascertain the exact routing requirements.

**VALID ENTRIES:**

1st Character - Primary Location
A   =   Cable only
B   =   Diversity
C   =   Disaster Recovery
D   =   Route other than normal
E   =   Self-Healing Loop
F   =   Alternate Wire Center
G   =   Self Healing Loop via Alternate Wire Center
H   =   Self Healing Wire Center
J   =   Self Healing Alternate Wire Center
K   =   Special Routing at Primary Location
L   =   Unprotected Transport
M   =   Diversity and Alternate Wire Center
N   =   N/A
X   =   Provider-Engineered/Custom

2nd Character - Interoffice Facility
1   =   Avoidance
2   =   Diversity
3   =   Avoidance and Diversity
4   =   Self Healing Interoffice Facilities
5   =   Special Routing for Interoffice Facilities
6   =   Route other than normal
7   =   Unprotected Transport
N   =   N/A
X   =   Provider-Engineered/Custom

**8.    SR - Special Routing Code (continued)**

**VALID ENTRIES Continued:**

3rd Character - Secondary Location
A   =   Cable only
B   =   Diversity
C   =   Disaster Recovery
D   =   Self-Healing Loop
E   =   Route other than normal
F   =   Alternate Wire Center
G   =   Self Healing Loop via Alternate Wire Center
H   =   Self Healing Wire Center
J   =   Self Healing Alternate Wire Center
K   =   Special Routing at Secondary Location
L   =   Unprotected Transport
M   =   Diversity and Alternate Wire Center
N   =   N/A
X   =   Provider-Engineered/Custom

**NOTE 1:**   Valid entries are based on provider
tariffs/practices.

**NOTE 2:**   Use of Valid Entry "X" requires customer/provider
negotiation prior to submission of the ASR.

**USAGE:**    This field is conditional.

**NOTE 1:**   Prohibited when the ACT field on the ASR Form is
"M" or "D", otherwise optional.

**DATA CHARACTERISTICS:**   3 alpha/numeric characters

**EXAMPLE:**   |A|1|A|

9. **SBDW –** Supplemental Bandwidth

Identifies a bandwidth value that differs from the amount expressed by the value in the NC Code where an additional, supplemental bandwidth needs to be specified for a switched Ethernet request.

**NOTE 1:** When this field is used for bursting, the value(s) may be overridden when providing a value in the EIR field on the EVC Form for the associated RUID that references this port.

**VALID ENTRIES:**

Bandwidth specified = numeric value followed by kilobits (K), megabits (M) or gigabits (G).

**USAGE:** This field is conditional.

**NOTE 1:** Prohibited when the ACT field on the ASR Form is "D", otherwise optional.

**DATA CHARACTERISTICS:** 8 alpha/numeric characters

**EXAMPLES:** | 1 | G | | | | | | |

| 1 | 0 | . | 8 | 0 | 8 | M | |

| 1 | 0 | 0 | / | 2 | 0 | 0 | M |

**NOTE 1:** The example above indicates an up/down asynchronous speed on a Hybrid Fiber Coax (HFC) network.

10.    **BUM –** Broadcast, Unknown Unicast and Multicast Option

Allows customer to request conditional handling of Broadcast, Unknown Unicast and Multicast service frames outside of the provider's specified throttling defaults for those providers who bill and/or provision at the port level.

**VALID ENTRIES:**

A    =    Add BUM Option
D    =    Delete BUM Option

**NOTE 1:**    Valid entry of "A" means the customer requests to specify a BUM bandwidth value in excess of provider defaults. This specification will take place at the time the EVC is ordered via the LOS and BDW fields within the LREF section.

**NOTE 2:**    Valid entry of "D" means the customer requests to remove the BUM option and revert back to the provider's default limit. An EVC order will also be required to remove the specifications associated with the BUM option.

**USAGE:**    This field is conditional.

**NOTE 1:**    Optional when the ACT field on the ASR Form is "N", "C", or "M", otherwise prohibited.

**DATA CHARACTERISTICS:**    1 alpha character

**EXAMPLE:**    |A|

**11.   BI –** Bundling Indicator

Allows the customer to request that the UNI/ENNI be capable of supporting CE-VLAN or All to One bundling.

> **NOTE 1:** This option is related to Metro Ethernet Forum (MEF) Technical Specification MEF 10.3 regarding CE-VLAN or All to One bundling.

**VALID ENTRIES:**

A   =   Indicates All to One bundling Port based service
Y   =   Indicates a CE-VLAN based service with bundling.

> **NOTE 1:** Valid entry of "Y" is a prerequisite to ensure bundling can be ordered at the EVC level. The details of which will be specified via the CE-VLAN fields and the NCI Code within the UNI Mapping Detail Section of the EVC Form.

> **NOTE 2:** Valid entry of "Y" does not imply that all EVCs will have bundling enabled.

**USAGE:**   This field is conditional.

> **NOTE 1:** Optional when the ACT field on the ASR Form is "N" or "C", otherwise prohibited.

**DATA CHARACTERISTICS:**   1 alpha character

**EXAMPLE:**   | Y |

**12.    ES –** Egress Scheduler

Specifies the level at which bandwidth and/or prioritization profiles will be applied, i.e., whether the port has a single or multiple (one per EVC) profile(s) applied

**NOTE 1:**  Use of this field is based on provider contracts and negotiations.

**VALID ENTRIES:**

S    =    Single (Per UNI/ENNI Profile)
M    =    Multiple (Per EVC/OVC Profile)

**NOTE 1:**  For an entry of "S" the bandwidth is specified via the NC Code on the UNI/ENNI request. All EVCs/OVCs associated with this port have a single shared Egress Profile.

**NOTE 2:**  For an entry of "M" the bandwidth is specified on the EVC/OVC request. All EVCs/OVCs associated with this port have independent Egress Profiles.

**USAGE:**     This field is conditional.

**NOTE 1:**  Optional when the ACT field on the ASR Form is "N", or "C", otherwise prohibited.

**DATA CHARACTERISTICS:**    1 alpha character

**EXAMPLE:**    $\boxed{\text{S}}$

**13.    HVP -** High Voltage Protection

Indicates the requirement for high voltage protection at a point of termination.

**VALID ENTRIES:**

R   =   Remove
Y   =   Required

**NOTE 1:**  When the valid entry is "Y", the provider will contact the customer for the necessary detail.

**USAGE:**       This field is conditional.

**NOTE 1:**  Prohibited when the ACT field on the ASR Form is "D", otherwise optional.

**DATA CHARACTERISTICS:**    1 alpha character

**EXAMPLE:**    | Y |

14. **PROFE –** Profile Egress

Identifies the profiles out of the provider's network which determine the prioritization or quality of service applied to individual frames.

**NOTE 1:** Valid entries within this field are based on provider contracts and negotiations.

**USAGE:** This field is conditional.

**NOTE 1:** Optional when the ES field is "S", otherwise prohibited.

**DATA CHARACTERISTICS:** 30 alpha/numeric characters

**EXAMPLES:** | 6 | 0 | % | R | T | , | 8 | 0 | / | 0 | / | 1 | 0 | / | 0 | | | |

| | | | | | | | | | | | | | | | |

| 3 | 0 | M | | P | 1 | | T | E | M | P | L | A | T | E | | 8 | |

| D | S | C | P | | | | | | | | |

15.    **PROFI –** Profile Ingress

Identifies the profiles into the provider's network which determine the prioritization or quality of service applied to individual frame.

**NOTE 1:**  Valid entries within this field are based on provider contracts and negotiations.

**USAGE:**  This field is conditional.

**NOTE 1:**  Optional when the ES field is "S", otherwise prohibited.

**DATA CHARACTERISTICS:**  30 alpha/numeric characters

**EXAMPLES:** | 6 | 0 | % | R | T | , | 8 | 0 | / | 0 | / | 1 | 0 | / | 0 | | | |

| | | | | | | | | | | | | | | |

| 3 | 0 | M | | P | 2 | | T | E | M | P | L | A | T | E | | 8 | |

| D | S | C | P | | | | | | | | |

**16.  LAG-ID -** Link Aggregation Group ID

Specifies an existing provider-assigned circuit ID which represents a Link Aggregation Group.

**NOTE 1:** More information relative to link aggregation can be found in IEEE 802.1AX. When link aggregation pertains to ENNI usage, more information can also be found in MEF 26.1.

**VALID ENTRIES:**

COMMON LANGUAGE Special Service Circuit Codes (CLCI S/S Codes) – Serial Number Format

**NOTE 1:** This format is defined in ANSI T1.266 (ATIS-0326600.2005), Structure for the Identification of Telecommunications Circuits for the North American Telecommunications System or by COMMON LANGUAGE in BR-795-402-100. A brief summary of the format can be found in ATIS-0404000 Section 2.14.4.

**USAGE:**     This field is conditional.

**NOTE 1:** Required when the LAG field on the ASR Form is "E", otherwise prohibited.

**DATA CHARACTERISTICS:**     24 alpha/numeric characters

**EXAMPLE:**     | 5 | 2 | / | A | B | C | D | / | 1 | 2 | 3 | 4 | 5 | 6 | / | / | X | X |

| | | | | | | |

**17.** **LAG-P -** Link Aggregation Group Protection

Identifies the protection functionality requested for a Link Aggregation Group (LAG).

**NOTE 1:** More information relative to link aggregation can be found in IEEE 802.1AX. When link aggregation pertains to ENNI usage, more information can also be found in MEF 26.1.

**VALID ENTRIES:**

AA = All links are in active mode
AS = A mixture of active and standby links

**USAGE:** This field is conditional.

**NOTE 1:** Optional when the LAG field on the ASR Form is "E" or "N" and the ACT field on the ASR Form is not "D", otherwise prohibited.

**DATA CHARACTERISTICS:** 2 alpha characters

**EXAMPLE:** |A|A|

## 18.   L2CPP – Layer Two Control Protocol Peering

Identifies a set of peering protocols that are used for various control purposes that allow the Ethernet network to effectively process information for subscribers who choose to deploy 802.1Q bridges.

**NOTE 1:**   As an L2CP Frame is received on an external interface (UNI) there are three actions that can be specified.
- Peer
- Discard
- Pass

**NOTE 2:**   More information regarding this field can be found in the Metro Ethernet Forum (MEF) Technical Specification MEF 45.

**VALID ENTRIES:**

A  =  Link Aggregation Control/Marker Protocol (LACP)
B  =  802.3 Operations, Administration, and Maintenance (Link-OAM)
C  =  Ethernet Synchronization Messaging Channel (ESMC)
D  =  Precision Time Protocol Peer-Delay (PTP)
E  =  Ethernet Local Management Interface (E-LMI)
F  =  Link Layer Discovery Protocol (LLDP)
G  =  Virtual Station Interface Discovery and Configuration Protocol (VDP)
H  =  Port-Based Network Access Control
J  =  802.3 MAC Control: PAUSE
K  =  802.3 MAC Control: Priority Flow Control (PFC)
L  =  802.3 MAC Control: Multipoint MAC Control
M  =  802.3 MAC Control: Vendor Extensions
N  =  Rapid/Multiple Spanning Tree Protocol (RSTP/MSTP)
P  =  Shortest Path Bridging (SPB)
Q  =  Multiple MAC Registration Protocol (MMRP)
R  =  Multiple VLAN Registration Protocol (MVRP)
S  =  Multiple Stream Registration Protocol (MSRP)
T  =  Multiple ISID Registration Protocol (MIRP)

## 18.   L2CPP – Layer Two Control Protocol Peering (continued)

**NOTE 1:**  Multiple values are permitted.

**NOTE 2:**  The customer should populate the appropriate character to indicate which protocols are applicable for peering.

**USAGE:**   This field is optional.

**DATA CHARACTERISTICS:**   25 alpha characters

**EXAMPLES:** | A | F | H | J | K |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

| | | | | | |

| T |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

| | | | | | |

| A | P |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

| | | | | | |

### 19.    L2CP-ADDR – Layer Two Control Protocol Address Set

Identifies the discard/pass action for all non-peered layer two control protocols.

**VALID ENTRIES:**

CTA    = C-VLAN Tag Aware
CTB    = C-VLAN Tag Blind
CTB-2 = C-VLAN Tag Blind Option 2

**NOTE 1:**  Valid entry of "CTA" is associated with EVPL and EVP-LAN UNI members.

**NOTE 2:**  Valid entry of "CTB" is associated with EPL and EP-LAN UNI members.

**NOTE 3:**  Valid entry of "CTB-2" is associated with EPL UNI members.

**NOTE 4:**  More information regarding this field can be found in the Metro Ethernet Forum (MEF) Technical Specification MEF 45.

**USAGE:**     This field is optional.

**DATA CHARACTERISTICS:**  5 alpha/numeric characters

**EXAMPLES:** | C | T | A |   |   |

| C | T | B | - | 2 |

## 20.    UNI-MSFS – UNI Maximum Service Frame Size

Indicates the Maximum Service Frame Size (in bytes) allowed at the UNI.

**NOTE 1:**  More information regarding this field can be found in the Metro Ethernet Forum (MEF) Technical Specification MEF 10.3.

**NOTE 2:**  This attribute may be specified by the provider as part of their product offering.

**VALID ENTRIES:**

UNI Maximum Frame Size Value (numeric value expressed in bytes)

**USAGE:**      This field is optional.

**DATA CHARACTERISTICS:**   5 numeric characters

**EXAMPLE:**    | | |1|5|2|2|

**21.**    **SM –** Synchronous Mode

Indicates if the bits transmitted from the provider network to the customer edge will need a clock reference based synchronous Ethernet UNI.

**NOTE 1:**   More information regarding this field can be found in the Metro Ethernet Forum (MEF) Technical Specification MEF 10.3.

**VALID ENTRIES:**

E   =   Enabled
D   =   Disabled

**USAGE:**        This field is conditional.

**NOTE 1:**   Optional when the ACT field on the ASR Form is "N" or "C", otherwise prohibited.

**DATA CHARACTERISTICS:**   1 alpha character

**EXAMPLE:**   |E|

**22.   DIVCKT –** Diverse Circuit ID

Identifies the existing circuit ID that the circuit being requested is to be diverse from.

**NOTE 1:**   The provider assigning this circuit identifier determines the content of this field in accordance with COMMON LANGUAGE standards maintained by Telcordia Technologies.

**NOTE 2:**   When a component within the format is purposely omitted, the component should still be delimited and compressed to eliminate any spaces.

**NOTE 3:**   All components within the DIVCKT should be delimited by either virgules or periods.

**NOTE 4:**   If all positions in a component within the DIVCKT are not populated, the component should be compressed to eliminate any spaces.

**NOTE 5:**   The format and structure of the field is defined by ANSI standards.

**NOTE 6:**   Population of the SR field in conjunction with this field is under the discretion of the provider when ordering diversity.

**VALID ENTRIES:**

1.   COMMON LANGUAGE Special Service Circuit Codes (CLCI S/S Codes) as defined by ANSI in ATIS-0300097: Structure for the Identification of Telecommunications Connections for the North American Telecommunications Systems or by COMMON LANGUAGE in BR-795-402-100. A brief summary of the format can be found in ASOG Practice 000, Section 2.14.4.

**22.    DIVCKT -** Diverse Circuit ID (continued)

### VALID ENTRIES Continued:

**NOTE 1:**  Use of ranging within the appropriate component of the ID is prohibited.

**EXAMPLE:**    A2/LBFS/032719/001/NY

**USAGE:**      This field is conditional.

**NOTE 1:**  Prohibited when the ACT field on the ASR form is "D".

**NOTE 2:**  Prohibited when the LAG field on the ASR Form is "N".

**NOTE 3:**  Prohibited when the DIVPON field is populated.

**NOTE 4:**  Otherwise optional.

**DATA CHARACTERISTICS:**    36 alpha/numeric characters

**EXAMPLE:**    | A | 2 | / | L | B | F | S | / | 0 | 3 | 2 | 7 | 1 | 9 | / | 0 | 0 | 1 | / | N |

| Y |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

23.   **DIVPON –** Diverse Purchase Order Number

Identifies the PON for a new circuit ID that the circuit being requested is to be diverse from.

**NOTE 1:**   Population of the SR field in conjunction with this field is under the discretion of the provider when ordering diversity.

**USAGE:**   This field is conditional.

**NOTE 1:**   Prohibited when the ACT field on the ASR form is "C", "D", "M", or "R".

**NOTE 2:**   Prohibited when the LAG field on the ASR Form is "N".

**NOTE 3:**   Prohibited when the DIVCKT field is populated.

**NOTE 4:**   Otherwise optional.

**DATA CHARACTERISTICS:**   16 alpha/numeric characters

**EXAMPLE:**   | 8 | 2 | 4 | Z | 9 | | | | | | | | | | | |

## 3.3   LOCATION SECTION

**24.**     **CCEA -** Cross Connect Equipment Assignment

Identifies the physical point of termination at a collocation arrangement.

**NOTE 1:**  This information is provided by the customer when they have assignment control.

**NOTE 2:**  When the CCEA field is populated, the information will identify the tie-down assignment at the ACTL.

**USAGE:**     This field is conditional.

**NOTE 1:**  Prohibited when the REQTYP field on the ASR Form is "E", otherwise optional.

**DATA CHARACTERISTICS:**   60 alpha/numeric characters

**EXAMPLE:**   | A | B | C | / | 0 | 1 | / | 2 | 4 | - | N | L | / | 1 | 2 | 0 | 8 | - | 1 | 2 |

| 1 | 0 | / | O | K | L | D | C | A | 0 | 3 | / | O | K | L | D | C | A | 0 | 3 |

| | | | | | | | | | | | | | | | | | | | | | | |

25.     **GETO -** General Exchange Tariff Options Code

Identifies the requirement for non-tariff or secondary tariff options and special arrangements (third party billing) in conjunction with the switched Ethernet service.

**VALID ENTRIES:**

A = Provide inside wiring plan and bill the end user agent.
E = Provide inside wiring and bill the end user agent.
N = Terminate in a location other than normal (extend the point of termination using house cable, etc.) at the end user premises.
O = Other
P = Wire only with existing access service and bill end user directly.
R = Referral for inside wiring (provider to negotiate with the end user).
S = Provide inside wire repair plan and bill the customer.
T = Provide inside wire repair plan and bill the end user.
U = Provide inside wiring and repair plan and bill the customer.
V = Provide inside wiring and repair plan and bill the end user.
W = Provide inside wiring and bill the customer.
Y = Provide inside wiring and bill end user directly.
Z = Provide inside wiring and repair plan and bill the end user agent.

**NOTE 1:**  Inside wiring may be provided in provider Intrastate tariffs or in an unregulated environment.

**25.** **GETO -** General Exchange Tariff Options Code (continued)

**NOTE 2:** When the GETO field is "N", the AAI field on the SALI Form may be used to specify details.

**NOTE 3:** When the GETO field is "O", specify requirements in the REMARKS field.

**NOTE 4:** When the valid entry is other than "N", "S", "U" or "W", the GCON field must be populated.

**NOTE 5:** Use of valid entries is based on provider tariffs/practices.

**USAGE:** This field is optional.

**DATA CHARACTERISTICS:** 1 alpha character

**EXAMPLE:** |R|

**26.**    **GBTN -** General Exchange Tariff Options Billing Telephone Number

Identifies the billing telephone number for charges associated with options listed in the GETO (e.g., inside wire time and material charges).

**USAGE:**    This field is conditional.

**NOTE 1:**    Prohibited when the GETO field is "A", "E", "S", "T", "U", "V", "W", "Y", "Z" or not populated, otherwise optional.

**DATA CHARACTERISTICS:**    10 alpha/numeric characters (excluding 2 preprinted hyphens)

**EXAMPLE:**    2 0 1 - 9 8 8 - 7 3 0 0

**27.**     **GCON -** GETO Contact Name

Identifies the name of the person to be contacted for additional information regarding GETO options.

    **USAGE:**     This field is conditional.

    **NOTE 1:**     Required when the GETO field is "A", "E", "O", "P", "R", "T", "V", "Y", or "Z" and the entry in this field is different than the BILLCON field on the ASR Form, otherwise optional.

**DATA CHARACTERISTICS**:     25 alpha/numeric characters

**EXAMPLE:**     | T | O | M | | | J | O | N | E | S | | | | | |

| | | | | | | | | | | | | | | |

**28.**    **GTEL –** General Exchange Tariff Options Contact Telephone Number

Identifies the telephone number of the person named in the GCON field.

**USAGE:**    This field is conditional.

**NOTE 1:**    Required when the GCON field is populated, otherwise prohibited.

**DATA CHARACTERISTICS**:    14 numeric characters (excluding 3 preprinted hyphens)

**EXAMPLE:**    |2|0|1| - |9|8|8| - |7|6|2|3| - |1|0|1|2|

**29.**    **IP ADDRESS -** Internet Protocol Address

Identifies the Internet Protocol Version Address within the network interface device at a host or end user location for Ethernet based service.

**VALID ENTRIES:**

IPv4 address
IPv6 address

**NOTE 1:**   An entry in this field must comply with the Internet Engineering Task Force (IETF) Standards for an IPv4 or IPv6 address.

**USAGE:**    This field is conditional.

**NOTE 1:**   Optional when the ACT field on the ASR Form is "N" or "C", otherwise prohibited.

**DATA CHARACTERISTICS:**    39 alpha/numeric characters

**EXAMPLES:**   | 1 | 3 | 0 | . | 2 | 5 | 5 | . | 2 | 5 | 3 | . | 3 | 0 | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | |

**NOTE 1:**   The example above is an IPv4 formatted address.

| 2 | 0 | 3 | 1 | : | 0 | 0 | 0 | 0 | : | 1 | 3 | 0 | F | : | 1 | 2 | 3 | 4 | : |

| 0 | 0 | 0 | 0 | : | 0 | 9 | C | 0 | : | 8 | 7 | 6 | A | : | 1 | 3 | 0 | B |

**NOTE 1:**   The example above is a fully loaded IPv6 formatted address.

**29.**     **IP ADDRESS -** Internet Protocol Address (continued)

| : | : | F | F | F | F | : | 1 | 3 | 0 | . | 2 | 5 | 5 | . | 2 | 5 | 3 | . | 3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| 0 | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

**NOTE 1:**  The example above is an IPv4 – mapped IPv6 formatted address.

**30.**     **IPAI -** Internet Protocol Address Identifier

Identifies the version of the Internet Protocol Address within the network interface device at a host or end user location for Ethernet based service.

**VALID ENTRIES:**

4   =   IPv4
6   =   IPv6
M   =   IPv4 – mapped IPv6

**USAGE:**     This field is conditional.

**NOTE 1:**    Required when the IP ADDRESS field is populated, otherwise prohibited.

**DATA CHARACTERISTICS:**     1 alpha/numeric character

**EXAMPLE:**     | 4 |

**31.**     **SUBNET MASK -** Subnet Mask

Identifies the Subnet Mask associated to the Internet Protocol Version 4 (IPv4) Address within the network interface device at a host or end user location for Ethernet based service.

**VALID ENTRIES:**

Subnet Mask Address

**NOTE 1:**     An entry in this field must comply with the Internet Engineering Task Force (IETF) Standards for a Subnet Mask.

**USAGE:**     This field is conditional.

**NOTE 1:**     Required when the IP Address field is populated and the IPAI field is "4" or "M", otherwise prohibited.

**DATA CHARACTERISTICS:**     15 alpha/numeric characters

**EXAMPLE:**     | 2 | 5 | 5 | . | 2 | 5 | 5 | . | 2 | 5 | 5 | . | 0 | | |

**32.**     **ESP –** Ethernet Service Point

Identifies the Ethernet switching point, terminating equipment or terminating location, in CLLI code format, at the UNI/ENNI termination.

> **NOTE 1:**   When the ACT field on the ASR form is populated with "N", ESP may be populated with the customer's preferred switch location or left blank. The provider will determine the applicable switch location and provide the switch CLLI Code on the Confirmation Notice (CN).

> **NOTE 2:**   The format and structure of this field is defined by ANSI in document T1.253, Identification of Location Entities for the North American Telecommunications System. The CLLI Code consists of the following elements:

1. **Geographical Code** – Positions 1 through 4 describe the designation for a single geographical locality within a state, province, territory, country, or distinct region of the world (e.g., municipality) (4 alpha characters).

2. **Geopolitical Code** – Positions 5 and 6 describe the designation of a state or territory of the United States, a province or territory of Canada, another country having a national federal government, or a unique designation (2 alpha characters).

3. **Network Site Code** – Positions 7 and 8 describe the designation of a site of an existing or proposed structure within a geographical location where there is a need to identify one or more telecommunications equipment entities, facility terminations, nodal locations, or administrative operations (2 alpha or 2 numeric characters).

**32.**      **ESP –** Ethernet Service Point (continued)

> 4.    **Network Entity Code** – Positions 9 through 11 describe the functional category of equipment or work center that is contained in a structure. Equipment categories, including central office switching and ancillary equipment or non-switching or access terminations, are associated with a building or network site for purposes of maintaining equipment inventories and for identifying facility and circuit terminations and nodal locations  (3 alpha/numeric characters).

**VALID ENTRIES:**

Valid Ethernet Switching CLLI

**NOTE 1:**  Valid CLLI Codes are outlined in Telcordia Technologies practice BR 795-(100-186)-100.

**NOTE 2:**  The use of an 8 character CLLI code is based on customer provider negotiations.

**USAGE:**      This field is conditional.

**NOTE 1:**  Prohibited when the ACT field on the ASR Form is "D".

**NOTE 2:**  Required when the ACT field on the ASR Form is "C" or "M".

**NOTE 3:**  Otherwise optional.

**DATA CHARACTERISTICS:**  8    or    11    alpha/numeric characters

**EXAMPLES:** |M|I|L|N|T|N|M|A|6|8|6|

|M|I|L|N|T|N|M|A| | | |

**33.**     **OTC -** Other Exchange Company

Identifies the provider responsible for delivery of the terminating location in a multi provider service arrangement.

**NOTE 1:**   The format and structure of this field is defined by ANSI in document T1.251, Identification of Telecommunications Service Provider Codes for the North American Telecommunications System.

**VALID ENTRIES:**

- **COMMON LANGUAGE EC Code –** A four alpha character code, which identifies providers in North America, maintained by Telcordia Technologies.

- **COMMON LANGUAGE EC Code –** A two alpha character code, which identifies the former Bell companies maintained by Telcordia Technologies.

- **Company Code –** A four alpha/numeric character code structure assigned and maintained by NECA for North America and certain U.S. territories.

**NOTE 1:**   Valid EC codes are outlined in Telcordia Technologies practice BR 751-100-112.

**NOTE 2:**   Valid Company Codes are available from NECA.

**USAGE:**     This field is conditional.

**33.**     **OTC -** Other Exchange Company (continued)

**NOTE 1:**   Required when the ASC-EC field on the ASR Form is populated, otherwise prohibited.

**DATA CHARACTERISTICS:**   4 alpha/numeric characters

**EXAMPLES:** |G|T|P|A|

|2|0|3|4|

|S|W| | |

|1|2|A|3|

**34.     REMARKS** -Remarks

Identifies a free flowing field which can be used to expand upon
and clarify other data on this form.

**USAGE:**     This field is optional.

**DATA CHARACTERISTICS:**    124 alpha/numeric characters

**EXAMPLE:**   | D | I | S | C |   | O | F |   | F | I | R | S | T |   | C | I | R | C | U | I |

| T |   | I | N |   | G | R | O | U | P |   |   |   |   |   |   |   |   |   |   |