Stand Alone E-Path UNI, ENNI and EVC Order Processing

Contents

Carrier Services

Jurisdiction: FV03
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Purpose

The E-Path product offering will allow our customer's the ability to move beyond State & LATA boundaries.

Special Rules for using Multiple Class of Service EVC NCI codes

When using Multiple Class of Service EVC NCI codes, all EVC NCI codes must be Multiple Class of Service or the traffic will not pass over the EVC.

- If requesting Multiple Class of Service then all EVC NCI codes must be 02VLN.VP and all UNI's must have been ordered as VLAN Based UNI's.

- If one of the UNI's are Port Based and the other is VLAN Based, then the customer cannot use 02VLN.VP. They must use a Port Based EVC NCI for the Port Base UNI RUID and a different VLAN Based EVC NCI for the VLAN Based UNI.

EVC NCI Code Defined – 02VLN.VP supports PORT + CE-VLAN + PBIT MAP (This EVC/OVC accepts only tagged frames with a specific CE-VLAN ID and also supports Multiple Classes of Service distinguished via Pbit)

Overview

Switched Ethernet is composed of piece parts that are ordered independently and then tied together. The components are based on MEF Forum Switched Ethernet Service specifications.

User to Network Interface (UNI) connections are physical connections from a Customer premise (CPE) to the RADNID installed at the Customer Premise. Then a Customer Network Link (CNL) takes the circuit from the RADNID to the first point of switching/routing. UNIs are ordered with one NC one NCI and a SECNCI code.

External Network to Network Interfaces (ENNIs) are also physical connections from a Customer premise (CPE) to the RADNID installed at the Customer Premise. Then a Customer Network Link (CNL) takes the circuit from the RADNID to the first point of switching/routing. The difference between ENNIs and UNIs is that ENNIs are intended to carry traffic between two different Provider's domains. ENNIs are also ordered with one NC one NCI and a SECNCI code.

Ethernet Virtual Connections (EVCs) connect the UNIs and ENNIs with dedicated virtual channels. They are also ordered with one NC and two NCI codes.

Exclusions

Wireless Customers are excluded from this process.

SPEC of EPATHU on Activity of N

New Process for E-Path Ordering
The Combo ordering process will allow the UNI and EVC on a single PON.

1. Switched Ethernet Stand Alone UNIs ACT of N SPEC of EPATHU will no longer be permitted and must be ordered on a COMBO Order.

2. Activity of C, R, D, M are permitted on a Stand Alone UNI (SEI = Y, EVCI = Blank) with SPEC of EPATHU.

3. Activity of C, R, D will be permitted on a Stand Alone E-Path EVC (SEI = Blank, EVCI = A).

4. Activity of N for E-Path service using (SEI = Blank, EVCI = A) will only be accepted when ordering a second EVC to an in-service E-Path VLAN Based/Service Multiplexed UNI (NC 3rd position = E, F or H). The PON will be validated to determine if the locations are crossing LATA/State boundaries and to determine if one of RUIDs was ordered as E-Path (SPEC = EPATHU). If either validation fails then a CNR will be sent advising to cancel and reissue as a COMBO.

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ASR FATAL AND NON-FATAL ERROR OR CLARIFICATION/NOTIFICATION REQUEST ERROR [Optional | Conditional]

FID	MSG_CODE
	ASR

MESSAGE
EVCI: EVC CROSSES LATAS. UNI WAS NOT ORDERED AS EPATH. EVC AND UNI ORDER MUST BE CANCELLED AND REISSUED WITH EVCI = B.

PRACTICE	REFNUM	VCNUM

UREF	SUPI	LREF	OCC
	Y		1

5. NNI's for E-Path and E-PATH Core POPs will continue to be ordered as Stand Alone NNI (SEI = Y, EVCI = Blank).

E-Path UNI REQTYP ED & SD – ACT C, D, R, M

VFO: Enduser Switched Ethernet (Service Address Location - SALI)

UNI – E-Path		
ASR FORM - ADMINISTRATIVE		**ASR Activity**
ICSC	FV03	C – Required D – Required R - Required M- Required
DDD	ACT = C, D, M = 6 Business Day Interval ACT = R = 2 Business Day Interval	C – Required D – Required R - Required M- Required
REQTYP	ED, SD	C – Required D – Required R - Required M- Required
ACT	C, D, R, M	C – Required D – Required R - Required M- Required
QSA	01 (only used with REQTYP ED)	C – Required D – Optional R - Required M- Required
EXP	Populated only if expedite is being requested	C – Required D – Prohibited R - Required M- Required
SEI	Y	C – Required D – Required R - Required M- Required
RTR	F - Send FOC only S – Prohibited on ACT of D N - No response required	C – Required D – Prohibited R - Required M- Required
PIU	100	C – Required D – Required R - Required M- Required
QTY	1	C – Required D – Required R - Required M- Required
BAN	CABS BAN or 'E' for existing	C – Required D – Required R - Required M- Required

SPEC	**EPATHU**	C – Required D – Required R - Required M- Required
ASC-EC	Prohibited	C – Prohibited D – Prohibited R - Prohibited M- Prohibited
BILLING		**ASR Activity**
ACNA	Identifies the COMMON LANGUAGE IAC code for the customer who should receive the bill for the ordered service	C – Required D – Required R - Required M- Required
VTA	12, 24, 36, or 60	C – Required D – Optional R - Required M- Required
PNUM	POS 1-3 = **EPA**	C – Required D – Optional R - Required M- Required
CONTACT		**ASR Activity**
INIT	Identifies the customer employee who originated the request	C – Required D – Required R - Required M- Required
INITIATOR TEL	Identifies the telephone number of the customer employee who initiated the request	C – Required D – Required R - Required M- Required
INIT EMAIL	Identifies the electronic mail address of the initiator	C – Required D – Optional R - Required M- Required
DSGCON	Identifies the employee of the customer or agent who should be contacted on design/engineering/translation issues and to whom the Design Layout Report may be sent. Required when RTR is F or S	C – Required D – Prohibited R - Required M- Required
DSGCON TEL	Telephone number of employee of the customer or agent who should be contacted on design/engineering/translation issues and to whom the Design Layout Report may be sent	C – Required D – Prohibited R - Required M- Required
IMPCON	Identifies the customer employee or office responsible for control of installation and completion	C – Required D – Required R - Required M- Required
IMPCON TEL	Identifies the telephone number of the implementation contact	C – Required D – Prohibited R - Required M- Required

SES FORM - SWITCHED ETHERNET SERVICES		ASR Activity
NC	See NC/NCI/SECNCI list for E-Path on SharePoint	C – Required D – Optional R - Required M- Required
NCI	See NC/NCI/SECNCI list for E-Path on SharePoint	C – Required D – Optional R - Required M- Required
SECNCI	See NC/NCI/SECNCI list for E-Path on SharePoint	C – Required D – Optional R - Required M- Required
ESP	Ethernet Service Point Customer is permitted to populate the ESP field with a preferred or recommended Switch CLLI. (C+CLLI	C – Required D – Prohibited R - Optional M- Required
SERVICE ADDRESS INFORMATION (only used with REQTYP ED)		**ASR Activity**
EUNAME	Identifies the end user name associated with the Primary location	C – Required D – Optional R - Required M- Required
SAPR	Identifies the address prefix	C – Optional D – Optional R - Optional M- Optional
SANO	Identifies the address number	C – Required D – Optional R - Required M- Required
SASF	Identifies the address suffix	C – Optional D – Optional R - Optional M- Optional
SASD	Identifies the street direction	C – Optional D – Optional R - Optional M- Optional
SASN	Identifies the street name	C – Optional D – Optional R - Optional M- Optional
SATH	Identifies the thoroughfare of the street name	C – Optional D – Optional R - Optional M- Optional
SASS	Identifies the street directional suffix	C – Optional D – Optional R - Optional M- Optional

LD1, 2, 3	Identifies additional information related to the service address. (e.g., building, floor, room)	C – Optional D – Optional R - Optional M- Optional
LV 1, 2, 3	Identifies the value associated with the Location Designator of the service address.	C – Optional D – Optional R - Optional M- Optional
City	Identifies the name of the city, town, etc. of the service address.	C – Required D – Optional R - Required M- Required
STATE	Identifies the State of the service address.	C – Required D – Optional R - Required M- Required
ZIP	Identifies the ZIP code of the service address	C – Required D – Optional R - Required M- Required
JS	Entry is D. Indicates the access service is to terminate at a new or existing registered jack or demarc. D is the only valid entry for SES/TLS UNI services	C – Required D – Optional R - Prohibited M- Required
LCON	Identifies the local contact name	C – Required D – Optional R - Optional M- Required
ACTEL	Identifies the telephone number to be used for arranging access for installation	C – Required D – Optional R - Optional M- Required
LCON EMAIL	Identifies the email address of the Location Contact	C – Required D – Optional R - Optional M- Required

E-Path ENNI REQTYP SD – ACT N, C, D, R, M

ENNI – E-Path		
ASR FORM - ADMINISTRATIVE		**ASR Activity**
ICSC	FV03	All ASR Activity
DDD	See Standard Interval Job Aid on Sharepoint	All Activity
CNO	Prohibited	All ASR Activity
REQTYP	SD	N – Required R – Required C – Required D – Required
ACT	N	All ASR Activity
EXP	Populated only if expedite is being requested	All ASR Activity except D
SEI	Y	All ASR Activity
RTR	F - Send FOC only S – Prohibited on ACT of D N - No response required	N – Required R – Required C – Required D – Required
PIU	100	N – Required R – Required C – Required D – Required
QTY	1	N – Required R – Required C – Required D – Required M - Required
ACTL	ACTL/POP CLLI (State must be a Phase I state)	N – Required R – Required C – Required D – Required
BAN	CABS BAN or 'E' for existing	N – Required R – Required C – Required D – N/A
SPEC	**EPATHN**	N – Required R – Required C – Required D – Required
TSP	12-character code required. The first nine characters are the TSP Control ID, a computer-generated number used for government tracking purposes. The 10th character is always a hyphen. The last two characters are the TSP Priority Code.	N – Optional R – Required C – Required M - Required D – N/A
ASC-EC	Prohibited	N – Prohibited R – Prohibited C – Prohibited M – Prohibited D – Prohibited

BILLING		ASR Activity
ACNA	Identifies the COMMON LANGUAGE IAC code for the customer who should receive the bill for the ordered service	N – Required R – Required C – Required D – Required
FUSF	Federal Universal Service Fee (FUSF). 1 alpha character Valid Values: E = Exempt Federal Universal Service Fee, N = Non-Exempt (Assessed) Federal Universal Service Fee	N – Optional R – Required C – Required D – N/A
VTA	12, 24, 36, or 60	N – Required R – Required C – Required D – Optional
PNUM	POS 1-3 = **EPA**	N – Required R – Required C – Required D – Optional
CONTACT		ASR Activity
INIT	Identifies the customer employee who initiated the request	N – Required R – Required C – Required D – Required
INITIATOR TEL	Identifies the telephone number of the customer employee who initiated the request	N – Required R – Required C – Required D – Required
INIT EMAIL	Identifies the electronic mail address of the initiator	N – Required R – Required C – Required D – Required
DSGCON	Identifies the employee of the customer or agent who should be contacted on design/engineering/translation issues and to whom the Design Layout Report may be sent. Required when RTR is F or S	N – Required R – Optional C – Required D – Prohibited
DSGCON TEL	Telephone number of employee of the customer or agent who should be contacted on design/engineering/translation issues and to whom the Design Layout Report may be sent	Required if DSGCON is Populated Prohibited ACT D
IMPCON	Identifies the customer employee or office responsible for control of installation and completion	Required All Activities
IMPCON TEL	Identifies the telephone number of the implementation contact	Required All Activities

SES FORM - SWITCHED ETHERNET SERVICES		ASR Activity
NC	See NC/NCI/SECNCI list for E-Path on SharePoint	N – Required R – Optional C – Required D – Optional
NCI	See NC/NCI/SECNCI list for E-Path on SharePoint	N – Required R – Optional C – Required D – Optional
SECNCI	See NC/NCI/SECNCI list for E-Path on SharePoint	N – Required R – Optional C – Required D – Optional
ESP	Ethernet Service Point Customer is permitted to populate the ESP field with a preferred or recommended Switch CLLI. (C+CLLI	N – Optional R – Optional C – Optional D – Prohibited
CCEA	Identifies the physical point of termination at a collocation arrangement. Required when NCI/SECNI Code 3rd position equals Q	N – Optional R – Optional C – Optional D – Prohibited

E-Path Stand Alone EVC - (EVCI = A, SEI = Blank) – ACT N, C, D, R

(ACT of N Can only be ordered when customer is ordering a second EVC to an in-service E-Path VLAN Based/Service Multiplexed UNI (NC 3rd position = E, F or H)

ASR FORM - ADMINISTRATIVE			
FIELD	ENTRY	FIELD DESCRIPTION	ASR Activity Type
CCNA	Customers CCNA	Customer Carrier Name Abbreviation	All Activity -Required
PON	Customers PON	Purchase Order Number	All Activity -Required
PROJECT	Customer generated	Identifies the project with which the request is to be associated	N – Optional C – Optional D – Optional R – Optional
REQTYP	SD	Identifies the type of service being requested	All Activity -Required
ACT	ACT of N can only be ordered when customer is ordering a second EVC to an in-service E-Path VLAN Based/Service Multiplexed UNI (NC 3rd position = E, F or H)	Identifies the activity involved in this service request	All Activity -Required
EXP	Populated if Expedite is requested	Indicates that expedited treatment is requested and any charges generated in provisioning this request	N – Optional C – Optional D – Optional R – Optional
RTR	F - Send FOC only S - Prohibited on ACT of D N - No response required	Identifies the type of confirmation response requested by the customer	N – Required C – Required D – Prohibited R – Required
EVCI	A	Ethernet Virtual Connection Identifier	N – Required C – Required D – Required R – Required
PIU	100	Percentage of Interstate Usage	N – Required C – Required D – Prohibited R – Required
BAN	E, N or Fully Populated BAN	Identifies the billing account to which the recurring and non-recurring charges for this request will be billed	All Activity -Required

QTY	1	Identifies the quantity of circuits	All Activity -Required
ACTL	SD = 11 Character CLLI Code	Identifies the CLLI Code of the customer facility terminal location	All Activity -Required
TSP	Example: TSP12345C-E1	Indicates the provisioning and restoration priority	All Activity -Optional
ASC-EC	If populated must be the ICSC code of RUID 2.	Identifies the ICSC code of the Access Service Coordination - Exchange Company	All Activity -Optional

BILLING FORM			
FIELD	**ENTRY**	**FIELD DESCRIPTION**	**ASR Activity Type**
ACNA	Access Customer Name Abbreviation	Identifies the COMMON LANGUAGE IAC code for the customer who should receive the bill for the ordered service	All Activity -Required
VTA	Refer to Ethernet NC/NCI and SPEC code Job Aid in Share point	Identifies the duration, identifying USOC, contract date or contract identification number of any variable term agreement that may be offered	All Activity -Required
PNUM	First 3 positions must equal EPA	Identifies the contract tariff option for a pricing promotion plan	N – Required R – Required C – Required D – Optional

CONTACT			
FIELD	**ENTRY**	**FIELD DESCRIPTION**	**ASR Activity Type**
INIT	Example: Jane Smith	Identifies the customer employee who originated the request	N - Required
INITIATOR TEL	Example: 9999999999	Identifies the telephone number of the customer employee who initiated the request	N – Required
INIT EMAIL	Example: Jane.Smith@abc.com	Identifies the electronic mail address of the initiator	N – Required

DSGCON	Example: Jane Smith	Identifies the employee of the customer or agent who should be contacted on design/ Engineering/translation issues and to whom the Design Layout Report may be sent. Required when RTR is F or S	N – Required
DSGCON TEL	Example: 9999999999	Telephone number of employee of the customer or agent who should be contacted on design/ engineering/translation issues and to whom the Design Layout Report may be sent	N - Required
IMPCON	Example: Jane Smith	Identifies the customer employee or office responsible for control of installation and completion	N – Required
IMPCON TEL	Example: Jane Smith	Identifies the telephone number of the implementation contact	N - Required

EVC FORM ETHERNET VIRTUAL CONNECTION

FIELD	ENTRY	FIELD DESCRIPTION	ASR Activity Type
EVCNUM	Example: 0001	Ethernet Virtual Connection Reference Number	All Activity -Required
NC	VLP-	Network Channel	N – Required R – Required C – Required D - Prohibited
EVCID	N/A	Ethernet Virtual Connection Identifier	N – Prohibited R – Required C – Required D – Required
NUT	01 or 02	Number of UNI Terminations	N – Required R – Required C – Required D – Optional
EVCCKR	Optional- customer format	Customer Ethernet Virtual Circuit Identifier	All Activity -Optional

EVC FORM – ETHERNET VIRTUAL CONNECTION UNI MAPPING DETAIL [1]			
FIELD	**ENTRY**	**FIELD DESCRIPTION**	**ASR Activity Type**
UREF - 01	01	User Network Interface [UNI] Reference Number	N – Required R – Required C – Required D – Optional
UACT	N, C, R, D Required when the associated UREF field is populated, otherwise prohibited	User Network Interface [UNI] Activity Indicator	N – Required R – Required C – Required D – Optional
NCI	**VLAN Based:** 02VLN.V, 02VLN.VP, 02VLN.VST **PORT Based:** 02VLN.A2 and 02VLN.UNT	Network Channel Interface	N – Required R – Required C – Required D – Optional
EVCSP	11-character CLLI Code	Ethernet Virtual Connection Switch Point	N – Required R – Required C – Required D – Optional
RUID -1	Required when the associated UREF field is populated	Identifies the provider's related circuit ID for a UNI	N – Required R – Required C – Required D – Optional
EVC FORM – ETHERNET VIRTUAL CONNECTION LEVEL OF SERVICE MAPPING DETAIL			
FIELD	**ENTRY**	**FIELD DESCRIPTION**	**ASR Activity Type**
LREF – 01	Required when the associated UACT field is "C" or "N"	Level of Service Reference Number	N – Required R – Prohibited C – Required D – Prohibited
LOSACT	Required when the associated LREF field is populated, otherwise prohibited	Identifies the activity for the level of service as part of the EVC configuration	N – Required R – Prohibited C – Required D – Prohibited
LOS	EBE, ERT or EPD Required when the associated LREF field is populated	Identifies a name for a provider-defined level of service performance associated with the Ethernet product offering	N – Required R – Prohibited C – Required D – Prohibited
SPEC	EPATHES,EPATHEG,EPATHEP Required when the associated LREF field is populated	Service and Product Enhancement Code	N – Required R – Required C – Required D – Prohibited
BDW	Required when the associated LOSACT field is "C" or "N", otherwise optional	Bandwidth Identifies the bandwidth rate defined by the Level of Service.	N – Required R – Required C – Required D – Prohibited

EVC FORM – ETHERNET VIRTUAL CONNECTION UNI MAPPING DETAIL [2]			
FIELD	**ENTRY**	**FIELD DESCRIPTION**	**ASR Activity Type**
UREF - 02	02	User Network Interface [UNI] Reference Number	N – Required R – Required C – Required D – Optional
UACT	N, C, R, D Required when the associated UREF field is populated, otherwise prohibited	User Network Interface [UNI] Activity Indicator	N – Required R – Required C – Required D – Optional
NCI	**VLAN Based:** 02VLN.V, 02VLN.VP, 02VLN.VST **PORT Based:** 02VLN.A2 and 02VLN.UNT	Network Channel Interface	N – Required R – Required C – Required D – Optional
EVCSP	Prohibited when the ACT field on the ASR Form is "D", otherwise optional	Ethernet Virtual Connection Switch Point	N – Optional R – Optional C – Optional D – Prohibited
RUID	Required when the associated UREF field is populated	Identifies the provider's related circuit ID for a UNI	N – Required R – Required C – Required D – Required
EVC FORM **–** ETHERNET VIRTUAL CONNECTION LEVEL OF SERVICE MAPPING DETAIL			
FIELD	**ENTRY**	**FIELD DESCRIPTION**	**ASR Activity Type**
LREF - 01	Required when the associated UACT field is "C" or "N"	Level of Service Reference Number	N – Required R – Prohibited C – Required D – Prohibited
LOSACT	Required when the associated LREF field is populated, otherwise prohibited	Level of Service Activity Indicator	N – Required R – Prohibited C – Required D – Prohibited
LOS	Required when the associated LREF field is populated	Identifies a name for a provider-defined level of service performance associated with the Ethernet product offering	N – Required R – Prohibited C – Required D – Prohibited
SPEC	EPATHES,EPATHEG,EPATHEP Required when the associated LREF field is populated	Service and Product Enhancement Code	N – Required R – Prohibited C – Required D – Prohibited
BDW	Required when the associated LOSACT field is "C" or "N", otherwise optional	Identifies the bandwidth rate defined by the Level of Service.	N – Required R – Prohibited C – Required D – Prohibited

Intervals and FOC Timelines

UNI/ENNI Intervals and FOC Timelines

Activity	UNI/NNI Service Intervals	UNI/NNI FOC
New/Change	20 business days	11 business days
Change/Disconnect	6 business days	3 business days
Records	2 business days	1 business day

EVC Intervals and FOC Timelines

Activity	EVC Service Intervals	EVC FOC
New/Change	6 business days	3 business days
Disconnect	5 business days	3 business days
Records	2 business days	1 business day

E-Path Silver, Gold and Platinum Expedites

Expedites are permitted with E-Path Silver, Gold and Platinum and will be applied only when the EXP field is populated with a "Y" and the standard interval is capable of being shortened. This does not guarantee a reduced interval.

E-Path Silver, Gold and Platinum Cancellation Charges

If customer cancels a PON, in whole or part, prior to installation, customer will be billed cancellation charges. Charges consist of one full month of Monthly Reoccurring Charges (MRC).

E-Path Silver, Gold and Platinum Term Liability and Re-terms

Customers will be offered term agreements in 1, 2, 3, and 5 years. Should a customer disconnect their service prior to the end of the minimum period, termination liability charges will be applied.

Minimum period for this service shall be the length of the term as specified in the VTA field of the Service Order for all physical interfaces and or rate elements (i.e.; UNI's and ENNI's), including mileage, if mileage was originally part of the initial design and is not subject to Ethernet Virtual Circuits.

In the event a cancellation order is received prior to fulfilling the term agreement associated with a physical interface, Early Termination Liability charges will be assessed and invoiced in the amount of 100% of the MRC for the remaining period of the original term as indicated in the VTA field of the originating Service Order. Term Liability is not applicable when customer is upgrading their service.

Re-terms are not applicable for E-Path Silver, Gold and Platinum. After the customer's existing contract expires, they will continue to bill at the same rate on a month to month basis until the service is disconnected. Should the customer negotiate a new term/rates, then customer must enter into a new contract and send change/records order to update the contract number.

Change Log

Date	Page Number	Change