



# Bandwidth Upgrades for UNI/EVC

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# Bandwidth Upgrades for UNI/EVC

## Overview

The purpose of this document is to provide guidance for a bandwidth upgrade to the Ethernet circuit. There are several different order types that may be needed depending on the existing NC (Network Channel) code on the circuit. Following are examples of NC codes and the type of orders needed for a bandwidth upgrade. For valid NC code combinations, please refer to the Job Aid: Switched Ethernet (Layer 2) NC/NCI/SECNCI & SPEC Codes located on the Frontier website <https://wholesale.frontier.com/access-services/ethernet-ordering/ethernet-nc-nci-secnci-job-aids>

**Note: Bandwidth Upgrade orders MUST use existing Circuit data where noted in this document.**



## Bandwidth Upgrades for UNI/EVC

### Rate Adjustable Codes UNI/EVC Bandwidth Upgrade

Rate Adjustable NC codes are used for incremental increases in the bandwidth. As long the UNI upgrade is within the original ordered speed, then order activity used is C for Change because the first two positions of the NC code are not changing and the circuit ID will remain the same.

**NOTE:** PNUM and VTA changes should not be done on the upgrades. Submit an R for Record Activity order for these type of changes.

Example:

- 1G connection speed with 8M CIR (BDW) upgrading to 1G connection speed with 15M CIR (BDW). Requires C ACT Order on the UNI to change the 4<sup>th</sup> position of the NC code and C ACT order on the EVC to change the Bandwidth.

EVPL Example	UNI/EVC BDW Speed	NC	NCI	SECNCI	Order Types
UNI Current Speed	1G/8M	KRB8	02LNF.A02	02CXF.1GE	Activity of C on the UNI
UNI Upgrade	1G/15M	KRBC	02LNF.A02	02CXF.1GE	
EVC Current Speed	8M	VLP-	Original NCI	Original SECNCI	Activity of C on the EVC
EVC Upgrade Speed	15M	VLP-	Original NCI	Original SECNCI	

Example:

- 100M connection speed with 90M CIR (BDW) upgrading to 1G connection speed with 1G CIR (BDW). Requires D and N ACT orders on the UNI to change the 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> positions of the NC code. C ACT order on the EVC to change the Bandwidth.

EVPL Example	UNI/EVC Speeds	NC	NCI	SECNCI	Order Types
UNI Current Speed	100M/90M	KQE9	04LN9.1CT	04CX9.1CT	Activity of D/N on the UNI
UNI Upgrade	1G/1G	KRE0	02LNF.A02	02CXF.1GE	
EVC Current Speed	90M	VLP-	Original NCI	Original SECNCI	Activity of C on the EVC
EVC Upgrade Speed	1G	VLP-	Original NCI	Original SECNCI	



# Bandwidth Upgrades for UNI/EVC

## Full Rate Codes UNI/EVC Bandwidth Upgrade

Full Rate Codes require Disconnect and New connect orders. The circuit ID will be changing based on the Service Code Modifier.

Example:

- 10M connection speed, CIR (BDW) is based on the speed of the EVC. Upgrading to 1G connection speed, CIR (BDW) is based on the speed of the EVC

EVPL	UNI/EVC Speeds	NC	NCI	SECNCI	Order Types
UNI Current Speed	10M	KDE-	04LN9.10T	02CXF.100	<b>Activity of D/N on the UNI</b>
UNI Upgrade	100M	KEE-	04LN9.1CT	02CXF.100	
EVC Current Speed	10M	VLP-	Original NCI	Original SECNCI	<b>Activity of C on the EVC</b>
**EVC Upgrade Speed**	100M	VLP-	Original NCI	Original SECNCI	

**\*\*On the FULL Rate EVC Bandwidth Upgrade, the upgrade speed can be from 1M to 100M if the UNI Circuit is VLAN Based\*\*\***

**Determine if the NC code on the existing circuit is Rate Adjustable or Full Rate using the following table.**

Service	NC
10 Mbps Full Rate	KD
<b>10 Mbps Rate Adjustable</b>	<b>KP</b>
100 Mbps Full Rate	KE
<b>100 Mbps Rate Adjustable</b>	<b>KQ</b>
1 Gbps Full Rate	KF
<b>1 Gbps Rate Adjustable</b>	<b>KR</b>
10 Gbps Full Rate	KG
<b>10 Gbps Rate Adjustable</b>	<b>KS</b>



# Bandwidth Upgrades for UNI/EVC

## UNI Bandwith Upgrade ASR Fields

Service Type: END USER SWITCHED ETHERNET

ASR FORM - ADMINISTRATIVE		
FIELD	ENTRY	ASR Activity Type
CCNA	Populate what is existing currently on Circuit	N - Required D - Required C - Required
PON	Customers PON	N - Required D - Required C - Required
REQTYP	ED = End User	N - Required D - Required C - Required
ACT	N, D or C	N - Required D - Required C - Required
EXP	Populated if Expedite is requested	N - Optional D - Optional C - Optional
RTR	F - Send FOC only S – Send FOC and DLR (Prohibited when ACT = D) N - No response required	N - Required D - Prohibited C - Required
SEI	Y	N - Required D - Required C - Required
QSA	01	N - Required D - Optional C - Required
PIU	100	N - Required D - Prohibited C - Required
BAN	E or Fully Populated Current BAN	N - Required D - Required C - Required
RPON	Place RPON on ACT N and D	N - Required D - Required C - Optional
ECCKT	ECCKT of the UNI CKT ID	N - Prohibited D - Required C - Required
QTY	1	N - Required D - Required C - Required
TSP	Example: TSP12345C-E1 <b>Required</b> if existing on original Circuit	N - Required D - Required C - Required
SPEC	Populate what is existing currently on Circuit	N - Required D - Optional C - Required
ASC-EC	Prohibited	All Activities Prohibited



## Bandwidth Upgrades for UNI/EVC

BILLING		
FIELD	ENTRY	ASR Activity Type
ACNA	Populate what is existing currently on Circuit	N - Required D - Required C - Required
FUSF	Populate what is existing currently on Circuit	N - Required D - Prohibited C - Required
VTA	Populate what is existing currently on Circuit	N - Required D - Optional C - Required
VTAI	A – New Term Agreement (Activity of N only) C – Retain existing Variable Term Agreement with No Changes (Reterms must be done on Activity of R only)	N – Required D – Prohibited C - Required
PNUM	Populate what is existing currently on Circuit	N - Required D - Optional C - Required
CONTACT		
FIELD	ENTRY	ASR Activity Type
INIT	Example: Jane Smith	N - Required D - Required C - Required
INITIATOR TEL	Example: 9999999999	N - Required D - Required C - Required
INIT EMAIL	Example: Jane.Smith@abc.com	N - Optional D - Optional C - Optional
DSGCON	Example: Jane Smith	N - Required D - Prohibited C - Required
DSGCON TEL	Example: 9999999999	N - Required D - Prohibited C - Required
IMPCON	Example: Jane Smith	N - Required D - Required C - Required
IMPCON TEL	Example: Jane Smith	N - Required D - Required C - Required
SES FORM – Switched Ethernet Services		
FIELD	ENTRY	ASR Activity Type
NC/NCI/SECNCI	Refer to Ethernet NC/NCI and SPEC codes Job Aid at: <a href="https://wholesale.frontier.com/access-services/ethernet-ordering/ethernet-nc-nci-secnci-job-aids">https://wholesale.frontier.com/access-services/ethernet-ordering/ethernet-nc-nci-secnci-job-aids</a>	N - Required D - Required C - Required
ESP	11 character CLLI from original Circuit	N - Optional D - Prohibited C - Required



## Bandwidth Upgrades for UNI/EVC

SES FORM – Service Address Information		
FIELD	ENTRY	ASR Activity Type
PI	Y	N - Required D - Optional C - Required
EUNAME	End User's Name	N - Required D - Optional C - Required
SANO	Populate if field was populated on original order	N - Conditional D - Optional C - Conditional
SASN	End User's Street	N - Required D - Optional C - Required
SATH	Populate if field was populated on original order	N - Required D - Optional C - Required
SASS	Populate if field was populated on original order	N - Conditional D - Optional C - Conditional
LD1	Populate if field was populated on original order	N - Conditional D - Optional C - Conditional
LV1	Populate if field was populated on original order	N - Conditional D - Optional C - Conditional
LD2	Populate if field was populated on original order	N - Conditional D - Optional C - Conditional
LV2	Populate if field was populated on original order	N - Conditional D - Optional C - Conditional
LD3	Populate if field was populated on original order	N - Conditional D - Optional C - Conditional
LV3	Populate if field was populated on original order	N - Conditional D - Optional C - Conditional
CITY	Populate if field was populated on original order	N - Required D - Optional C - Required
STATE	Populate if field was populated on original order	N - Required D - Optional C - Required
JS	D	N - Required D - Optional C - Required
LCON	Identifies the local contact name for access	N - Required D - Optional C - Required
ACTEL	Identifies the telephone number to be used for the purpose of arranging access to the service address location for installation purposes	N - Required D - Optional C - Required
LCON_EMAIL	Identifies the electronic mail address of the local contact	N - Required D - Optional C - Required



# Bandwidth Upgrades for UNI/EVC

## Stand Alone EVC Bandwidth Upgrade ASR Fields Activity of C

UNI CKT ID NOT CHANGING - EVCI = A

ASR FORM - ADMINISTRATIVE	
FIELD	ENTRY
CCNA	Populate what is existing currently on Circuit
PON	Customers PON
REQTYP	SD
ACT	C
EXP	Populate if Expedite is requested based on contract agreements
RTR	F - Send FOC only S – Send FOC and DLR N -No response required
EVCI	A (Will be prepopulated on PON when choosing Stand Alone EVC Service)
PIU	100
BAN	E or Fully Populated Current BAN
QTY	1
BILLING	
FIELD	ENTRY
ACNA	Populate what is existing currently on Circuit
VTA	Populate what is existing currently on Circuit
VTAI	C – Retain existing Variable Term Agreement with No Changes (Reterms must be done on Activity of R only)
PNUM	Populate what is existing currently on Circuit
CONTACT	
FIELD	ENTRY
INIT	Example: Jane Smith
INITIATOR TEL	Example: 9999999999
INIT EMAIL	Example: Jane.Smith@abc.com
DSGCON	Example: Jane Smith
DSGCON TEL	Example: 9999999999
IMPCON	Example: Jane Smith
IMPCON TEL	Example: Jane Smith
EVC FORM ETHERNET VIRTUAL CONNECTION	
FIELD	ENTRY
EVCNUM	0001
NC	VLP-
EVCID	EVC Circuit ID
NUT	02
EVC FORM – ETHERNET VIRTUAL CONNECTION UNI MAPPING DETAIL [ 1 ]	
FIELD	ENTRY
<b>UREF - 01</b>	01
UACT	C
NCI	Use existing code from original Circuit
EVCSP	11 character CLLI Code from original Circuit
RUID -1	Existing RUID that is requesting the Bandwidth upgrade





## Bandwidth Upgrades for UNI/EVC

EVC FORM – CUSTOMER EDGE VIRTUAL LOCAL AREA NETWORK MAPPING DETAIL [1]	
FIELD	ENTRY
VACT	N = New (If a New CE-VLAN is requested) E = Retain Existing (Retain CE-VLAN from existing circuit)
CE_VLAN_START	VACT = E, Populate original VLAN from circuit which can be found on the FOC from the original order VACT = N, if changing to a New VLAN then populate with New value
EVC FORM – ETHERNET VIRTUAL CONNECTION LEVEL OF SERVICE MAPPING DETAIL	
FIELD	ENTRY
LREF – 1	1
LOSACT	C
LOS	Enter existing product specific code (Populate only if not using SPEC field)
SPEC	Enter existing product specific code (Populate only if not using LOS field)
BDW	Enter New Bandwidth value for the upgrade
EVC FORM – ETHERNET VIRTUAL CONNECTION UNI MAPPING DETAIL [ 2 ]	
FIELD	ENTRY
UREF -02	02
UACT	C
NCI	Use existing code from original Circuit
EVCS	11 character CLLI Code from original Circuit
RUID	Existing RUID that is requesting the Bandwidth upgrade
EVC FORM – CUSTOMER EDGE VIRTUAL LOCAL AREA NETWORK MAPPING DETAIL [1]	
FIELD	ENTRY
VACT	N = New (If a New CE-VLAN is requested) E = Retain Existing (Retain CE-VLAN from existing circuit)
CE_VLAN_START	VACT = E, Populate original VLAN from circuit which can be found on the FOC from the original order VACT = N, if changing to a New VLAN then populate with New value
EVC FORM – ETHERNET VIRTUAL CONNECTION LEVEL OF SERVICE MAPPING DETAIL	
FIELD	ENTRY
LREF - 01	1
LOSACT	C
LOS	Enter existing product specific code from original Circuit (Populate only if not using SPEC field)
SPEC	Enter existing product specific code from original Circuit (Populate only if not using LOS field)
BDW	Enter New Bandwidth value for the upgrade



## Bandwidth Upgrades for UNI/EVC

### Stand Alone EVC Bandwidth Upgrade ASR Fields Activity of C

#### UNI CKT ID CHANGING - EVCI = A

ASR FORM - ADMINISTRATIVE	
FIELD	ENTRY
CCNA	Populate what is existing currently on Circuit
PON	Customers PON
REQTYP	SD
ACT	C
EXP	Populate if Expedite is requested based on contract agreements
RTR	F - Send FOC only S - Send FOC and DLR N -No response required
EVCI	A (Will be prepopulated on PON when choosing Stand Alone EVC Service)
PIU	100
BAN	E or Fully Populated Current BAN
QTY	1
BILLING	
FIELD	ENTRY
ACNA	Populate what is existing currently on Circuit
VTA	Populate what is existing currently on Circuit
VTAI	C - Retain existing Variable Term Agreement with No Changes (Reterms must be done on Activity of R only)
PNUM	Populate what is existing currently on Circuit
CONTACT	
FIELD	ENTRY
INIT	Example: Jane Smith
INITIATOR TEL	Example: 9999999999
INIT EMAIL	Example: Jane.Smith@abc.com
DSGCON	Example: Jane Smith
DSGCON TEL	Example: 9999999999
IMPCON	Example: Jane Smith
IMPCON TEL	Example: Jane Smith
EVC FORM ETHERNET VIRTUAL CONNECTION	
FIELD	ENTRY
EVCNUM	0001
NC	VLP-
EVCID	EVC Circuit ID
NUT	03
EVC FORM - ETHERNET VIRTUAL CONNECTION UNI MAPPING DETAIL [ 1 ]	
FIELD	ENTRY
<b>UREF - 01</b>	01
UACT	C
NCI	Use existing code from original Circuit
EVCSP	11 character CLLI Code from original Circuit
RUID -1	Existing RUID that is requesting the Bandwidth upgrade (Typically the NNI)



## Bandwidth Upgrades for UNI/EVC

EVC FORM – CUSTOMER EDGE VIRTUAL LOCAL AREA NETWORK MAPPING DETAIL [ 1 ]	
FIELD	ENTRY
VACT	N = New (If a New CE-VLAN is requested) E = Retain Existing (Retain CE-VLAN from existing circuit)
CE_VLAN_START	VACT = E, Populate original VLAN from circuit which can be found on the FOC from the original order VACT = N, if changing to a New VLAN then populate with New value
EVC FORM – ETHERNET VIRTUAL CONNECTION LEVEL OF SERVICE MAPPING DETAIL	
FIELD	ENTRY
LREF – 1	1
LOSACT	C
LOS	Enter existing product specific code from original Circuit (Populate only if not using SPEC field)
SPEC	Enter existing product specific code from original Circuit (Populate only if not using LOS field)
BDW	Enter New Bandwidth value for the upgrade
EVC FORM – ETHERNET VIRTUAL CONNECTION UNI MAPPING DETAIL [ 2 ]	
FIELD	ENTRY
UREF -02	02
UACT	N
NCI	Use existing code from original Circuit
EVCS	11 character CLLI Code from original Circuit
RUID	New RUID Circuit ID that is requesting the Bandwidth upgrade
EVC FORM – CUSTOMER EDGE VIRTUAL LOCAL AREA NETWORK MAPPING DETAIL [ 1 ]	
FIELD	ENTRY
VACT	N = New (If a New CE-VLAN is requested) E = Retain Existing (Retain CE-VLAN from existing circuit)
CE_VLAN_START	VACT = E, Populate original VLAN from circuit which can be found on the FOC from the original order VACT = N, if changing to a New VLAN then populate with New value
EVC FORM – ETHERNET VIRTUAL CONNECTION LEVEL OF SERVICE MAPPING DETAIL	
FIELD	ENTRY
LREF - 01	1
LOSACT	N
LOS	Enter existing product specific code from original Circuit (Populate only if not using SPEC field)
SPEC	Enter existing product specific code from original Circuit (Populate only if not using LOS field)
BDW	Enter New Bandwidth value for the upgrade
EVC FORM – ETHERNET VIRTUAL CONNECTION UNI MAPPING DETAIL [ 3 ]	
FIELD	ENTRY
UREF -03	03
UACT	<b>D</b>
RUID	Existing RUID (UNI RUID that was Disconnected)



# Bandwidth Upgrades for UNI/EVC

## Change Log

Date	Page Number	Change
02/09/2018		Initial document
05/19/2020	5	Added Service Type. END USER SWITCHED ETHERNET
04/15/2020	7,10,11,13	Added CE-VLAN,VACT and VTAI
05/19/2021	2, 7	Update embedded URLs
11/24/2021	All	Formatting

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