

# Wholesale Carrier Ethernet Service (CES)

# Ordering Guide for Change orders





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## CES Upgrades for Wholesale

When requesting a speed upgrade to the UNI access line at an existing address within the same adjustable rate, this can be done on a Change order.

A Change order is allowed if no equipment change is required. Any Equipment change (CO equipment or network change) will require a Disconnect and New Order.

Reasons for CO Equipment changes can vary such as:

- If the existing physical circuit (UNI) is 10M or less and is upgrading to greater than 10M, the equipment will need to be changed if on Copper (90% of the time), if it's already on fiber, no change of equipment is needed.
- If a UNI is upgrading from a 50M to 100M this can most often be done as a change order and the order can flow through.
- If the existing physical circuit is already on fiber than no equipment change is needed unless you are ordering a circuit above 200M, it may need a redesign in the network and a D/N will be required.



This process applies to downgrades as well as upgrades.



### **EVC Only Upgrades**

- An EVC Speed upgrade can be done as a change order and the Interval is 10 business days.
- If the bandwidth of the EVCs is greater than the existing physical circuit then a change order on the physical circuit is also required.

### Change Order that Needs to be D/N

This is the ordering process for an upgrade change order for both the UNI and EVC:

- Submit the upgrade as ACT=C in VFO. Submit the EVC and then the UNI
- Fidium will verify the equipment with our Wholesale Sales Engineer.
- If there is no equipment/network change the order will proceed as a change and the FOC will confirm the due date.
- If a D and N are needed, a clarification will be sent through VFO asking for a cancel on the C order and to reissue as a D and N.
- The business case will be provided on the clarification.
  - Populate the CNO field with the business case number on the New order.
  - RPON both the D and N orders.

If the EVC upgrade only order requires an equipment or network change it will have to be a done as a disconnect and new order.

- The UNI order will be required for an EVC D/N.
- New VLANs will also be required.
- Submit the Disc EVC first and then the Disc UNI order
- The New EVC will need to issued once the New UNI order is in a confirm status

#### Interval

The Interval for a change order when the UNI is changing is 15 business days or ECCD plus 6 business days.

The Interval for a change order when the EVC only is changing is **10 business days**.



## Rate-Adjustable Speeds

If the NC code stays within the same Rate Adjustable speeds for the **UNI** circuits, most often a change order is accepted. If the Rate-Adjustable changes from a KQ to KR (from 100M Port to 1G Port) a D and N order is necessary as the circuit ID will also change.

The NC codes applicable to rate-adjustable speeds are as follows:

#### 1 Gig Port NC Codes

NC	Bandwidth	Rate-Adjusted	
KRE0	1000 MPBS Circuit	Rate-Adjusted from 1 Gig	
KRE5	500 MBPS Circuit	Rate-Adjusted from 1 Gig	
KRE4	400 MBPS Circuit	Rate-Adjusted from 1 Gig	
KRE3	300 MBPS Circuit	Rate-Adjusted from 1 Gig	
KRE2	200 MBPS Circuit	Rate-Adjusted from 1 Gig	
KREB	150 MBPS Circuit	Rate-Adjusted from 1 Gig	
KRE1	100 MBPS Circuit	Rate-Adjusted from 1 Gig	
KRFJ	50 MBPS Circuit	Rate-Adjusted from 1 Gig	
KRFD	20 MBPS Circuit	Rate-Adjusted from 1 Gig	
KRFB	10 MBPS Circuit	Rate-Adjusted from 1 Gig	
KRFA	5 MBPS Circuit	Rate-Adjusted from 1 Gig	

## 100 Mbps Port NC Codes

NC	Bandwidth	Rate-Adjusted
KQE-	100 MBPS	Rate-Adjusted from 100 Mbps
KQE5	50 MBPS Circuit	Rate-Adjusted from 100 Mbps
KQE2	20 MBPS Circuit	Rate-Adjusted from 100 Mbps
KQE1	10 MBPS Circuit	Rate-Adjusted from 100 Mbps
KQEJ	5 MBPS Circuit	Rate-Adjusted from 100 Mbps



## NNI Repoint or VLAN Change

Repoints of a NNI are usually done as a coordinated cut unless the carrier is not using the circuit. It will impact the service on that circuit so if it's in use then we'll do a coordinated cut.

A NNI repoint and/or VLAN Change and speed Upgrade **cannot** be done on the same order. A NNI repoint and/or VLAN change has downtime and needs to be coordinated as a cut. A change order to upgrade the speed has no downtime when the equipment stays the same.

All after hours hot cuts are negotiated and the wholesale customer needs to contact the account manager first so that a project manager can be assigned to negotiate the DD and time.

To repoint- a NNI / VLAN Change can be done on a Change order on the EVC circuit. The ALBR field (additional labor) is required

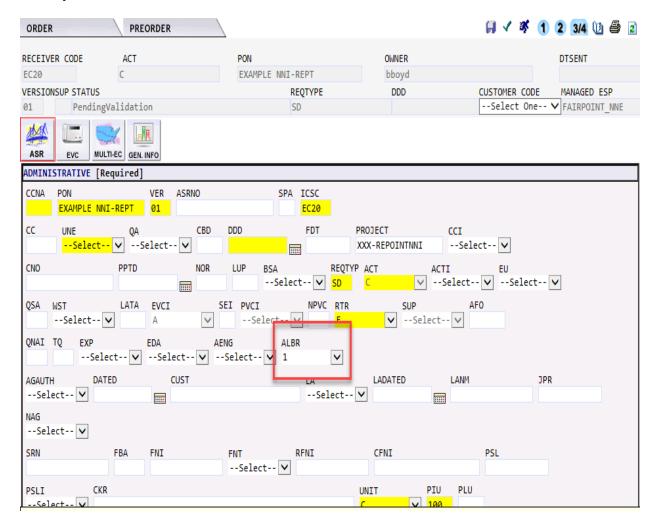
#### N

#### 2. Valid Entry(s)

<u>Value</u>	<u>Description</u>
1	Overtime installation
2	Testing with other providers
3	Other labor
4	Overtime installation and testing with other providers
5	Overtime and other labor
6	Testing with other providers and other labor
7	Overtime installation, testing with other providers and other labor

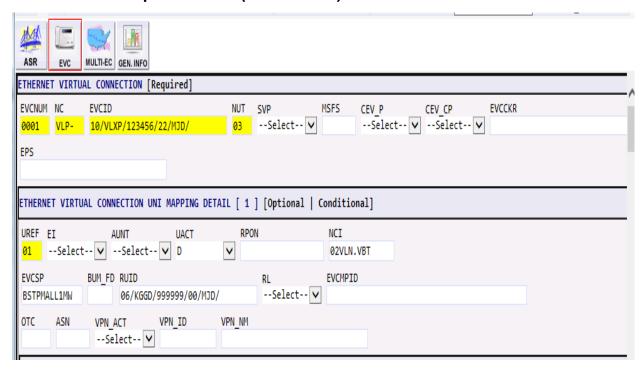


#### **Example**



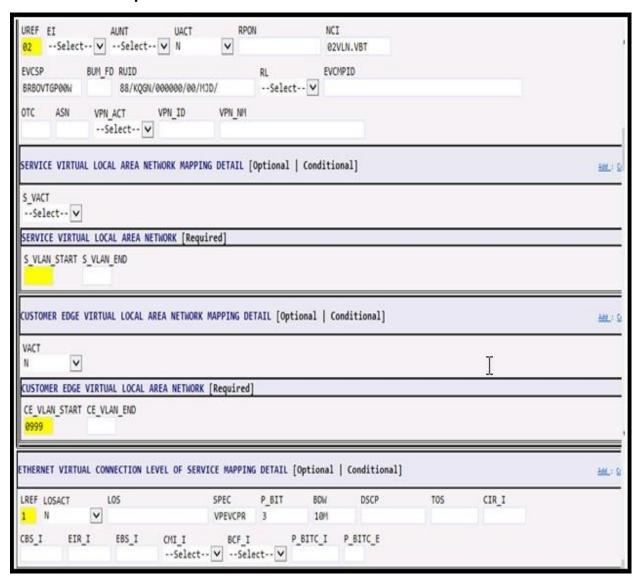


## **EVC Forms example UREF 01 (ASR ACT=C)**





#### **EVC Form Example UREF 02**





## COS Upgrade

If the customer is changing their CoS and upgrading from Standard to Expedite, Priority or Critical, both a UNI and an EVC order is required as a "D" and "N" order.

If the customer is downgrading the CoS from a higher to the standard, both a UNI and an EVC order is required.

If the customer is changing their CoS from Expedite to Priority or Critical, or vice versa, only an EVC order is required and can be done on a Change order.

#### This chart describes the change and the order type required:

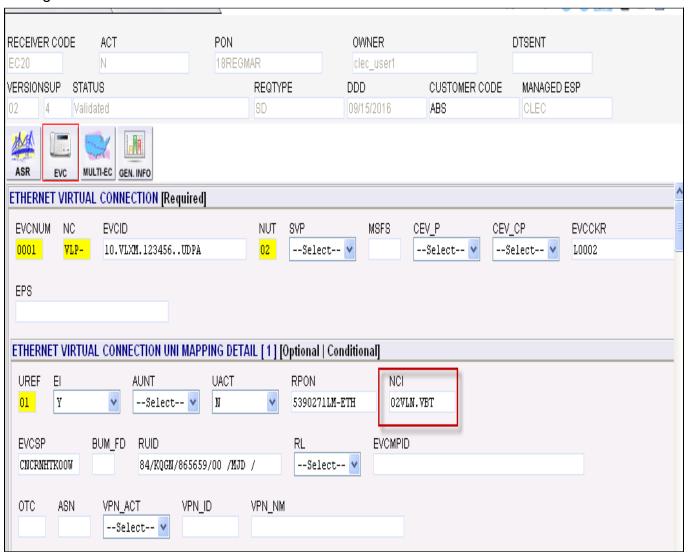
CoS From	CoS To	Order Type
Standard	>Standard	UNI & EVC Equipment <b>can</b> support- it ACT-C
		ACT C on the UNI can be submitted and if it is determined it can't be done by ACT C, then the order would be Jeopd, and a clarification sent to the customer that ACT D&N is required to change the equipment.
>Standard	Standard	UNI & EVC on ACT-C
>Standard	>Standard	EVC ONLY on ACT-C

**Note**: On a D/N order the EVC disconnect needs to be submitted before the NNI/UNI disconnect order.



If a customer need to change their EVC with a stacked" VLAN ID", also known as Q-in-Q tagging arrangement, they will need to use the appropriate NCI code on the EVC order add "QnQ Tagging Required" in remarks.

Change both NCI codes to 02VLN.VBT on UREF 01 and UREF 02





## SPEC Code

Q-in-Q tagging is **only available** to CoS greater than Standard.

NCI	EVC SPEC CODES	Level of Service	P-Bit
02LVN.VBT	VPEVCBE	Standard	1
02LVN.VST	Not Available		
	VPEVCEX	Expedite	2
	VPEVCPR	Priority	3
		Critical	4
	VPEVCCR		



The NC Code is still VLP-

## NCI Codes

The applicable EVC NCI codes for a Q in Q arrangement is:

EVC NCI Code	Description
02VLN.VBT	PORT + Bundled VLAN MAP with a stacked tag per IEEE 802.1ad  (This EVC/OVC accepts only tagged frames with two or more specific CE-VLAN IDs. The ingress/egress frames will also carry an additional or "stacked" VLAN ID, also known as Q-in-Q tagging based on the IEEE 802.1q standard that described VLAN-tag enabled Ethernet frames.)
02VLN.VST	PORT + VLAN MAP with a stacked tag per IEEE 802.1ad (This EVC/OVC accepts only tagged frames with a specific VLAN ID. The ingress/egress frames will carry an additional or "stacked" VLAN ID, also known as Q-in-Q tagging based on the IEEE 802.1q standard that described VLAN-tag enabled Ethernet frames.)