Qwest

Wholesale

Products & Services

Product Catalog (PCAT)

Sub-Loop - V11.0

History Log

Product Description

There are four product offerings with Sub-Loop: the Unbundled Feeder Loop (UFL), the Unbundled Distribution Loop (UDL), Intra-Building Cable (IBC) and Campus Wire, which is only available in Nebraska.

The UFL is the F1 or feeder portion of an unbundled loop that originates at the Qwest Central Office (CO) and ends at the Feeder Distribution Interface (FDI), which is also known as the Serving Area Interface (SAI). The UDL is the F2 or distribution portion of an Unbundled Loop from the FDI to the Network Interface Device (NID) on the end-user premises. The IBC is a Qwest provided distribution facility from a Multi- Tenant Environment (MTE) terminal, inside or attached to a MTE building, to the demarcation point (typically the NID) at the end-user premises inside the same building. Campus Wire is a Qwest provided distribution facility from a Qwest detached terminal serving a single piece of property that contains multiple buildings, i.e., a campus environment. The IBC originates at the Qwest owned building terminal and extends to the Qwest demarcation point.

By establishing a Field Connection Point/Cross Connect Collocation (FCP) at an accessible terminal or a Remote Collocation, you can obtain access to the UDL, Shared Distribution Loop (SDL), UFL, and Campus Wire. Access to IBC is gained by obtaining an established MTE - Point of Interconnection (POI) arrangement.

In Colorado, you may reserve UFL and UDL Sub-Loop elements at the time you establish your FCP. Refer to FCP for more information about the Colorado Sub-Loop Reservation Process.

The four Sub-Loop product offerings are:

1. UFL
    - Digital Service, Level 1 (DS1) Capable
2. UDL
    - 2-Wire
    - 2-Wire Non-Loaded
    - 4-Wire
    - 4-Wire Non-Loaded
3. Intra-Building Cable
4. Campus Wire (Only available in Nebraska)

Refer to Shared Distribution Loop for more information about SDL.

DS1 Capable UFL is a digital transmission path that is provisioned from a Qwest CO Network Interface, which consists of a Digital Signal Cross-connect, Level1 (DSX-1) panel or equivalent, to the FDI and can be accessed through the FCP or the Remote Collocation. The DS1 Capable UFL transports bi-directional DS1 signals with a nominal transmission rate of 1.544 Megabits (Mbps).

The 2-Wire UDL is a Qwest provided facility from the Qwest FDI to the demarcation point or NID at the end-user premises. The 2-Wire UDL includes, but is not limited to, distribution facilities that serve MTEs. The 2-Wire UDL is suitable for local exchange type services within the analog voice frequency range of 300 to 3000 Hz. Access is obtained at the FDI through an established FCP arrangement or Remote Collocation and at the end-user premises through the NID.

The 2-Wire Non-Loaded UDL is a Qwest provided facility from the Qwest FDI to the end-user's NID. It is a metallic, wire cable pair with no load coils, and, depending on the service you intend to transmit on the 2-Wire Non-Loaded UDL, some limited lengths of bridged tap.

The 2-Wire Non-Loaded UDL has the following

characteristics:

- Metallic facilities only, no carrier segments
- No load coils or build out capacitance
- Tolerant of some bridged tap
- The 2-Wire Non-Loaded UDL may contain a mixture of cable gauges

Access is obtained at the FDI through an established FCP or Remote Collocation arrangement.

The 4-Wire UDL is a Qwest provided facility from the Qwest FDI to the NID at the end-user premises.

The 4-Wire UDL has the following characteristics:

- Metallic facilities only on carrier segments
- Tolerant of some bridged tap
- Loop may contain a mixture of cable gauges

Access is obtained at the FDI through an established FCP or Remote Collocation arrangement.

The 4-Wire Non-Loaded UDL is a Qwest provided facility from the Qwest FDI to the end-user's NID. It is a metallic, wire cable pair with no load coils, and depending on the service you intend to transmit on the 4-Wire Non-Loaded UDL, some limited lengths of bridged tap.

The 4-Wire Non-Loaded UDL has the following characteristics:

- Metallic facilities only, no carrier segments
- No load coils or build out capacitance
- Tolerant of some bridged tap
- The 4-Wire Non-Loaded UDL may contain a mixture of cable gauges

Access is obtained at the FDI through an established FCP or Remote Collocation arrangement.

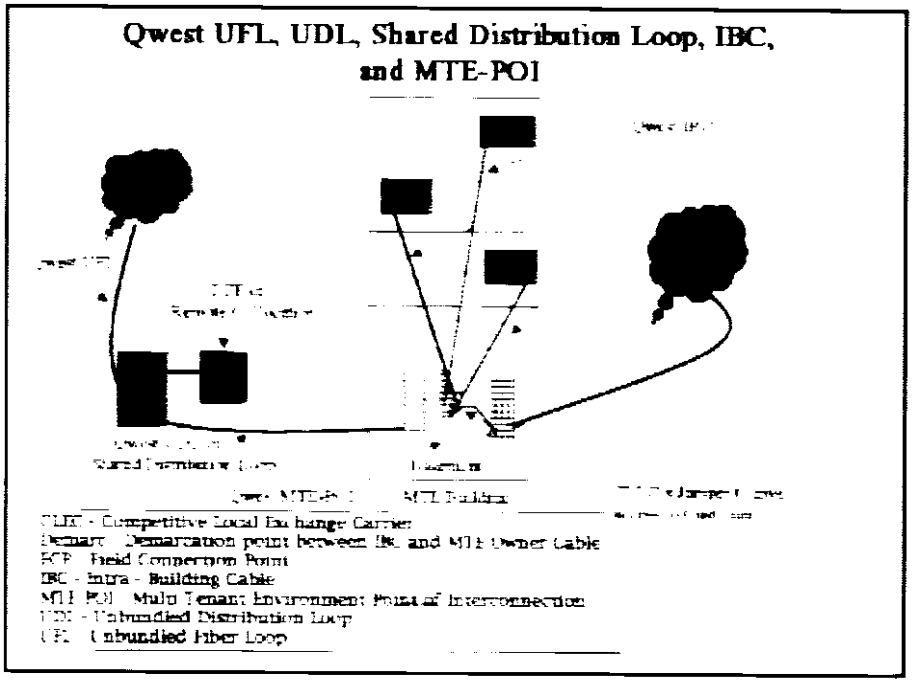
The IBC is a Qwest provided 2-Wire or 4-Wire facility that extends from a MTE terminal, or other accessible terminal that services a single building, to the end-user's NID. This Sub-Loop element applies when Qwest owns the IBC.

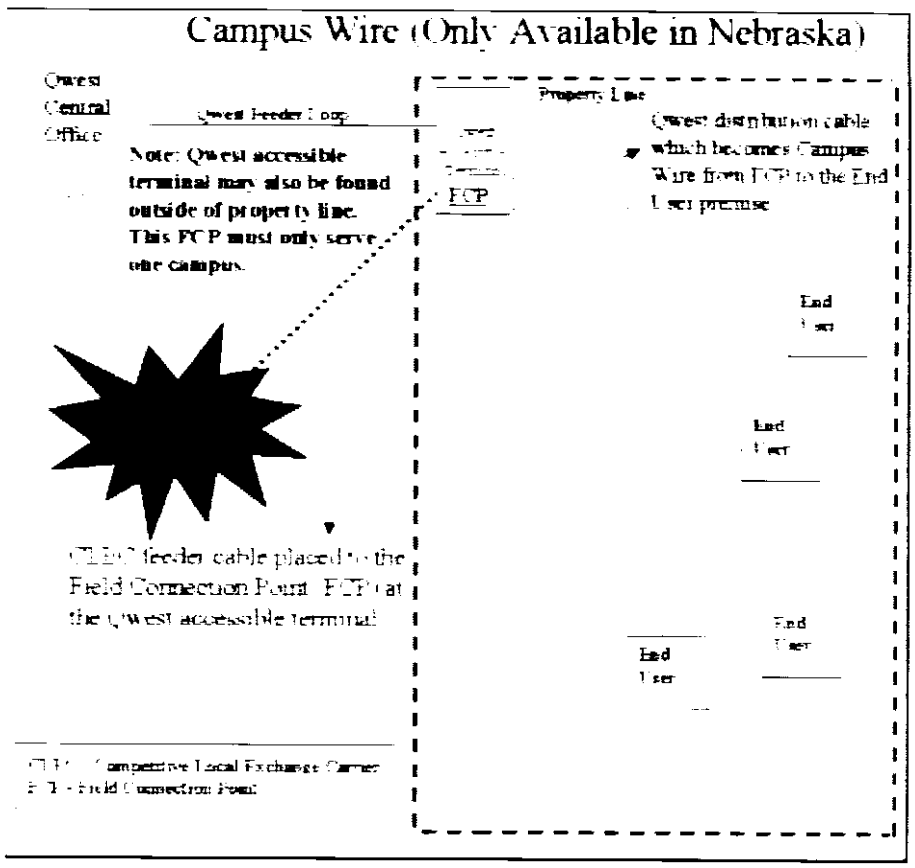
Campus Wire (Only available in Nebraska) is a Qwest provided 2-Wire or 4-Wire, Loaded or Non-Loaded facility that extends from a detached terminal serving a single piece of property that contains multiple buildings, i.e., a campus environment.

The Campus Environment is an environment in which end-users (voice, video and data) are spread out over a broad geographic area, as in a university, hospital, medical center, prison and apartment or business complex. There may be several communications providers. The area may be served by a FDI or by a direct office feed.

Campus Wire extends from the detached terminal to the end-users NID on that property. You obtain access to the Campus Wire at the detached terminal by establishing a FCP arrangement.

Product Diagram





Availability

Sub-Loop is available where facilities exist throughout Qwest's 14-state local service territory. Campus Wire is only available in Nebraska. The Sub-Loop Reservation Process is only available in Colorado.

Terms and Conditions

Before submitting UFL Sub-Loop requests, you must have an established CO collocation that serves the accessible terminal where your FCP or Remote Collocation will be established.

You must have an established FCP or Remote Collocation at the accessible terminal (FDI) prior to submitting UDL Sub-Loop requests.

You must have an established FCP at the detached terminal that serves the campus you intend to serve prior to ordering Campus Wire. Additionally, the FCP and the detached terminal must serve only a single campus and not buildings on other pieces of property.

When you access a MTE Terminal for IBC, you should adhere to generally accepted best engineering

practices in accordance with industry standards. You are required to clearly label the cross-connect wires you use. Your wiring should be neatly dressed. Refer to Qwest's Standard MTE Terminal Access Protocol for detailed information.

You may access the MTE Terminal at the MTE -POI as a test access point for IBC Sub-Loop.

You must provide the necessary space and meet all premises requirements described in Interconnection - Unbundled Sub-Loops and Field Interconnection Technical Publication 77405.

Technical Publications
Technical requirements, including Network Channel/Network Channel Interface (NC/NCI™) codes are specified in Interconnection - Unbundled Sub-Loops and Field Interconnection Technical Publication 77405.

Back to Top

Pricing

Rate Structure
Recurring charges bill on a month-to-month basis; term contracts are not available. These charges are applicable to both converted and new circuits.

Non-recurring UFL, UDL, IBC, and Campus Wire installation charges are assessed. For IBC and Campus Wire, installation charges apply for the first and each additional installation at the MTE or campus. Refer to FCP for more information about non-recurring charges for the Reservation Process, which is available only in Colorado.

Interconnection Tie Pair (ITP) monthly charges are applicable to UFL. Pricing information is available in the Statement of Generally Available Terms and Conditions (SGAT), Exhibit A for the relevant state.

One-month minimum billing, contract termination liability and associated contract charges for the product from which the loop is being converted will apply and will be assessed to the end-user as described in the Local Exchange Tariff for the applicable state.

Geographic Deaveraging zones are determined by each state commission and vary by state. Deaveraging zones may be applied based on distance from the CO or by wire center. Geographic Deaveraging could apply throughout Qwest's 14-state local service territory. To determine the impact of your Sub-Loop request for a specific state, refer to the SGAT, Exhibit A for the relevant state.

Information regarding Geographic Deaveraging is available in Geographic Deaveraging - General Information. For more information on Geographic Deaveraging, refer to Regulatory Commissions and Telecommunications Associations.

Rates
Rates are available in Exhibit A or the specific rate sheet in your Interconnection Agreement.

Tariffs, Regulations, and Policies
Information is available in the state specific Tariffs/Catalogs/Price Lists.

Access to the UFL, UDL and Campus Wire Sub-Loop is at the FDI or any other technically feasible point through the establishment of a FCP or Remote Collocation. Access to the IBC is at the MTE-POI. If access is requested at a point other than the FDI, MTE-POI or any other technically feasible point, the request should be submitted using the Bona Fide Request (BFR) Process.

When you submit your service request and facilities are not available, your request may be held for 30 business days. For exceptions and detailed information, refer to the Provisioning and Installation Overview.

Any technically feasible non-standard sub-loops will be handled through the Special Request (SR) Process.

Directory Listings are not part of the Sub-Loop product offering.

Optional Features
There are no optional features available with Sub-Loop.

Back to Top

Features/Benefits

Features	Benefits
Flexibility to order portions of the loop.	The Sub-Loop product allows you to access Qwest owned portions of unbundled loops at the CO and/or at accessible terminals in the outside plant of the unbundled loop. This product can be used for multiple applications.

Back to Top

Applications

Sub-Loops can be used in conjunction with your facilities to provide services to end-users. These combinations free you from having to install the entire loop facilities required to reach the end-user's location.

Back to Top

Implementation

Product Prerequisites

If you are a new Competitive Local Exchange Carrier (CLEC) and are ready to enter the interconnection business with Qwest, please view the Getting Started for Facility-Based CLECs web page. If you are an existing CLEC wishing to amend your Interconnection Agreement or your New Product Questionnaire, you can find additional information in the Negotiations Template Agreement web page.

Campus Wire, which is only available in Nebraska, requires a signed amended Interconnection Agreement with provisions and rates for Campus Wire.

To reserve Sub-Loop elements in Colorado, you will need to have provisions for the Reservation Process amended your Interconnection Agreement.

A MTE-POI is required for accessing the IBC from a MTE Terminal. You must create the cross-connect field

at the building terminal that will allow connection of your facilities to IBC at the MTE-POI. The MTE-POI is the demarcation point between your facilities and Qwest's facilities.

A FCP or Remote Collocation is required for accessing UFL, UDL or Campus Wire.

Back to Top

Pre Ordering

Qwest strongly recommends use of Pre-Ordering functionality to assist in achieving increased service order flow through and accuracy that will result in reduced Local Service Request (LSR) rejects.

The Interconnect Mediated Access (IMA) User's Guide specifically details the information applicable to Pre-Ordering functions. Additional Pre-Ordering information is described in the Pre-Ordering Overview and in Unbundled Local Loop - General Information.

The Raw Loop Data (RLD) tools provide the physical characteristics of the facility at either the wire center level or at the individual loop level. Data available includes the physical characteristics by segment:

- Common Language® Location Identifier (CLLI™) Code
- Load Coils
- Bridged Tap
- Wire Gauge
- Cable and Pair make-up
- Spare Facility

There are two RLD tools, an IMA tool and a web-based Wire Center tool.

- The Wire Center RLD tool provides the physical characteristics of the facilities for an entire Wire Center. The wire center raw loop data is presented as a comma delimited file and needs to be downloaded into a database or spreadsheet to analyze the individual facilities. Contact your Qwest Service Manager to request an ID, which will be required to obtain the digital certificate e

required to access this tool. You will need to provide the names and telephone numbers of your employees that will be accessing the tool. After your Qwest Service Manager has notified you that the necessary access permissions have been established, and provided you with your ID you may then initiate the digital certification process.

- The IMA RLD tool provides loop specific information. This tool also enables you to obtain the physical characteristics of facilities. Information regarding the IMA RLD tool is described in the IMA User's Guide.

The loop qualification tools should be used prior to submitting a LSR. Use of these tools can greatly reduce LSR rejects by ensuring the types of facilities requested are available prior to placing an order. Based on the physical characteristics, you can determine if the facility needs to be conditioned, i.e., the removal of load coils or bridged tap, which will assist you in identifying the appropriate ordering intervals, described in the Service Interval Guide (SIG).

The IMA Loop Qualification and Raw Loop Data-CLEC Job Aid is a web based training course designed to provide valuable information and instructions on how to use the IMA based loop qualification tools and interpret the information provided.

Back to Top

Ordering

The IMA User's Guide specifically details the information applicable to ordering functions. Additional ordering information is located in the Ordering Overview.

Valid NC/NCI codes are required on all Sub-Loop requests. Information regarding NC/NCI codes is located in Interconnection - Unbundled Sub-Loops and Field Interconnection Technical Publication 77405.

Campus Wire does not carry its own NC/NCI codes. You will need to use the NC/NCI codes applicable to the UDL. Enter in the Remarks field of the LSR form that you are ordering Campus Wire and also enter the NC/NCI codes for the UDL in the appropriate fields. For

example, when you order Campus Wire on a 2-Wire Non-Loaded UDL, enter the following information:

- In the Remarks field on the LSR form: "Campus Wire - On a 2-Wire Non-Loaded UDL."
- In the NC field on the LSR form: Enter the NC code for 2-Wire Non-Loaded UDL.
- In the NCI field on the LSR form: Enter the NCI code for 2-Wire Non-Loaded UDL.
- In the SECNCI field on the LSR form: Enter the Secondary NCI code for 2-Wire Non-Loaded UDL.

Service interval guidelines are described in the SIG.

A Design Layout Report (DLR) can be requested for the UFL to determine if the loop will meet the technical parameters of the service being provided. The DLR provides information on items such as loop gauge make-up, bridged tap and the loop's total length. Your engineers will need to determine if the available loop falls within the technical requirements of the service you intend to transport over the loop. Information about requesting DLRs is described in the Provisioning and Installation Overview.

A DLR is not applicable for the UDL, IBC or Campus Wire, as they are non-design services.

Circuit Identification numbers are assigned by Qwest upon receipt for Sub-Loop requests. The Circuit Identification number is provided to you on the Firm Order Confirmation (FOC). Information describing Circuit Identification number format is available in Unbundled Local Loop General Information.

A Qwest technician dispatch is required on UFL, UDL and Campus Wire Sub-Loop new service requests. For IBC, you may dispatch a technician to run a jumper between your Sub-Loop elements and Qwest's Sub-Loop elements, or you may request that a Qwest technician run a jumper to make a connection at the MTE-POI.

For access to IBC prior to the completion of the MTE-POI inventory process, you are required to submit a LSR, but need not include the meet point information or await completion of LSR processing by Qwest before securing access. Qwest will:

- Secure the meet point information (You will obtain meet point information from the Alternate Point of Termination (APOT) provided you upon completion of the MTE -POI process. Information on the APOT is also known as Connecting Facility Assignment, meet point, circuit identifying, etc.)
- Assign the meet point information starting with the highest termination and moving toward the lowest termination. For example, if you order a 100 pair termination at the MTE-POI and submit a LSR for IBC without the meet point information, Qwest will assign the termination pairs starting with 100, then 99, 98, 97, etc.

After you receive APOT for the MTE-POI, then all subsequent LSRs for IBC at the same MTE must contain the meet point information at the time the LSR is submitted. Qwest shall be entitled to charge for IBC as of the time that you submitted the LSR.

Orders should be placed using IMA, or faxed to (888) 796-9089.

Local Number Portability (LNP) can be ordered with IBC, UDL and Campus Wire, which is available only in Nebraska. LNP is not applicable on UFL.

Directory Listings are not part of the Sub-Loop product offering.

Sub-Loop orders are submitted using the Local Service Ordering Guidelines (LSOG) forms. The forms used are the LSR, End User (EU) and Loop Service (LS) forms. The Loop Service with Number Portability (LSNP) form is used in place of the LS form if the request involves LNP. Detailed information describing field entry requirements are available in the IMA User's Guide and on the LSOG web page.

You are required to submit a separate order for each *IBC, UDL and Campus Wire request. Campus Wire is* only available in Nebraska. The following applies for multiple UFL requests:

- You can submit multiple UFL requests on a single order if the Sub-Loops originate at the same collocation and terminate at the same FCP or

Remote Collocation. If you submit an order requesting multiple UFLs originating from the same collocation and terminating at the same FCP or Remote Collocation, the quantity on the Loop Quantity (LQTY) field on the LS form must be the number of UFLs being requested. The requested Activity (ACT) type must be the same for each UFL on the order.

- You are required to submit a separate order for each UFL request when the Sub-Loops originate at different collocations or terminate at different FCPs or Remote Collocations.

To connect to IBC at the MTE-POI:

- If you want to run the jumper, you need to state that information in the Remarks field of the LSR form.
- If you want Qwest to run the jumper, you need to provide meet point information from the APOT form on the LSR form in the Remarks field of the LSR form.
- The REMARKS field on the LSR form must state you are ordering IBC.

If you relate Purchase Order Numbers (PON) and associate orders to a Project Identification Code in the PROJECT field on the LSR form, or if the LQTY field on the LS form has 25 or more loops from the same CSR, the request will be handled as a project by the Center responsible for handling your account. The installation guidelines for the project are negotiated on an Individual Case Basis (ICB) based on the request. The main point of contact for the project will be your Qwest Service Manager.

Back to Top

Provisioning

Provisioning information and design requirements are available in Interconnection - Unbundled Sub-Loops and Field Interconnection Technical Publication 77405. General provisioning information is located in the Provisioning and Installation Overview.

Firm Order Confirmation (FOC) intervals are available in the SIG. Additional information about FOC is

available in the Provisioning and Installation Overview.

A DLR will be provided for UFL when requested on the LSR. Information describing DLR viewing options is available in the Provisioning and Installation Overview.

A jeopardy occurs on an LSR order request if a condition exists that threatens timely completion. Jeopardy codes are described in the Provisioning and Installation Overview.

Sub-Loop is provided where existing facilities are available. If no facilities can be found, and there is No Planned Engineering Job, the LSR will be rejected for a No Facilities reason and the order cancelled. Your Qwest Service Manager should be contacted if you are requesting CLEC Requested UNE Construction per the terms and conditions of your Interconnection Agreement. Information regarding reject codes is available in the Ordering Overview. Refer to the SGAT for the relevant state for options available to you when facilities are not available.

The Basic Installation option is available for Sub-Loops. For an existing end-user, the Basic Installation option is the 'lift and lay' procedure. In this scenario the Qwest technician 'lifts' the loop from its current termination and 'lays' it on a new termination connecting to the CLEC. Test results are not provided to the CLEC. Detailed information about this option is located in the SGAT for the relevant state or your Interconnection Agreement.

Loss and Completion Reports are based on loss and gain account activity. Information regarding Completion notification, including Loss and Completion Reports, is described in the Provisioning and Installation Overview.

For order status information for UFL, refer to the Design Service Order Status (DSOS). This tool requires a digital certificate. For additional information about DSOS, access the Qwest Design Service Order Status Job Aid.

Back to Top

Maintenance and Repair

Information is available in the Maintenance and Repair Overview.

Back to Top

Billing

The account will be established in Customer Records and Information System (CRIS) effective with the completion date of the conversion order and/or new service request. Charges will be billed on a CRIS Summary Bill on a month-to-month basis; term contracts are not available. Charges for circuits are itemized by Circuit Identification number on the CRIS Summary Bill, at the sub account level. Information regarding Circuit Identification number format is described in the Ordering section of Unbundled Local Loop - General Information. Information regarding the CRIS Summary Bill, Inquiry and Disputes is described in Billing Information - Customer Records and Information System.

Back to Top

Training

Qwest 101 "Doing Business With Qwest"

- This introductory instructor-led training course is designed to teach the CLEC and Reseller how to do business with Qwest. It will provide a general overview of products and services, Qwest billing and support systems, processes for submitting service requests, reports, and web resource access information. Click here for Course detail and registration information.

MTE-POI and IBC

- This is a self-directed, web-based training course that provides participants with an overview of the Multi-Tenant Environment Point of Interconnection and Intra Building Cable (MTE-POI and IBC) product and its features. Click here to learn more about this course and to register.

Unbundled Network Element - Switching (UBS)

- This is a self-directed, web-based training course that provides you with an overview of the Unbundled Network Element- Switching (UBS) product and its features. Click here to learn more about this course and register.

Unbundled Loop Elements (ULE)

- This is a self-directed, web-based training course that provides you with an overview of the Unbundled Loop Elements (ULE) product and features. Upon completion of this training course you should be able to explain ULE function and features. Click here to learn more about this course and register.

Unbundled Dedicated Interoffice Transport (UDIT)

- This is a self-directed, web-based training course that provides you with an overview of the Unbundled Dedicated Interoffice Transport (UDIT) product and its features. Click here to learn more about this course and for registration information.

IMA "Hands On"

- This introductory instructor-led course teaches you how to use Qwest's IMA Graphical User Interface (GUI) to order wholesale products. You will experience interactive software demonstration and participate in hands-on practice sessions to familiarize yourself with the IMA GUI system. Click here to learn more about this course and to register.

View additional Qwest courses by clicking on Course Catalog.

Back to Top

Contacts

Qwest contact information is available in Wholesale Customer Contacts.

Back to Top

Frequently Asked Questions (FAQs)

1. How do I know what kind of Sub-Loop I should order?

If you provide your own distribution facilities to a Qwest accessible terminal, you may order UFL to connect your distribution facilities to your CO collocation. This means that you are providing the distribution facilities between the end user to the interconnection point at the FCP or Remote Collocation.

You may choose to order only UDL if you want to provide your own feeder to the Qwest accessible terminal. This means that you are providing the feeder facilities between your CO or equipment location to the interconnection point at the FDI.

2. Can I provide high-speed services using Sub-Loops?

Yes, you can purchase UDL, IBC and Campus Wire, which is only available in Nebraska, to the end-user for the purpose of providing high speed data service.

3. How do I advise Qwest whether I want to run a jumper or I want Qwest to run a jumper when ordering IBC Sub-Loop?

If you want to run the jumper, you need to state that information on the LSR form. If you want Qwest to run the jumper, you need to provide meet point information on the LSR form. In addition, when Qwest is required to run the jumper, the intervals identified in the SIG shall apply.

Back to Top

Last Update: July 12, 2002

SEARCH GO ABOUT QWEST CAREERS AT QWEST