

Preorder Loop Qualification

Guidelines



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Preorder Loop Qualification

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Revisions

The following table provides a summary of versions, dates and descriptions of revisions made to this product guide.

Version Number	Date	Description of Revisions Made
1	5/15/00	- Original Release
2	1/13/03	- Revised guide format - DS1 Preorder Loop Qualification requirement added
3	5/5/03	- Remove DS1 Preorder Loop Qualification requirement.

Preorder Loop Qualification

Product Overview

Sprint Preorder Loop Qualification (Prequalification) service provides a Competitive Local Exchange Carrier (CLEC) the opportunity to obtain specific loop makeup information and itemized conditioning costs prior to placing a firm order for advanced services. A CLEC can use Prequalification to determine the time and expense that will be necessary to condition a loop intended for advanced services.

Product Details

The Prequalification process identifies the physical attributes of the loop plant facility and includes such details as: loop length, electrical parameters for line sharing, and the presence of analog load coils, bridge taps, repeaters, and Digital Loop Carriers (DLC) that may be present. The loop makeup information provided by Sprint is the Prequalification response.

It is highly recommended that the CLEC request Prequalification for all loops intended for advanced services even though it is not required by Sprint. These include loops capable of Digital Subscriber Line (xDSL) or Integrated Services Digital Network Basic Rate Interface (ISDN BRI) services, DS1 and digital loops for 56/64 kilobits per second (kbps) service

Should a CLEC choose not to submit a Prequalification order prior to placing a firm order for xDSL, DS1 or other advanced service and Sprint cannot successfully provision the service ordered, the CLEC will be notified that a Prequalification will be necessary to identify the conditioning needed to provision the advanced service. A nonrecurring charge for Prequalification will apply and the CLEC will be charged for appropriate conditioning.

Preorder Loop Qualification does not reserve loop plant or guarantee that facilities will be available when a firm order is placed.

Digital Loops

Sprint Unbundled Digital Loops are copper twisted pairs without electronic terminal equipment at the end points that are capable of transporting signals such as ISDN BRI and ADSL. While Loop Prequalification is not required for 2-wire or 4-wire digital loops, obtaining loop makeup information prior to placing a firm order can reduce or eliminate delays that may occur if conditioning is needed. This is especially true for loops intended for Digital Subscriber Line (DSL) transmission or line sharing services.

Sprint Unbundled DS1 Digital Data Loops are 4-wire digital loops that include attached electronics and are capable of transmitting 1.544 Megabits per second, the level needed to provide services such as Integrated Services Digital Network Primary Rate Interface (ISDN PRI) and DS1.

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Digital Loops (Continued)

DS1 Digital Data Loops using HDSL technology are designed to meet the industry standard of pulse attenuation of less than 28 decibels and insertion loss of less than 35 decibels at 196 kilohertz with a driving and terminating impedance of 135 ohms. Conditioning to meet this standard will be identified as “required” in the Prequalification response provided to the CLEC. Additional bridge taps and repeaters for a DS1 provisioned through HDSL technology will be identified in the Prequalification response and noted as “optional”.

If a DS1 Digital Data Loop is not provisioned using High bit-rate Digital Subscriber Line (HDSL) technology, it must be conditioned to remove all field repeaters and bridge taps in order to transmit a DS1 signal. This conditioning will be identified as “required” in the Prequalification response

Preorder Loop Qualification Ordering Process

Preorder Loop Qualification will be ordered through the Sprint National Exchange Access Center (NEAC) by submitting a Local Service Request (LSR). The LSR may be issued through Integrated Response Entry System (IRES) or submitting a paper LSR by dedicated fax to the NEAC. For loop makeup information that does not involve line sharing, the CLEC may send one Prequalification LSR per service address. If loop makeup information is requested for line sharing, Prequalification will be performed and charges assessed for each working phone number submitted on the LSR. By placing a Preorder Loop Qualification order, the CLEC agrees to pay Sprint all associated Preorder Loop Qualification order charges.

IRES Special Entry Fields

The fields as shown in Table 1 are required on the Service tab in IRES to process a Preorder Loop Qualification order for digital (DS0) loops.

Table 1 – Service Tab Entries for DS0

IRES FIELD	DESCRIPTION	INFORMATION
REQ TYPE	Request Type	Select A=Loop
ACT	Action	Select P= Loop Prequalification
TOS	Type of Service	Select Business or Residential
TOS	Second Field	Select B=Single Line
NC	Network Channel Code	Enter LX--
NCI	Network Channel Interface	Select 02QC2.OOF

The fields as shown in Table 2 are required on the Loop tab in IRES to process a Preorder Loop Qualification order for digital (DS0) loops. All other tabs within IRES will be completed as usual.

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IRES Special Entry Fields (Continued)

Table 2 – Loop Tab Entries for DS0

IRES FIELD	DESCRIPTION	INFORMATION
LOOP QTY	Loop Quantity	Enter 1
LNA	Line Number Activity	Select P= Loop Prequalification
TEL NO	Telephone Number	(No entry required in this field)
CFA	Circuit Facility Assignment	Type in PREQUAL

The fields as shown in Table 3 are required on the Loop tab in IRES to process a Preorder Loop Qualification order for loops that will be used for line sharing. All other tabs within IRES will be completed as usual.

Table 3 – Loop Tab Entries for Line Sharing

IRES FIELD	DESCRIPTION	INFORMATION
LOOP QTY	Loop Quantity	Enter 1
LNA	Line Number Activity	Select P= Loop Prequalification
TEL NO	Telephone Number	(No entry required in this field)
CLEC TEL NO	End-user phone number	Enter the working phone number at end-user service address.
CKR	Circuit number	Enter the working phone number at end-user service address.
CFA	Circuit Facility Assignment	Type in PREQUAL

The fields as shown in Table 4 are required on the “Service” tab in IRES to process a Preorder Loop Qualification order for DS1 loops.

Table 4 - Service Tab Entries for DS1

IRES FIELD	DESCRIPTION	INFORMATION
REQ TYPE	Request Type	Select A=Loop
ACT	Action	Select P= Loop Prequalification
TOS	Type of Service	Business or Residential
TOS	Second Field	Select D=Advanced Services
NC	Network Channel Code	Enter LY--
NCI	Network Channel Interface	Select 4QB9.11

The fields as shown in Table 5 are required on the “Loop” tab in IRES to process a Preorder Loop Qualification order for DS1 loops. All other tabs within IRES will be completed as usual.

Table 5 - Loop Tab Entries for DS1

IRES FIELD	DESCRIPTION	INFORMATION
LOOP QTY	Loop Quantity	Enter 1
LNA	Line Number Activity	Select P= Loop Prequalification
CFA	Circuit Facility Assignment	Type PREQUAL

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IRES Special Entry Fields (Continued)

Once the Preorder Loop Qualification order is completed and the status indicates "PC" for Prequalification Complete, the CLEC may view the Prequalification response on the Tracking Tab in IRES. CLECs that do not submit orders through IRES will receive the Prequalification response on the completed order via the dedicated fax number. The loop makeup, bridge tap, repeaters, load coils and disturber information will appear in the "Remark 6" section of the order.

Loop Makeup Information

The Prequalification response provided by Sprint will be provided in a format similar to Tables 6, 7 and 8 below. Conditioning rates are state specific and are subject to change. The rates indicated in these examples are for illustrative purposes only.

Line sharing loop makeup information will include electrical parameters if the information is available to Sprint. The format of the information will depend on the type of testing equipment utilized. The information will follow the Electrical Parameters heading as reflected in Table 6.

Table 6– Electrical Parameters Information for Line Sharing

ELECTRICAL PARAMETERS	TIP RING	TIP GRD	RING GRD
AC (VOLTS)	0.000	0.000	0.000
DC (VOLTS)	0.000	0.000	0.000
RESISTANCE (OHMS)	1.00m	1.00m	1.00m
CAPACITANCE(UF)	0.242	0.258	0.260

The CLEC should analyze the loop makeup data received, determine whether or not the loop will support the desired service and place a firm order within five business days of receiving Sprint's response. Delays longer than five business days may require the CLEC to submit another Preorder Loop Qualification request with additional service order charges.

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Loop Makeup Information (Continued)

Table 7 – Prequalification Response – DS0

TERMINAL 1104r324ew COUNT ca 10 1001-1050
LOOP MAKE UP INFORMATION: DS0
COPPER FACILITIES: YES
ELECTRONIC FACILITIES: YES
TYPE OF ELECTRONICS: umc 1000
LOOP LENGTH: OFFICE TO ELECTRONICS
19 GA COPPER 300 FEET 16.1 RESISTANCE PER Kf
22 GA COPPER 300 FEET 32.4 RESISTANCE PER Kf
24 GA COPPER 300 FEET 51.9 RESISTANCE PER Kf
26 GA COPPER 500 FEET 83.3 RESISTANCE PER Kf
Sub-TOTAL LOOP FOOTAGE IS 1.4 Kf
LOOP LENGTH: Electronics\Office to End User
19 GA COPPER 100 FEET 16.1 RESISTANCE PER Kf
22 GA COPPER 200 FEET 32.4 RESISTANCE PER Kf
24 GA COPPER 500 FEET 51.9 RESISTANCE PER Kf
26 GA COPPER 2500 FEET 83.3 RESISTANCE PER Kf
Sub-TOTAL LOOP FOOTAGE IS 3.3 Kf
TOTAL LOOP FOOTAGE IS 4.7 Kf
TOTAL RESISTANCE FOR LOOP IS 314.06 OHMS
BRIDGE TAPS:
1st AT 300 FEET - LENGTH 100 FEET COST \$397.24 OPT
ADDL PAIRS SAME LOCATION COST \$0.34 OPT
2nd AT 500 FEET - LENGTH 500 FEET COST \$397.24 OPT
ADDL PAIRS SAME LOCATION COST \$0.34 OPT
3rd AT 1000 FEET - LENGTH 200 FEET COST \$20.38 OPT
ADDL PAIRS SAME LOCATION COST \$0.30 OPT
4th AT 1200 FEET - LENGTH 400 FEET COST \$20.38 OPT
ADDL PAIRS SAME LOCATION COST \$0.30 OPT
5th AT 0 FEET - LENGTH 0 FEET COST \$0.00 OPT
ADDL PAIRS SAME LOCATION COST \$0.00 OPT
6th AT 0 FEET - LENGTH 0 FEET COST \$0.00 OPT
ADDL PAIRS SAME LOCATION COST \$0.00 OPT
ENGINEERING CHARGE \$26.49
TRIP CHARGE \$16.19
DISTURBERS: NONE INDICATED
LOAD COILS PRESENT ON CABLE PAIR: YES
COST TO REMOVE LOADS ON NON-STANDARD LOOP - \$1100.45
COST TO REMOVE LOADS FOR ADDL PAIRS - \$100.00
COST FOR REPEATER REMOVAL - \$0.00
COST TO REMOVE REPEATERS FOR ADDL PAIRS - \$0.00
COST FOR REQUIRED CONDITIONING IS - \$0.00
COST FOR OPTIONAL CONDITIONING IS - \$1978.37
TOTAL DB LOSS: 0 DB
TYPE LOOP: NOT APPLICABLE
ICB NEEDED FOR SPECIAL CONSTRUCTION: NONE

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Loop Makeup Information (Continued)

Table 8 – Prequalification Response – DS1

TERMINAL 1104r324ew COUNT ca 10 1001-1050
LOOP MAKE UP INFORMATION: DS1
COPPER FACILITIES: YES
ELECTRONIC FACILITIES: YES
TYPE OF ELECTRONICS: umc 1000
LOOP LENGTH: OFFICE TO ELECTRONICS
19 GA COPPER 300 FEET 16.1 RESISTANCE PER Kf
22 GA COPPER 300 FEET 32.4 RESISTANCE PER Kf
24 GA COPPER 300 FEET 51.9 RESISTANCE PER Kf
26 GA COPPER 500 FEET 83.3 RESISTANCE PER Kf
Sub-TOTAL LOOP FOOTAGE IS 1.4 Kf
LOOP LENGTH: Electronics\Office to End User
19 GA COPPER 100 FEET 16.1 RESISTANCE PER Kf
22 GA COPPER 200 FEET 32.4 RESISTANCE PER Kf
24 GA COPPER 500 FEET 51.9 RESISTANCE PER Kf
26 GA COPPER 2500 FEET 83.3 RESISTANCE PER Kf
Sub-TOTAL LOOP FOOTAGE IS 3.3 Kf
TOTAL LOOP FOOTAGE IS 4.7 Kf
TOTAL RESISTENCE FOR LOOP IS 314.06 OHMS
BRIDGE TAPS:
1st AT 300 FEET - LENGTH 750 FEET COST \$397.24 REQ
ADDL PAIRS SAME LOCATION COST \$0.34 REQ
2nd AT 500 FEET - LENGTH 750 FEET COST \$397.24 REQ
ADDL PAIRS SAME LOCATION COST \$0.34 REQ
3rd AT 1000 FEET - LENGTH 200 FEET COST \$20.38 OPT
ADDL PAIRS SAME LOCATION COST \$0.30 OPT
4th AT 1200 FEET - LENGTH 400 FEET COST \$20.38 OPT
ADDL PAIRS SAME LOCATION COST \$0.30 OPT
5th AT 0 FEET - LENGTH 0 FEET COST \$0.00 OPT
ADDL PAIRS SAME LOCATION COST \$0.00 OPT
6th AT 0 FEET - LENGTH 0 FEET COST \$0.00 OPT
ADDL PAIRS SAME LOCATION COST \$0.00 OPT
ENGINEERING CHARGE \$26.49
TRIP CHARGE \$16.19
DISTURBERS: NONE INDICATED
LOAD COILS PRESENT ON CABLE PAIR: YES
COST TO REMOVE LOADS ON NON-STANDARD LOOP - \$1100.45
COST TO REMOVE LOADS FOR ADDL PAIRS - \$100.00
COST FOR REPEATER REMOVAL - \$0.00
COST TO REMOVE REPEATERS FOR ADDL PAIRS - \$0.00
COST FOR REQUIRED CONDITIONING IS - \$1937.61
COST FOR OPTIONAL CONDITIONING IS - \$40.76
TOTAL DB LOSS: 32.5 DB
TYPE LOOP: HDSL TECHNOLOGY
ICB NEEDED FOR SPECIAL CONSTRUCTION: NONE

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Loop Conditioning in the Firm Order

After reviewing the Prequalification response provided by Sprint, the CLEC must submit a second LSR to order the loop itself. The LSR must reference the Prequalification LSR order number in the “Pre-Qual #” field. Placing a firm order for a DS1 confirms the CLEC’s acceptance of the charges for any conditioning noted as “required” on the Prequalification response.

The Prequalification response allows the CLEC to choose what conditioning should be performed on a given loop. One of the following options must be entered in the “Conditioning Opt” field of the LSR:

- **No Conditioning:** The Prequalification response indicates that no conditioning is required by Sprint; **or**
- **Partial Conditioning:** The CLEC accepts the loop with the required conditioning, if any, and less optional conditioning than was indicated in the Prequalification response and will indicate what conditioning should be performed; **or**
- **Complete Conditioning:** The CLEC accepts all of the required and/or optional conditioning indicated in the Prequalification response; **or**
- **Conditioning Refused:** The loop is accepted "as is" and the CLEC does not want any of the optional conditioning indicated in the Prequalification response. **Note:** This choice does not apply to UNE DS1 loop orders if the Prequalification response indicates any required conditioning.

If the CLEC did not submit a Prequalification order for xDSL, DS1 or other DS0-level service, and the advanced service or the loop subsequently fails, the CLEC will be charged a Trouble Isolation Charge to determine the cause of the failure. The CLEC will be notified that a Prequalification order will be necessary to identify the conditioning needed to provision the advanced service. A nonrecurring charge for Prequalification will apply and the CLEC will be charged for appropriate conditioning.

Invoicing Elements

A nonrecurring charge for Preorder Loop Qualification will be assessed per service address or per working phone number requested for line sharing. Rates are stated in the Master Interconnection and Resale Agreement price sheet. The charge, identified as UNE-Loop Prequalification, will appear in the *Other Charges & Credits* section of the invoice.

When the firm order is completed, the CLEC invoice will include but not limited to:

- Standard loop installation charges,
- Conditioning charges that apply to all digital loops regardless of length,
- Optional conditioning ordered, and
- Required conditioning charges for the UNE DS1 loop.

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Requirements

Prior to placing a Preorder Loop Qualification request, the CLEC must have a signed Master Interconnection and Resale Agreement and a Master Collocation Agreement with Sprint. If your agreement does not cover this service, complete the Negotiation Request Form located at www.sprint.com/localwholesale and email to clec.request@mail.sprint.com

The CLEC must provide a dedicated fax to receive the Preorder Loop Qualification information responses if the CLEC is not an IRES user. The fax number should be updated on the CLEC Implementation Checklist and Account Profile and submitted to your local account manager. A CLEC must allow five business days for Sprint systems to implement the dedicated fax number provided so that orders can be processed.

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Frequently Asked Questions

	Question	Answer
1.	What are the “OPT” notations beside the Prequalification response?	“OPT” indicates that the conditioning of the element is optional and that the CLEC makes the choice to remove the bridge tap, repeater or load coil from the loop depending of the intended service. If it chooses the conditioning, the CLEC is charged the rate indicated to the right of the element.
2.	What are the “REQ” notations beside the Prequalification response?	“REQ” indicates that conditioning of the element is required by Sprint to meet industry standards for basic transmission of DS1 service.
3.	How are the total conditioning costs calculated?	The amounts shown in the field “COST FOR OPTIONAL CONDITIONING IS” or “COST FOR REQUIRED CONDITIONING IS” reflect the total cost for complete conditioning of one loop at the service address. If a CLEC submits a firm order with partial conditioning, the charge assessed will be at the rates indicated to the right of each element chosen.
4.	What is meant by “ADDL PAIRS SAME LOCATION COST” in the Prequalification response?	If the CLEC chooses to place a firm order for a loop and requests additional loops at the same service address, each additional loop will be assessed the rate indicated in the field titled “ADDL PAIRS SAME LOCATION COST”. This amount will be added to the charge for the first loop.
5.	What does “Copper Facilities: Yes” indicate in the Prequalification response?	Yes indicates that the service address may be fed directly by copper or fed by copper that bypasses the electronic facility if one is present.
6.	What does “Electronic Facilities: Yes” indicate in the Prequalification response?	Yes indicates that an electronic facility such as a DLC or other pair gain device is present.
7.	What does the Loop Length section with all zeros indicate in the Prequalification response information?	All zeros indicate there is no electronic facility present.
8.	What group should be contacted for questions pertaining to Preorder Loop Qualification service orders?	The NEAC should be contacted at 800-578-8169.