

Subject: FW: Loop Qual Data Elements
Date: Wed, 2 Aug 2000 08:13:12 -0600
From: ALopez@rhythms.net
To: csolis@rhythms.net, cbrown@rhythms.net, anitatr@earthlink.net,
BWood@rhythms.net
CC: mkersh@rhythms.net

FYI
Cindy/Brian,
This will effect POR.
Ann

-----Original Message-----

From: HORNER, DOUG (PB) [mailto:DH1757@msg.pacbell.com]
Sent: Tuesday, August 01, 2000 5:51 PM
To: Ann Lopez; Bill Seagraves; Bill Seagraves (E-mail); Brian Kelly;
BRYAN LOEWEN (SWBT) (E-mail); Bryant Smith; BYLER, JOHN X. (AIT); C
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COELHO, PETER (PB); DALTON, LAURIE L (SWBT); DENNIS W W SCHUESSLER
(SWBT) (E-mail); Don Kern (E-mail); Edward Vanchot (E-mail); GARY D D
DARLING (ASI) (E-mail); Greg Johnston; HAJDA, MARK A (SWBT); HARDY, EVA
(PB); Heidi Williams (E-mail); HORNER, DOUG (PB); HOWARD B (PAT)
PATTERSON (E-mail); Jessica Lewandowski; Jim Milnor (E-mail); Jo Gentry
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(E-mail); Kimberly Freeman (E-mail); KING, KATHY (PB); Marianne
McAllister; Mike Gunnels; Peter Coelho (E-mail); REBECCA A A DE LA CRUZ
(ASI) (E-mail); Rich Frantz (E-mail); Sarah Nichols; SCOTT WALKER (ASI)
(E-mail); Shannon Reeves; Steve Menard; Tammy Aiello (E-mail); Tom
Altherr; TONY LLOYD (PB) (E-mail); WATSON, DANNY (PB); Wendy Applegate
(E-mail)
Subject: Loop Qual Data Elements

TO: LQ CLEC Technical Sub-Team

Attached, for your review, is additional material from John Mileham for
our
Friday, 8/4, conference call:

<<LQ Data Elements by Qual Type.doc>>

We'll be discussing this document during the conference call.

Thanks,

Doug Horner
SBC Network Services

**** PRELIMINARY ** Loop Qual Data Elements by Qualification Type by Region**

Data Element		Loop Qual (design)				LFACS (actual)				MLR (Engineer)			
		Region	PB/NB	SWBT	SNET	*AIT	PB/NB	SWBT	SNET	*AIT	PB/NB	SWBT	SNET
1	Total Loop length		X	X	X		X	X	X	X	X	X	X
2	Loop length by segment (F1, F2)		X	X	X		X	X	X		X	X	X
3	Loop length by gauge		X	X	X		X	X	X		X	X	X
4	26 gauge equivalent loop length		X	X	X		X	X	X		X	X	X
5	Quantity of load coils		Note 1	Note 1	Note 1		X	X	X		X	X	X
6	Length of bridged taps						X	X	X		X	X	X
7	Loop Medium Type		X	X	X		X	X	X		X	X	X
8	Overall Qualification Status		X	X	X		X	X	X		X	X	X
9	Source of data		'B'	'B'	'B'		'A'	'A'	'A'		'C'	'C'	'C'
10	Location of load coils						(Yes/No)	(Yes/No)	(Yes/No)		X	X	X
11	Presence of repeaters								X		X	X	X
12	Location of repeaters								X		X	X	X
13	Type of repeaters								X		X	X	X
14	Quantity of repeaters								X		X	X	X
15	Type of plant (aerial or buried)						X	X	X		X	X	X
16	Location of bridged tap						Note 2	Note 2	Note 2		X	X	X
17	Quantity of bridged tap by occurrence						Note 2	Note 2	Note 2		X	X	X
18	Location of bridged tap by occurrence						Note 2	Note 2	Note 2		X	X	X
19	Location of range extenders						X	X	X		X	X	X
20	Location of pair gain devices										X	X	X
21	Type of Digital Loop Carrier (DLC)						X	X	X		X	X	X
22	Location of DLC										X	X	X
23	Presence of disturbers in same or adjacent binder groups		X	X	X		Note 4	Note 4	Note 4		X	X	X
24	Presence of Remote Switching Unit (RSU)						X	X	X		X	X	X
25	Location of Remote Switching Unit (RSU)										X	X	X
26	Type of Remote Switching Unit (RSU)						X	X	X		X	X	X
27	Resistance zone						X	X	X		X	X	X
28	Presence of ADSL Capable Remote Terminal (RT)		X	X	X		X	X	X		X	X	X
29	Presence of Non-ADSL Capable Remote Terminal (RT)		X	X	X		X	X	X		X	X	X
30	Availability of ADSL capable RT		X	X	X		X	X	X		X	X	X

**** PRELIMINARY ** Loop Qual Data Elements by Qualification Type by Region**

Region	Data Element	Loop Qual (design)				LFACS (actual)				MLR (Engineer)			
		PB/NB	SWBT	SNET	*AIT	PB/NB	SWBT	SNET	*AIT	PB/NB	SWBT	SNET	*AIT
31	Target deployment date of ADSL capable RT	X	X	X		X	X	X		X	X	X	
32	Location of ADSL capable RT by address					X	X	X		X	X	X	
33	Location of ADSL capable RT by CLLI	X	X	X		X	X	X		X	X	X	
34	Location of non-ADSL capable RT by address					X	X	X		X	X	X	
35	Location of non-ADSL capable RT by CLLI	X	X	X		X	X	X		X	X	X	
36	Wire Center Code (NPANXX)	X	X	X		Note 3	Note 3	Note 3		X	X	X	
37	Taper Code	X	X	X		X	X	X		Note 5	Note 5	Note 5	
38	Build Date	X	X	X						X	X	X	
39	Date Record was Last Accessed									X	X	X	
40	Reference Number	Note 3	Note 3	Note 3		Note 3	Note 3	Note 3		Note 3	Note 3	Note 3	
41	Loop Length (Copper)	X	X	X						X	X	X	
42	Loop Length (Fiber)	X	X	X						X	X	X	

Data Element Definitions:

- Total Loop Length; LOOP_LNGTH_NBR; LFACS (PB/NB, SWBT, SNET) ARES (AIT)**, the sum of all copper wire segments in a loop as measured starting from the CO Frame and ending at the Serving Terminal. Expressed in thousands of feet.
- Loop Length by Segment; FN_LNGTH_NBR; LFACS (PB/NB, SWBT, SNET) ARES (AIT)**, the length of copper wire within each loop segment (F1, F2 .. Fn)
- Loop Length by Gauge; LOOP_LNGTH_GAUG_X_NBR; LFACS (PB/NB, SWBT, SNET) ARES (AIT)**, the total length of all copper wire in a loop summed by wire gauge (19, 22, 24, 26). Non-standard wire gauges are treated as the next smaller (larger number) standard gauge. Aluminum wire gauges are treated as 2 sizes smaller standard copper wire gauges.
- 26 gauge equivalent loop length; EQ26_LOOP_LNGTH_NBR; CALCULATED**, the sum of all copper wire lengths after conversion to 26 gauge equivalent using the following multipliers: 19 gauge = 0.41, 22 gauge = 0.64, 24 gauge = 0.80, 26 gauge = 1
- Quantity of load coils**, shows count of load coils present on loop.
- Length of bridged taps, BRDG_TAP_LOC_LNGTH_NBR; LFACS (PB/NB, SWBT, SNET) ARES (AIT)**, length (in kilofeet) of total bridged tap associated with the loop.
- Loop Medium Type; LOOP_MEDM_TYPE_CD; LFACS (PB/NB, SWBT, SNET) ARES (AIT)**, 'A'=copper, 'B'=pair gain, 'C'=copper/DLC, 'D'=FTTC, 'E'=DAML
- Overall Qualification Status**, Color text field. Calculated from 26 gauge equivalent loop length: <=12,000 feet = 'GREEN', >12,000 <=17,500 feet = 'YELLOW', >17,500 feet = 'RED'. If PRESENCE OF PAIR GAIN field >0 then Color = 'RED' regardless of loop length.
- Source of data; LOOP_TYPE_CD**; indicates the event type which generated the particular Loop Qual data return; Design = 'B', Actual LFACS = 'A', Manual (MLR) = 'C'
- Location of load coils; LOAD_COIL_LOC_LNGTH**; length (in kilofeet) of each occurrence of load coil from the central office.

**** PRELIMINARY ** Loop Qual Data Elements by Qualification Type by Region**

11. **Presence of repeaters**, REPEATER_QTY; ARES (AIT) No mechanized source (PB/NB, SWBT, SNET), This field of information will be returned in SWBT, PAC and SNET as part of the manual response from an Engineer.
12. **Location of repeaters**; REPEATER_LOC_LNGTH; ARES (AIT) No mechanized source (PB/NB, SWBT, SNET),
13. **Type of repeaters**; REPEATER_AGGR; ARES (AIT) No mechanized source (PB/NB, SWBT, SNET),
14. **Quantity of repeaters**; REPEATER_QTY; ARES (AIT) No mechanized source (PB/NB, SWBT, SNET),
15. **Type of plant (aerial or buried)**, 'A' = aerial, 'B' = buried, 'U' = underground
16. **Location of bridged tap**; BRDG_TAP_LOC_LNGTH; length (in kilofeet) of each occurrence of bridge tap from the central office.
17. **Quantity of bridged tap by occurrence**,
18. **Location of bridged tap by occurrence**,
19. **Location of range extenders**; RANGE_EXT_LOC; LFACS (PB/NB, SWBT, SNET), when range extenders are present they are located in the CO. Value set to 'A' if range extender present.
20. **Location of pair gain devices**,
21. **Type of Digital Loop Carrier (DLC)**,
22. **Location of DLC**,
23. **Presence of disturbers in same or adjacent binder groups**,
24. **Presence of Remote Switching Unit (RSU)**; RMT_SW_UNIT_IND, indicates that the loop originates at a Remote Switching Unit (RSU). Values are 'Y' or blank.
25. **Location of Remote Switching Unit (RSU)**,
26. **Type of Remote Switching Unit (RSU)**; RMT_SW_UNIT_TYPE_CD, indicated type of Remote Switching Unit (RSU), Example = 'RSS'.
27. **Resistance zone**; RSST_ZONE_NBR, resistance zone of loop specified in Ohms (hundreds), Example '13' = 13,000 ohms.
28. **Presence of ADSL Capable Remote Terminal (RT)**,
29. **Presence of Non-ADSL Capable Remote Terminal (RT)**,
30. **Availability of ADSL capable RT**, Values provided by PRONTO via access to LoopQual host.
31. **Target deployment date of ADSL capable RT**, Values provided by PRONTO via access to LoopQual host.
32. **Location of ADSL capable RT by address**,
33. **Location of ADSL capable RT by CLLI**, Values provided by PRONTO via access to LoopQual host.
34. **Location of non-ADSL capable RT by address**,
35. **Location of non-ADSL capable RT by CLLI**,
36. **Wire Center Code (NPANXX)**,
37. **Taper Code**,
38. **Build Date, Design**; date design record was created, Manual; date engineer completed the MLR.
39. **Date Record was Last Accessed**, date this record was last accessed. Only applies to Manual Loop Request.
40. **Reference Number**, 16 character field (optional) provided by requestor and echoed back with Loop Qual return.
41. **Loop Length (Copper)**, length of loop from RT to serving terminal. Only populated when a Remote Terminal (RT) present on loop.
42. **Loop Length (Fiber)**, length of loop from CO to RT. Only populated when a Remote Terminal (RT) present on loop.

NOTES:

General: 'X' denotes the value will be returned, when available, as specified in the data Element Definition. Shaded boxes indicate the data is nevert available or applicable to that Loop Qual request type and/or region.

***AIT:** AIT region not currently scheduled for implementation of the Loop Qual application. Information shown reflects current pre-Loop Qual application state only.

**** PRELIMINARY ** Loop Qual Data Elements by Qualification Type by Region**

- Note 1:** Load Coils assumed in Design data if Total Loop Length > 18,000 feet.
Note 2: Total length of Bridge Tap stored in LFACS. Location is shown as end of segment.
Note 3: Values provided by the user on the input messages are included in the response message.
Note 4: Values provided based on default cable & pair via access to LoopQual host.
Note 5: Generally will contain the TAPER code except when the address information provided is insufficient to determine loop makeup in which case an error code is returned in this field. See table below

Code	Rejection Message	Description
X01	Suite, floor, or apartment number is missing	The CLEC's request does not have the appropriate suite, floor or apartment number.
X02	Numeric address provide is out of range high	The numeric address the CLEC provided is out of range high in relationship to the engineering records.
X03	Numeric address provide is out of range low	The numeric address the CLEC provided is out of range low in relationship to the engineering records.
X04	Street name is not valid	The engineer is unable to find the street name that the CLEC requested
X05	The assignable house number (AHN) is invalid/missing	The AHN is either missing, invalid, or cannot be found by the engineer on the CLEC request.
X06	Address Other	Anything that is not covered above would fall in this category. This will require the CLEC to contact the LSC and work with the engineer as to the reason.

Design data is stored in Loop Qual and refreshed monthly. It is sourced from: LFACS Disturbbers, LFACS Term Default Ca/Pr, LEAD Taper_DA, LEAD LU_Address, PLAN DA Ga Break. Design data is loaded by Wire Center and rolled up by DA (Distribution Area).

Actual data is provided from outside plant records.

Manual Loop Request data is created upon request by an engineer from sources including LFACS, and paper records and is stored in the UTDB for 90 days.