Troubleshooting Fiber to the Home

gearch		
Account: 384020386 - TIM WEEKS		
Bill Cycle: 01 Main Number: 8017663882	Credit Class: B AVE	
🖻 🄄 🕑 🥶 💲 🎯 🖬 🗳 🐏 🔬 🌋		
Tier Status Active	CM Plant Search - Current Addresses	
B: □ TIM WEEKS 05/26, D: □ TIM WEEKS 05/26,	₩ ≪ = = = = = = = = = = = = = = = = = =	
EF 11M WEEKS 05/26		Report Area: Plant Area: W
		Service Area: Serving Area:
	Phone: 8017663882 Account:	Network Type: 👲 Internet
A	Last Name:	All
	Full Name:	
		O Available O address O Atstands
	Combined Address View	Reserved Bad
•	-	UnBundled Indude New Pending Installs
Alerts Tier CPNT		-Network Status
		Active Disconnected Deth
CPNI No	Number Securities Trans Transforder Description Plant Area Serving Area Status NPA NXX	End Date Change By Change Date
Phone N.	So 17663882 FIBER CARD 1-4 Assigned	MACC.Administrator 10/26/2018 10:19:39 AM
< Level 1 A Ouestion	1 DSLAM Summit Creek Assigned	MACC. Administrator 10/26/2018 10:19:39 AM
Question Answer:		
Level 2 C		
Password Forgot Pi		
Answer:		
Additiona	TIM WEEKS	
	812 S NEBO CIRCLE WOODLAND HILLS, UT 84653	
Messages Tier	Census Tract: 490490104.11	
Messages Tier		
<		

Look up customer in MACC or get card and port info from CSR

Like DSL it will tell you where the customer is located. The number refers to GPON-ONU/ONT

Once you have that info open the Links Sheet and open the GPON that your customer is located on

MICROS	Calix OCCAM	Calix OCCAM Cont	FTTH Fiber To The Home
<u>Beaver Mountain Zyxel</u> <u>Birdseye</u>	Aspen Cove Birdseye	Mt. Pleasant Hospital Mt. Pleasant Hospital 1 Mt. Pleasant Hospital 2 Mt. Pleasant Hospital 3 Mt. Pleasant Hospital 12	Brookline Condos 466 467 473 474 476 479 482 483 488
Bridgerland Bridgerland Zyxel	Bluewater 1 Bluewater 2 Bluewater 3 Bluewater 4 Bluewater 12	Scofield 1 Scofield 2	<u>2395 2447 2452 2457</u> 2472 2487 2497 2510
<u>Canal Canyon</u> <u>Clear Creek</u> <u>Colton Micro</u>	Bolotas Bovs Ranch	SCO MO HO	2510E 2515 2517 2520 2522 2525 2527 2530 2542 2547 2577
Crawford 1 Crawford 1 Crawford 2	Boys Ranch 1 Boys Ranch 12 Bridgerland	Skyline Mountain 1 Skyline Mountain 1 Skyline Mountain 12	Syslog Calix E7 GPON
Ditto Ditto Ditto 2	Bridgerland 1 Bridgerland 2 Camperworld	Soldier Summit Spring City	<u>Nephi Vault</u> <u>Santaquin CO</u> <u>Summit Creek</u>
<u>Elberta</u> Elberta South <u>Elberta South 2</u>	Chester Chester 1 Chester 12	Sunderland Sunderland Calix 1 Sunderland Calix 2	<u>Ubiquiti GPON</u> AF NOC
Ensign Ranch	Covered Bridge Covered Bridge 1 Covered Bridge 2 Covered Bridge 3	Swan Creek 1 Swan Creek 2	Richfield Willow Creek
<u>Moroni Hill</u> <u>Mosida</u> <u>Nephi Canyon</u>	Edge of Eden	Sweetwater Trailer	Automall Dugway CO Spanish Fork Vault
Panorama Woods ZyXel (Indianola) Sheep Creek Skull Valley Zyxel	Elberta Elberta Elberta South	<u>Thistle</u> <u>Wales</u>	<u>Updated 04/09/2019</u>
<u>Skyview</u>	Eureka	<u>Wales 1</u> Wales 2 Wales 3 Wales 12	

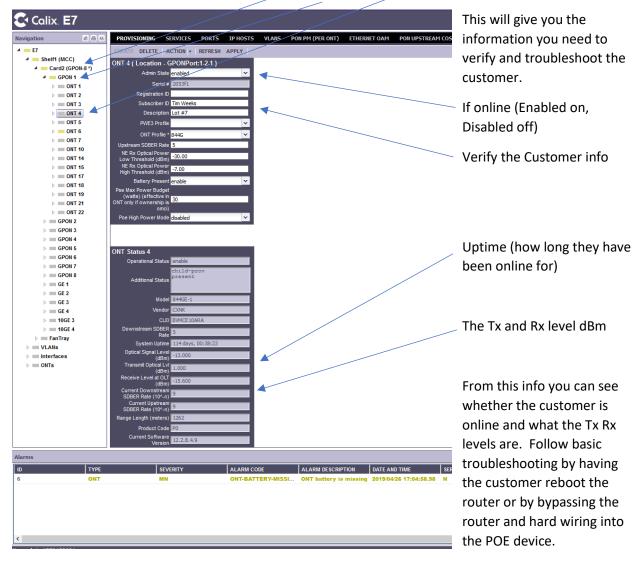
All fiber GPON's are located on the right

We will go over the Calix GPON info first

Click on the GPON your customer is on and login



After login in you will need to select the card and GPON and ONT that you want to view



When checking make sure the Tx is between +5 and -5 and the Rx is under -20 anything beyond -25 is usually trouble

The Ubiquiti devices are different. Click on the link to the GPON you need to access and login

After logging in you will see the main page Click on ONU List to view customers

U Fiber						CPU: RAM: Uptime:	2 months, 1 w	eek, 4 da	496 1396 ys		Ļ	• UNMS ⁻	CLI 🗡 To	olbox 🔻
Welcome admin 🔻	to AFNOC									Dashboard		ONU Profiles	GPON	Users
Hardware		Interfaces 👻											Hide Dis	tribution
Temperature Board 1 Board 2 Board 3 Power Slot PSU 1 Installed PSU 1 Type PSU 1 Powered PSU 2 Installed PSU 2 Type	33 C 42 C 33 C yes AC yes AC	pon1 pon2 pon3 pon4 pon5 pon6 pon7	40 30 20 10		(Mbps)					1,400 - 1,200 - 1,000 - 800 - 600 - 400 - 200 -	Rx Rate (KDps)			
PSU 2 Powered	yes											Search		
System voltage System current	25.00 V 1.18 A	Description	\$	Interface	•	Туре 🔺	IP Address	\$	MTU \$	Тх	Rx 🔺	Status	\$ Actions	
System power consumption	29.50 W	Management		br0		bridge	10.2.8.9/24		1500	49.10 Kbps	1.46 Kbps	Connected	Actions	-
		Alpine		pon1		pon				16.92 Mbps	448.73 Kbps	Connected	Actions	-
Fan FAN 1	7190 RPM	520 S. 850 E. Lehi		pon2		pon				11.75 Mbps	211.84 Kbps	Connected	Actions	-
FAN 2 FAN 3	6905 RPM 6375 RPM	313 S. 740 E. American Fo	rk	pon3		pon				20.76 Mbps	915.29 Kbps	Connected	Actions	-
	05751414	pon4		pon4		pon				384 bps	0 bps	Disconnected	Actions	-
		pon5		pon5		pon				384 bps	0 bps	Disconnected	Actions	-
		pon6		pon6		pon				384 bps	0 bps	Disconnected	Actions	-
		pon7		pon7		pon				384 bps	0 bps	Disconnected	Actions	•
		pon8		pon8		pon				384 bps	0 bps	Disconnected	Actions	•
		sfp+1		sfp+1		nni				1.13 Mbps	35.59 Mbps	Connected	Actions	-
		sfp+2		sfp+2		nni				0 bps	0 bps	Disconnected	Actions	-
		Showing 1 to 11 of 11 entrie	s											

Welco ONU	me admin 🔻 List	to AFNOC							Dashboard	ONU List	ONU Profil	see if the customer is
ļ	lll Con	nected Disco	onnected Disabled							Select PON	Port 🗸 Searc	Online
	Status 🔺	Serial Number	Name 🗘	Profile 🗘	PON Port ≎	Model	Tx Power	Rx Power	Connection	WAN IP Address 🗘	LAN Ports	
	Connected	UBNT2073077b	Brad Rencher 650-814-1010	VLAN 1938 CGN 1 GIG	1	NanoG	1.67dBm	-15.69dBm	46d 1h 29m 11s		•	The Custom
	Connected	UBNT207307d5	Alvin Stosich 801-664-3756	VLAN 1938 CGN 1 GIG	1	NanoG	2.12dBm	-14.71dBm	70d 4h 42m 29s		٠	info
	Connected	UBNT20730898	David &Cindy Pierce 801-414-4770	VLAN 1938 CGN 1 GIG	1	NanoG	1.73dBm	-13.64dBm	5d 4h 24m 1s			
	Connected	UBNT207308bb	David &Kimberly Hasleton 801-360-5280	VLAN 1938 CGN 1 GIG	1	NanoG	1.63dBm	-16.57dBm	70d 4h 42m 19s			Tx and Rx In
	Connected	UBNT207308c0	Rick & Sanda Powell 801-319-7251	VLAN 1938 CGN 1 GIG	1	NanoG	2.10dBm	-15.07dBm	70d 4h 42m 28s			
	Connected	UBNT207308cf	Spencer Collins 801-420-1350	VLAN 1938 CGN 1 GIG	1	NanoG	1.99dBm	-15.26dBm	70d 4h 42m 28s		•	
	Connected	UBNT207308d4	David & Heather Eaton 801-623-1332	VLAN 1938 CGN 1 GIG	1	NanoG	1.38dBm	-15.65dBm	70d 4h 42m 19s		•	Device
	Connected	UBNT207308de	Micheal Porter 801-492-0202	VLAN 1938 CGN 100 MEG	1	NanoG	1.65dBm	-14.46dBm	70d 4h 42m 29s			Uptime (ho long online)
	Connected	UBNT20730910	Phil & Claire Kenny 801-414-4770	VLAN 1938 CGN 1 GIG	1	NanoG	2.05dBm	-14.17dBm	65d 3h 16m 5s			
	Connected	UBNT20730dd4	Alan Whitaker 801-230-3853	VLAN 1938 CGN 1 GIG	1	NanoG	2.00dBm	-15.54dBm	70d 4h 42m 29s			
	Connected	UBNT207320da	Richard &Vickie Callister 801-369-6604	VLAN 1938 CGN 1 GIG	1	NanoG	2.10dBm	-15.51dBm	70d 4h 42m 29s			
	Connected	UBNT207320e4	Griff&Susan Johnson 801-910-9341	VLAN 1938 CGN 1 GIG	1	NanoG	1.83dBm	-14.67dBm	42d 5h 49m 38s			
	Connected	UBNT2073629d	Red Pine Construction Lehi	VLAN 32 STATIC 100 MEG	2	NanoG	2.16dBm	-17.77dBm	36d 21h 10m 14s			
	Connected	UBNT20736356	FiveStrata American Fork Suite 2	VLAN 32 STATIC 100 MEG	3	NanoG	2.17dBm	-15.06dBm	32d 23h 41m 31s			
	Connected	UBNT20781d06	Big Payout American Fork Suite 1	Big Payout VLAN 32 Static 500 Meg	3	NanoG	1.51dBm	-14.28dBm	32d 23h 41m 31s			
	Connected	UBNT20781d3d	Keystone Construction Lehi	VLAN 32 STATIC 100 MEG	2	NanoG	1.87dBm	-21.08dBm	70d 4h 42m 29s			
	Connected	UBNT20781d6a	Alan Paulson 801-473-4565	VLAN 1938 CGN 1 GIG	1	NanoG	2.15dBm	-14.72dBm	1d 17h 34m 9s			

After clicking ONU list you will see customer info

From this info you can see whether the customer is online and what the Tx Rx levels they should be as follows the Tx is between +5 and -5 and the Rx is under -20 anything beyond -25 is usually trouble

Follow basic troubleshooting by having the customer reboot the router or by bypassing the router and hard wiring into the POE device.



Most fiber to the home setups will look like this

- ONU device

POE Device

To reboot the POE hav customer unplug the POE here wait for 30 seconds then plug it back in.

DO NOT tell them to unplug the fiber line. They should not be touching this line

After troubleshooting if they are still having issues send a trouble over to dispatch as normal and they will send it to the tech. Make sure to include the GPON-ONU/ONT info like you would a DSL