



FEATURE OVERVIEW AND QUICK-START MANUAL



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GRIDOBSERVER® FEATURE OVERVIEW AND QUICK-START GUIDE

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GRIDOBSERVER OVERVIEW

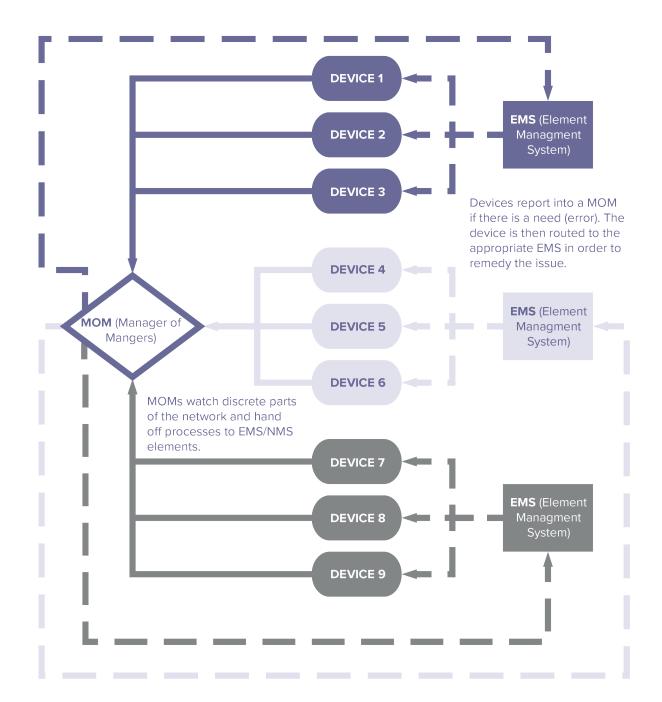
MANAGER OF MANAGERS VS. ELEMENT MANAGEMENT SYSTEMS

GridObserver is a comprehensive Manager of Managers (MOM) which fully integrates into your current smart grid. As a MOM, GridObserver fulfills a critical role within your network by detecting each piece of physical and virtual equipment, their relationships, and mapping your entire network to provide a complete view of its activity and status.

Typically, an element management system (EMS) or a network management system (NMS) is used to monitor a network. Some larger networks even require several EMS and NMS configurations to ensure the smooth operation of all the equipment within the network. EMSs and NMSs only look at discrete pieces of equipment from the manufacturer who created it.

As a Manager of Managers, GridObserver collects data from the EMSs and NMSs within your network to assess all aspects of your grid. Once integrated, GridObserver also hands control to those smaller, more specialized systems when appropriate to ensure your network is operating at maximum efficiency.





How a MOM and EMS/NMS Work Together

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GRIDOBSERVER PROVIDES A COMPLETE VIEW OF YOUR NETWORK

Although there are other Manager of Managers on the market, GridObserver grabs more data from your network and paints a clear picture of your system. GridObserver goes to work immediately after installation, detecting your network's devices and stitching together information to build a model of your entire smart grid.

Most MOMs are designed only to retrieve surface level data and predefined metrics. GridObserver looks beyond the industry standards to bring you more significant data than any other management system. With the ability to gather, analyze, and report more than 100,000 different indicators, GridObserver gives you more power and possibilities than any other Manager of Managers.

WHY GRIDOBSERVER?

GridObserver is the product of over 20 years of careful engineering. Designed by network engineers with their fellow engineers in mind, GridObserver has been built from the ground up to be your ideal network management solution. This Manager of Managers goes far beyond the capabilities of other MOMs on the market, collecting more data and providing more actionable insights than any other management system.

Anomaly Analysis

Standard network management systems come with a fundamental flaw: they only report issues after a failure or outage occurs. GridObserver changes that way network monitoring is performed by continually tracking key indicators and data to detect performance anomalies and alert your team before it becomes a problem. Using machine learning,



the system filters out noise and insignificant data and delivers prompt alerts when it detects a problematic anomaly.management system.

Unmatched Data

GridObserver gathers all available data from devices within your network. Not only does it collect device information, but it also tracks the relationships between equipment, physical locations, and external factors. GridObserver finds the geolocation of each network component and generates a map to make dispatching technicians simple. The system even uses device locations to take local weather into account when analyzing performance and potential problems.

Agentless Access

Most network management systems require physical devices be installed specifically to interface with the network. GridObserver's completely agentless and clientless design means there is no physical user interface to maintain and no designated access portal. The GridObserver interface is accessible from any standard web browser. That ease of access allows you to retrieve your data, create reports, and respond to alerts anytime, anywhere.

Leading Indicator Technology

The heart and soul of GridObserver lie in Leading Indicator Technology[®] (LIT[®]). LIT uses your network's data to provide a complete view of what is currently happening, insights into what will happen in the future, and accurate diagnoses of problems before they occur. The secret to GridObserver's Leading Indicator Technology is its ability to understand devices and their relationships at a deeper level than any other management system. Through machine learning, this MOM processes device journals, metadata, device details, and SNMP information to provide valuable insights unavailable from other monitoring solutions.

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Key Performance Indicators

Tracking key performance indicators (KPIs) is an essential aspect of any business. Through customizable reports and in-depth analysis, GridObserver provides more insights into your KPIs than any other network management system. GridObserver produces both on-demand and scheduled reports on any key metric you choose, ensuring each member of your team has the information they need to be successful.

C-level Executives

KPI tracking allows executives to see network health and needs giving them the ability to make informed decisions and invest funds and resources with confidence.

Network Engineers

Engineers use KPI reporting to see when equipment needs to be upgraded, changed, or added to maximize network coverage and efficiency.

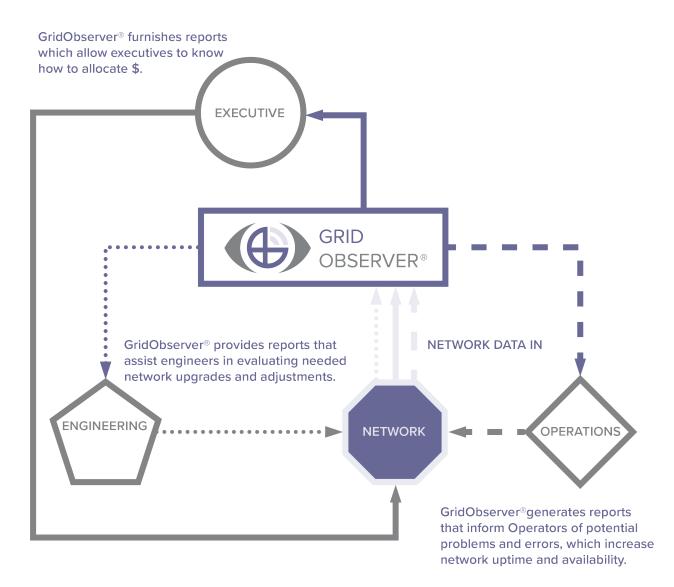
Network Operators

KPIs allow operators at all levels to keep tabs on the network they service and stay informed of potential issues before they cause outages.

Ease of Implementation

Most network management systems are cumbersome to install and can take months, or even years to fully deploy. GridObserver quickly integrates into your smart grid and, in most cases, is fully operational in under 30 days. Customization is a crucial component of GridObserver, so each installation is explicitly tailored to fit in the existing network. This personalized approach to installation maximizes utility and minimizes unscheduled downtime. GridObserver is also manufacturer agnostic, allowing it the flexibility to install seamlessly into any smart grid system.





GRIDOBSERVER INTERFACE: WHAT AM I LOOKING AT?

Main Dashboard

The first screen you encounter when you log into GridObserver is the main dashboard. This screen displays the most recent query of the network at the time the page loads. From this main dashboard, you can access the various tools and components of GridObserver. The following information is intended to provide an overview of the different tools and elements of the system.

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istration 🗸 Operations	✓ Engineering ✓ Executive ✓ Mapping ✓ Custom Reports ✓ De	weloper Tools 🗸				root	 I
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OBSERVER®	Filter					Refres	h 🖃
rch for Devices	Site Name	Device	Name	Device Type	Status	Last Check	Last Cha
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Contain Contain	ADD Bus Terminal		FAN AP-16-163	FAN Mesh Access Point	OK - Pine 77.7 ma	530 Dava	538 Dava
	ADD Bus Terminal		MPLS 8-115	MPLS Switch	OK-Ping 14.9 ms	530 Days	623 Davs
Co		<u> </u>					
	Aduana Mexico Tiluana		MPLS 8-18	MPLS Switch	OK - Ping 316 ms	530 Days	S99 Days
	Acesa Montemer		QIS_EQ-146	Cisco Equipment	OK-Ping 9.30 ms	\$30 Days	815 Days
	Arena Monteriar		CPE-227 CPE-231	Wireless CPE	OK - Ping 71.1 ms	530 Days	542 Days
k Summary K	Arena Nonterray Arena Nonterray		02E-231 MPLS-202	Hirelens GPE HPLS Switch	OK - Ping 57.9 ms OK - Ping 53.2 ms	530 Days 530 Days	612 Days 619 Days
	Auditorio Municipal		MPLS-22	MPLS switch	OK - Ping Sold Ins OK - Ping 129 ms	530 Days	SS7 Days
0 Backhaul Type	Auto Hotel Peccato's		ALU 6855-187	LAN Switch	OK - Ping 13.1 ms	530 Dava	858 Dava
	Auto Hotel Peocato's		MPLS 6-32	MPLS Switch	OK-Ping 13.3 ms	530 Days	672 Days
0 ADO Bus Terminal		2					
0 AR emergencias	Avuntamiento Municipal De Vilaflores		B3-200	Wireless Basestation	OK-Ping 7.31 ms	530 Days	564 Days
	Avuntamiento Nunicipal De Vilafores Avuntamiento Nunicipal De Vilafores		55-34 85-66	Wireless Basestation	OK - Ping 7.30 ms OK - Ping 7.33 ms	530 Days 530 Days	605 Days 564 Days
0 Auditorio Municipal	Avuntamiento Nunicipal De Vilañores		E2:56 FAN 4P-17.58	FAN Mesh Access Point	OK-Ping 7.33 ms	530 Days	SS0 Days
0 Auto Hotel Peccato [*]	Avantamiento Nuncipal De Vilafores		FAN AP-17.50	FAN MISH ACCESS POINT	OK - Ping 75.5 IIIS	530 Dava	550 Dava
0 Banamex	Eventamiento Municipal De Wilafores		FAN AP-17.60	FAN Mesh Access Point	OK - Ping Tota ma	530 Dava	550 Days
	Avuntamiento Municipal De Wildfores		MPLS-114	MPLS Switch	OK-Ping 8.29 ms	\$30 Davs	Unknown
0 Bodega Aurrera	Avuntamiento Nunicipal De Wilaflores		MPLS 0-54	MPLS Switch	OK-Pine 841 ms	530 Dava	649 Dava
0 Gasolinera						530 Days	675 Davs
	Avuntamiento Nunicipal San Fernando Avuntamiento Nunicipal San Fernando		FAN AP-17.42 FAN AP-17.43	FAN Mesh Access Point FAN Mesh Access Point	OK - Ping 79.6 ms OK - Ping 74.0 ms	530 Days	601 Days
0 Gasolinera	Avantamiento Nuncipal San Fernando		FAN AP-17.44	FAN MISH ACCESS POINT	OK - Ping Iwo IIIS OK - Ping 80.9 ms	530 Dava	500 Dava
	Avuntamiento Municipal San Fernando		FAN AP-17.45	FAN Mesh Access Point	OK - Ping 80.4 ms	530 Days	500 Days
Device Types			MPLS 8-52	MPLS Switch	OK - Ping 5.67 ma	530 Days	703 Dava
0 ACS	Estamez		ALC DWDM-14	DWDM	OK-Ping 4.81 ms	530 Days Linknown	553 Days Unknown
0 alert test	Batamex Batamex		ALU 040X-0.0.0.67 CAM 650-19	ALLI DRKK Cambium 650	OK-Ping 16.3 ms	530 Days	S91 Days
	Bahamex		CAM 850-19 CI5 E0-112	Cambium 650 Cisco Equipment	OK - Ping 16.3 ms OK - Ping 6.86 ms	530 Days	815 Dava
0 ALU 6850	Datates		05.00.00	Cisco Equipment	OK - Ping 6.00 Hs	530 Days	815 Days
0 ALU 7750	Banamex		CPE-205	Hireless CPE	OK-Ping 62.3 ms	\$30 Davs	SS6 Davis
0 ALLEDMX	Banamex		CPE-235	Wireless CPE	OK - Ping 22.9 ms	530 Days	559 Davs
	Banamex		CPE-23T	Hireless CPE	OK - Ping 44,4 ma	530 Dava	539 Dava
0 Aviat Microwave	Datamez		<u>CPI-47</u>	Hireless CPE	OK - Ping 61.7 ms	530 Days	539 Days
0 Cambium 650	Banamex		CPE-69	Wireless CPE	OK-Ping 48.4 ms	\$30 Days	SS6 Days
	Banamex		CPE-71	Wireless CPE	OK - Ping 41.9 ms	530 Days	794 Days
0 Clsco Equipment	Danamez		TAN AP-26.90	TAN Mesh Access Point	OK - Ping 84.7 ms	530 Days	533 Days
	Banamez		FAN AP-16.99	EAN Mesh Access Point	OK-Ping 70.5 ms	530 Days	S33 Days
1 Sites ^	Banamex		MPLS-127	MPLS Switch	OK-Ping 2.50 ms	\$30 Days	Unknown
	Banamex		MPLS-172	MPLS Switch	OK - Ping 45.1 ms	530 Days	557 Days
0 ADO Bus Terminal	Estamez		MP15-185	MPLS Switch	OK - Ping 49.9 ms	530 Days	539 Days
0 Aduana Mexico Tilu-	Banamez		MPL5-222 MPLS-223	MPLS Switch MPLS Switch	OK - Ping 14.1 ms OK - Ping 34.3 ms	530 Days 530 Days	592 Days 537 Days
	Banamex Banamex		MPLS-223 MPLS-57	MPLS Switch	OK - Ping 34.3 ms OK - Ping 2.19 ms	530 Days 530 Days	823 Dava
0 Arena Monterrey							
Auditorio Municipal	Banames		MPLS 8-102	MPLS Switch	OK - Ping 2.74 ms	530 Days	802 Days
Auto Hotel Peccato'	Datames		MPLS 0-31	MPLS Switch	OK - Ping 2.21 ms	530 Days	787 Days
	Banamex		MPLS 8-81	MPL5 Switch	OK - Ping 1.55 ma	530 Dava	602 Dava
0 Ayuntamiento Muni					OK - Ping L36 Hs	530 Days	760 Dava
0 Avuntamiento Muni	Estamez		SAR_TRANS-147	MPLS Switch			
	Banames		SAB. TRANS-247 ALU 6855-51	HPLS Switch	OK - Ping 1.50 ms OK - Ping 4.12 ms	530 Days 530 Days	759 Days 732 Days
0 Banamex	Bancomer			LAN Switch			

The main screen displays a list of all the devices that are in the network. This table shows all network devices and can be customized to display selected device information.

	GO Demo Netw	ork Overview			
Filter Ok OWarn OError	Roset			Refres	- •
Site Name	Device Name	Device Type	Status	Last Check	Last Change
ADD Bus Terminal	FAN AP-16.162	FAN Mesh Access Point	OK - Ping 98.4 ms	530 Days	538 Days
ADO Bus Terminal	FAN AP-16.163	FAN Mesh Access Point	OK - Ping 77.7 ms	530 Days	538 Days
ADD Bus Terminal	× MPLS 8-115	MPLS Switch	OK - Ping 14.9 ms	530 Days	623 Days
Aduana Mexico Tijuana	× MPLS 8-18	MPLS Switch	OK - Ping 316 ms	530 Days	S99 Days
Icena Monterrey	C15 E0.148	Circo Equipment	OX - Plot 9 30 mt	\$20 Dave	215 Dave

Refresh table with the latest data from the network.





Add/Remove displayed fields on the table.



Quick sort filter that sorts the devices according to the query.



The left panel on the dashboard allows you to view customizable collections of devices and sites. This panel is visible on every screen you navigate to in GridObserver.



One of the prominent features on the GridObserver dashboard is the red, yellow, and green status options. With these options, you can sort quickly through the various states of the devices on the network.

	GO Demo Network Overview											
Filter O k O warm O Error Re	set			Refresh	- 0-							
Site Name	Device Name	Device Type	Status	Last Check	Last Change							
ADD Bus Terminal	Device Name FAN AP-16.162	FAN Mesh Access Point	OK - Ping 98.4 ms	530 Days	538 Days							
ADD Bus Terminal	FAN AP-16.162	FAN Mesh Access Point	OK - Ping 98.4 ms	530 Days	538 Days							

Error (Red)

If **Error** is selected, the screen will display a list of all devices that are actively responding with errors. The errors might indicate the following:

- The device is not responding to monitoring service
- The device needs immediate attention

Warn (Yellow)

If **Warn** is selected, the screen will display all devices that are actively responding with warnings. The warnings might indicate the following:

- Something may be wrong with a device
- Potential concerns ranging from environmental factors to configurations and connections.

Ok (Green)

If **OK** is selected, the screen will display all devices that are operating according to their configuration.



Top Menu

The different features, reports, and tools are accessible through the top menu. The following is an overview of what can typically be found under each menu option.

Administration 🗸 Operations 🗸 Engineering 🗸 Executive 🗸 Mapping 🗸 Custom Reports 🗸 Developer Tools 🗸

Note: Because the menu system is customizable (depending on the needs of the network), not all options are described.

Administration

This primary menu option is found in all builds of GridObserver. From this menu you can do the following:

- Access, edit, and view Devices, Device Types, and Sites
- Discover devices on the network
- Create, edit, and view Device Probes
- View SNMP profiles
- Create, edit, and view Groups and Group Collections
- Manage users and their roles

Operations

This option supports the tools and reports that are useful to network operators. Many tools and reports are customizable under this section based upon network operation needs.

- Actionable Intelligence Engine
- The Operations Dashboard provides a central location for operators to view the network status
- Reports on information such as availability, latency, loss, SNMP browsers, MAC lookups, and MIB tables

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Engineering

The Engineering options are typically industry specific and customizable to meet the needs of network engineers.

- The Engineering Dashboard provides a central location for operators to view various network KPIs
- There are also options for MPLS related reports, alarms, and other various tools

Executive

The Executive options allow executives to access and view pertinent data related to desired metrics.

- The Executive Dashboard provides a general overview of key metrics that help influence business decisions
- Custom reports, such as a metric report, provide KPIs to executives

Mapping

GridObserver can geocode locations and devices. The Mapping option contains various tools available for that purpose:

- Point-to-Point Planner and Point-to-Multi-Point Line of Sight Analysis for location and equipment planning
- The option to view all sectors
- Maps, a map builder, and Google Earth
- Custom tools or options related to geolocations and mapping

Custom Reports

This menu option contains any custom reports that are pertinent to multiple responsibilities within your network and organization.



Sites

Another important component in GridObserver is the Sites list. Following is a brief look at what you can find in the Sites section under the Administration option in the top menu.

Each device in the network will be assigned to a specific site. Sites are the physical locations for devices. A site can have multiple devices.

When you navigate to the Sites list, you will see a table with a list of sites. From this screen you can select sites to view or edit and create new sites for the network.

Sites													
ilter Add tody													
ite Name	Address	City	State	Zip	Lat	Lon	Device Count						
ADO Bus Terminal	113 Vértiz calle	Royal Palms Estates Colonia	PL	25678	19.5612023	-98.05129146	3						
Aduana Mexico Tiluana	126 Narvarte avenida	A and E Ramirez Colonia	MX	17298	19.11441874	-99.30283364	1						
Africe	12 Valle la carretera	Pennsylvania Avenue Colonia	MX	17298			0						
Remergencias	95 Valle calle	J R Colonia Number 1	MC	34598			0						
krena Monterrey	112 Miravalle la carretera	Northside Village Colonia Number 2	CL.	25678	19.31315907	-99.00513138	4						
uditorio Banamex	124 Actipán la carretera	Villas del Valle Colonia	CL	25678			0						
luditorio Municipal	17 Mixcoac avenida	Rancho Grande Colonia	CL.	34598	19.27614953	-98.73214724	1						
uto Hotel Peccato's	117 Emperadores calle	Glenshire Estates Colonia	CL	34598	19.30347685	-96,78268804	2						
wuntamiento Municipal De Villaflores	90 Del la carretera	Garciatville	MX	39278	18.99541461	-98.95794043	8						
wuntamiento Municipal San Fernando	103 Letrán la carretera	Roma Creek Number 1, 2 and 3 Colonia	RD	25678	19.54310504	-99.08928236	5						
Sanamex	58 San calle	Villa Cavazos	MX	17298	19.5340578	-98.74713889	2						
Sanamex	81 Carmen avenida	Florentino Ramos Colonia	MX	17298	18.17944	-99.6494	1						
anamex	126 Ortiz la carretera	Villa de Martinez Colonia	MX	34598	19.38252496	-99.26508901	1						
lanamex	84 Portales avenida	Robinette Colonia	RD	17298	19.41216023	-99.18437798	1						
Banamex	91 Boria calle	Indian Hot Springs	PL	17298	19,45286996	-99.25646926	3						
	AND also second a	Alberta Retation Monthly & Colonia	~	97505	10.20060106	00.01560047							

When you select or create a new site, a screen will load with a number of fields and a vertical menu of options on the right.

Name			Search for an address		
Carl's Jr.			Map Satellite		Carl's Jr.
Address			Santa Maria		
27 Carmen avenida			Huexoculco		
City	State	Zip	a Candelaria Tiapala		Site Details 2
Valle Vista Colonia	RD	17298	n		Site Devices
			San Mateo Tezoquipan		Site Messages
Phone	Fax		Tialmanalco San Rafael		
			Santa María		Latency Graphs
Latitude	Long	gitude		8	Performance Indicators
				-	Incident Anomaly Analysis
Notes			ngo	+	
Notes	A		San Francisco	_	Site Uploads
	Save		ttiago Zentilalpan Cuauhtenco sopula Google Mag data #2019 Google, INEGI Terma of Use Report a	map error	
					Hyperlocal Weather

You can select from the following options:

Site Details

Includes basic information about the site, such as the name of the site, the address, latitude and longitude, and any notes related to



the site, such as instructions to follow when accessing this site.

Site Devices

Lists all devices currently assigned to the Site as well as device details, such as device name, IP address, device type, and physical location. Clicking on a device from this menu navigates you to that device's page.

- Site Messages
- Devices Status Graphs

Provides graphs representing the status of every device associated with the site.

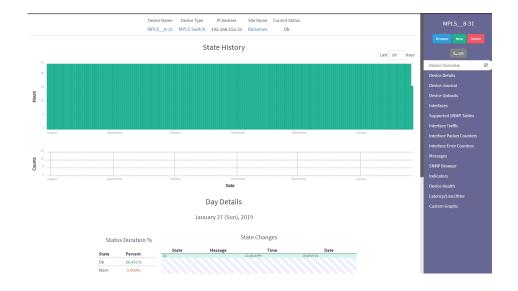
- Latency Graphs
- Performance Indicators
- Incident Anomaly Analysis
- Indicators
- Site Uploads
- Site Journal
- Site Logins
- Hyperlocal Weather (If enabled in the build).

Devices

The Device list is accessed through the Administration menu or from the left side bar. Devices are pieces of equipment in a network.

			Devices			
	Add Entry					
e	Name	IP Address	Site	Device Type	Latitude	Longitude
	MPLS 8-100	192.168.152.100	Oficina de Correo Palacio Federal	MPLS Switch	19.67602572	-98.80750248
	MPLS 8-101	192.168.152.101	Inbursa	MPLS Switch	18.64771018	-98.84926935
	MPLS 8-102	192.168.152.102	Banamex	MPLS Switch	19.41216023	-99.18437798
	MPLS 8-103	192.168.152.103	Cruz Rola Mexicana Delegacion Torreón	MPLS Switch	18.86446383	-98.92833142
	MPLS 8-104	192.168.152.104	Embassy Suites	MPLS Switch	18.57025535	-98.6425444
	MPLS 8-105	192.168.152.105	ELTIPOS	MPLS Switch	18.5487076	-98.8956926
	MPLS 8-107	192.168.152.107	Elektra	MPLS Switch	18.7469051	-98.92265447
	MPLS 8-108	192.168.152.108	Meliä	MPLS Switch	19.26820485	-99.30707463
	MPLS 8-109	192.168.152.109	Pernex	MPLS Switch	19.06206292	-99.06530143
	MPLS 8-11	192.168.38.11	Hospital General Regional de Zitacuaro	NPLS Switch	18.80035686	-97.68620317
	MPLS 8-11	192.168.152.11	Presidencia Municipal	MPLS Switch	19.15245608	-99.06191091
	MPLS 8-110	192.168.152.110	ELReposo	MPLS Switch	18.27338759	-98.17309374
	MPLS 8-111	192.168.152.111	Tiesta Americana	MPLS Switch	19.65859831	-98.2322502
	MPLS 8-112	192.168.152.112	Liverpool Parque Delta	MPLS Switch	18.1470564	-97.91760193
	MPLS 8-113	192.168.152.113	Unidad Médica Familiar no.2	MPLS Switch	18.87328264	-99.36180822
	MPLS 8-114	192.168.152.114	Liverpool Lindavista	MPLS Switch	18.9265067	-99.22929348
	MPLS 8-115	192.168.152.115	ADD Bus Terminal	MPLS Switch	19.5612023	-98.05129146
	MPLS 8-119	192.168.152.119	Santander	MPLS Switch	18.86969767	-99.24454766
	MPLS 8-12	192.168.152.12	Mercado de la Campestre	MPLS Switch	19.4899937	-99.20418474
	MPLS 8-121	192.168.152.121	Mendoza's Paint & Body	MPLS Switch	19.18222147	-99.28539947
	MPLS 8-122	192.168.152.122	caseta policia	MPLS Switch	19.57559231	-99.13179287
	MPLS 8-13	192.168.152.13	Palacio Municipal	MPLS Switch	19.22196199	-98.82594709
	MPLS 8-135	192.168.152.135	HSBC	MPLS Switch	19.22692683	-98.59905867
	MPLS 8-138	192.168.152.138	Tacos El Yacul	MPLS Switch	19.22934521	-99.10397523
	MPLS 8-14	192.168.152.14	Restaurant El Chillon	MPLS Switch	19.29500865	-99.26604297
	MPLS 8-141	192.168.151.141	Correos de Mexico	MPLS Switch	19.55942669	-98.80156316
	MPLS 8-142	192.168.151.142	Torre Empresarial	MPLS Switch	19.27268672	-99.02249762
	MPLS 8-15	192.168.152.15	Estafeta	MPLS Switch	18.71673102	-97.98341679
	MPLS 8-156	192.168.152.156	Cinemex Constituyentes	MPLS Switch	19.52268501	-99.17160573
	MPLS 8-16	192.168.152.16	H-E-B	MPLS Switch	19.30507008	-99.13926351
	MPLS 8-17	192.168.152.17	Pollo Feliz	MPLS Switch	19.31083885	-99.17431512
	MPLS 8-18	192.168.152.18	Bancomer	MPLS Switch	19.62654478	-99.21290301
	MPLS 8-18	192.168.38.18	Aduana Mexico Tijuana	MPLS Switch	19.11441874	-99.30283364
	MPLS 8-19	192.168.38.19	Casino de la Cultura de Culiacán	MPLS Switch	19.66691944	-98.67406078
	MRIS 8,30	102 168 157 30	Plaza ámárica	MDI S Switch	10.43126306	-99 12440614





As in the Sites section, once a device is created or selected a set of fields and vertical menu will appear on the right.

The following are some of the options accessible through a Device screen.

Device Overview

View State History, Day Details, and State Changes

Device Details

Access site, device location, device information, and IP address

Device Journal

Allows notes to be taken and stored with other device information.

Device Uploads

Select and upload device-specific files here (e.g., manuals and photographs)

- Interfaces
- Supported SNMP Tables
- Interface Traffic, Packet Counters, and Error Counters

Monitors the flow of packets and any packet delivery failures

Messages

Searchable semantic data sent from the device and color-coded to indicate severity

- SNMP Browser
- Indicators

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- Device Health
- Latency/Loss/Jitter
- Custom Graphs

Device Probes

Probes track specific device features on a repeated basis. You can access the list of Device Probes through the Administration menu option. Like Devices and Sites, Probes are displayed in a table format that allows you to view, edit, or create new probes.

Filter	Add Entry				
robe	Check Interval	Linked Types Count	Linked Devices Count	Result Count	SNMP DataPoints
theck Cisco	300	1	0	0	0
Theck Cisco	300	1	0	0	0
beck Cisco	300	1	2	0	0
heck Cisco	300	1	112	0	0
heck SNMP	300	1	24	0	0
beck SNMP	300	1	22	0	0
heck SNMP	300	1	0		0
heck SNMP	300	1	0	0	0
guipment Check	300	1	177		0
quipment Check	300	1	0		0
quipment Check	300		12	ō	0
guigment Check	300		0		0
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	300		240	0	0
pulpment Check	300		0	0	
guigment Check	300				0
guigment Check	300	1	0	0	0
guigment Check	300	1	2	0	0
puigment Check	300	1	0	0	0
guigment Check	300	1	2	0	0
guioment Check	300	1	24	0	0
puipment Check	300	1	0	0	0
guigment Check	300	1	0	0	0
guigment Check	300	1	194	0	0
ouigment Check	300	1	20	0	0
guigment Check	300	1	0	0	0
guigment Check	300	1	0	0	0
aulpment Check	300	1	0	0	0
guigment Check	300	1	0		0
oujoment Check	300	1	0	0	0
guigment Check	300		8		0
guigment Check	300	1	82		0
quipment Check	300		4		0
pulpment Check	300		128		0
auigment Check	300	1	110		
sulpment Check	300	1	4	0	0
wigment Check	300	1	×		0
aulpment Check	300	1	0		0
wigment Check	300		2	0	0
automent Check	300	1	3	0	0
AND REAL PROPERTY AND REAL PRO		-	3		
guipment Check	300	1	0	0	0
guigment Check	300	1	6	0	0
puipment Checks	300	1	0	0	0
ulpment Checks	300			0	0

Once a probe is selected or created, a new screen with a vertical menu on the right appears with fields and options relating to the probe.

Probe Details	Check SNMP	
Probe Name		
Check SNMP	 Probe Details	
Probe Interval	Associated Device Types	
300		
Save		
	Storage Strategies	

The following are some of the options that can be found in the probe screen:



Probe Details

Probe name and Intervals (in milliseconds)

Associated Device Types

Add or remove existing Device Types

Data Collection

Add or remove SNMP Queries, OIDs, and Request Types

- Data Processing
 Add basic expressions
- Alarm Conditions
 Specify alert messages for Return Codes (OK, Warning, Error)
- Storage Strategies

View existing or add new storage strategies

QUICK-START GUIDE

OVERVIEW

To get up and running, you'll need to complete these steps:

- 1. Add/Verify Network Information
 - Sites (pg.23)
 - Device Types (pg.26)
 - Devices (pg.29)
 - SNMP Profiles (pg.33)
- 2. Add Additional Information
 - Custom Field Sets (pg.36)
 - Uploads and Documents (pg.41)
 - Journals (pg.45)
- 3. Monitor Your Network
 - Devices and Sites (pg.48)
 - Group Collections (pg.51)
 - Reporting (pg.54)

Conxx has likely completed some of these steps for you. You may skip sections that are already complete after verifying the information present is correct.



ADD/VERIFY NETWORK INFORMATION

The first step you must complete is to verify that the network information you provided to Conxx for input is correct, complete, and up-to-date. New information may need to be input if changes have been made to your account since it was created.

Information that needs to be added or verified includes the following:

- Sites
- Device types
- Devices
- SNMP profiles

Once you have added and verified your information, your account will be up and running.

Sites

Sites are the physical locations of devices. Site information serves as the primary system for grouping and tracking your devices. Each time you create a new device you will designate which Site it belongs to.

If you have already provided information to Conxx for your sites, many of the steps below will already have been completed. Navigate to the appropriate pages to verify or input the correct information.

Adding a Site

1. Select Sites from the Administration drop-down menu.

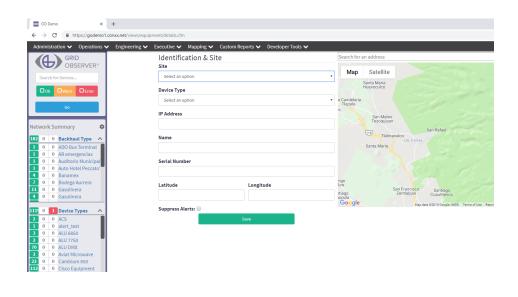
GO Demo	×	+						
→ C 🔒 h	ttps://godemo1.c	onxo.net/index.cfm						
Iministration ٨	Operations 🗸	Engineering 🗸	Executive 🗸	Mapping 🗸	Custom Reports 🗸	Developer Tools 🗸		
Devices Device Types	RVER®						GO Demo Net	work Overview
Device Discovery		Filter	O Ok	🛛 Warn 🛛	Error Reset			
Device Probes		Site Name				Device		Device Type
Custom Fieldsets	Error	ADO Bus Terminal ADO Bus Terminal					FAN AP-16.162 FAN AP-16.163	EAN Mesh Access Point EAN Mesh Access Point
SNMP Profiles		ADO Bus Terminal				N	MPLS 8-115	MPLS Switch
		Aduana Mexico Tijuana				2	MPLS 8-18	MPLS Switch
Groups		Alsuper				<u>م</u>	MPLS 8-53	MPLS Switch
Group Collections		Arena Monterrey				-	CIS EQ-148	Cisco Equipment
oroup conections	\$	Arena Monterrey Arena Monterrey					CPE-227 CPE-231	Wireless CPE Wireless CPE
Sites		Arena Monterrey Arena Monterrey					CPE-231 MPLS-203	Mireless CPE MPLS Switch
	ype 🔨	Auditorio Municipal					MPLS-22	MPLS Switch
Users	rminal	Auto Hotel Peccato's					ALU 6855-187	LAN Switch
		Auto Hotel Peccato's				3	MPLS 8-32	MPLS Switch



2. Click the **Add Entry** button.

O Demo X	+							- a
C A https://godemo1	Lconxcnet/views/location/browse.cfm							1
nistration 🗸 Operations	 Engineering Executive Mapping 	Custom Reports 🗸 Developer Tools 🗸						root 🗸 🔲 🗖
GRID			Sites					
OBSERVER®			Sites					
rch for Devices	Filter Add Entry							
Ok OWarn OError	Site Name	Address	City	State	Zip	Lat	Lon	Device Count
	ADO.Bus Terminal	113 Vértiz calle	Poyal Palms Estates Colonia	PL	25678	19.5612023	-98.05129146	3
	Aduana Mexico Tiluana	126 Narvarte avenida	A and E Ramirez Colonia	MX	17298	19.11441874	-99.30283364	1
Go	alime	12 Valle la carretera	Pennsylvania Avenue Colonia		17298			0
	Alsuper	18 Xoco calle	Elinois Heights Colonia	MX	39278	19.36375625	-99.28051058	
	<u>AR emergencias</u>	95 Valle calle	J R Colonia Number 1	MC	34598			0
	Arena Honterrey	112 Minavalle la carretera	Northaide Willage Colonia Number 2	CL	25678	29.33355007	-29.00513138	4
k Summary 🌼 🌣	Auditorio Banames	124 Actipán la carretera	Villas del Valle Colonia	CL.	25678			0
	Auditorio Municipal	17 Mixcoac avenida	Rancho Grande Colonia	CL.	34598	19.27614953 19.30347685	-98.73214724 -98.73268804	1
0 Backhaul Type \land	Auto Hotel Perceto's	117 Emperadores calle	Glenshire Estates Colonia	CL.	34598			2
	Avuntamiento Nunicipal De Wileflores	90 Del la carretera	Garcianville	MX	32278	38.99541461	-23.25724043	8
ADO Bus Terminal	Avuntamiento Nunicipal San Fernando	103 Letrán la carretera 58 San calle	Poma Creek Number 1, 2 and 3 Colonia Villa Cautors	RD MX	25678	19.54310504	-99.08928226 -98.74713889	
AR emergencias	Banames				17298	19.5340578		2
	Lanamaz	61 Carmen avenida	Florentino Ramos Colonia	MX	17298	38.17944	-22.5424	1
Auditorio Municipal	Banames	126 Ortiz la carretera	Villa de Martinez Colonia	MX	34598	19.30252495	-99.26508901	1
	Banames	84 Portales avenida	Robinette Colonia	80	17298	19.41216023	-99.58437796	1
Auto Hotel Peccato'	Sanamas	91 Borja calle	Indian Hot Springs	PL	17228	29.45256293	-22.25646926	3
Banamex	Bacames	108 de avenida	Alberta Estates Number 2 Colonia	CL.	34590	19.36869105	-99.01160947	3
Bodega Aurrera	Banames	21 Insurgentes avenida	Reid Hope King Colonia	80	25678	19.60516545	-98.87621655	3
	Benames	104 Atenor la carretera	Falcon Shores	PL.	25678	29.62968335	/99.12292402	3
0 Gasolinera	Sanames	81 Iztaccihuati calle	Sierra Alto Nobile Home Colonia	MX	34590	12.34022522	-99.2758135	7
0 Gasolinera	Banco Santander Serlin	40 Valle Center avenida	La Camellia Colonia A	MX	39278			0
• Gasonnera	Bancomer	57 Actipán avenida	Rancho Viejo Number 1 Colonia	CL CL	39278			0
	Baccomer	88 Oriente calle	Villa Pancho	CL CL	34598			3
1 Device Types A	Bancomer	113 Cruz avenida	Conway Plaza Colonia	PL PL	39278	17.67029349	-98.15992072	1
Device Types ^	Bancomer	40 Emperadores calle	La Homa Five Colonia	80	25678	19.06827811	-99.11457531	3
0 ACS	Decomer	100 de la carretera	North Cross Estates Colonia	CL	25678	22.62654478	-99.21290301	11
	Baccorter	52 Tlacoquemécati la carretera	El Rio Colonia	CL.	39278	19.5340578	-98.74713889	3
ø alert_test	Bancomer	101 Dominguez la carretera	Todds Colonia Number 2	CL	17298	19.31793899	-99.27371874	4
0 ALU 6850	Bancomer Otay	121 Emperadores la carretera	Thomas Ortega Colonia	PL	17238			0
	Eacoste	99 Unidas avenida	Olivia Lopez de Gutierrez Colonia	PL.	17290	19.27005775	-22.2235062	1
0 ALU 7750	Banorte	87 de la carretera	Colonia George	MX	34598	19.04330916	-98.75477019	4
0 ALU DMX	BBVA Bancomer	136 cacias avenida	Perezville	MX	17298	18,22464	-29.61351	1
	EDVA Earcorner	56 Sur la carretera	East Alto Bonito Colonia	CL	25678	17.67022342	-98.15992072	1
 Aviat Microwave 	EBVA Bancomer	62 San la carretera	Dellinger Colonia	80	17298	18.92274548	-99.15197446	3
0 Camblum 650	Benteler de México	66 Miravalle calle	Agteca Acres Colonia	80	25678	19.44233876	-98,90353389	3
	Seat Western Pogeda Freeman	00 Insurrentes calle	Tri-City Colonia Number 2	CL	17220	29,27657423	-22.24195198	3
O Cisco Equipment	Elblioteca	115 Good calle	Ratamosa	80	25678	19,334	-93,94636653	1
	Biblioteca Campeche	27 Lago calle	East Fresnos Colonia	CL.	34598	19.12224376	-98,96902165	1
_	Elbloteca Carlos Fuentes	26 Portales avenida	Sem Fordvoe	PL	17298	22.33407431	-22.34206533	1
🚺 Sites 🔷 🔨	Elbloteca Central Universitaria	120 Arro, Naples calle	Loma Linda Number 5 Colonia	PL	29270	19,20333612	-99.12509118	4
ADO Bus Terminal	Biblioteca de ESIQE	14 Valle Center avenida	Santel Colonia	80	25578	19.10343806	-99.30515982	1
	Biblioteca Enzo Levi	64 de la carretera	Mergarita Colonia	MX	34528	22,54214227	-29.00384166	4
9 Aduana Mexico Tilu;	Elbloteca Juan B. de Overzibal	90 Unidas la carretera	Saldivar Coloria	80	17290	19,25615069	-91,91499747	1
0 Alsuper	Biblioteca Nacional de Ciencia y Tecnología	96 Naciante avecida	Ala Blanca Colonia Number 3	MX	17298			0
	Biblioteca Nueva Madero	24 Narvarte avenida	Chana Colonia Number 3	CL.	34598	38,45336012	-98.51299629	
0 Arena Monterrey	Elbloteca Publica Central	111 Unidas la carretera	Obser	PL	32270	17.67022349	-95.15992072	
Auditorio Municipal	Biblioteca Pública Central	117 Vértiz calle	Cuellar Colonia Number 4	MX	34598	20.17255431	-99.99047621	
	Biblioteca Pública Municipal Ing, Manuel Bonill	116 cacias la cametera	Ranchito San Jose Colonia	80	34598	19.76253688	-98.31474985	1
Auto Hotel Peccato'	Elibioteca Estatal	The cacity of a carrenter a	Renorate Service Colonia Rin Brawn Colonia	80	34330	22.56164122	03.55475305	-
Avuntamiento Muni	Bimbo S.A. Planta Nazatlán	38 San calle	Del Har Heights Colonia	MX	25678	19.33005029	-99.25292482	
	Bin Bio Bio Bio	69 iztaccilvati la carretera	Villareal Colonia	80	25676	19.52183588	-99.5447245	
Ayuntamiento Muni								

3. Input the following information:



TIP: Pick a name that will help you easily identify the site in the future.

- Name. Create a custom name for this site.
- Address, City, State, and Zip

• Phone Number and Fax Number associated with this specific site.



- Latitude and Longitude. Input the latitude and longitude manually, or use the Google Map window at the bottom of the page to auto populate the information.
- **Notes**. Notes can be updated or changed at any time and include additional information related to this site.
- 4. When finsihed, click the **Save** button.

TIP: It is important to input latitude and longitude for sites, because not all devices will have this information individually assigned.

CONX

Device Types

The Device Type is the role a piece of equipment plays in the network. Many pieces of equipment can be the same make/model but have different device types. The Device Type determines what will be monitored and what data will be collected from that device. Devices can be grouped by Device Type for such purposes as creating fieldsets, collecting data, or reporting.

If you have already provided information to Conxx for your device types, many of the steps below will have already been completed. Navigate to the appropriate pages to verify or input the correct information.

Adding a Device Type

- 1. Select **Device Types** from the **Administration** drop-down menu.



2. Click the Add Entry button.

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GRID	Engineering V	Executive 🗸 Mapping 🗸 Custom Reports 🗸 Developer Tools 🗸	'	oot 🗸 📋	-
OBSERVER*		Device Types			
for Devices	Filter	AddEnty			
OWarn DError	Device Type		Manufacturer Alverian	Model GU-85	
	BreezeACCESS GUIDS ACS		ACS	3415	
Go	ADM STD	SONET		ADM STD	
	ADM XTD Alcatel	SONET MASS BOAR	Alcatel	ADM XTD 7710	
	Alcatel MPLS	TTO SR enables services providers to enhance IP transformation to greater edge for their network and it is designed especially for smaller PuPs, enterprise customer officers and distributed hub sites.	Alcatel	SR 7710	
ummary 🌣	alert text				
	Alertus ALU 6650	Ethernet Switch	Alcatel-Lucent	6650	
Backhaul Type \land	ALU 7750	MILS Poular	Alcatel-Lucent	TT50	
ADO Bus Terminal	ALU DHX	SONET	Alcatel	DHX Gateway	ë.
AR emergencias	ALU ESR Alvarion BreezeUltra	Asuter	Alcatel Alverion	ESRIUTE	
Auditorio Municipal	Abarion 5100 BU	The Base Unit is installed at one end of the PTP link and connects to a central server or to the Internet. The BU is composed of two parts - a universal indoor unit (IDU) and an outdoor unit (ODU).	Alverion	5200 SU	
Auto Hotel Peccato'	Alvarion B100 PB	The Remote Bridge is placed at the far end of the PTP link, connecting the end user to the centrally located BU. It is composed of two parts - an identical universal indoor unit (DU) and an outdoor unit (DU).	Alverion	8100 RB	
	APC APC	UPS Power	APC APC	UPS	
Banamex	APC UPS 3000	Hower / NOC UPS	APC	3000	
Bodega Aurrera	Aviat Microwave	Nicovare	Aviat	Aviat	
Gasolinera	80-05.11	Wieless	Alverion		
Gasolinera	Breeze Access VL 5.4 AU	Weekss	Alvarion	BAVE 5.4 AU	
	Breeze/ccess 900 //J		Alverion	BreezeAccess 900 AU	
Device Types 🔨	Breeze/Access 900 SU		Alverion	BreezeAccess 900 SU	ł
ACS	BreezeAccess AU 2.4	Wieless	Alverion	BreezeAccess AU 2.4	
alert_test ALLI6850	BreezeAccess AU 900	Wieless	Alverion	BreezeAccess AU 900	ł
	BreezeAccess 5U 2.4	Wreless	Alverion	SU 2.4	
ALU 7750	BreezeAccess 5U 900	Wieless	Alvarian	BreezeAccess SU 900	ł
ALU DMX Aviat Microwave	Breeze/ccess VL 5.3	Workers	Alverion	BAVL SJEAU	
Cambium 650	Breeze/ccess VL 5.8	The Access Units, installed at the Base Station site, provide all the functionality necessary to communicate with the Subscriber Units and to connect to the backbone of the Service Provider.	Alverion	BreezeAccess VL S.R.AU	ï
Cisco Equipment	BreezeAccess VL 5.8	The subscriber unit (30) installed at the outpress enables the outpress data interest on enables on enables of the outpress enables the outpress data interest and instanct services. The use of packet switching technology private sets uses with a convection to the access of the enables of the analysis. The subscriber unit provides an efficient platform for high speed internet and instanct services. The use of packet switching technology private sets uses with a convection to the enables of the alignment base access to beneficies.	Alverion	BreezeAccess VL 5-8 SU	ï
Sites ^	BreezeAccess VL 5.8 SU	Wieless	Alverion	VL 5.8 SU 3 M	b
ADO Bus Terminal	BreezeAccess VL 5.8 SU 24 Mb	Wieless	Alverion	VL 5.8 5U 24 Nb	
Aduana Mexico Tilu:	EreszeAccess VL 5.3 SU 54 Mb	Wieless	Alverion	VL 5.8 SU 54 Nb	
Alsuper	EreszeAccess VL 5.4 SU 6 Mb	Wislam	Alverion	VL 5.8 SU 6 M	ь
Arena Monterrey	BreezeCOH-BU- DS11	Winless			
Auditorio Municipal	BreezeCOM - RB- DS.11	Windess			
Auto Hotel Peccato' Avuntamiento Muni	BreezecoM - WBC- DS.11	Wieless			
Avuntamiento Muni	Bridgewave				

3. Input the following information:

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← → C https://godemo1.conex.net/views/equipment_type/details.cfm				ê	1
Administration V Operations V Engineering V Executive V Mapping V Custom F	Reports 🗸 🛛 Developer Tools 🗸			root 🗸 🔲 🗾	0
	Device Type Name			New Entry	
Search for Devices	Manufacturer	Model	Icon	Browse New	
Ook OWam OError			· •	Device Type Details	0
60	Device Type Description			or the type of the	-
	Device Type Description				
Network Summary 🌣					
182 0 0 Backhaul Type					
0 0 ADO Bus Terminal 0 0 AR emergencias	Available Interfaces				
0 0 Auditorio Municipal 0 0 Auto Hotel Peccato*					
0 0 Banamex	🛛 🚠 SNMP 🔲 🕼 Traps 🗆 >.	. SSH 🔲 🔠 Telnet 🗎 🥥 Web 🗎 🚔 SSL			
7 0 0 Bodega Aurrera 11 0 0 Gasolinera	Alert Thresholds				
4 0 Gasolinera	Latency	Loss %			
111 0 Device Types 🔨					
2 0 0 ACS 1 0 0 alert_test	Ping Type:	Dropped Pings to consider unreachal	ble		
3 0 0 ALU 6850		Max Attempts			
2 0 0 ALU 7750 70 0 0 ALU DMX	List of Indicator Values				
3 0 0 Aviat Microwave 22 0 0 Cambium 650					
112 0 0 Cisco Equipment					
1 Sites		Save			
3 0 0 ADO Bus Terminal					
0 0 Aduana Mexico Tiju: 0 0 Alsuper					
0 0 Arena Monterrey 0 0 Auditorio Municipal					
2 0 0 Auto Hotel Peccato'					
8 0 0 Ayuntamiento Muni S 0 0 Ayuntamiento Muni					
				TIP: You can	
Davias Turs Name					
 Device Type Name 				select any icon to	
				Sciece any icon to	

- Manufacturer
- Model
- Icon (select from the drop-down list)
- **Device Type Description** (information related to how the device is used)

TIP: You can select any icon to represent your device type, but it's best to use something that will be meaningful to you and other users.



4. Fill out the following information:

🔤 GO Demo 🛛 🗙 🕂				- σ ×	<
← → C @ https://godemo1.comc.net/views/equipment;	type/details.cfm			8 :	
Administration V Operations V Engineering V Exec	utive 🗸 Mapping 🗸 Custom Reports 🗸 Developer Tools 🗸			root 🗸 🔳 🖉 🛛	
GRID	Device Type Name				
				New Entry	
Search for Devices	Manufacturer	Model Ic	on	Browse New	
Ock Owarn O Error	Handiacturer	induer in	~	Elouse new	
Otx Owam Opror				Device Type Details	
60	Device Type Description				
	Device Type Description				
Network Summary					
182 0 0 Backhaul Type					
1 0 0 ADO Bus Terminal			A		
0 0 AR emergencias	Available Interfaces				
1 0 0 Auditorio Municipal 1 0 0 Auto Hotel Peccato	T town the second	_ SSH 🗉 🎟 Telnet 🗉 🥥 Web 🗉 🔒 SSL			
4 0 0 Banamex	an shime a traps of	_ SSH 🗆 🕮 Telnet 🗆 🖉 Web 🗆 🖬 SSL			
7 0 0 Bodega Aurrera	Alert Thresholds				
11 0 0 Gasolinera 4 0 0 Gasolinera					
	Latency	Loss %			
1111 0 1 Device Types A					
2 0 0 ACS 1 0 0 alert test	Ping Type:	Dropped Pings to consider unreachable			
3 0 0 ALU 6850		Max Attempts			
2 0 0 ALU 7750 70 0 0 ALU DMX					
70 0 0 ALU DMX 3 0 0 Aviat Microwave	List of Indicator Values				
22 0 0 Cambium 650					
112 0 0 Cisco Equipment		Save			
111 0 1 Sites					
3 0 0 ADO Bus Terminal					
1 0 0 Aduana Mexico Tiju: 0 0 Alsuper					
4 0 0 Arena Monterrey					
1 0 0 Auditorio Municipal					
2 0 0 Auto Hotel Peccato' 8 0 0 Ayuntamiento Muni					
5 0 0 Ayuntamiento Muni					

- * Available Interfaces (how that device type can respond)
- * Alert Thresholds
- 4. When finished, click the **Save** button.



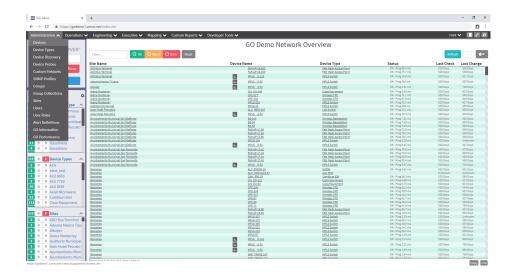
Devices

Devices are pieces of equipment. They are grouped by Site and Device Type (the role the Device plays in the network). Examples of Devices are switches or routers. Each time you add a new device you will need to specify its name, site, and type.

If you have already provided information to Conxx for your devices, many of the steps below will already have been completed. Navigate to the appropriate pages to verify or input the correct information.

Adding a Device

1. Select **Devices** from the **Administration** drop-down menu.



2. Click the **Add Entry** button.

10 Demo X	+					-	σ
C B https//godemot	.conoc.net/views/equipment/browse.cfm						E
inistration 🗸 Operations	 Engineering Executive Mapping 	✓ Custom Reports ✓ Developer Tools ✓				root 🗸	
GRID							
GRID OBSERVER®			Devices				
arch for Devices	Filter Add Entry						
Ok Owam OError	Device Name	IP Address	Site	Device Type	Latitude	Longitude	
	MPLS 8-100	192.368.152.300	Oficina de Correo Palacio Federal	HPLS Switch	19.67602572	-98.80750248	
Go	MP15 8-201	192.168.152.101	Inburae	HPLS Switch	18.64771018	-08.84020235	
	MPLS 6-102	192.168.152.102	Banamex	HPLS Switch	19:41216023	-99.18437798	
	NPL5_0-001	192.168.152.103	Cruz Roia Mexicana Delegacion Torreón	HPLS Switch	18.86446883	-98.52833142	
ork Summary 🌼	MPLS_8-30H	192.168.152.104	Embassy Suites	HPLS Switch	18.57025535	-98.6425444	
	MPLS 8-225	192.168.152.105	SI TIROS	HPLS Switch	18.5487076	-98,8956926	
0 Backhaul Type 🔨	MPLS 6-507	192,168,152,107	Elektra	MPLS Switch	18.7469051	-98.50285447	
0 ADO Bus Terminal	MPLS_8-000	192.168.152.108	Nelá	HPLS Switch	19.26820485	-99.30707463	
0 AR emergencias	MPLS 8-222	192,163,152,109	Pernez	HPLS Switch	19.06206292	-00.00530143	
0 Auditorio Municipal	MPLS 6-11	192.165.35.11	Hospital General Regional de Zitacuaro	HPLS Switch	18,88035686	-97.68620317	
0 Auto Hotel Peccato'	MPLS 611	192.168.152.11	Presidencia Municipal	MPLS Switch	19.15245608	-99.06131091	
0 Banamex	MPLS_8-110	192.168.152.110	ELBengaso	HPLS Switch	18.27338759	-98,17309374	
0 Bodega Aurrera	MPLS 8-111	192.168.152.111	Dista Americana	HPLS Switch	19,05059831	-98.2322902	
0 Gasolinera	MPLS 8-112	192,168,152,112	Liverpool Parque Delta	MPLS Switch	18.1470564	-97.01760193	
0 Gasolinera	MPLS_0-113	192,168,152,113	Unided Nédice Familier no.2	HPLS Switch	18.87328264	-99.36180322	
_	× MPLS 0-114	192.161.152.114	Liverspol Lindevista	HPLS Switch	18.9265067	-99.22928348	
Device Types 🔷 🔨	MPLS 6-115	192,168,152,115	ADO Bus Terminal	MPLS Switch	19.5612023	-98.05129146	
0 ACS	MPLS_0-119	192.168.152.119	Santander	HPLS Switch	18.00969767	-99.24454709	
0 alert_test	N MPLS 8-12	192, 161, 152, 12	Mercado de la Campestre	HPLS Switch	19.4099987	-99.20435474	
0 ALU 6850	MPLS 6-121	192,168,152,121	Mendoza's Paint & Body	MPLS Switch	19.18222147	-99.28539947	
0 ALU 7750	MPLS_8-122	192.568.152.122	caseta policia	HPLS Switch	19.57559231	-99.13179237	
0 ALU DMX	N HPLS 8-13	192.168.152.13	Palacio Nunicipal	MPLS Switch	19.22196199	-98.82594709	
0 Aviat Microwave	MPLS 6-135	192,168,152,135	HSBC	MPLS Switch	19.22692683	-98.58905867	
0 Cambium 650	MPLS_8-131	192.168.152.138	Tacos El Verui	HPLS Switch	19.22934521	-99.10397523	
0 Clsco Equipment	N MPLS 8-14	192,163,152,14	Bastaurant El Chillion	HPLS Switch	19.29500865	-09.26604297	
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1 Sites ^	MPLS 8-142	192.168.151.142	Torre Emoresarial	HPLS Switch	19.27268672	-99.02249762	
0 ADO Bus Terminal	N HPLS 8-15	192,163,152,15	Estafeta	HPLS Switch	18.71673102	-97.98341679	
0 Aduana Mexico Tiju:	MPLS 6-155	192.168.152.156	Cinemes Constituventes	MPLS Switch	19.52268501	-99.17160573	
0 Alsuper	MPLS_8-16	192.168.152.16	846-0	HPLS Switch	19.30507008	-99.13926351	
0 Arena Monterrey	MPLS 8-17	192.168.152.17	Pollo Feliz	HPLS Switch	19.31083885	-09.17431512	
0 Auditorio Municipal	MPLS 6-18	192,168,152,18	Bancomer	MPLS Switch	19.62654478	-99.21290301	
0 Auto Hotel Peccato'	MPLS_0-10	192.168.38.18	Aduana Nexico Tiluana	HPLS Switch	19.11441874	-99.30283364	
0 Ayuntamiento Muni	MPLS 8-22	192.168.38.19	Casino de la Cultura de Cultacán	HPLS Switch	19.66691344	-98.67409078	
0 Ayuntamiento Muni	MR15 6-33	102 102 102 10	Blaza América	MBI G Guidech	18 40136366	100 11110011	

3. Select the $\ensuremath{\textbf{Site}}$ for this device from the drop-down menu.

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4. Select the **Device Type** from the drop-down menu.

5. Input the following information:

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IP Address

• Name

Create a custom name for this specific device.

- Serial Number
- Latitude and Longitude. Either input location manually or use the Google Map search at the bottom of the page to find the site's location.

TIP: Pick a name that will help you easily identify the device in the future.



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6. Select the **SNMP Profile** for this device from the drop-down menu.

7. When finished, click the **Save** button.

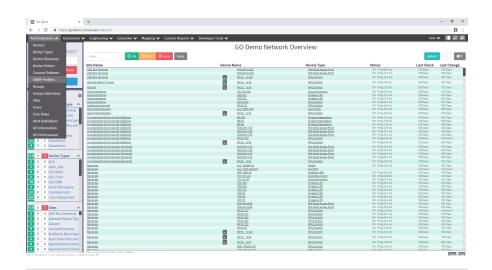


SNMP Profiles

SNMP (Simple Network Management Protocol) Profiles are used for device logins. Profiles can be applied to any device or device type. A profile contains the access credentials your system uses to communicate with the devices to which the profile is applied so you can make queries or changes. This feature provides a means for efficiently storing or changing authentication credentials. When SNMP credentials need to be updated, you can make changes in one place rather than having to change credentials for each device separately.

If you have already provided information to Conxx for your SNMP Profiles, many of the steps below will already have been completed. Navigate to the appropriate pages to verify or input the correct information.

Adding an SMP Profile

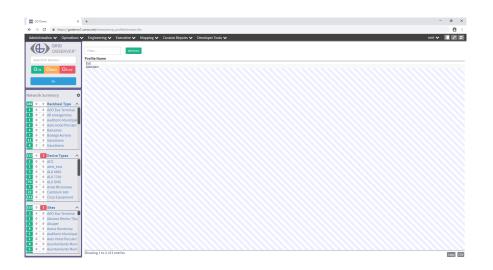


1. Select **SNMP Profiles** from the **Administration** drop-down menu.

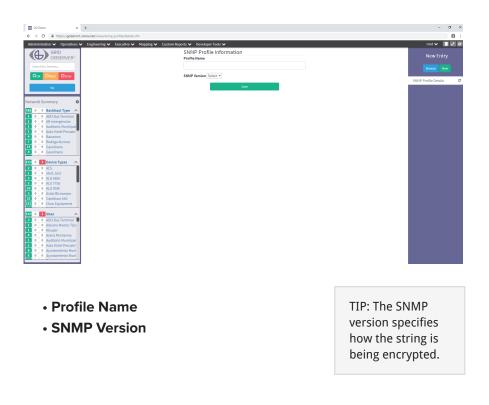
TIP: You can search for and edit existing SNMP Profiles by entering text in the Filter field.

CONX

2. Click Add Entry.

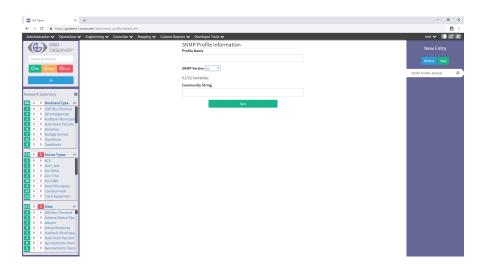


3. Input the following information:



4. Depending on the SNMP Version you are using, input the following information:

v1 or v2c: Community String



v3: Username, Authentication Protocol, and Privacy Protocol

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0 0 Alsuper 0 0 Arena Monterrey 0 0 Arena Monterrey 0 0 Addtorio Municipal		
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5. When finished, click the **Save** button.

ADD ADDITIONAL INFORMATION

After you've verified and added basic information, you can add details to the devices and sites within your GridObserver[®] network. Adding additional information allows you to customize resources for each device. You can add things like user manuals, maintenance records, instructions for accessing devices, or information that cannot be determined from queries.

There are three features you can use to attach additional information: custom fieldsets, uploads and documents, and journals. Complete the following sections to optimize GridObserver's functionality.

Custom Fieldsets

Custom Fieldsets are custom metadata labels that can be associated with either Sites or Device Types. Fields are completely free-form: you can add any kind of metadata you like, and fieldsets can be added to any device or site. The custom fields will show up on the details page of any Sites or Devices that you associate with that fieldset.

Fieldsets are used to include information that cannot be determined from an SNMP device query or information that would be useful when accessing a particular device or location.

Examples

Site: Info on tower height; PIN codes for entry to locked areas. *Device:* Name of the room it's located in; wifi broadcast name and password.

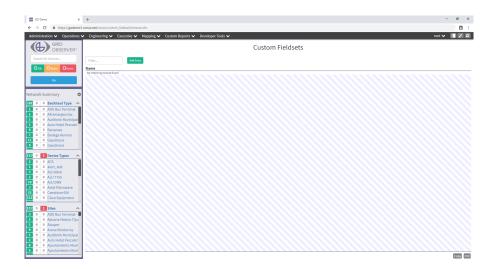


Adding a Custom Fieldset to a Device Type or Site

1. Select **Custom Fieldsets** from the **Administration** drop-down menu.

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2. Click Add Entry.



3. Input the **Name** of the Fieldset.

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TIP: The Name of the fieldset is the label for a group of fields. The name you use should make sense for all the fields you're including in that fieldset.

4. Click the **Save** button.

5. Input the **New Field Name** and click **Add**. You can add as many new fields as you want.

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6. In the menu on the right, click **Linked Entities** to add or edit device types or sites associated with this new fieldset.

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7. Use the Select a device type to link or Select a site to link dropdown menus to link the custom fieldset to device types or sites.

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GRID OBSERVER®	Linked Device Types	Linked Sites	Device Access
Search for Devices	Select a device type to link	Add Link Select a site to link	Add Link Browse New Delete
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60	1234 ACS		Linked Entities
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8. Click **Edit Devices** in the menu on the right to view every device with this fieldset and add or edit entries in the custom fields.

TIP: Custom fieldsets can also be filled out or edited in the Device's or Site's detail page.



Uploads and Documents

Uploads are files that can be associated with either Devices or Sites. Within Device Types, this feature is called Device Type Documents. An example of an Upload might be photos of the site or device, or the user manual.

Adding a New Upload or Document

1. Select **Devices** or **Sites** or **Device Types** from the **Administration** drop-down menu.

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Device Probes	Site Name	Device Name	Device Type
Custom Fieldsets	ADO Bus Terminal ADO Bus Terminal	FAN AP-16.162 FAN AP-16.163	FAN Mesh Access Point FAN Mesh Access Point
SNMP Profiles	ADO Bus Terminal	MPLS 8-115	MPLS Switch
Groups	Aduana Mexico Tijuana	<u>MPLS 8-18</u> <u>MPLS 8-53</u>	MPLS Switch
	Alsuper Arena Monterrey	MPLS 8-53 CIS E0-148	MPLS Switch Cisco Equipment
Group Collections		CPE-227	Wireless CPE
Sites	Arena Monterrey	CPE-231	Wireless CPE
vpe ^	<u>Arena Monterrey</u>	MPLS-203	MPLS Switch
Users	Auditorio Municipal Auto Hotel Peccato's	MPLS-22 ALU 6855-187	MPLS Switch LAN Switch
rminal	Auto Hotel Peccato's	MPLS 8-32	MPLS Switch
User Roles	Avuntamiento Municipal De Villaflores	BS-200	Wireless Basestation
Alert Definitions unicipal	Ayuntamiento Municipal De Villaflores	BS-34	Wireless Basestation
Peccato	Avuntamiento Municipal De Villaflores	BS-66	Wireless Basestation
GO Information	Ayuntamiento Municipal De Villaflores	FAN AP-17.58	FAN Mesh Access Point
	Ayuntamiento Municipal De Villaflores	FAN AP-17.59	FAN Mesh Access Point
GO Performance rera	Avuntamiento Municipal De Villaflores	FAN AP-17.60	FAN Mesh Access Point
11 0 0 Gasolinera	Avuntamiento Municipal De Villaflores	MPLS-134	MPLS Switch
	Ayuntamiento Municipal De Villaflores	MPLS 8-54	MPLS Switch
4 0 0 Gasolinera	Ayuntamiento Municipal San Fernando	FAN AP-17.42	FAN Mesh Access Point
	Avuntamiento Municipal San Fernando	FAN AP-17.43	FAN Mesh Access Point
1119 0 1 Device Types 🔨	Ayuntamiento Municipal San Fernando	FAN AP-17.44	FAN Mesh Access Point
	Ayuntamiento Municipal San Fernando	FAN AP-17.45	FAN Mesh Access Point
2 0 0 ACS	Ayuntamiento Municipal San Fernando	MPLS 8-52	MPLS Switch

2. Select a device or site or device type by clicking on its name in the table or searching for it in the Filter input field.

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	N HPLS 0-200	192.168.152.100	Oficina de Correo Palacio Federal	MPLS Switch	19.67602572	-98.80750248	
60	N HPLS_0-221	192.168.152.101	Inbursa	MPLS Switch	18.64771018	-93.64926935	
	MPLS_8-322	192.168.152.312	Banames	MPLS Switch	19.41216023	-99.18437798	
	N HPLS_8-223	192.168.152.103	Cruz Roja Mexicana Delegacion Torregen	MPLS Switch	18.86446883	-98.92833142	
k Summary 🌼 🌣		192.160.152.194	Embany Suites	MPLS Switch	18.57025535	-98,6425444	
0 Backhaul Type	HPL5_0-225	192.160.152.105	ALTIN: N	MPLS Switch	18.5407076	-90.0950926	
	N HPLS 6-227	192.368.152.317	Elektra	MPLS Switch	18.7469051	-98.92285447	
0 ADO Bus Terminal	N 11PLS_8-228	192.168.152.108	Melló	MPLS Switch	19.26620465	-99.30707463	
0 AR emergencias	N HPLS 8-329	192.568.152.109	Foxes	MPLS Switch	19.06206292	-99.06530143	
Auditorio Municipal	x 10%15 8-11	192.168.30.11	Hospital General Regional de Zitacuare	MPLS Switch	18.80035656	-97.68620317	
 Auto Hotel Peccato* 	N HPLS_0-11	192.160.152.11	Presidencia Municipal	MPLS Switch	13.15245608	-99.08191095	
0 Banamex	N HPLS 0-110	192.568.152.110	ELBergga	MPLS Switch	18.27338759	-98,17309374	
0 Bodega Aurrera	N HPLS_6-111	192.168.152.111	Fiesta Americana	MPLS Switch	19.45659831	-98.2222502	
0 Gasolinera	N 1915 8-112	192.198.152.112	Liveropol Parque Delta	MPLS Switch	18.1470564	-97.91760193	
0 Gasolinera	N 1945 6-113	192.568.152.113	Unided Médica Familiar no.2	MPLS Switch	18.87328264	-99.36380822	
	k HP15_0-114	192.068.152.114	Distropol Lindavista	MPLS Switch	18.9265067	-99.22929348	
1 Device Types	HPL5 0-115	192.108.152.115	ADD Bus Terminal	MPLS Switch	19.5612023	-98.05129146	
0 ACS	HPL5_0-119	192.108.152.119	Santander	MPLS Switch	18.86969767	-99.24454766	
0 alert_test	HPL5 0-12	192.160.152.12	Mercado de la Campestre	MPLS Switch	19.4399937	-99.20410474	
0 ALU 6850	N HPLS_6-121	192.568.152.121	Mendaza's Paint & Body	MPLS Switch	19.58222147	-99.28539947	
0 ALU 7750	N HPLS_8-122	192.568.152.122	caseta policia	MPLS Switch	19.57559231	-99.13179287	
0 ALU DMX	N 10915 8-13	192.168.152.13	Palacio Municipal	MPLS Switch	13.22136159	-98.82594709	
0 Aviat Microwave	N 1015 8-135	192.168.152.135	<u>H585</u>	MPLS Switch	13.22692683	-98.59905867	
0 Cambium 650	N HPL5 5-135	192.168.152.138	Tecco El Yezul	MPLS Switch	29.22934521	-99.10997523	
0 Cisco Equipment	HPL5_8-34	192.165.152.14	Restaurant El Chiflon	MPLS Switch	12.22500865	-99.25604297	
-	HPL5_0-341	192.160.151.141	Correos de Mexico	MPLS Switch	19.55942669	-90.00156336	
1 Sites	N 11PLS 0-142	192.368.151.342	Torre Empresarial	MPLS Switch	19.27269672	-99.02249762	
ADO Bus Terminal	N HPLS_0-15	192.168.152.15	Estafeta	MPLS Switch	18.71673102	-97.98341679	
0 Aduana Mexico Tiju:	NPLS_8-156	192.168.152.156	Cinemex Constituventes	MPLS Switch	19.52268501	-99.17160573	
0 Alsuper	N 1913 8-26	192.368.152.38	<u>H6-6</u>	MPLS Switch	23.30507008	-99.13926351	
Arena Monterrey	HP15_8-17	192.168.152.17	Pollo Feliz	MPLS Switch	22.31083885	-99.17431512	
Auditorio Municipal	HPL5_8-33	192.168.152.18	Bancomer	MPLS Switch	12.626544TB	-99.21290301	
Auto Hotel Peccato'	HPL5_8-33	192.165.30.18	Aduana Nexico Tituana	MPLS Switch	12.11441874	-29,30383364	
Ayuntamiento Muni	HPL5_0-19	192.160.30.19	Casino de la Cultura de Cullacán	MPLS Switch	19.60091944	-90.67496078	
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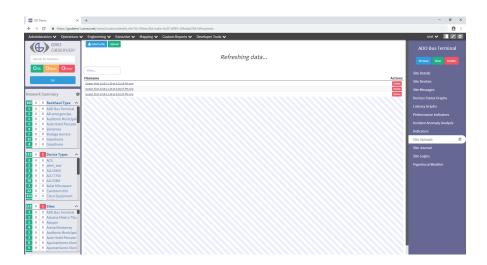


3. Select **Device Upload** or **Site Upload** or **Device Type Documents** from the menu on the right.

Device Upload option:

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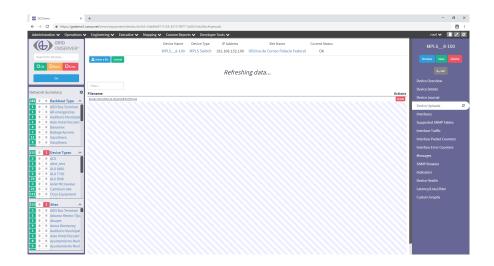




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4. Click **Select a File** and choose your file to upload.



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5. Click **Upload** after your file has been selected.

TIP: Uploads are organized alphabetically by file name.



Journals

Journals can be associated with either a Device or a Site. Journals allow you to continually add important information related to a specific Site or Device in the form of notes. This might include equipment changes, special precautions, updates, problems, or repairs. Journals are an easy way to track unique information associated with a piece of equipment or a location. Entries are timestamped and associated with the user who adds them.

Adding Journal Content

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istom Fieldsets	800 Bus Terminal		EAN AP-26,262	FAN Heah Access Point	OK - Ping 77.7 ma	530 Days	530 Days
IMP Profiles	ADD Bus Terminal		MPLS 6-115	MPLS Switch	OK - Ping 54.9 ms	\$30 Days	623 Days
	Aduana Mexico Tiluana	N	MPLS 8-18	MPLS Switch	OK - Ping 316 ms	\$30 Days	599 Days
oups	Alazes:	X	MPLS 8-53	MPLS Switch	OK - Ping 2.31 ms	530 Days	734 Days
oup Collections	Aresa Monterrey		CIS_E0-148	Cisco Equipment	OK - Ping 9.30 ms	\$30 Days	815 Days
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ype	Auditorio Nunicipal		MPL5-22	MPLS Switch	OK - Ping 512 ms	530 Days	557 Dava
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(III)	Avurtamiento Nunicipal De Vilañores		85-200	Wireless Desertation	OK - Pine 7.31 ms	530 Dava	564 Dava
ert Definitions unicipa	Ayuntemiento Municipal De Villaflores		55-34	Wireless Dependation	OK - Ping 7.30 ms	530 Days	695 Days
Peccato	Bruntemiento Municipal De Vilaflores		55-65	Wireless Basestation	OK - Ping 7.33 ms	530 Days	564 Days
Information	Auuntarviento Municipal De Villañores Auuntarviento Municipal De Villañores		FAN AP-17.55 FAN AP-17.59	FAN Mesh Access Point FAN Mesh Access Point	OK - Ping 73.8 ms OK - Ping 79.1 ms	530 Days 530 Days	550 Days 550 Days
Performance and	Avuntamiento Nunicipal De Vilaflores		EAN AP-17.60	FAN Mesh Access Point	OK - Ping 76.1 ms	530 Days	550 Days
	Avuntamiento Nunicipal De Villaflores		MPLS-134	MPLS Switch	OK - Ping 8.29 ms	\$30 Days	Linkoown
Ø Ø Gasolinera	Avuntamiento Municipal De Villaflores	N	MPLS 8-54	MPLS Switch	OK - Ping 8.41 mg	530 Dava	649 Dava
9 9 Gasolinera	Avuntamiento Nunicipal San Fernando		ENN AP-12.42	EAN Mesh Access Point	OK - Ping 79.6 ms	\$30 Davs	675 Davs
	Avuntamiento Municipal San Fernando		ENV/AP-17.43	EAN Mesh Access Point	OK - Ping 74.0 ms	\$30 Days	601 Days
0 1 Device Types	&vuntamiento Humicical San Fernando		EANLAP-17.44	EAN Hesh Access Point	OK - Ping 80.9 ms	530 Days	590 Days
		_	EAN AP-17.45	FAN Hesh Access Point	OK - Ping 80.4 ms	530 Days	591 Days
0 0 ACS	Avuntamiento Municipal San Fernando	N	MPLS 8-52	MPLS Switch	OK - Ping 5.67 ms	\$30 Days	703 Days
0 0 alert test	Iacamer		ALC: DWDM-18	DWDM	OK - Ping 4.81 ms	530 Days	553 Days
0 0 ALLI 6850	Eanamas Eanamas		ALU DHX-0.0.0.67 CAM 450-12	ALL DNG Cambium 620	OK - Pine 16.3 ms	Unknown 530 Dava	Unknown 591 Dava
0 0 ALU 7750	Lanamaz		CIS E0-112	Cisco Equipment	OK - Pine 6.55 mg	530 Days	415 Days
	Decempts.		CI5 EQ-34	Cisco Equipment	OK - Ping 6.75 mg	530 Dava	615 Dava
0 0 ALU DMX	Decement		CPE-205	Wireless CPE	OK + Ping 62.3 ms	530 Days	556 Days
0 0 Aviat Microwave	Benames		CPE-235	Wireless CPE	OK - Ping 22.9 ms	530 Days	559 Days
0 0 Camblum 650	Banames Banames		CPE-237 CPE-67	Wireless CPE Wireless CPE	OK - Ping 44.4 ms OK - Ping 61.7 ms	530 Days 530 Days	539 Days 539 Days
0 0 Cisco Equipment	Banamex		CPE-69	Wireless CPE	OK - Ping 43.4 ms	\$30 Days	556 Days
	Bacamex		CPE-71	Wireless CPE	OK - Ping 41.9 ms	\$30 Days	294 Days
	Escames		EAN AP-16.98	EAN Hesh Access Point	OK - Ping 84.7 ms	530 Days	533 Days
1 Sites	A Iacama		FAN AP-16.92 MPL5-127	FAN Heah Access Point	OK - Ping 70.5 ms	530 Days	533 Days
0 ADO Bus Terminal	Escartes Escartes		995-127 995-172	MPLS Switch MPLS Switch	OK - Ping 2.33 ms OK - Ping 45.1 ms	530 Days 530 Days	Unknown 557 Dava
			MPLS-185	MPLS Switch	OK - Pine 42.9 mg	530 Days	532 Dava
	Benerics		MPL5-222	MPLS Switch	OK - Ping 14.1 ms	530 Days	592 Dava
0 Alsuper	Benames		MPL5-223	MPLS Switch	OK - Ping 34.3 ms	530 Days	537 Days
0 Arena Monterrey	Benerica	_	MPLS-57	MPLS Switch	OK - Ping 2.19 ms	530 Days	823 Days
0 0 Auditorio Municipa	Denemos	N	MPLS 8-102	MPLS Switch	OK - Ping 2.74 ms	530 Days	802 Days
0 0 Auto Hotel Peccato		N	MPLS 8-31	MPLS Switch	OK - Ping 2.21 ms	530 Days	787 Days
			MPLS 0-01	MPLS Switch	OK - Ping 1.54 ms	530 Days	692 Days
0 0 Ayuntamiento Mur	Decement		SAR TRANS-147	MPLS Switch	OK - Ping 1.54 mg	530 Dava	760 Dava
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1. Select **Devices** or **Sites** from the **Administration** drop-down menu.

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	N 11PLS_8-222	192.568.152.302	Banames	MPLS Switch	19.41216023	-99.18437798
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0 Backhaul Type	HPLS 0-225	192.560.152.305	ELTIP: C	MPLS Switch	18.5407076	-90.8554926
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ADO Bus Terminal	NPLS_8-208	192.568.152.108	Melló	MPLS Switch	19.26620465	-99.30707463
0 AR emergencias	N HPLS_8-222	192.568.152.309	Perres	MPLS Switch	19.06206292	-99.06530143
Auditorio Municipal	N 10915 8-11	192.560.30.11	Hoseital General Regional de Zitacuero	MPLS Switch	18,80035686	-97.65620317
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0 Bodega Aurrera	N HPLS_0-110	192.560.152.110	EL Recoso	MPLS Switch	18.27338759	-90.17309274
Gasolinera	N HPLS_8-111	192.568.152.111	FiestaAmericana	MPLS Switch	19.65659831	-98.2322502
0 Gasolinera	N HPLS 8-112	192.568.152.112	Liveropol Parque Delta	MPLS Switch	18.1470564	-97,91760193
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Device Types	N HP15 8-114	192.568.152.114	Liverpool Lindavista	MPLS Switch	38.9265067	-99.22929348
0 ACS	N 197.5 5.114 N 197.5 5.115 N 197.5 5.112 N 197.5 5.121	192.568.152.115	ADO Bus Terminal	MPLS Switch	19.5612023	-98.05129146
0 ACS 0 alert test	HPLS_0-119	192.568.153.119	Santander	MPLS Switch	18.85969767	-99.24454786
0 ALLI 6850	HPL5 0-12	192.560.152.12	Mercado de la Campestre	MPLS Switch	19.4099937	-99.20418474
0 ALU 7750	HPLS_0-121	192.169.152.121	Mendaza's Paint & Body	MPLS Switch	19.59222147	-99.26539947
0 ALLIDMX	HPLS_8-322 HPLS_8-33	192.168.152.122	caseta policia	MPLS Switch	19.57559231	-99.13179287
0 Autor Microwave	N 10915 8-13	192.368.152.13	Palacia Municipal	MPLS Switch	13.22136199	-98.82594709
Camblum 650	MPL5 8-335	192.088.152.135	<u>H585</u>	MPLS Switch	13.22692683	-95.59905887
O Cisco Equipment	HPL5 8-233	192.368.152.138	Tecco El Yezul	MPLS Switch	29.22934521	-99.10397523
and equipment	HPL5_624	192.168.152.14	Exstaurant El Chiflon	MPLS Switch	13.23500865	-99.26634297
Sites ^	HPLS 0-141 HPLS 0-142	192.560.151.141 192.560.151.142	Correos de Mexico	MPLS Switch	13.55943659	-98.80156336 -99.02249762
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Alsuper	 MPLS 8-159 MPLS 8-28 	192.198.152.199	Cinemex Constituventes	MPL3 Switch MPLS Switch	19.32266901 23.30507006	-95.17190573 -95.13926351
Arena Monterrey	 HPLS 8-28 HPLS 8-27 	192.195.152.18	HE-6 Polo feliz	MPLS Switch MPLS Switch	19.30507006	-99.13926351 -99.17431512
Auditorio Municipal	HPL5_017	192,190,152,17	Earcorner	MPLS Switch	22.62054478	-99.21290305
Auto Hotel Peccato'	HPL5_023	192,100,152,10	Aduana Nexico Tiluana	MPLS Switch	22.02004410	-99.2020304
Avuntamiento Muni	HPL5_023	192,160,30,10	Casino de la Cultura de Cullacán	MPLS Switch	12.00001944	-92.5743554
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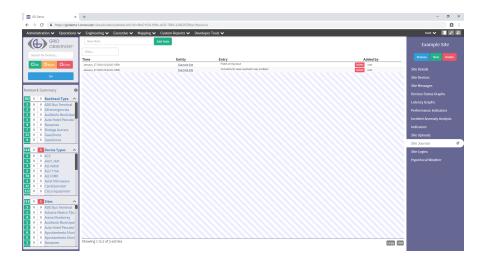
2. Select a device or site by clicking on its name in the table.

3. Select **Device Journal** or **Site Journal** from the menu on the right.

Device Journal option:

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	Lconsounet/views/equipment/details.cfm?id=5de48e9				8
	 Engineering Executive Mapping 	Custom Reports V Developer Tools V			root 🗸 🔲 🗹
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60	Time	Entity	Entry	Added by	Device Overview
	November, 29 2018 00:45:15 -0500	HPL5_6-200	replaced two wires broke switch	Delete root	
twork Summary 🌼	November, 29 2018 00:46:49 -5500	HPL5 8-300	Grove puvscn	Delete root	Device Details
0 0 Backhaul Type					Device Journal
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0 0 Auditorio Municipal 0 0 Auto Hotel Peccato'					
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0 0 Gasolinera					Interface Error Counters
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0 0 ACS					Messages
0 0 alert_test					SNMP Browser
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0 0 Cisco Equipment					Custom Graphs
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0 0 Auditorio Municipal					
0 0 Auto Hotel Peccato'					
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Site Journal option:



4. Write the journal entry in the **New Note** input field.

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TIP: Sort the Journal entries table by clicking on the column headers. Use the Filter field to narrow the entries in any of the categories.

5. Click the Add Note button to save your entry.

CONX[®]

MONITOR YOUR NETWORK

The main purpose of GridObserver[®] is to make it easy to monitor the health of your entire network. GridObserver's features allow you to organize and filter what you see so you can identify and locate errors rapidly. Monitoring your network with GridObserver also helps you identify devices or sites that are in a state of warning, allowing you to proactively prevent problems before they become disasters.

Complete the following sections to set up the probes that will identify problems and optimize your network functions.

Devices and Sites

The home screen shows the current status of all devices and sites. You can click on specific devices and sites or enter a filter parameter to narrow down the list. By frequently monitoring your devices and sites, you can quickly respond to status changes and reduce or prevent connectivity loss.

Monitoring Devices and Sites

Navigate to the **Home** screen by selecting the GridObserver logo.
 You can monitor all the devices and sites in your network from this screen.

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h for Devices	Site Name	Device Na	me	Device Type	Status	Last Check	Last Char
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Ontain Octob	ADD Bus Terminal		FAN AP-16.163	FAN Mesh Access Point	OK-Ping 77.7 ms	530 Days	S38 Days
	ADD Eus Terminal	N	HPL5 8-115	MPLS Switch	OK - Ping 14.9 ms	530 Days	623 Days
Go	Aduana Nexico Tiluana		HPLS 0-18	MPLS Switch	OK - Ping 316 ms	530 Dava	599 Davis
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ummary 🌣			091-227	Viceless CPE	OK-Ping 71.1 ms	530 Days	542 Days
unnary 🐺	Arera Honterny		025-221	Wireless CPE	OK-Ping 57.9 ms	530 Dava	612 Davis
	Acena Honterny		HPLS-203	MPLS Switch	OK - Ping 53.2 ms	530 Dava	619 Davis
Backhaul Type 🛛 🔨	Auditorio Hunicipal		HPLS-22	MPLS Switch	OK - Ping 129 ms	530 Days	557 Days
ADO Bus Terminal	Auto Hotel Peccato's		ALU 6855-187	LAN Switch	OK-Ping 13.1 ms	530 Days	858 Days
AR emergencias	Auto Hotel Peccato's		HPLS 8-32	MPLS Switch	OK - Ping 13.3 ms	580 Days	672 Days
	Avantamiento Municipal De Villaflores		85-200	Wireless Basestation	OK-Ping 7.31 ms	\$30 Days	S64 Days
Auditorio Municipal	Avuntamiento Municipal De Villaflores		83-34	Wireless Basestation	OK-Ping 7.30 ms	S80 Days	685 Days
Auto Hotel Peccato"	Avantamiento Municipal De Villaflores		83:66	Wireless Basestation	OK - Ping 7.33 ms	S80 Days	S64 Days
Banamex	Avuntamiento Municipal De Villafores		EAN AP-17.56 EAN AP-17.59	EAN Nesh Access Point	OK - Ping 73.8 ms OK - Ping 79.1 ms	S30 Days S30 Days	550 Days 550 Days
	Avuntamiento Municipal De Villaffores Avuntamiento Municipal De Villaffores		EAN AP-17.60	FAN Mesh Access Point FAN Mesh Access Point	OK - Pring 76.1 ms OK - Pring 76.1 ms	530 Days	S50 Days
Bodega Aurrera	Avantamiento Nunicipal De Vilafores		HPLS:134	MPLS Switch	OK-Ping 8.29 ms	530 Days	Unknown
Gasolinera	Avantamiento Municipal De Vilafores		HPLS 0.54	MPLS Switch	OK - Ping 8.41 mg	530 Dava	642 Dava
Gasolinera	Avurtamiento Municipal San Fernando	60	FAN AP-17-42	FAN Mesh Access Point	OK - Ping 79.6 mg	530 Dava	675 Davo
	Avuntamiento Municipal San Fernando		FAN AP-17.43	FAN Mesh Access Point	OK - Ping 74.0 mg	530 Days	601 Days
	Avuntamiento Municipal San Fernando		FAN AP-17.44	FAN Mesh Access Point	OK - Ping 80.9 mg	530 Davo	590 Devo
Device Types 🔷	Avuntamiento Municipal San Fernando		FAN AP-17:45	FAN Mesh Access Point	OK - Ping 80.4 ms	530 Days	591 Days
ACS 8	Avantamiento Nunicipal San Fernando		HPLS 8-52	MPLS Switch	OK-Ping 5.67 ma	530 Days	703 Days
alert test	Denemes	_	ALC DWDH-13	D/1201	OK - Ping 4.81 mg	530 Dava	553 Dava
	Denames		ALU DMX-0.0.0.67	ALU DMX		Unknown	Unknown
ALU 6850	Danamas		GAM 600-19	Cambium 650	OK - Ping 16.3 ms	530 Days	501 Days
ALU 7750	Generation		05 80-112	Cisco Equipment	OK - Ping 6.85 ms	530 Days	815 Days
ALL DMX	Sanames Sanames		05.00.24	Claco Equipment Wireless CPE	OK - Ping 6.75 ms OK - Ping 62.3 ms	530 Days 530 Days	815 Days 555 Days
Aviat Microwave	Ganames Ganames		CPE-205 CPE-235	Wireless CPE	OK - Ping 02.5 mg	530 Days	559 Days
	Denemos Denemos		075-227	Wireless CPE	OK-Ping 44.4 mg	530 Days	522 Deva
Cambium 650	Denemos		CPE-61	Wireless CPT	OK - Ping 61.7 ms	530 Dava	522 Dava
Cisco Equipment	Denames		CPE-60	Wireless CPT	OK - Ping 43.4 ms	530 Days	556 Days
	Canamas		<u>CPE-T1</u>	Wireless CPE	OK - Ping 41.9 ms	530 Days	794 Days
	Sanames Sanames		FAN AP-16.98 FAN AP-16.92	FAN Heah Access Point FAN Heah Access Point	OK - Ping 84.7 ms OK - Ping 70.5 ms	530 Days 530 Days	533 Days 533 Days
Sites ^	Ganames Ganames		PAN AP-16.02 HPL5-127	FAN Heah Access Point MPLS Switch	OK - Ping 70.5 ms OK - Ping 2.32 ms	530 Days 530 Days	533 Days Unknown
ADO Bus Terminal	Deterres Deterres		HP15-172	MPLS Switch	OK - Ping 2.55 ms	530 Days	557 Deva
Aduana Mexico Tilu:	Benemer .		HPLS-185	MPLS Switch	OK - Ping 42.2 mg	530 Days	532 Deva
	Denemos		HPL5-222	MPLS Switch	OK - Ping 14.1 mg	530 Dava	592 Deva
0 Alsuper	Denemes		HPL5-223	MPLS Switch	OK - Ping 34.3 ms	530 Days	537 Days
Arena Monterrey	Ganarius		HPL5-57	MPLS Switch	OK - Ping 2.23 ms	530 Days	823 Days
Auditorio Municipal	Banames		HPLS 0-102	MPLS Switch	OK-Ping 2.74 ms	530 Days	802 Days
Auto Hotel Peccato	Banames		HPLS 8-31	MPLS Switch	OK - Ping 2.21 ms	580 Days	787 Days
	Banarres		HPLS 8-61	MPLS Switch	OK - Ping 1.56 mg	530 Dava	682 Devo
Ayuntamiento Muni	Batamer		SAR TRANS-547	MPLS Switch	OK - Ping 1.54 mp	530 Days	760 Days
Avuntamiento Muni	Sataries Reserves		SAR TRANS-147	MPLS SWICH			



2. Click on the status quick-sort feature to see devices and sites that are in an **Ok, Warn,** or **Error** state.

The quick sort options are located to the left and center of the page.

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	ADD Bus Terminal ADD Bus Terminal		MPLS 0-115	HAN MEIN Access Hours HIPLS Switch	OK - Ping 77.7 ms	530 Days	623 Deva
Go	Aduana Mexico Tiluana		MPLS 0-10	HPLS Switch	OK - Ping 316 ms	530 Days	599 Days
	Hauper		MPLS 8-53	HPLS Switch	OK - Ping 2.31 ms	\$30 Days	734 Days
	Acena Honterrey	_	CIS EQ-148	Cisco Equipment	OK - Ping 8.30 ms	530 Days	815 Days
rk Summary 🌼	Acena Honteney		CPE-227	Wireless CPE	OK - Ping 71.1 ms	530 Days	542 Days
· · ·	écena Honterrey		CPE-211	Wireless CPE	OK - Ping 57.9 ms	530 Days	612 Days
0 Backhaul Type 🔨	Arena Hosterray		MPL5-202	MPLS Switch	OK - Ping 53.2 ms	530 Days	619 Days
	Auditorio Hunicipal Auto Hotel Peccato's		MPLS-22 ALU 6855-187	HPLS Switch LAN Switch	OK - Ping 129 ms OK - Ping 13.1 ms	530 Days 530 Days	SS7 Days 858 Days
ADO Bus Terminal							
AR emergencias	Auto Hotel Peccato's	2	MPLS 8-32	MPLS Switch	OK - Ping 13.3 ms	530 Days	672.Days
Auditorio Municipal	Avuntamiento Municipal De Villafiores		BS-200	Wireless Basestation	OK-Ping 7.31 ms	530 Days	S64 Days 685 Days
	Avuntamiento Municipal De Villafores		85:34 85:66	Wireless Basestation	OK - Ping 7.30 ms OK - Ping 7.33 ms	530 Days 530 Days	685 Days 564 Days
Auto Hotel Peccato"	Avantamiento Municipal De Villafores Avantamiento Municipal De Villafores		50:39 500.0P-17.58	Wireless Basestation FAN.Mesh.Access Point	OK - Ping 7.35 ms	S30 Days S30 Days	S50 Days
Banamex	Avuntamiento Municipal De Villafores		FAILAR-17.59	EAN MESH Access Point	OK-Ping 79.1 ms	530 Days	550 Davis
Bodega Aurrera	Avuntamiento Municipal De Villafiores		EAN AP-17.60	FAN Mesh Access Point	OK - Pieg 76.5 ms	\$30 Days	SS0 Davis
	Avantamiento Municipal De Villafores		MPLS-134	MPLS Switch	OK - Ping 8-29 ms	\$30 Days	Unknown
0 Gasolinera	Avuntamiento Municipal De Villaflores	2.	MPLS 8-54	NPLS Switch	OK - Ping 8.41 mg	530 Dava	649 Deva
Gasolinera	Avuntamiento Municipal Son Fernando		FAN AP-17.42	FAN Mesh Access Point	OK - Ping 73.6 ms	530 Dava	675 Devo
	Avuntamiento Municipal San Pernando		FAN AP-17.43	FAN Mesh Access Point	OK - Ping 74.0 ms	530 Dava	601 Devo
	Avuntamiento Municipal San Fernando		FAN AP-17.44	FAN Mesh Access Point	OK - Ping 80.9 ms	530 Dava	590 Devo
Device Types ^	Avuntamiento Nunicipal San Fernando		FAN AP-17.45	FAN Mesh Access Point	OK - Ping 80.4 ms	530 Days	581 Days
0 405	Avuntamiento Nunicipal San Fernando		MPLS 8-52	MPLS Switch	OK - Ping 5.67 ms	530 Days	703 Days
0 alert test	Danamas		ALC DWDM-18	DVDH	OK - Pine 4.82 ms	530 Dava	553 Deva
	Denamer		ALU 0100-0.0.0.67	ALU DMX		Unknown	Unknown
0 ALU 6850	Danamas		CAM 650-22	Cambium 650	OK - Ping 35.3 ms	530 Days	591 Days
0 ALU 7750	Denemes		<u>CIS_EQ-112</u>	Cisco Equipment	OK - Ping 6.86 ms	530 Days	815 Days
0 ALU DMX	Danamas		515-50-34	Gisco Equipment	OK - Ping 6.75 ma	530 Days	815 Days
	Denemes Denemes		CPE-205 CPE-235	Wireleas CPE Wireleas CPE	OK - Ping 62.3 ms OK - Ping 22.9 ms	530 Days 530 Days	556 Days 559 Days
0 Aviat Microwave	Danamers Danamers		CPE-237	Wreless CPC	OK - Ping 22.5 Hs	530 Days	532 Deva
0 Cambium 650	Danamers		CPE-87	Wreless CPC	OK - Ping 61,7 mg	530 Days	539 Days
Cisco Equipment	Denemes		CPE-02	Wireless CPE	OK - Ping 43.4 ma	530 Days	556 Days
 cosco capalprinente 	Bahamas		CPE-71	Wreless CPC	OK - Ping 41.9 ms	530 Days	794 Days
_	Banamers		TAN AP-16.00	FAN Mesh Access Point	OK - Ping 84.7 ms	530 Days	533 Days
1 Sites ^	Danamas		TAN AP-15.22	TAN Mesh Access Point	OK - Ping 70.5 ma	530 Days	533 Days
0 ADD Bus Terminal	Danamas		MPL5-127	MPLS Switch	OK - Ping 2.30 ms	530 Days	Unknown
	Denemes Denemes		MPL5-172 MPL5-185	HPLS Switch HPLS Switch	OK - Ping 43.1 ms OK - Ping 43.9 ms	530 Days 530 Days	557 Days 532 Days
0 Aduana Mexico Tiju:	Danames Danames		MPL5-222	HPLS Switch HPLS Switch	OK - Ping 43.9 ms OK - Ping 34.3 ms	530 Days 530 Days	539 Days 592 Days
Alsuper	Danamas Danamas		MPL5-222	HPLS Selfch	OK - Ping 34.3 ms	530 Days	537 Deva
Arena Monterrey	Denemes		MPLS-57	MPLS Switch	OK - Ping 2.19 ms	530 Days	823 Deva
	Banames		MPLS 8-102	HPLS Switch	OK - Ping 2.74 ms	530 Days	802 Davis
Auditorio Municipal							
Auto Hotel Peccato'	Banames	2	MPLS 8-31	MPLS Switch	OK-Ping 2.21 ms	530 Days	787 Deys
0 Ayuntamiento Muni	Banames	N	MPLS 8-81	HPLS Switch	OK - Ping 1.56 ms	530 Days	682 Days
Ayuntamiento Nuni Ayuntamiento Muni	Banames		SAR TRANS-147	MPLS Switch	OK - Ping 1.54 ms	530 Davs	760 Davis

3. Select the gear icon in the top right corner above the table to customize the columns shown. In the drop-down menu, select and deselect the columns you want visible.

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TIP: Click the column headings to sort items in that field. 4. To see the most current information, click the Refresh icon at the far right of the top menu.





Group Collections

Group Collections are groups of devices or sites displayed in the left side bar. Two collections exist by default: Device Types and Sites. Default and custom collections and their content are displayed in alphabetical order. Content in the left sidebar is always visible (except when you change your display to hide the side menus), so create collections of what is most important for your operations.

All existing collections can be edited at any time except the default collections, Device Types and Sites. Default collections include every device type or site in the network. To add a collection to the left sidebar, complete the following:

Adding a Collection to the Left Sidebar

1. Select **Group Collections** from the **Administration** drop-down menu.

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	ADD Bus Terminal	N	MPLS 8-115	MPLS Switch	OK - Ping 14.9 ms	S28 Days	621.0 8/5
MP Profiles	Advana Mexico Tilvana		MPLS 0-18	MPLS Switch	OK - Ping 316 ms	528 Days	597 Dava
NIDS							
oho	Alasta:		<u>HPLS 8-53</u>	MPLS Switch	OK - Ping 2.31 ms	528 Days	732 Days
sup Collections	Arena Monterrer Arena Monterrer		CI5 E0:143 CPE-227	Cisco Esujornent Wireless CPE	OK - Ping 3.30 ms OK - Ping 71.1 ms	528 Days 528 Days	813 Days 540 Days
	Arena Montecier		CPE-231	Writess CPE	OK - Ping 57.9 ms	528 Days	610 Days
5	Arena Mantecory		MPLS-203	MPLS Switch	OK - Ping 53.2 ms	\$28 Days	618 Days
	Autoria Municipal Auto Hotel Percento's		MP19-22	MPLS Switch	OK - Ping 129 ms	\$28 Days \$28 Days	SSS Days 856 Days
rminal	Auto Hotel Peccato's		MU 6655-187 MPLS 8-32	MPLS Switch	OK - Ping 13.1 ms OK - Ping 13.3 ms	528 Days	670 Days
r Roles nclas	Avantamiento Municipal De Villafiones	24	85-200		OK - Ping 2.31 ms	528 Days	Sil Davs
t Definitions unicipa	Avustamiento Municipal De Villafores		85-24	Wireless Basestation Wireless Basestation	OK - Ping 7.31 ms OK - Ping 7.30 ms	S28 Days	692 Days
Peccato			05-66	Wreless Essentation	OK - Ping 7,33 ms	528 Dava	562 Dava
Information			TAN AP-17.58	TAN Mesh Access Point	OK - Ping 73.8 ms	528 Days	540 Days
	Avuntamiento Municipal De Villafiores		EAN AP-17.52	TAN Mesh Access Point	OK - Ping 79.1 ms	528 Days	540 Days
Performance rera	Avantamiento Municipal De Villañores Avantamiento Municipal De Villañores		PAN AP-17.00 NP15-134	FAN Mash Access Point MPLS Switch	OK - Ping 76.1 ms OK - Ping 8.22 ms	528 Days 528 Days	548 Days Unknown
Gasolinera	Avustamiento Hunicipal De Villafores		MPLS 0.54	MPLS Switch	OK - Ping 8.41 ms	528 Days	647 Dava
0 Gasolinera	Avuntamiento Municipal Sen Pernando		TAN AP-17-A2	PAN Mesh Access Point	OK - Ping 241 ms	528 Days	673 Dava
	Avurtamiento Hunicipal San Pernando Avuntamiento Municipal San Pernando		PAN AP-11-43	PAN Mesh Access Point	OK - Ping rico ma	528 Days	600 Dava
-	Avantemiento Municipal San Pernando		PAN AP-17.44	TAN Mesh Access Point	OK - Ping 100 mg	528 Dava	500 Days
Device Types	A Bruntamiento Hunicipal San Pernando		FAN AP-17.45	FAN Mesh Access Point	OK - Ping 80.4 ms	528 Days	589 Days
0 ACS	Avuntamiento Municipal San Fernando		MPLS 8-52	MPLS Switch	OK - Ping 5.67 ms	528 Days	701 Days
0 alert test	Decembra -	_	ALC DWDH-18	DWDM	OK - Ping 4.81 ms	528 Days	551 Days
	Benarrex		ALU DMR-0.0.0/67	ALU DHX		Unknown	Unknown
0 ALU 6850	Benames		CAM 650-19	Cambium 650	OK - Ping 16.3 ms	528 Days	589 Days 813 Days
0 ALU 7750	Beneries Beneries		CS E0-112 CS E0-34	Cisco Esujornent Cisco Esujornent	OK - Ping 6.86 ms OK - Ping 6.75 ms	S28 Days S28 Days	813 Days 813 Days
ALU DMX	Becentex		CPE-205	Wireless CPE	OK - Ping 62.3 ms	\$28 Days	\$54 Days
Aviat Microwave	Bacamex		CPE-225	Wireless CPE	OK - Ping 22.9 ms	S28 Days	\$\$7 Days
Cambium 650	Bacamex		GPE-227	Wireless CPE	OK - Ping 44.4 ms	\$28 Days	\$38 Days
	Bacamex Bacamex		CPE-67 CPE-69	Wireless CPE Wireless CPE	OK - Ping 61.7 ms OK - Ping 40.4 ms	528 Days 528 Days	537 Days 554 Days
Clsco Equipment	Decement Control of Co		GPE-TL	Wireless CPC	OK - Ping 41.9 ms	528 Days	723 Dava
	Decement Sectors		FAN AP-16.90	TAN Mesh Access Point	OK-Ping 4L1 m	528 Dava	531 Dava
1 Sites	A Decemen		FAN AP-16.99	TAN Mesh Access Point	OK - Ping 70.5 ms	528 Days	531 Days
ADO Bus Terminal	Enteres .		MP15-127	MPLS Switch	OK + Ping 2.10 ms	528 Days	Unknown
			MPL5-172 MPL5-185	MPLS Switch MPLS Switch	OK - Ping 45.1 ms OK - Ping 40.0 ms	528 Days 528 Days	555 Days 537 Days
0 Aduana Mexico Tiji	u: Beneries		MPLS-222	MPLS Switch	OK - Ping 14.1 ms	S28 Days	590 Days
0 Alsuper	Beneritex		MPLS-223	MPLS Switch	OK - Ping 34.3 ms	\$28 Days	536 Days
Arena Monterrey	Beneries		MPLS-57	MPLS Switch	OK - Ping 2.19 ms	S28 Days	821 Days
Auditorio Municipa	Decement .	2	MPLS 8-102	MPLS Switch	OK - Ping 2.74 ms	528 Days	800 Days
			MPLS 8-31	MPLS Switch	OK - Ping 2.21 ms	528 Days	785 Days
Auto Hotel Peccate	No. of the second se		NPLS 0-01	NPLS Switch	OK - Ping 1.55 ms	528 Dava	621 Dava
 Ayuntamiento Mur 	1 Dependent	13	SAR TRANS-147	MPLS Switch	OK - Ping L54 mg	528 Days	758 Dava
0 Avuntamiento Mur	1 Recent		DAR TRANSPORT	MPLO 201920			

2. Click the Add Entry button.

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TIP: To edit an existing collection, click on the collection and select groups to add or remove them from the collection.

3. Enter a title for the collection in the **Enter Collection Title** form field.

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4. Select the checkboxes by the groups, sites, or devices you would like to include in this collection.

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70 0 0 ALU DMX	Boca de Iguanas 1	
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TIP: Membership Count refers to the number of individual items in a collection or group.

5. When finished, click the **Save Collection Changes** button.

Reporting

Reporting is the main purpose for GridObserver. Actionable intelligence can improve the quality, reliability, and health of any network. GridObserver's extensive data collection and reporting capabilities provide useful information for many departments in your organization:

- Network operations staff
 - Day-to-day network issues
- Network engineering
 - Key data (historical and current) that can inform engineering and design considerations to accommodate growth and network changes
- Corporate- and management-level decision makers
 - Track the effectiveness of network investments and determine where to invest for optimal results .

Some standard reports come as a default in GridObserver. You can find them in the **Operations** drop-down menu.

Examples of standard reports include the following:

- Problem identification
- Configuration variances
- Utilization
- Trends
- Performance parameters
 - Latency average
 - Latency speed
 - Loss (connection problems)
 - Overall availability (uptime)

In addition to standard reports, you can create and configure custom reports that show any trackable data in whatever format you find most useful. Conxx can work directly with you to help with this process.



Creating a Custom Report

1. Select Custom Report Builder from the Operations drop-down menu.

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	▲ Engineering ♥ Executive ♥ Mapping ♥ Custom Reports ♥ De	veloper Tools 🗸				root	
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arch for Devices. Report: Av	railability						
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lok Dwam Report: Lo			FAN AP-36,362 FAN AP-36,363	FAN Hesh Access Point FAN Hesh Access Point	OK - Ping 92.4 ms OK - Ping 77.7 ms	530 Days 530 Days	530 Days 530 Days
			MPLS 8-115	MPLS Switch	OK - Ping 14.9 ms	530 Days	623 0 8/5
Go Interface /	Analysis		MPLS 8-18	MPLS Switch	OK - Ping 316 ms	530 Days	599 Davs
	essage Search	6	05 00-148	Cisco Equipment	OK - Ping 8.30 ms	530 Dava	415 Days
			CPE-227	Wineless CPE	OK - Ping 71.1 ms	530 Days	542 Days
Report: M	essages Volume Summary		CPE-231	Ministan CPE	OK - Ping 57.9 ms	530 Days	612 Days
			MPL5-202	MPLS Switch	OK - Ping 53.2 ms	530 Days	619 Days
	eport Builder		MPL5-22 ALU 6555-167	MPLS Switch LAN Switch	OK - Ping 129 ms OK - Ping 13.1 ms	530 Days 530 Days	557 Days 655 Days
0 0 Backha Ping Time	,		MPLS 8-32		OK - Ping 13.1 ms	530 Days	672 Days
0 ADO Bu				MPLS Switch			
0 AR eme Tool: MAC	Lookun		<u>85-200</u>	Wireless Description	OK - Ping 7.31 ms	530 Days	564 Days
A AN CIDE	<u> </u>		85-34 85-65	Wireless Exceptation Wireless Exceptation	OK - Ping 7.30 ms OK - Ping 7.33 ms	530 Days 530 Days	695 Days 564 Days
	NMP Browser		FAN AP-17.58	FAN Mesh Access Point	OK - Ping 73.8 ms	530 Days	550 Days
Auto Ho			EAN AP-17.59	FAIL Hesh Access Point	OK - Ping 79.1 ms	530 Days	\$50 Davs
0 Baname MIB Table	Report		FAN AP-17.40	FAN Mesh Access Point	OK - Ping 76.1 ms	530 Days	\$50 Davs
	Augustanianto Municipal De Villadores		MPL5-134	MPLS Switch	OK - Ping 8.29 ms	530 Days	Unknown
0 Bodega Aurrera	Avuntamiento Municipal De Villaflores		MPLS 8-54	MPLS Switch	OK - Ping 8.41 ms	530 Days	649 Days
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o Gazonnena	&runtamiento Nunicipal San Fernando		EAN AP-17.44	TAN Hesh Access Point	OK - Ping 80.9 ms	530 Days	590 Days
	Avuntamiento Nunicipal San Fernando		EAN AP-17.45	TAN Heah Access Point	OK - Ping 80.4 ms	530 Days	591 Days
Device Types 🔨	Avuntamiento Municipal San Fernando	N	MPLS 8-52	MPLS Switch	OK - Ping 5.67 ms	530 Days	703 Days
0 ACS	Decement	_	ALC DWDM-18	200200	OK - Ping 4.81 ms	530 Dava	553 Dava
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0 alert_test	Eanamez		CAM 650-12	Cambium 650	OK - Ping 35.3 ms	530 Days	591 Days
0 ALLIGRSD	Escartes		CIS EQ-112	Cisco Equipment	OK - Ping 6.86 ms	530 Days	815 Days
0 ALU 7750	Estamos		CI5_EQ-34	Cisco Equipment	OK - Ping 6.75 ms OK - Ping 62.3 ms	530 Days	815 Days 556 Days
	Banames Banames		CPE-205 CPE-235	Wireless CPE Wireless CPE	OK - Ping 82.3 ms OK - Ping 22.9 ms	530 Days 530 Days	556 Days 559 Days
0 ALU DNX	Bacanex		CPE-237	Wireless CPE	OK - Ping 45.4 ms	\$30 Days	\$39 Days
0 Aviat Microwave	Bacamex		CPE-67	Wireless CPE	OK - Ping 61.7 ms	530 Days	539 Davs
0 Camblum 650	Bacamer		CPE-89	Wireless CPE	OK - Ping 43.4 ms	530 Days	SS6 Days
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0 Cisco Equipment	Earama		EAN AP-25.20	TAN Hesh Access Point	OK - Ping 84.7 ms	530 Days	533 Days
	Eanamaz		EAN AP-35.22	TAN Heah Access Point	OK - Ping 70.5 ms	530 Days	533 Days
Sites ^	Decement		MPL5-127	MPLS Switch	OK - Ping 2.00 ms	530 Days	Unknown
	Earantez Earantez		MPL5-172 MPL5-185	MPLS Switch MPLS Switch	OK - Ping 43.1 ms OK - Ping 43.9 ms	530 Days 530 Days	557 Days 539 Days
ADO Bus Terminal	Berenox		MPL5-222	MPLS Switch	OK - Ping 40.5 ms	530 Days	530 Days 592 Days
9 Aduana Nexico Tilu:	Banamex		MPLS-223	MPLS Switch	OK - Ping 34.3 ms	530 Days	537 Days
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0 Auto Hotel Peccato'							
Acountamiento Muni	Lanamaz	N	MPLS 0-01	MPLS Switch	OK - Ping 1.56 ms	530 Days	692 Days
	Estates		SAR_TRANS-147	MPLS Switch	OK - Ping 1.54 ms	530 Days	760 Days
	Estation		SAR TRANS-247	MPLS Switch	OK - Ping 1.50 ms	530 Days	759 Days
0 Ranamex	Bancomer		ALU. 6855-51	LAN Switch	OK - Ping 4.32 ms	530 Days	732.0avs

2. Select the device types you would like to include in the custom report from the **Select Device Type** drop-down menu on the right.



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3. Select the information that you would like included in the report by choosing columns from the **Select Columns** list.



4. Click Generate Report.

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GRID OBSERVER*	Device Name	Site	Timestamp	Alarm Level	IDU Serial Number	IDU Part Number	Latitude	Longitude	Name	RX Frequency	SNMP Engine ID	TX Frequency	Select Device Type-
iearch for Devices	Tex. 127 MondBillion	Nillens:	2017-10-20 (17:53:24)	5	127	127	-	-10.76875		11645000,11405000	No Such Object available on this agent at this OID	11155000,10915000	Select Device Type
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rk Summary 🌼 🌣	100.10.075	Second Sect. St.	2017-10-20	6	127	127				19380000,19540000	on this agent at this UID	17820000.17940000	
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0 Arena Monterrey													



Base station - Multipoint radio that serves as a hub to which multiple endpoints can connect.

CPE - Customer premise equipment such as a subscriber radio, or a remote switch on a premise.

Geocode - Process return codes by location.

IANA - Internet Assigned Numbers Authority - Global IP authorization.

Jitter - Interruptions during a probe.

Latency - An expression of how much time it takes for a packet of data to get from one designated point to another. In some environments, latency is measured by sending a packet that is returned to the sender; the round-trip time is considered the latency.

Loss - Packet loss occurs when one or more packets of data travelling across a computer network fail to reach their destination. Packet loss is either caused by errors in data transmission, typically across wireless networks or network congestion.

Machine Learning- A process whereby a system will take multiple data inputs into learning algorithms in order to identify actionable intelligence that would otherwise go undetected.

Management Tree - NIBs are chosen by operators in an organized directory.

MOM - Manager of Managers, typically

CONX

NIBs (Network Information Base) - Basic expression that can be built upon

Nodes - Either a redistribution point or a communication endpoint. The definition of a node depends on the network and protocol layer referred to.

OIDS (Object identifier) - Specific feature of a device that can be tracked.

Packet - Expressions in probe

Probe - Track alerts from device types over and over again.

Protocol - A set of rules by which data communications occur.

Remote site - A remote endpoint on a wide-area network.

SAIDI & NSAIDI - System Average Interruption Duration Index. This indicates the duration of an outage. (NSAIDI is a term that is established by GridObserver and adds the word "network" to the beginning of the name.)

SAIFI & NSAIFI - System Average Interruption Frequency Index. This indicates the duration of an outage. (NSAIDI is a term that is established by GridObserver and adds the word "network" to the beginning of the name.)

Site - Location with multiple devices.

SNMP - Simple Network Management Protocol

SNMP Table - Network tree of expressions

Subscriber - An endpoint radio that communicates back to a base station.



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