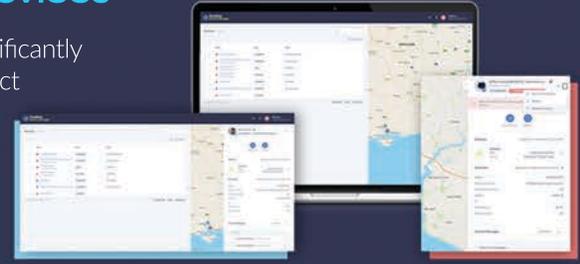


## Monitor, Maintain and Troubleshoot Your Remote Devices

Cloudloop Device Manager (CDM) is a secure, cloud hosted, solution designed to significantly reduce the cost of managing remote satellite communications assets. It provides a direct connection to device status information and management tools via an easy to navigate web user interface.

IoT / M2M customers can remotely access, diagnose and manage the functionality of devices deployed in hard-to-reach, or physically dangerous locations using a laptop or any other connected device from the comfort of their office.

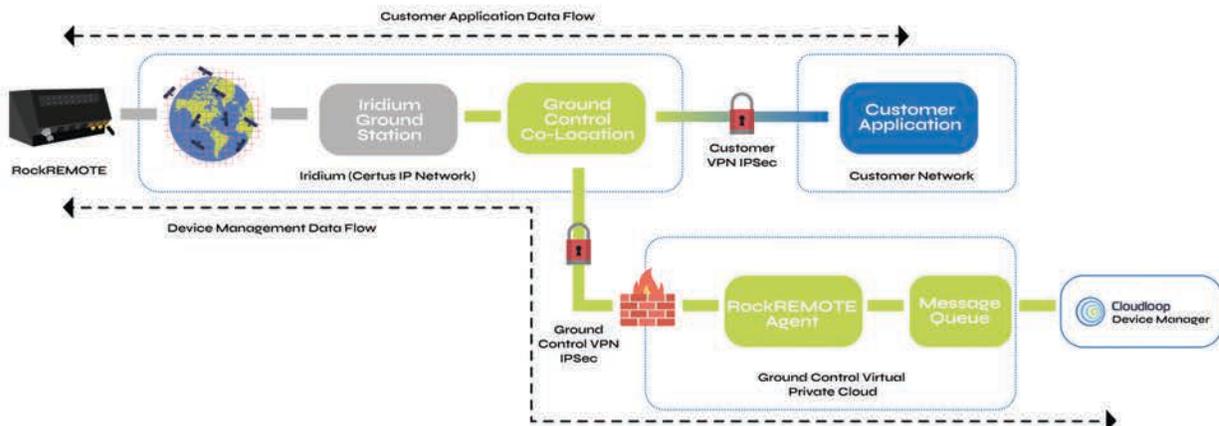


## Key features

- Monitor the health status of your remote device(s) and get up-to-date, essential, device information
- Create custom device connection alerts and notifications
- Access service and system logs to enable remote troubleshooting
- Initiate basic command functions
- Complete Over The Air (OTA) software updates
- Reduces cost of remote satellite asset management by reducing the need for engineer visits to remote locations

## Keeping your data secure

Combined with the Ground Control Delivery Network, CDM provides a truly secure connection to devices, properly segregating communications data from device information while providing unparalleled insight into deployed devices.



## Part of the Cloudloop ecosystem

Part of the Cloudloop services suite, Device Manager combines device and subscription data to provide a rich view of remote devices without needing to send an engineer to site. Click-through from each device to:

- Manage the activation, deactivation, and suspension of your subscribed devices
- View real time and historical usage data
- View and manage billing of your services
- Create custom alerts for usage and expenditure
- Monitor your communications in real time

## Devices that can be managed in CDM

All BGAN and BGAN M2M devices, plus the Iridium Certus 100-enabled RockREMOTE.



• Explorer 510



• Explorer 540



• Explorer 710



• Hughes 9502



• Hughes 9202

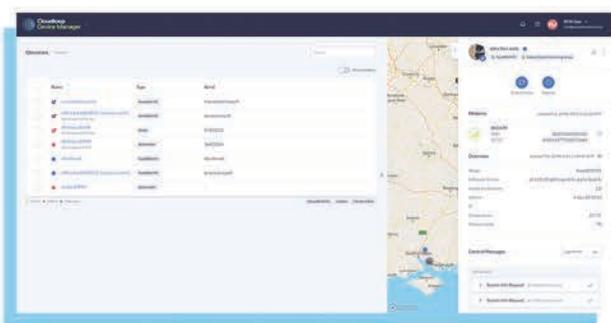
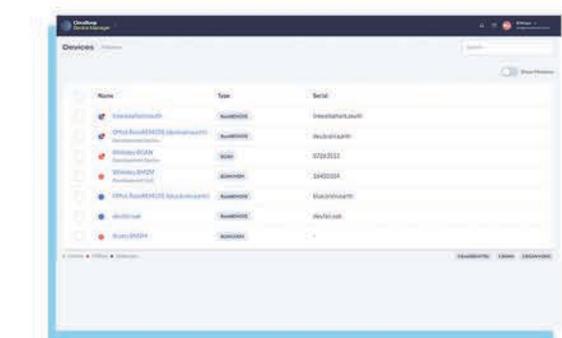


• RockREMOTE

	Iridium Certus 100	BGAN M2M	BGAN
<b>Connection Method</b>			
Out of Band	IMT	SMS	SMS
Direct IP	✓	✓	✓
<b>Monitoring &amp; Alerts</b>			
Traffic Monitoring & Alerts	✓	✓	✓
Set & Update Location	✓	✓	✓
<b>System Information</b>			
Device System Information	✓	✓	✓
Satellite Modem Information	✓	✓	✓
Cellular Modem Information	✓	✓	N/A
<b>Status Information</b>			
Connection Status Information	✓	✓	✓
Device Status Information	✓	N/A	N/A
Device Log Retrieval	✓	✓	✓
<b>Management Actions</b>			
Reboot Device	✓	✓	✓
Remote Software Update	✓	✓	✓
Initiate IP Connection	N/A	✓	✓
Remote Configuration	N/A	✓	✓

## Connection Method

CDM utilises out-of-band connectivity to provide a reliable, secure, and separate communication channel that allows administrators to remotely manage or troubleshoot devices.



## Monitoring & Alerts

Create custom device connection alerts and email notifications based on when a device last transmitted data over the satellite network.

Devices can be monitored individually or added to a monitoring group.

## System Information

System information about the device, software and the communications modules within the device.

## Status Information

Status information about the device and its connection to the network; includes the ability to obtain more detailed information for troubleshooting purposes.

## Management Actions

Tools to enable remote management of the device, from a simple device reboot to managing software versions and updating device configurations.