

Device Settings View

The screenshot displays the 'CHANGE DEVICE' page in the Zequence CONTROL admin portal. The page is for a device with ID 236690, model 149182-WRT1900ACS-18E10604600470, and status 'Up'. The left sidebar shows navigation options like Dashboard, Inventory, and Settings. The main content area is titled '1- DeviceInfo General [USP]' and contains the following information:

- OS: prpIOS 4.2.0-2935885d r30213-2935885de8
- Model:DeviceInfo:SerialNumber: SN149182B8A789
- Model:DeviceInfo:HardwareVS: mvebu/cortexa9
- Model:DeviceInfo:Manufacturer: linksys
- Model:DeviceInfo:ManuFOU: 149182
- Model:DeviceInfo:ModelName: Linksys WRT1900ACS
- Model:DeviceInfo:ProductClass: wrt1900acs
- Model:SoftwareVersion: 4.2.0-2935885d

Below the device info, there is a 'CPU-Usage' section showing a current usage of 7%. A legend indicates the following ranges: Normal (0-23.4%), Warning (23.4-45.0%), Error (45.0-77.4%), and Critical (77.4-99.0%). A line graph shows CPU usage over time, with a peak of approximately 70% around Feb 12 10:00 pm. Below this is the 'UP Time' section, showing the device has been up for 0 days, 21 hours, 27 minutes, and 27 seconds. A corresponding line graph shows the uptime increasing linearly over time.

The bottom of the page lists various configuration sections, each with a dropdown arrow:

- 2- WAN Connection [USP]
- 2- MQTTClientCon:1 Profile [USP]
- 3- MQTTClientSubscribe:1 Profile [USP]
- 4- MQTTAgent:1 Profile [USP]
- 5- MQTTController:1 Profile [USP]
- 6- WiFi 2.4GHz:1 Profile [USP]
- 7- WiFi 5.0GHz [USP]
- Dagnostic - Download [TR-069]
- Testing Group

At the bottom, there are buttons for 'Save', 'Delete', 'Close', 'Save and close', 'Save and add another', and 'Update: Off'.

Overview

The Device Details page in the CONTROL admin portal provides comprehensive information and management capabilities for individual IoT devices. This page displays device identification,

hardware specifications, system metrics, and various configuration profiles for the Linksys WRT1900ACS router (Device ID: 149182-WRT1900ACS-18E10604600470).

Key Features

- **Real-time Device Monitoring:** Track device connectivity status, CPU usage, and uptime metrics
- **Device Information Management:** View and edit detailed device specifications including OS version, hardware details, and model information
- **Multi-Profile Configuration:** Access and manage various connection and communication profiles (WAN, MQTT, WiFi)
- **Historical Data Visualization:** Interactive charts displaying CPU usage trends and uptime history over 24-hour periods
- **Diagnostic Tools:** Download diagnostic files and access device logs for troubleshooting

Navigation

Accessing the Device Details Page

1. Navigate from **Home** → **Inventory** → **Devices**
2. Select the specific device from the inventory list
3. The device details page opens with the device identifier in the header

Breadcrumb Navigation

- **Home** > **Inventory** > **Devices** > [Device ID]
- Device group indicator: **OBU/SPA LISD/MQTT (pap)**

Device Status Bar

Located at the top of the page, displaying critical status information:

- **Last connection:** 4 seconds ago (with timestamp indicator)
- **Status change:** 20 hours ago (with timestamp indicator)
- **Alert:** Inactive status indicator
- **Action Buttons:**
 - **History** (with notification badge)
 - **Refresh:** Update device information
 - **Update:** Apply configuration changes

Main Navigation Tabs

The page includes six primary tabs for device management:

1. **Settings**: Device configuration and parameters
2. **Setup**: Initial device setup and onboarding
3. **Diagnostics**: Troubleshooting and system analysis
4. **Combined logs**: Aggregated log viewing
5. **Logs**: Individual log file access
6. **CLI**: Command-line interface access

Device Information Section

1. DeviceInfo General [USP]

This expandable section displays core device specifications:

Field	Value	Description
OS	prplOS 4.2.0-29358b5d r9021323585b54e8	Operating system version and build
Model:DeviceInfo.SerialNumber	SN14918288A789	Unique device serial number
Model:DeviceInfo.HardwareVersion	mvebu/cortexa9	Hardware platform identifier
Model:DeviceInfo.Manufacturer	linksys	Device manufacturer name
Model:DeviceInfo.ManufacturerOUI	149182	Organizationally Unique Identifier
Model:DeviceInfo.ModelName	Linksys WRT1900ACS	Commercial product name
Model:DeviceInfo.ProductClass	wrt1900acs	Product classification code
Model:SoftwareVersion	4.2.0-29358b5d	Current firmware version

Each field includes an ellipsis menu (...) for additional actions.

Performance Metrics

CPU Usage Monitor

Visual Display:

- Real-time CPU usage percentage (currently showing 7%)
- Color-coded severity scale:
 - **Normal:** 0-17.6% (Green/Blue)
 - **17.6-34.2%:** Light monitoring
 - **34.2-51.8%:** Elevated usage
 - **Warning:** 68.6-85.4% (Yellow)
 - **Error:** 77.4% (Orange)
 - **Critical:** 86.2-99.0% (Red)

Chart Features:

- **Time Range:** 24-hour view (selectable)
- **Area Visualization:** Line chart with shaded area
- **Interactive Timeline:** Hover for specific data points
- **Peak Analysis:** Shows historical spike around Feb 12 8:00 pm
- **Export Options:** CSV download available
- **View Controls:** Area selector dropdown

Timeline Display:

- X-axis: Time stamps from Feb 12 6:00 pm through Feb 14 4:00 pm
- Y-axis: Percentage scale (0-100%)
- Current state: Low stable usage (~7%) after initial spike

Uptime Tracking

Visual Display:

- **Current Uptime:** 0 day(s), 21 hour(s), 27 minute(s), 27 second(s)
- Cumulative uptime graph showing device availability

Chart Features:

- **Time Range:** 24-hour view (selectable)
- **Line Graph:** Steadily increasing line representing continuous uptime
- **Current Reading:** Approximately 60K seconds (displayed on Y-axis)
- **Timeline:** Same period as CPU usage (Feb 12-14)
- **Export Options:** CSV download and additional options menu
- **View Controls:** Line visualization with customizable time range

Scale Information:

- Y-axis: Time in seconds (20K, 40K, 60K, 80K increments)
- X-axis: Synchronized with CPU usage timeline

Configuration Profiles

The page provides access to multiple expandable profile sections:

2. WAN Connection [USP]

Network connectivity configuration for Wide Area Network settings

2. MQTTClientCon:1 Profile [USP]

MQTT client connection profile for IoT messaging protocols

3. MQTTClientSubscribe:1 Profile [USP]

MQTT subscription topics and message handling configuration

4. MQTTAgent:1 Profile [USP]

MQTT agent settings for message broker communication

5. MQTTController:1 Profile [USP]

MQTT controller configuration for device management

6. WiFi 2.4GHz:1 Profile [USP]

2.4 GHz wireless network configuration settings

7. WiFi 5.0GHz [USP]

5.0 GHz wireless network configuration settings

Each profile section can be expanded by clicking the chevron icon (v) to reveal detailed configuration parameters.

Diagnostic Tools

Diagnostic - Download [TR-069]

Expandable section providing access to TR-069 protocol diagnostic files for advanced troubleshooting and device analysis.

Testing Group

Dedicated section for device testing and validation procedures, accessible through the expandable panel at the bottom of the page.

Actions Available

Primary Actions (Bottom Action Bar)

- **Save:** Commit changes to device configuration
- **Delete:** Remove device from inventory
- × **Close:** Exit without saving changes
- **Save and close:** Save changes and return to inventory
- **Save and add another:** Save current device and create new device entry

Secondary Actions

- **Update:** Manual firmware or configuration update (top right)
- **Off Toggle:** Quick enable/disable switch (bottom right)
- **Update Button:** Additional update options (bottom right)

User Interactions

Viewing Device Information

1. Scroll through the page to view different sections
2. Click on any field's ellipsis menu (⋮) for field-specific actions
3. Hover over chart elements to see detailed data points

Editing Device Parameters

1. Click on editable fields to modify values

2. Use the ellipsis menus for advanced field options
3. Click **Save** or **Save and close** to commit changes

Monitoring Performance

1. Review real-time metrics in the status bar
2. Analyze CPU usage patterns in the graph
3. Check uptime trends for connectivity issues
4. Adjust time ranges using the 24-hour selector

Managing Profiles

1. Click on any profile section to expand its configuration
2. Modify profile-specific parameters
3. Save changes using the action buttons

Downloading Diagnostics

1. Expand the "Diagnostic - Download [TR-069]" section
2. Select desired diagnostic data
3. Download files for offline analysis

Navigation Tips

- **Sidebar Menu:** Use the left navigation panel to switch between applications (Dashboard, Inventory, Firmware, Portals, Locations, Files, Organization, Settings, User log)
- **Top Bar:** Access device-specific tools (History, Refresh, Update)
- **Breadcrumbs:** Quick navigation to parent levels
- **Action Buttons:** Persistent at bottom of page for easy access

Notes & Best Practices

Device Status Monitoring

- **Green indicators:** Device is healthy and connected
- **Last connection timestamp:** Should update regularly (every few seconds)
- **Alert status:** Monitor for "Active" alerts requiring attention

CPU Usage Interpretation

- Normal operation typically shows usage below 20%
- Spikes may indicate firmware updates, configuration changes, or processing intensive tasks
- Sustained high usage (>70%) requires investigation

Uptime Considerations

- Recent uptime of 21+ hours indicates a device restart approximately one day ago
- Check Combined Logs if uptime resets unexpectedly
- Normal maintenance may require periodic restarts

Configuration Management

- Always review changes before saving
- Use "Save and close" for single device updates
- Use "Save and add another" for batch device provisioning
- Changes may require device reboot to take effect

Data Export

- Use CSV export for creating reports or importing into analysis tools
- 24-hour time window can be adjusted for longer historical views
- Consider downloading diagnostics before major configuration changes

Footer Information

- **Copyright:** 2026 © zequenze
- **Links:** [Terms of service](#) | [Privacy policy](#) | [Changelog](#)
- **System:** CONTROL admin portal (dev) v1.2.20-dev
- **User:** jerinab@zequenze.com (org: Zequenze)

This device details page serves as the central hub for managing and monitoring individual IoT devices within the CONTROL platform, providing administrators with comprehensive visibility and control over device operations, connectivity, and performance.

Revision #3

Created 2026-02-13 23:41:59 UTC by ipena@zequenze.com

Updated 2026-03-05 22:25:38 UTC by ipena@zequenze.com