

First Parameters

Group Parameters

Before adding parameters to CONTROL, we recommend organizing them into logical groups. This section demonstrates how to group device information parameters as an example.

Step 1: Identify Parameters in Your Spreadsheet

Begin by locating the parameters you want to group. For this example, we'll group four device information parameters:

	A	B	C	D	E
519	Device.DeviceInfo.FirmwareImage.1.BootFailureLog	string	1		
520	Device.DeviceInfo.FirmwareImage.1.Name	string	1		
521	Device.DeviceInfo.FirmwareImage.1.Status	string	1	Active	
522	Device.DeviceInfo.FirmwareImage.1.Version	string	1		
523	Device.DeviceInfo.FirmwareImage.2.	string	1		
524	Device.DeviceInfo.FirmwareImage.2.Alias	string	0	cpe-2	
525	Device.DeviceInfo.FirmwareImage.2.Available	boolean	0	0	
526	Device.DeviceInfo.FirmwareImage.2.BootFailureLog	string	1		
527	Device.DeviceInfo.FirmwareImage.2.Name	string	1	F689V9.0	
528	Device.DeviceInfo.FirmwareImage.2.Status	string	1	Available	
529	Device.DeviceInfo.FirmwareImage.2.Version	string	1	V9.0.10P3N13	
530	Device.DeviceInfo.FirmwareImageNumberOfEntries	positive	1	2	
531	Device.DeviceInfo.FirstUseDate	datetime	1	2024-08-26T19:48:09	
532	Device.DeviceInfo.HardwareVersion	string	1	V9.0	
533	Device.DeviceInfo.Manufacturer	string	1	ZTE	1
534	Device.DeviceInfo.ManufacturerOUI	string	1	D4B709	
535	Device.DeviceInfo.MemoryStatus.	string	1		
536	Device.DeviceInfo.MemoryStatus.Free	positive	1	385972	
537	Device.DeviceInfo.MemoryStatus.Total	positive	1	524288	
538	Device.DeviceInfo.ModelName	string	1	F689	2
539	Device.DeviceInfo.ModelNumber	string	1		
540	Device.DeviceInfo.Processor.	string	1		
541	Device.DeviceInfo.Processor.1.	string	1		
542	Device.DeviceInfo.Processor.1.Alias	string	0	cpe-1	
543	Device.DeviceInfo.Processor.1.Architecture	string	1	arm	
544	Device.DeviceInfo.Processor.2.	string	1		
545	Device.DeviceInfo.Processor.2.Alias	string	0	cpe-2	
546	Device.DeviceInfo.Processor.2.Architecture	string	1	arm	
547	Device.DeviceInfo.ProcessStatus.	string	1		
548	Device.DeviceInfo.ProcessStatus.CPUUsage	positive	1	3	
549	Device.DeviceInfo.ProcessStatus.Process.	string	1		
550	Device.DeviceInfo.ProcessStatus.Process.1.	string	1		
551	Device.DeviceInfo.ProcessStatus.Process.1.Command	string	1	logcat	
552	Device.DeviceInfo.ProcessStatus.Process.1.CPUTime	positive	1	511400	
553	Device.DeviceInfo.ProcessStatus.Process.1.PID	positive	1	621	
554	Device.DeviceInfo.ProcessStatus.Process.1.Priority	positive	1	20	

1. Locate the **Manufacturer** parameter
2. Locate the **ModelName** parameter

Step 2: Copy Parameters to a New Sheet

When you mark or find the parameters you need, copy them to a separate sheet for easier organization:

	A	B	C	D	E	F	G	H	I	J	K
1											
2											
3											
4											
5		name	variable_name	type	read_only	discovered_value					
6			Device.DeviceInfo.Manufacturer	string	1	ZTE					
7			Device.DeviceInfo.ModelName	string	1	F689					
8			Device.DeviceInfo.SoftwareVersion	string	1	V9.0.10P3N15D					
9			Device.DeviceInfo.UpTime	positive	1	268716					
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											

Step 3: Add Friendly Names

Add a new **"name"** column to create user-friendly labels for each parameter:

	A	B	C	D	E	F	G	H
1								
2								
3								
4								
5		name	variable_name	type	read_only	discovered_value		
6		Model::Manufacturer	Device.DeviceInfo.Manufacturer	string	1	ZTE		
7		Model::Name	Device.DeviceInfo.ModelName	string	1	F689		
8		Model::SWVersion	Device.DeviceInfo.SoftwareVersion	string	1	V9.0.10P3N15D		
9		Model::UpTime	Device.DeviceInfo.UpTime	positive	1	268716		
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								

You can assign a short, descriptive name for each "variable_name" to establish a clear relationship between the technical parameter name and its display name.

Add Parameters to a Profile

Now that you've organized your parameters, it's time to add them to your device profile in CONTROL.

Step 1: Navigate to Parameter Groups Section

Return to the profile you created previously and scroll down to the bottom of the page:

Vendor Model [Base] Device class: ONT | ID: 660
Created: Aug. 29, 2024, 7:42 p.m. | Last change: Aug. 29, 2024, 7:42 p.m.

Name: Vendor Model [Base]

ID: 660

Short-name / code: ven-mod-v1
To be used in reports, charts and whenever a short-name or description is required.

Is public

Device class: ONT

Configuration profile: Default CWMP connection profile: org: root

Topology view service: Click for options

Automatic tests profile: Click for options
Hold down "Control", or "Command" on a Mac, to select more than one.

Diagnostics services: Click for options
Hold down "Control", or "Command" on a Mac, to select more than one.

Default firmware image: Click for options
Select an image to be used as default Firmware for devices with this profile.

Automatic firmware updates
Perform firmware upgrades (and downgrades) automatically if the "Default firmware image" option is set and the software version and settings on a device matches the selection criteria of the selected firmware image. Other settings, such as the selected firmware image's "Release date", "Upgrade from", "Hardware version" and Upgrade Profile, could affect how and when the automatic upgrade is performed. If no "Default firmware image" is set the system will perform automatic firmware upgrades (and downgrades) according to the configurations on each of the firmware images for this particular device profile. Additional documentation of the Firmware management features can be found on this [link](#).

Disable set operations
Activate this option to disable all 'set' operations on devices of this profile.

Disable get operations
Activate this option to disable all 'get' operations on devices of this profile.

Locate the "**Parameter groups**" section:

Parameter groups 1

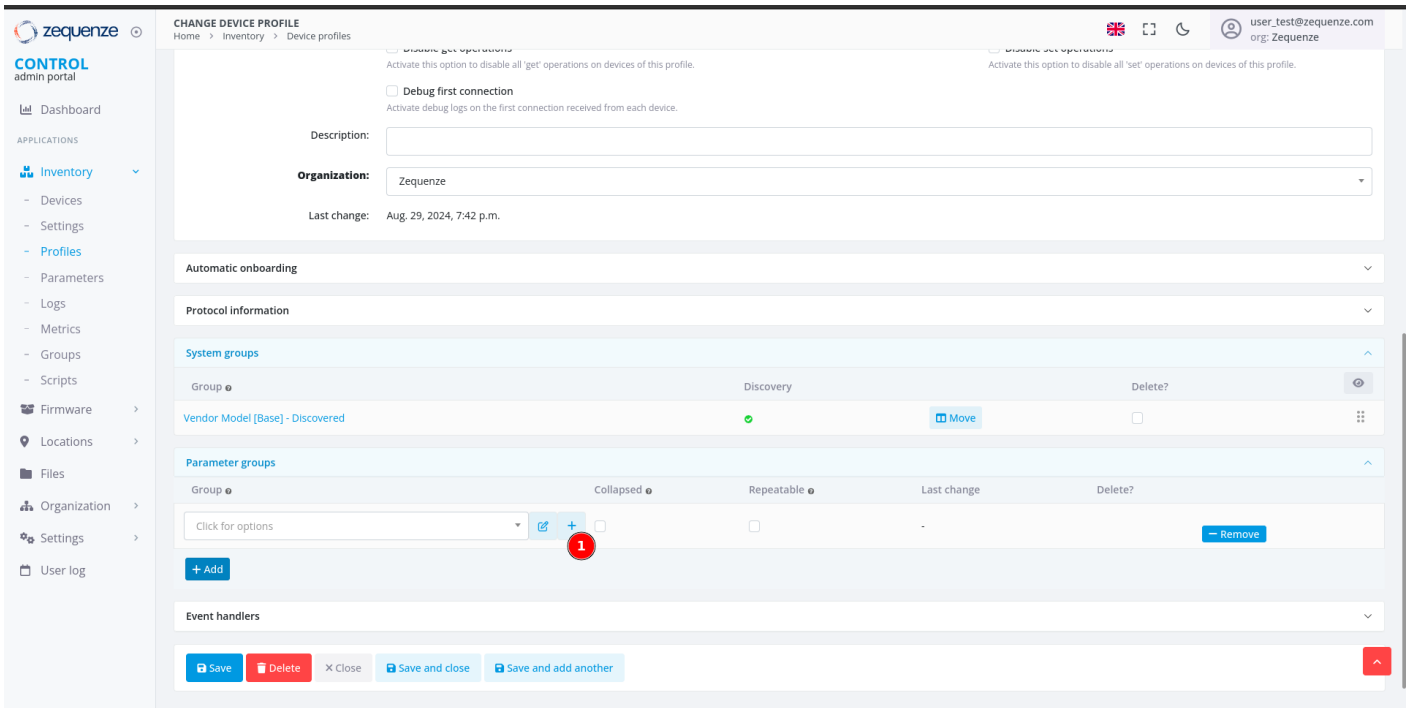
+ Add 2

Group	Discovery	Delete?
Vendor Model [Base] - Discovered	✓	✗

1. **Parameter groups** - This section allows you to create and organize parameter groups
2. **Add** - Click this button to create a new parameter group

Step 2: Create a New Parameter Group

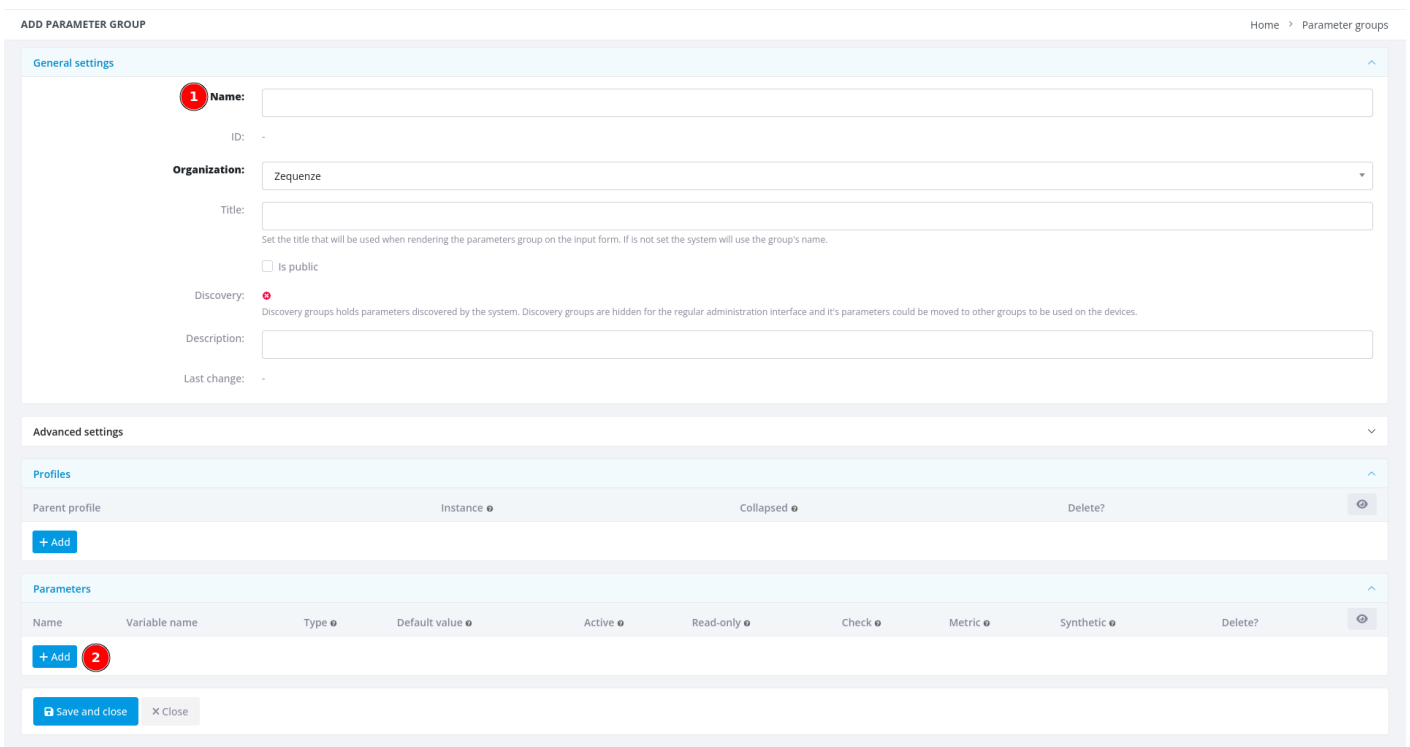
After clicking **Add**, you'll see the following interface:



1. Click the + icon to open the parameter group configuration window

Step 3: Configure the Parameter Group

A new window will open where you can configure your parameter group:



1. **Name** - Enter a descriptive name for this group (e.g., "**Model | Device Info**")
2. **+ Add** - Click this button once for each parameter you want to add (in this example, we need 4 parameters)

Step 4: Add Parameter Details

ADD PARAMETER GROUP Home > Parameter groups

General settings

Name:

ID: -

Organization:

Title:

Is public

Discovery:
Discovery groups holds parameters discovered by the system. Discovery groups are hidden for the regular administration interface and it's parameters could be moved to other groups to be used on the devices.

Description:

Last change: -

Advanced settings

Profiles

Parent profile	Instance	Collapsed	Delete?

Parameters

Name	Variable name	Type	Default value	Active	Read-only	Check	Metric	Synthetic	Delete?
empty	empty	String	empty	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="button" value="Remove"/>
empty	empty	String	empty	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="button" value="Remove"/>
empty	empty	String	empty	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="button" value="Remove"/>
empty	empty	String	empty	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="button" value="Remove"/>

1. After entering the group name and adding 4 parameter slots, you're ready to fill in the parameter details

Now transfer the parameter information from your Excel or LibreOffice Calc spreadsheet into CONTROL:

The screenshot shows the 'Add parameter group' form on the left and a LibreOffice Calc spreadsheet on the right. Red arrows indicate the mapping of data from the spreadsheet to the form fields.

Spreadsheet Data:

name	variable_name	type	read_only	discovered_value
Model:Manufacturer	Device.DeviceInfo.Manufacturer	string	1	ZTE
Model:Name	Device.DeviceInfo.ModelName	string	1	F689
Model:SWVersion	Device.DeviceInfo.SoftwareVersion	string	1	V9.0.10P3N15D
Model:UpTime	Device.DeviceInfo.UpTime	positive	1	268716

Form Fields:

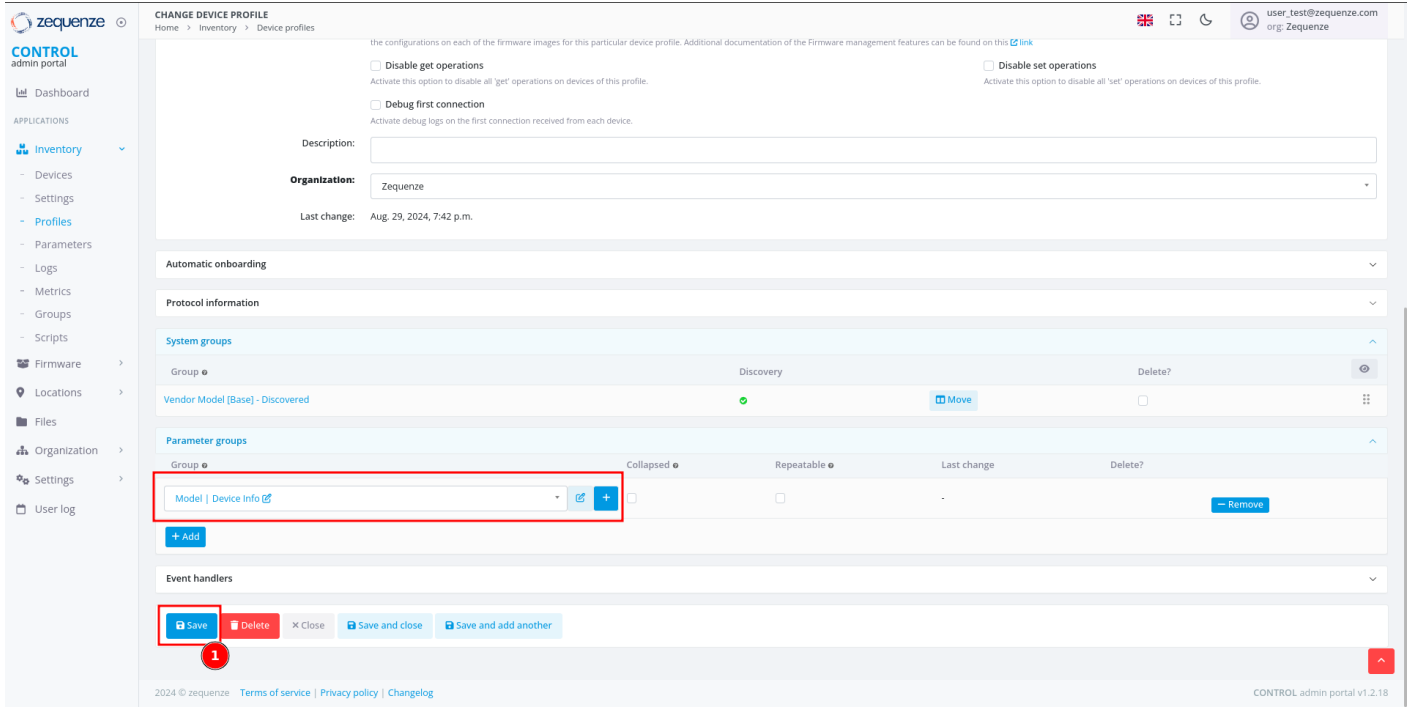
- Name:
- Organization:
- Discovery:
- Description:
- Parameters Table:

Name	Variable name	Type	Default value	Active	Read-only	Check	Metric	Synthetic	Delete?
Model:Manufacturer	Device.DeviceInfo.Manufacturer	String	empty	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="button" value="Remove"/>
Model:Name	Device.DeviceInfo.ModelName	String	empty	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="button" value="Remove"/>
Model:SWVersion	Device.DeviceInfo.SoftwareVersion	String	empty	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="button" value="Remove"/>
Model:UpTime	Device.DeviceInfo.UpTime	Time in seco...	empty	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="button" value="Remove"/>

As you can see, there's now a clear correspondence between your spreadsheet and the CONTROL interface. When you've finished entering all parameters, click "**Save and close**".

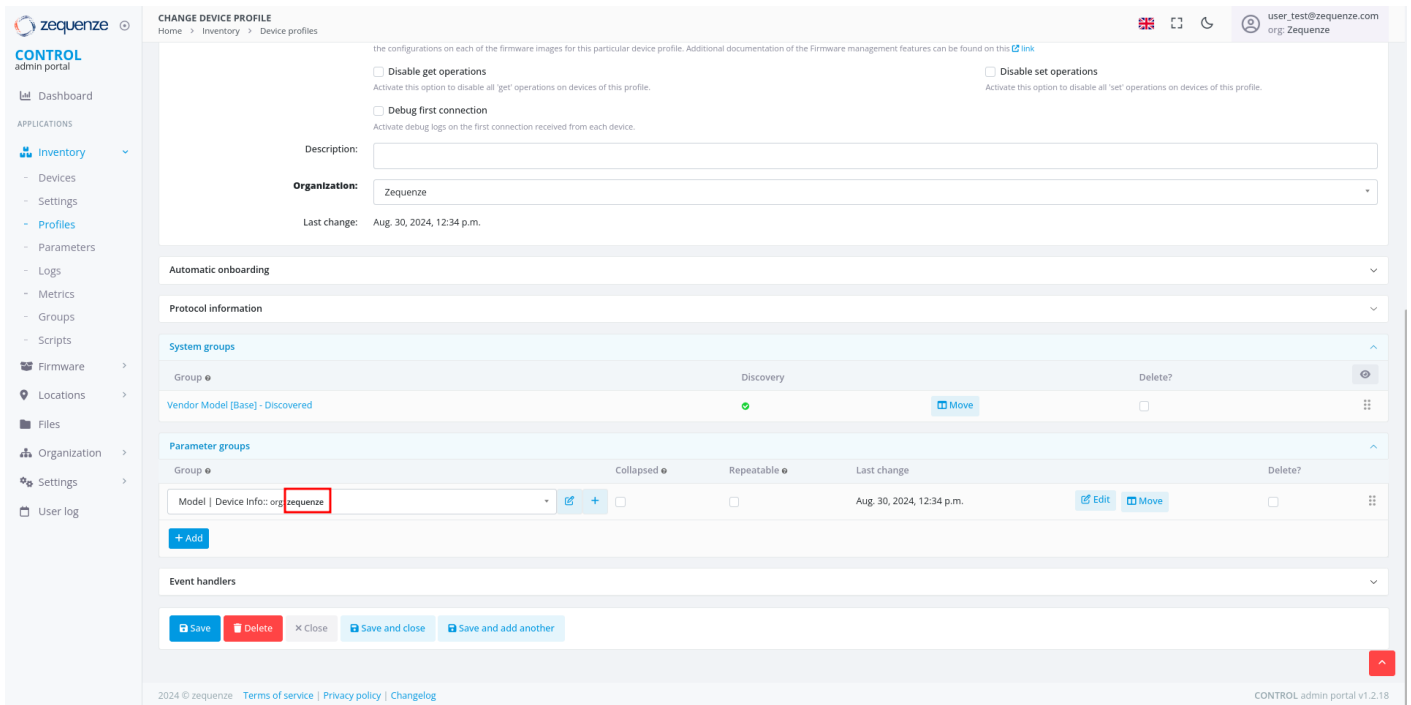
Step 5: Save the Parameter Group

You'll now see your newly created parameter group:



1. Click the **Save** button to save your changes to the profile

After saving, you'll see the organization name displayed in the parameter groups section:

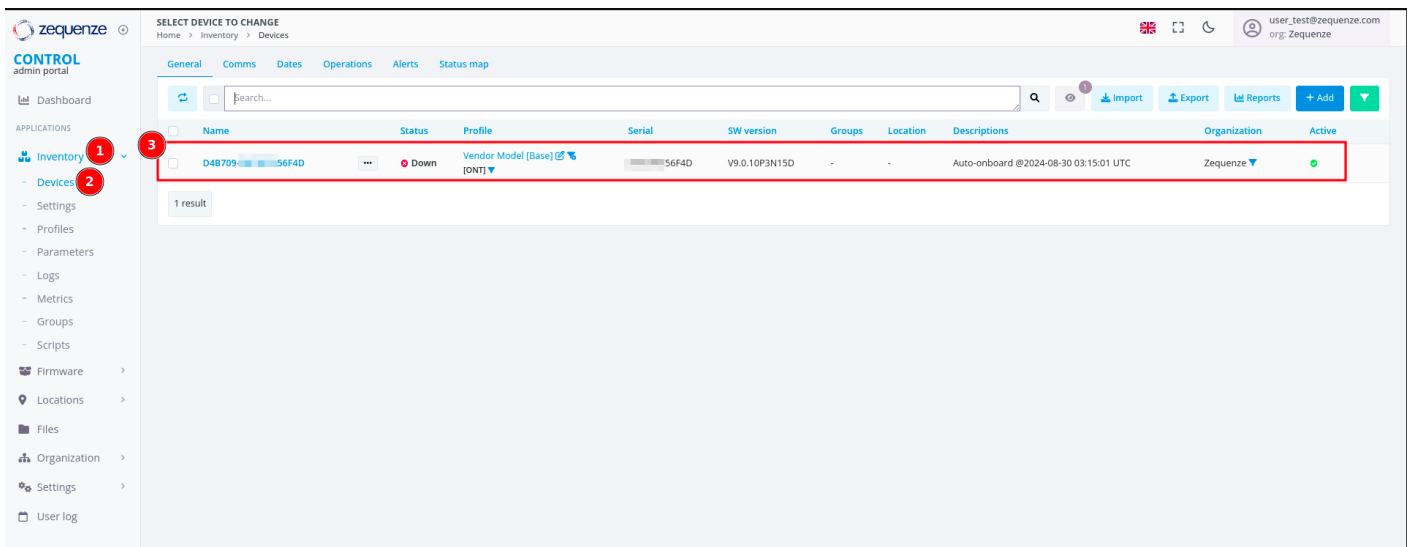


You can repeat this process to add additional parameter groups or parameters as needed.

View Parameters on a Device

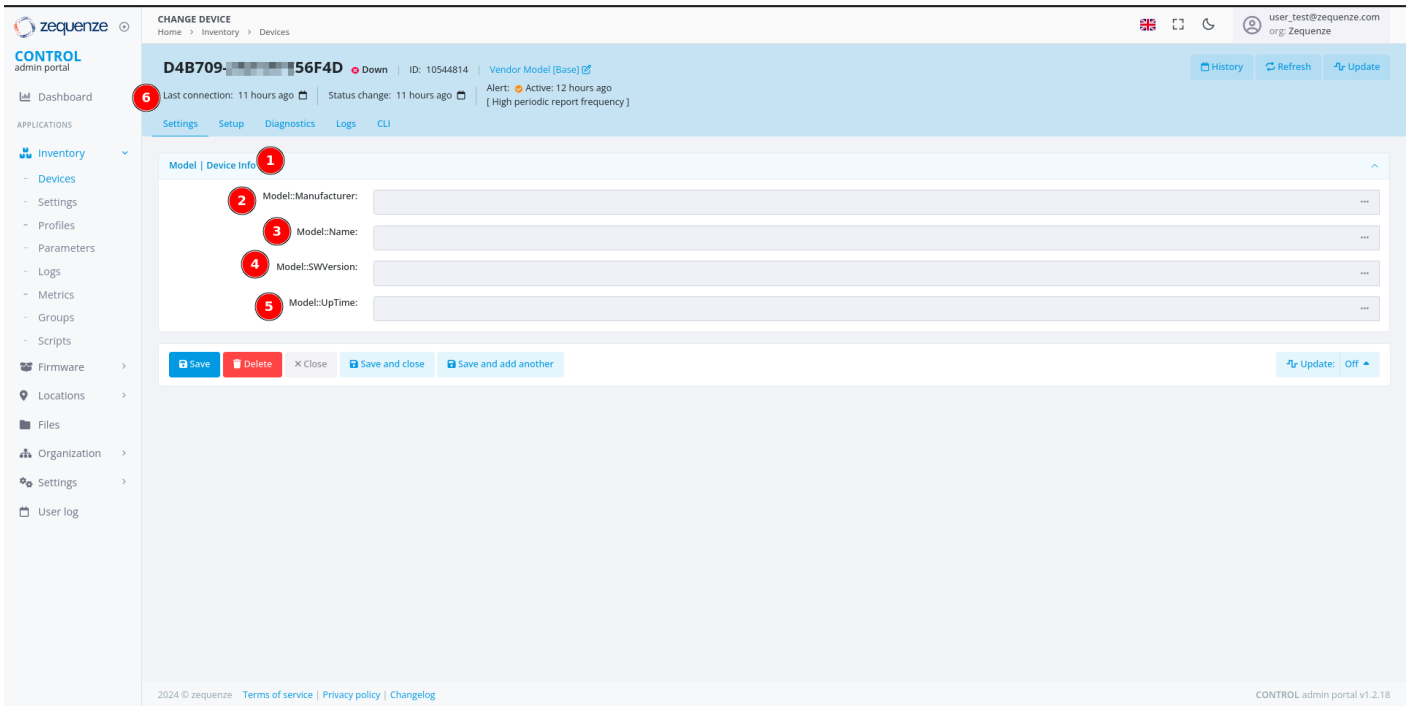
Now that you've configured your parameter groups, let's verify that they appear correctly on the device page.

Step 1: Navigate to the Device



1. Click on **Inventory**
2. Select **Devices**
3. You'll see your previously connected devices. In this screenshot, the device shows as **Down** because it was powered off for this demonstration

Click on the device name to view its details:



On the device page, you can now see:

1. The parameter group name you created
2. The first parameter: "**Model::Manufacturer**"
3. The second parameter: "**Model::Name**"
4. The third parameter: "**Model::SWVersion**"
5. The fourth parameter: "**Model::UpTime**"
6. The **Last connection** timestamp for this device in CONTROL

Step 2: Wait for Parameter Values

It's normal for the parameter values to be empty at this stage. CONTROL will request and populate these values once the device connects to the platform.

After connecting the device:

The screenshot displays the 'CHANGE DEVICE' page in the zequence CONTROL admin portal. The page title is 'CHANGE DEVICE' and the breadcrumb is 'Home > Inventory > Devices'. The device ID is 'D4B709-56F4D', which is marked as 'Up'. The device ID is followed by 'ID: 10544814' and a link for 'Vendor Model [Base]'. Below the device ID, there are three status indicators: 'Last connection: 5 seconds ago', 'Status change: 5 seconds ago', and 'Alert: Active: 12 hours ago [High periodic report frequency]'. The page has tabs for 'Settings', 'Setup', 'Diagnostics', 'Logs', and 'CLI'. The 'Settings' tab is active, showing a 'Model | Device Info' section with the following parameters: 'Model:Manufacturer: ZTE', 'Model:Name: F689', 'Model:SWVersion: V9.0.10P3N15D', and 'Model:UpTime: 0 day(s), 11 hour(s), 32 minute(s), 54 second(s)'. At the bottom of the settings section, there are buttons for 'Save', 'Delete', 'Close', 'Save and close', 'Save and add another', and 'Update: Off'. The footer of the page contains '2024 © zequence Terms of service | Privacy policy | Changelog' and 'CONTROL admin portal v1.2.18'.

The parameter values are automatically retrieved and displayed once the device establishes a connection to CONTROL.

You can now create additional parameter groups or add more parameters to existing groups as needed for your deployment.

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