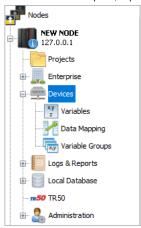
You are here: IoT Gateway User Guide > Device connectivity > Viewing devices

Topic updated on September 21, 2023

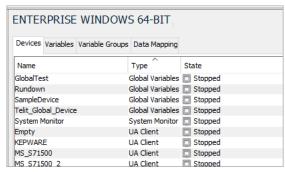
Viewing devices

The **Devices** tab provides a list of devices defined on the node. To use the **Devices** tab, follow these steps:

1. From Workbench left pane, expand the node whose devices you want to view.



2. Click Devices.



The **Devices** tab appears on the right pane.

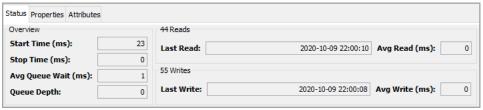
3. The Devices tab provides a table format that lists the devices defined on the node. The top section of the Devices tab provides these columns:

The Devices tab provides a table format that lists the devices defined on the node. The top section of the Devices tab provides these columns.			
Column name	Description		
Name	The name of the device. The device name must be unique on the node.		
Туре	The device type or model.		
State	The device state, which can be:		
	Started - the device is active. Its variables can be accessed (read and write) by triggers on this node.		
	Stopped - the device is not active. Its variables can not be accessed.		
	Disabled - indicating there is a problem communicating with the physical device.		
	Starting and Stopping - states that are temporary transition states.		
Last State Changed	Date when the state of the device is last changed.		
Last Modified	Date when the definition of the device is last changed.		
Status	Indicates the health of the device.		
	Zero indicates the device is operating normally. Non-zero indicates a communication error status. An error occurred between the node		
	and the physical device.		
Ext. Status	The Extended Status. When the Status column contains a non-zero value, the Ext. Status column contains the manufacturer specific		
	error code that provides additional detail into what caused the error.		

Status tab

When a device row in the table is selected, the middle portion of right hand pane provides a **Status**, **Properties** and **Attributes** tab. For Started devices, the **Status** tab displays read-only runtime statistics for the selected device.

1/13/25, 10:38 PM Viewing devices



The Overview and Reads panes provide information concerning the performance of the selected device as follows:

Parameter Description

Start Time The amount of time needed to start the device. The time shown is in milliseconds.

Stop Time The amount of time needed to stop the device. The time shown is in milliseconds. For devices that respond quickly, this stop time can

be listed as zero.

Avg Queue Wait The average time a read or write device access request waits on the device's pending queue before it is processed.

Queue Depth The current number of read or write device access requests that are on the device's pending queue waiting to be processed.

nnnn Reads nnnn indicates the number of read requests made against the variables on the module. The read requests could have come from either

the execution of a trigger accessing the variables or a manual read request from the Variables tab.

Last Read: Indicates the time of the last read request.

Avg Read (ms): Indicates the average amount of time needed to read a variable from the device.

The count continues to increment as the device is accessed.

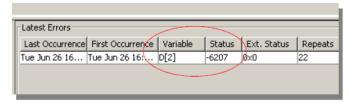
nnnn Writes nnnn indicates the number of write requests made against the variables on the device.

Last Write: Indicates the time of the last write request.

Avg Write (ms): Indicates the average amount of time needed to write a variable to the device.

The count continues to increment as the device is accessed.

The LatestErrors section provides error information on any errors that were encountered when interacting with the device.



In the example, an error occurred when attempting to access a device variable name D[2] on a device that is stopped. The **Status** column shows the first occurrence of the -6207 error and the time associated with the most recent occurrence of the -6207 error.

Column name Description

Last Occurrence Time associated with the most recent occurrence of the error.

First Occurrence Time associated with the first occurrence of the error.

Variable Name of the device variable.

Status The status code for the error.

Ext. Status The extended status which indicates the manufacturer specific error code.

Repeats Indicates the number of times the error occurred between the times of the first occurrence and last occurrence

The Latest Errors right pane provides columns with information concerning errors for the selected device as follows:

Properties tab

The Properties tab displays properties of the device.

Status Properties			
Name:	OPC UA Client CERTIFICATE Siemens USER Secured Only		
Туре:	UA Client		
Endpoint URL:	opc.tcp://172.27.14.136:4840		
Timeout:	60000		
Minimum String Size:	64		
Display Tags as Structures:	False		
Authentication Settings:	username/password		
Username:	user1		
Security Policy:	Basic128Rsa15		
Message Security Mode:	Sign and Encrypt		
Max Nodes per Browse:	65000		
Max Nodes per Read:	65000		
Enumeration Timeout:	65000		
Pause Rate:	20		

Attributes tab

1/13/25, 10:38 PM Viewing devices

For Started devices, the Attributes tab is displays additional information. Some of the attributes displayed are device vendor specific.

Status	Properties	Attributes	
Attribute			Value
Structure Count			3
Structure Member Count			9
Total Variable Count			80896
Variable Count			14

The **Attributes** tab has two columns:

Column name Description

Attribute The name of an attribute supported by the device.

Value The value for the attribute.

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