

Zabbix Driver

File Name	ZabbixDriver.dll
Manufacturer	Zabbix LLC
Devices	Devices supporting the Zabbix protocol
Protocol	Zabbix
Version	1.0.2
Last Update	12/09/2025
Platform	Win32
Dependencies	Zabbix Agent and IOKit version 3.0 or later
Superblock Readings	No
Level	31301

Introduction

This Driver implements the Zabbix protocol for interaction with Zabbix Agents installed on local or remote devices, allowing an application developed by **Eclipse Software** to communicate and extract data from these devices using requests to a Zabbix service.

Preparing a Device

The goal of this Driver is to extract data from devices using requests to a Zabbix service in **Passive** mode. To do so, the device to query must be correctly configured using a configuration file from Zabbix protocol, with a .conf extension, as well as executing a Zabbix service through a Zabbix Agent.

Driver Configuration

This Driver does not use **[P]** configuration parameters. All configuration from the IOKit library, and the ones specific to this Driver, must be performed on this Driver's configuration dialog box in **Eclipse E3**, in **Eclipse Power**, or in **Eclipse Water**, or using the **Extra Settings** option in **Eclipse SCADA**.

On this properties dialog box, the **ZabbixDriver** tab contains specific settings for this Driver. The other tabs refer to communication settings of **Eclipse Software's IOKit** library. For more information about these tabs, please check topic **Documentation of I/O Interfaces**.

Configuring Properties

This topic contains information about the properties available on the **ZabbixDriver** tab, already including the value of the **Strings** for offline properties, which can be user-programmed when starting an application in **Offline** mode.

For **Eclipse E3**, **Eclipse Power**, or **Eclipse Water** applications, the value of these settings can also be defined at run time. To do so, start this Driver in **Offline** mode by selecting the **Start driver OFFLINE** option on the **Setup** tab of the properties dialog box.

The configuration options of this Driver are listed on the next table.

Configuration options for Zabbix Driver

TAB	PARAMETER	OFFLINE STRING	DATA TYPE	DESCRIPTION
Setup	Physical Layer	IO.Type	Text	Configures the physical interface. The available options are Serial , Ethernet , Modem , or RAS
	Timeout	IO.TimeoutMs	Number	A time limit, in milliseconds, to receive data from a device's response. For example, a value of 1000 defines a limit of 1 (one) second
Ethernet	Transport	IO.Ethernet.Transport	Text	Configures the transport layer. The available options are TCP/IP or UDP/IP
	Main IP	IO.Ethernet.MainIP	Text	IP address of a device, in the format [0-255].[0-255].[0-255] or [HostName]
	Port	IO.Ethernet.MainPort	Number	TCP/IP port of a device. Possible values range from 0 (zero) to 65535

All offline properties must be configured via PLC Tags in **String** format, by using the *N1* parameter equal to -1 (minus one), the *N2* parameter equal to 0 (zero), the *N3* parameter equal to 0 (zero), and the *N4* parameter equal to 3 (three). For more details and examples, please check topic **Documentation of I/O Interfaces**.

Tag Reference

This section contains information about the configuration of this Driver's **[N/B]** Tags.

Zabbix Tag in Passive Mode

Read-Only

Use PLC Tags to query data from devices with Zabbix Agents in **Passive** mode using the parameters indicated on the next table.

Parameters for Zabbix Agents

ParamDevice	Name of a device, in the format ID;XXXXXXXXXXXX;NNNNN
ParamItem	Zabbix key for data request, in Text format
N1 or B1	Not used
N2 or B2	Not used
N3 or B3	Not used
N4 or B4	Not used

In the **ParamDevice** parameter, enter a device to query using the format **ID;XXXXXXXXXXXX;NNNNN**, separated by semicolons, in which each part represents the next description:

- The **ID** parameter represents any number to uniquely identify a device, in **Number** format
- The **XXXXXXXXXXXX** parameter indicates the IP address or HOSTNAME of a device, which is used by this Driver to establish a communication via Ethernet with a Zabbix Agent installed on that device
- The **NNNNN** parameter indicates the TCP/IP port of a device, which is used by this Driver to establish a communication via Ethernet with a Zabbix Agent installed on that device

In the **ParamItem** parameter inform a Zabbix key, which performs a data request in **Passive** mode. Please check the documentation of Zabbix Agents for more information about the available keys.

Usage Examples

- Reading the percentage of CPU usage, in **Number** format, in a device with identifier equal to **1** (one), in the IP address **localhost** (127.0.0.1) in the TCP/IP port **10050** using the Zabbix key **system.cpu.util**:
 - **ParamDevice:** 1;localhost;10050
 - **ParamItem:** system.cpu.util
- Users can also perform queries through the Windows WMI service using the Zabbix key **wmi.get[<namespace>,<query>]**, in which **namespace** has the format **ROOT\xxxxxx** and **query** has the format **SELECT 'Property' FROM 'Class'**. To read the temperature of thermal zone in tenths of degrees Kelvin, in a device with identifier equal to **1** (one) in the IP address **localhost** (127.0.0.1) in the TCP/IP port **10050** using the Zabbix key **wmi.get[ROOT\CIMV2, SELECT Temperature FROM Win32_PerfFormattedData_Counters_ThermalZoneInformation]**:
 - **ParamDevice:** 1;localhost;10050
 - **ParamItem:** wmi.get[ROOT\CIMV2, SELECT Temperature FROM Win32_PerfFormattedData_Counters_ThermalZoneInformation]

Documentation of I/O Interfaces

This section contains the documentation of I/O Interfaces referring to **ZabbixDriver** Driver.

Driver Revision History

VERSION	DATE	AUTHOR	COMMENTS
1.0.2	12/09/2025	C. Mello	<ul style="list-style-type: none">Added a parameter for connection by <i>HostName</i> and changed the separator from colon (:) to semicolon (;) (Case 38910).
1.0.1	09/24/2025	C. Mello	<ul style="list-style-type: none">Initial version of this Driver (Case 32309).

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