Stattus4 Ada Driver

Filename	Ada.dll
Manufacturer	Stattus4
Devices	Ada Web Services System
Protocol	Ada
Version	1.0.1
Last Update	05/05/2025
Platform	Win32
Dependencies	N/A
Superblock Readings	No
Level	0

Introduction

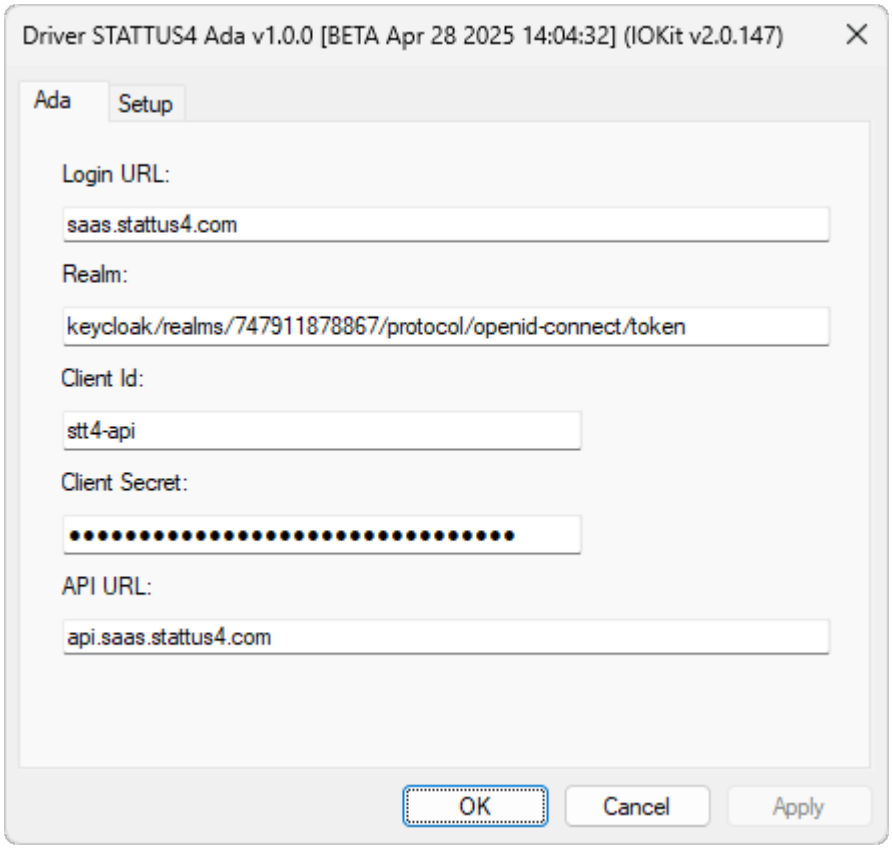
This Driver implements communication with the REST API of Ada Web Services System, allowing an application developed by **Elipse Software** to communicate with this system by Stattus4.

Driver Configuration

This Driver's **[P]** parameters are not used. All configurations are performed on this Driver's properties dialog box.

Configuring Properties

The **Ada** tab contains specific configurations for this Driver.



Ada Tab

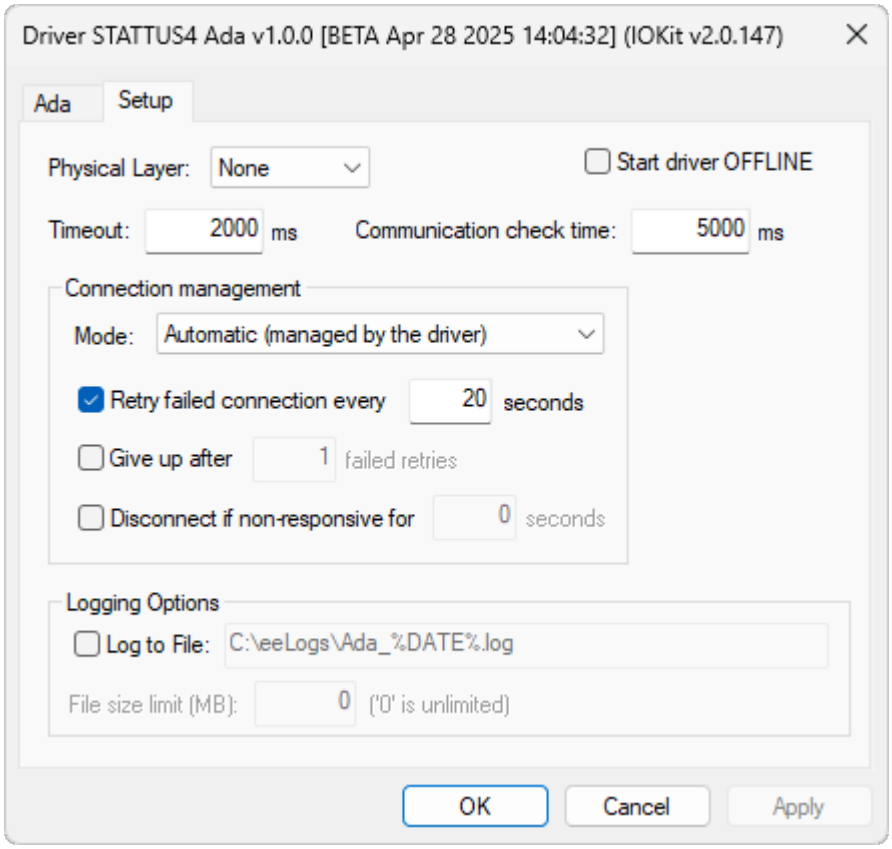
The available options on this tab are described on the next table.

Available options on the Ada tab

OPTION	DESCRIPTION
Login URL	URL of the login to the Stattus4 Ada system
Realm	Complement to the login, which must include the name or identifier of the authentication domain (*Realm*)
Client Id	Login name of the Stattus4 Ada system
Client Secret	Password for the login
API URL	URL of the Stattus4 Ada system's REST API where the web services are located

The **Setup** tab contains general configurations for this Driver. This tab is divided into the following groups:

- **General configurations**: Configurations of a Driver's physical layer, time-out, and initialization mode (have no effect for this Driver)
- **Connection management**: Configurations on how a Driver keeps a connection and which recovery policy is used on failure (have no effect for this Driver)
- **Logging options**: Controls the generation of log files



Setup tab

General options on the Setup tab

OPTION	DESCRIPTION
Physical Layer	For this Driver, the only option available is **None**, that is, no physical interface is available
Timeout	This option has no effect for this Driver
Communication check time	This option has no effect for this Driver
Start driver OFFLINE	This option has no effect for this Driver

Options on the Connection management group

OPTION	DESCRIPTION
Mode	This option has no effect for this Driver
Retry failed connection every ... seconds	This option has no effect for this Driver
Give up after ... failed retries	This option has no effect for this Driver
Disconnect if non-responsive for ... seconds	This option has no effect for this Driver

Options on the Logging Options group

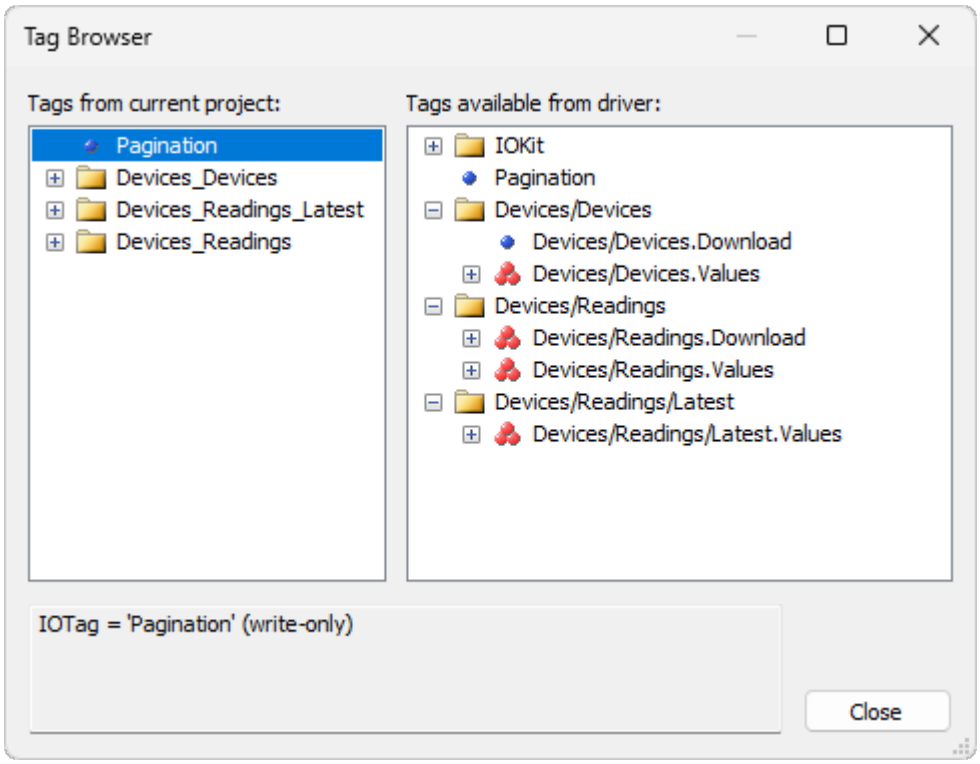
OPTION	DESCRIPTION
Log to File	Enable this option and configure the name of a file to write a log. Log files can be large, so use this option for short periods of time, only for testing and debugging purposes. If the **%PROCESS%** macro is used in the log file name, it is replaced by the identifier of the current process. This option is particularly useful when using several instances of the same Driver in **Elipse E3**, **Elipse Power**, or **Elipse Water**, thus allowing each instance to generate a separate log file. For example, when configuring this option with value "c:\e3logs\drivers\ada_%PROCESS%.log", it generates a file named c:\e3logs\drivers\ada_00000FDA.log for process **0FDAh**. Users can also use the **%DATE%** macro in the file name. In this case a log file is generated every day, in the format **aaaa_mm_dd**. For example, when configuring this option with value "c:\e3logs\drivers\ada_%DATE%.log", it generates a file named c:\e3logs\drivers\ada_2005_12_31.log in 12/31/2005 and a file named c:\e3logs\drivers\ada_2006_01_01.log in 01/01/2006. Similarly, the **%DATE_HOUR%** macro generates one log file per hour, in the format **aaaa_mm_dd_hh**
File size limit (MB)	Configure the size limit of a log file, in megabytes. A value equal to 0 (zero) means that there is no size limit for a log file

Tag Reference

This section contains information about the configuration of this Driver's Tags.

Using Tag Browser

Elipse E3, starting with version **2.0**, **Elipse Power**, and **Elipse Water** contain a tool called **Tag Browser**, which allows a Driver to help users creating and configuring Tags.



Tag Browser

The **Tags from current project** list displays Tags and folders already in the current project. The **Tags available from driver** list displays a tree with Tags provided by this Driver. To create a new Tag in an application, drag one of this Driver-defined Tags to a folder on the current directory. The Stattus4 Ada Driver provides the following nodes on this tree view:

- An **IOKit** node that displays all Tags supported by **IOKit** library, grouped into the following categories:
  - **General**: Tags for general use
  - **Modem**: Tags for manipulating communication via modem
  - **Ethernet**: Tags for manipulating communication via Ethernet network
  - **Parameters**: Tags for configuring **IOKit** library parameters
- **Pagination:** General setting that defines the pagination of items from the content to be presented (number of pages and items per page)
- **Devices/Devices**: Contains **Devices/Devices.Download** and **Devices/Devices.Values** Tags
- **Devices/Readings**: Contains **Devices/Readings.Download** and **Devices/Readings.Values** Tags
- **Devices/Readings/Latest**: Contains **Devices/Readings/Latest.Values** Tags

Pagination Tag

Write-Only

Use a PLC Tag to define the pagination values of the values returned in the Ada system.

Syntactic parameters

Device	Not used and must not be filled
Item	Pagination

N parameters

N1	Number of items per page
N2	0 (not used)
N3	0 (not used)
N4	0 (not used)

The **Value** field must be populated with the page number, and the *N1* parameter defines the number of items each page must contain.

Devices/Devices.Download Tag

Write-Only

Use a PLC Tag to execute the download command of the values from the list of devices contained in the Ada system.

Syntactic parameters

Device	Not used and must not be filled
Item	Devices/Devices.Download

Devices/Devices.Values Tag

Read-Only

Use a Block Tag with 25 Elements to read the values from the list of devices contained in the Ada system. The content of this Block Tag depends on the previous execution of the **Devices/Devices.Download** Tag.

Syntactic parameters

Device	Fill with the serial value of the device to read
Item	Devices/Devices.Values

Elements of this Block Tag

- corp
- serial
- type
- version
- created_at
- updated_at
- driver

- macrometer
- active
- install_point
- install_point.name
- install_point.lat
- install_point.long
- install_point.alt
- install_point.address
- install_point.number
- install_point.city
- install_point.state
- install_point.country
- install_point.zipcode
- install_point.created_at
- install_point. timezone
- install_point.neighborhood
- install_point.complement
- install_point.updated_at

Devices/Readings/Latest Tag

Read-Only

Use a Block Tag with 8 (eigth) Elements to read the last values from the list of devices contained in the Ada system. Use this Block Tag for as many devices as needed to perform a reading.

Syntactic parameters

Device	Fill with the serial value of the device to read
Item	Devices/Readings/Latest.Values

Elements of this Block Tag

- corp
- serial
- type
- timestamp2
- pressure

- acc_flow
- instant_flow
- reading_index

Devices/Readings.Download Tag

Write-Only

Use a Block Tag with 3 (three) Elements to execute a download command of historical reading values from the referred device.

Syntactic parameters

Device	Keyword to bind with the **Devices/Readings.Values** Tag
Item	Devices/Devices.Download

This Block Tag must be written as a whole block. The first Element must contain the serial values of the devices to read. In case of more than one device, separate each serial value by a comma. The second Element must contain the starting date and time, and the third Element must contain the final date and time of the collecting.

- Serial
- InitialDateTime
- FinalDateTime

Devices/Readings.Values Tag

Read-Only

Use a Block Tag with 8 (eigth) Elements to read the values from the list of values contained in the Ada system. Use this Block Tag for as many devices as needed to perform a reading.

Syntactic parameters

Device	Keyword to bind with the **Devices/Readings.Download** Tag
Item	Devices/Readings

Elements of this Block Tag

- corp
- serial
- type
- timestamp2
- pressure
- acc_flow

- instant_flow
- reading_index

Driver Revision History

VERSION	DATE	AUTHOR	COMMENTS
1.0.1	05/05/2025	M. Ludwig	• First version of this Driver.

Headquarters
Rua Mostardeiro, 322/Cj. 902, 1001 e 1002
90510-002 — Porto Alegre — RS
Phone: (+55 51) 3346-4699
Fax: (+55 51) 3222-6226
E-mail: elipse-rs@elipse.com.br

Branch in Taiwan
9F., No.12, Beiping 2nd St., Sanmin Dist.
807 — Kaohsiung City — Taiwan
Phone: (+886 7) 323-8468
Fax: (+886 7) 323-9656
E-mail: evan@elipse.com.br

Check our website for information about a representative in your country.

www.elipse.com.br

kb.elipse.com.br
forum.elipse.com.br
www.youtube.com/elipsesoftware
elipse@elipse.com.br

Gartner 2014 Cool Vendor

OPC FOUNDATION MEMBER

Gartner, Cool Vendors in Brazil 2014, April 2014.
Gartner does not endorse any vendor, product or service depicted in its research publications, and does not advise technology users to select only those vendors with the highest ratings. Gartner research publications consist of the opinions of Gartner's research organization and should not be construed as statements of fact. Gartner disclaims all warranties, expressed or implied, with respect to this research, including any warranties of merchantability of fitness for a particular purpose.

Microsoft Partner
Gold Independent Software Vendor (ISV)