



Satel Integra Driver for Control4

Thank you for using **mwiz** products

Feel free to contact us at info@mwiz.pl

Find more information on our products and download latest version of drivers at
www.mwiz.pl

License

Copyright (C) 2016 MWiz Maciej Walesiak. All rights reserved.

You may not rent, lease, modify, translate, reverse engineer, decompile, disassemble, or create derivative works based on this Software.

You may not sub-license, distribute and sell this Software without express written permission from MWiz Maciej Walesiak.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

If you do not agree to all of the terms and conditions listed above, then do not install, use, copy, or distribute the Software.

Thank you for using **MWiz** products.

Feel free to contact us at info@mwiz.pl.

Find more information on our products and download latest version of drivers at www.mwiz.pl.

Satel Integra Driver

This driver enables integration of Control4 system with Satel Integra security system. It uses network connection to communicate with Satel Integra security system through ETHM-1 Plus integration module. The following Satel Integra models are supported:

- INTEGRA 24
- INTEGRA 32
- INTEGRA 64
- INTEGRA 128
- INTEGRA 128-WRLSIM300
- INTEGRA 128-WRLLEON
- INTEGRA 64 PLUS
- INTEGRA 128 PLUS
- INTEGRA 256 PLUS

Requirements

The system has to meet the following requirements for the driver to work properly:

- Control4 OS version 2.8.0 – 3.2.1
- Satel Integra firmware version 1.13 2015-03-14 or higher
- ETHM-1 Plus module firmware version 2.01 2015-03-19 or higher

This driver does not work properly with legacy version of ETHM-1 module (ETHM-1). Make sure that you are using ETHM-1 Plus module.

Features

- arming/disarming,
- monitoring partitions status (arm mode, alarms),
- monitoring inputs and outputs status,
- controlling outputs

Installation

ETHM-1 Plus integration module should be installed and configured by a qualified security systems specialist.

Integration mode (**without** encryption) has to be enabled in the ETHM-1 Plus module to communicate with the driver. Please refer to module's installation and configuration manuals for details.

It is recommended to set a static IP address of the ETHM-1 Plus module.

In order to install the driver, add it to the project, make all necessary connections in Composer's Connections section and fill in configuration fields in driver's Properties tab.

The driver needs to be activated using a unique activation key. The key can be obtained by contacting us at info@mwiz.pl.

The driver will download security system configuration (partitions and zones info) automatically once a connection is established.

Use 'Read from panel' button in Composer section of the driver (top-right corner of Properties window) to reload the security system configuration (**this action can overwrite all of the zones and partitions that you have configured**).

System information can also be updated using 'Update Status' button in driver's Actions tab. The difference compared to 'Read from panel' button is that in case of 'Update Status' button status will be refreshed for only the already loaded zones and partitions.

'Reinitialize' button in driver's Actions tab causes system information cleanup and reload (zones connections will be lost if any have been made).

Be aware that loading security system configuration for large systems can take some time.

There is a known issue in Composer software that is about it freezing when loading/updating information about zone(s) with a large number of zones already loaded. This only occurs when being focused on the driver properties window. A mitigation for this issue has been implemented in driver version 24 in order to handle it until it is fixed in future releases of the Composer.

There are two ways of preventing this issue from happening:

1. leave Satel Integra driver Properties tab in Composer right after triggering system configuration load by eg. selecting different driver in System Design view and wait for about 3 minutes until coming back to the tab – system configuration should be loaded by then,

2. enable delayed system info update before triggering system configuration load. This can be done by setting the 'Delay System Info Update' option to 'Yes' in driver Properties tab. This option will be disabled automatically after system configuration is loaded. Please keep in mind that enabling this option makes loading system configuration process much longer - even up to 1 hour for large systems.

Please be patient if it happens that none of the above actions are taken and Composer becomes unresponsive - it will become responsive again after the system configuration is loaded.

Configuration

The following driver properties are used to configure the driver:

- **Version** - driver version,
- **Project ID** - unique project id,
- **Activation Key** - driver activation key,
- **Driver Activation Status** - current driver activation status,
- **Driver Update Status** - information about driver update status,
- **Notifications** - driver status notifications,
- **Connection Status** - ETHM-1 Plus module connection status,
- **Integra Model** - detected Satel Integra model,
- **Integra Version** - detected Satel Integra version,
- **Gateway Version** - detected integration module version,
- **IP Address** - ETHM-1 Plus module ip address,
- **Port** - ETHM-1 Plus module connection port,
- **Enable Quick Arming** - if set to 'Yes' and partition user code is set, partition can be armed without the need to enter user code,
- **Auto Update** - if enabled, the driver will be automatically updated to the latest version available,
- **Auto Update Reboot** - if enabled, the main controller will be automatically rebooted after driver update (reboot is required to complete the update). The reboot will be triggered between 3 a. m. and 5 a. m.
- **Entry Delay** - alarm trigger delay in entry-disarm mode, in seconds (this setting should be kept in sync with security system configuration for best user experience).
- **Exit Delay** - alarm trigger delay in exit-arm mode, in seconds (this setting should be kept in sync with security system configuration for best user experience).
- **Zones Count** - If other than 0, limits the number of zones handled by the driver.
- **Outputs Count** - If other than 0, limits the number of outputs handled by the driver.
- **Delay System Info Update** - The delayed system info update logic prevents Composer from becoming unresponsive when being focused on Satel Integra driver, it makes loading system config much longer though.

Connections

The following connections are available:

- **Satel Control** - connection used to enable communication with widget drivers controlling security system outputs (eg. Satel Integra Light Widget driver)
- **Room Selection Partition X** - security system's partition room connection (defines rooms, which selected partition controls)

Using the Driver

Updating the driver

This driver can be updated with standard Composer Pro update procedure or with Auto Update feature.

Auto Update feature can be enabled in driver's Properties tab. When enabled, the driver periodically checks if its new version is available.

When new version of the driver is installed, it becomes available once main controller is rebooted.

Update can also be triggered using driver's Actions tab.

Composer's Programming section of the driver can be used to receive notification on driver update and to schedule main controller reboot command.

It is also possible to revert to the previous installed version of the driver - this option is available in driver's Actions tab (note that rollback can be done only after driver update has been completed).

Security system status and control

The security system can be controlled and monitored from Security section of Control4 GUI.

Arming

When selected system's partition is disarmed, arm button becomes active and user can arm the partition by pressing it and entering user code.

Four arm modes are available:

- **Away**
presence inside partition area not allowed - each zone violation triggers an alarm
- **Home**
presence inside partition area allowed - internal zone violation does **not** trigger an alarm, external zone violation triggers a **silent** alarm, any other zone violation triggers an alarm
- **Home - No Entry**
same as 'Home' mode, but there is no entry delay - alarm is triggered immediately after zone violation
- **Home - Custom**
presence inside partition area allowed - alarm is **not** triggered by zones set in block-when-not-away mode

It is also possible to arm all partitions at once using **Arm All** function available in partition functions menu.

Quick Arming

Quick arming mode enables user to arm the partition by just pressing the arm button (without entering user code).

In order to enable quick arming, the 'Enable Quick Arming' option in driver's Properties tab has to be set to 'Yes' and partition user code has to be set using 'Set User Code' function available in Security section of Control4 GUI.

Forced Arming

The driver enables user to send 'Force Arm' command to security system. This command enables arming system even if system troubles are present. Forced arming is enabled with 'Force Arm' function available in Security section of Control4 GUI.

Disarming

When selected system's partition is armed, disarm button becomes active and user can disarm the partition by pressing it and entering user code.

It is also possible to disarm all partitions at once using **Disarm All** function available in partition functions menu.

Inputs status

Inputs status is presented in Security section of Control4 GUI, partition zones tab. It is also available in Composer's programming section through the following variables:

- LAST_CLOSED_INPUT_NUMBER - number of last unset (deactivated) input
- LAST_OPENED_INPUT_NUMBER - number of last set (activated) input

Outputs status

Outputs status can be presented in Lights section of Control4 GUI by using Satel Integra Light Widget driver.

Outputs status is also available in Composer's programming section through the following variables:

- LAST_CLOSED_OUTPUT_NUMBER - number of last unset (deactivated) output
- LAST_OPENED_OUTPUT_NUMBER - number of last set (activated) output

Controlling Outputs

In order to enable outputs control, outputs control code has to be set using 'Set Outputs Control Code' function available in Security section of Control4 GUI.

Outputs can be controlled using:

- Satel Integra Light Widget driver, by adding it to the project and setting number of output that given widget driver instance should control in its Properties tab
- Programming section of Composer, by using driver's commands: 'Close Output' (deactivate an output) and Open Output (activate an output)

Output should be configured as a bistable switch in security system configuration in order to enable controlling it with the driver.

Changelog

Version 25:

- fixed driver Properties page becoming unavailable in Composer OS 3.2.1

Version 24:

- mitigated Composer freezing issue when loading large system configuration
- fixed loading zone names not working sometimes
- fixed auto update
- fixed connecting to security system automatically after project is loaded in OS3.X
- added possibility to define number of controlled/monitored partitions, zones and outputs
- removed demo mode

Version 21:

- fixed disappearing disarm keypad in exit delay state

Version 20:

- added 'Arm All' and 'Disarm All' functions
- fixed wrong arm type reporting for Satel modes 1, 2 and 3
- added demo mode
- fixed disappearing disarm keypad in entry delay state

Version 17:

- optimized communication with gateway

Version 16:

- fixed reading integra's version not working for some models

Version 15:

- fixes for security system status updates

Version 14:

- fixed outputs status not being updated in some cases

Version 13:

- optimized outputs switching algorithm

Version 12:

- optimized switching group of outputs

- fixed controlling outputs via programming section of the driver
- added 'clear alarm' feature
- added reading integration module version (available in Properties tab)

Version 11:

- added documentation
- added auto update feature
- changed arm mode strings in GUI
- improved handling connection with ETHM-1 Plus module

Version 10:

- initial version