integriti
INTEGRATED SOLUTIONS

INTEGRITI ALARM REPORTING COMMUNICATIONS TASK



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Description of the Alarm Reporting Communications Task:

This document is correct as of Integriti controller firmware version 20.1.0.38985.

Summary:

The purpose of the Alarm Reporting CT is to be able to report alarms via the selected communication protocol.

The currently supported communication protocols are:

- WebWayOne
- Trikdis
- IRIS

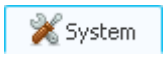
Functionality:

The Alarm Reporting CT can perform the following operations:

1. Establish and maintain a connection with the alarm delivery device.
2. Interact with the alarm delivery device by receiving and sending commands.
3. Report alarms via the ContactID alarm reporting format.
4. Report alarms via the SIA alarm reporting format.

Communications Task options programming overview

The following section will guide you through the creation of the communications task and the various options for each setting.

1. Click on the 

tab followed by 

.
2. Click 

to create a new communications task.
3. In the window that appears, enter a name for the communications task and enter any necessary notes in the notes field.
4. Under Comms Task Setup drop down the type list box and select Alarm Reporting.
5. Expand out the Misc section of the available Alarm Reporting programming.
6. Enter the designated client code for identifying the site to the monitoring installation.

> Information on how to create review filter stacks is available in the appendix of the System Configuration Handbook under the section titled 'Filter Stacks'.

7. Expand out the Settings section.
8. Optionally, set an input that will be used to reflect the status of the communications task.

> *Inputs C01:Z33-Z99 are ideal for this application. This input will go in to alarm if the communications task fails.*

9. Expand out the Options section.
10. The review filter allows for the communications task to filter out the alarms that it will attempt to report to the alarm delivery device. There are a few tick box options that control different aspects of when alarms will be reported, these are:
    - Alarm look ahead
    - General open/close
    - Xmit historic
11. Expand out the Configurations section.
12. Change the Alarm Protocol to match the connecting equipment.
    See the section Specific Options for Alarm Protocol selection for more detail on the following protocols:
    a. WebWayOne
    b. Trikdis
    c. IRIS

13. Configure EN50131 groups as required.
    Up to 8 Verify Groups can be configured. A group is enabled/checked when both the "All Path Fault" and the "Single Path Fault" inputs have been configured.
    When enabled, the "Verify Group" value of the comms task is tested against the "Verify Group" values that are configured in the areas.

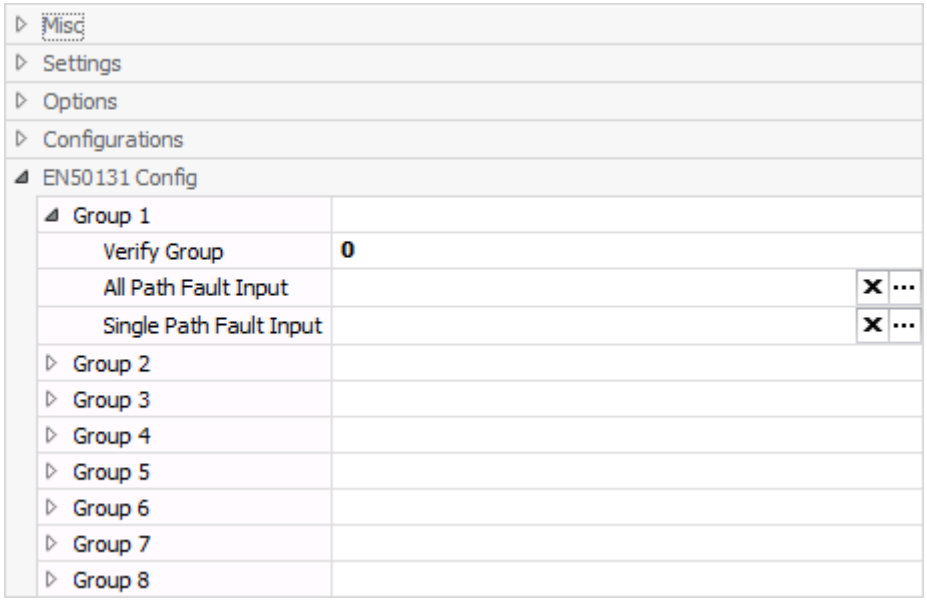


Figure 1: Comms task EN50131 configuration

14. Click the  button and close the dialog.

Specific Options for Alarm Protocol selection

This section expands upon the Alarm Protocol selection from step 12.

WebWayOne Protocol Options

Communication Port

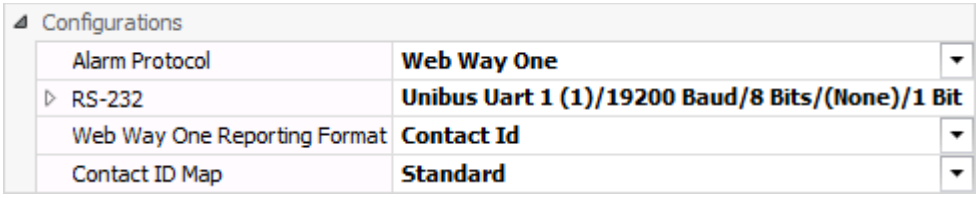
The WebWayOne device connects to the Integriti controller via a serial RS232 interface. Any RS232 serial port of the Integriti controller can be chosen. The default port settings are 19200, 8, N, 1.

Alarm Format:

The alarm event format can be chosen to be either:

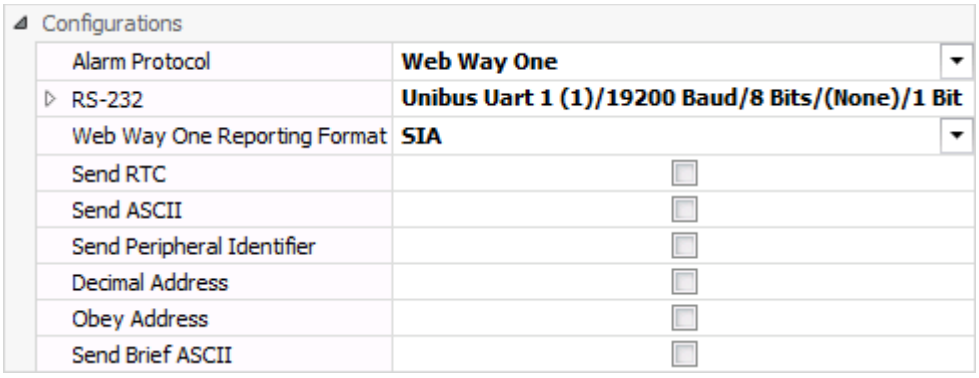
- ContactID
- SIA

ContactID Format Configuration



When the ContactID format is chosen the ContactID map can be selected

SIA Format Configuration:



When the SIA format is chosen the following settings can be configured:

Send time:

When set the time of the event will be sent in the SIA alarm data

Send ASCII:

When set the review text of the event will be sent in the SIA alarm data

Send peripheral identifier:

When set an additional identifier is sent in the SIA alarm data

Decimal address:

When set the address of input are set as decimal instead of hexadecimal in the SIA alarm data

Obey address:

When set some system input events do not have an identifier sent for them (E.g. AC fail, System power up etc.)

Trikdis Protocol Options

Communication Port

The Trikdis G16 device connects to the Integriti controller via a serial TTL interface. Any TTL serial port of the Integriti controller can be chosen. The default port settings are 19200, 8, N, 1.

ContactID Format Configuration

Select from one of three ContactID map options:

- Standard
- Access
- Sims II

IRIS Protocol Options

Communication Port

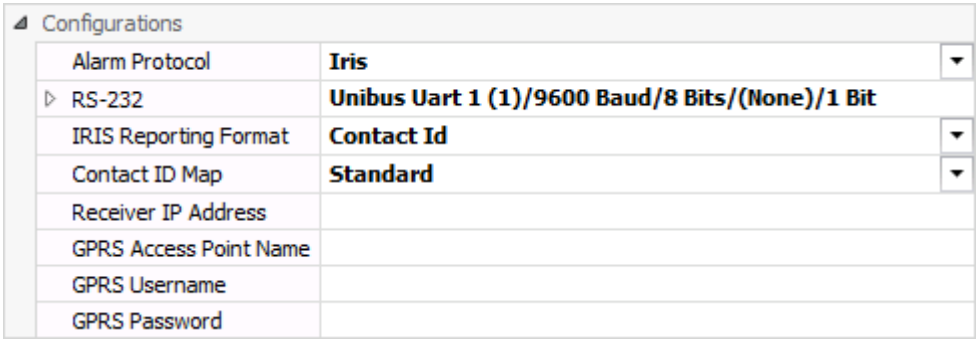
The Chiron IRIS Touch device connects to the Integriti controller via a serial RS232 interface. Any RS232 serial port of the Integriti controller can be chosen. The default port settings are 9600, 8, N, 1.

Alarm Format:

The alarm event format can be chosen to be either:

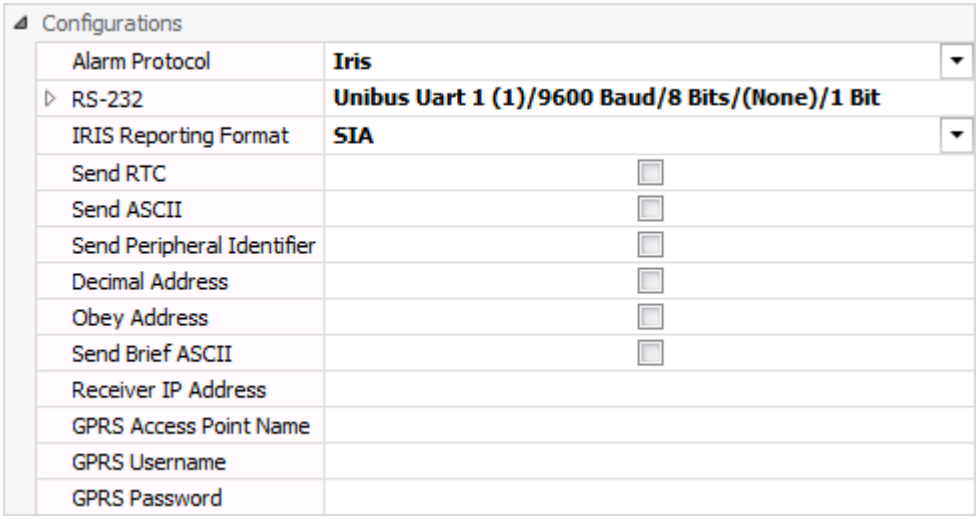
- ContactID
- SIA

ContactID Format Configuration



When the ContactID format is chosen the ContactID map can be selected

SIA Format Configuration:



When the SIA format is chosen the following settings can be configured:

Send time

When set the time of the event will be sent in the SIA alarm data

Send ASCII

When set the review text of the event will be sent in the SIA alarm data

Send peripheral identifier

When set an additional identifier is sent in the SIA alarm data

Decimal address

When set the address of input are set as decimal instead of hexadecimal in the SIA alarm data

Obey address

When set some system input events do not have an identifier sent for them (E.g. AC fail, System power up etc.)

Receiver IP Configuration:

The IRIS communicator needs to be configured with the IP address endpoint that it will communicate with.

GPRS Authentication Configuration:

If the GPRS network authentication credentials are required then the APN, username and password can be configured.

Inputs

There are three inputs that can be controlled by the Alarm Reporting CT, these are:

Input Name	Sealed State	Unsealed State
Online	The protocol is considered to be online/polling/working.	The protocol is considered to be offline/not working.
Fail	An alarm was reported successfully.	An alarm failed to be reported.
Backup	The backup communications task is not executing.	Backup communications task is delivering alarms on behalf of the Alarm Reporting communications task.

EN50131 Configuration

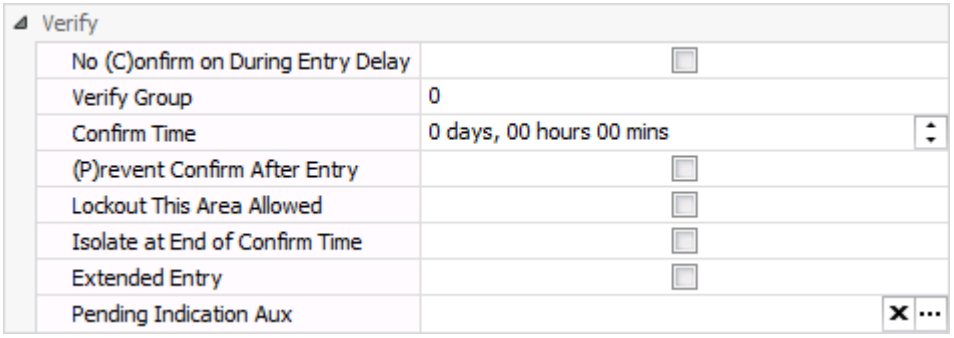


Figure 2: Area Verify Configuration

Appendix 1: Wiring Trikdis G16 TTL connection

