



INTEGRITI BMS COMMUNICATIONS TASK

DRAFT



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Integriti BMS Communications Task

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Description of the BMS Communications Task:

The BMS communications task provides a high level interface between the Integriti controller and the C-BUS automation system.

Automation primitives are used as part of the BMS integration to map Integriti entities to BMS entities (e.g. C-BUS Groups).

The BMS communications task scans over the Integriti entities used within the Automation Primitives for changes and sends data to BMS system to update it.




The BMS communications task also processes incoming messages from BMS and can update the Integriti entities.

The BMS communications task...

- Requires a BMS feature license in the controller
- Currently only supports CBUS

Configuring the communications task

To create the Automation communications task, follow the procedure below.

1. Click on the  System tab followed by .
2. Click  Add New 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 BMS.
5. Under Settings, set the BMS Protocol to C-BUS.
6. Optionally, set an input that will be used to reflect the status of the communications task.



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

For TCP connections to C_BUS

7. Expand out Tcp Options under Settings.
8. Enter the IP address of the CNI in the Server IP Address field.



The C-BUS CNI can only be configured for a static address.

9. Enter the CNI port in the TCP Port field.
10. Set the TCP Mode to Client.

For Serial connections to C-BUS


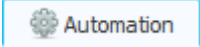


7. Expand out Connectivity followed by RS-232 Serial Interface.
8. Change the Serial Channel to the port you will be using to connect to the CNI.
9. Change the baud rate to 9600.
10. Save and close the editor window for the Communications Task.

Creating Automation Primitives

Automation primitives are used to map C-BUS groups to Integriti entities.

You will need to create an automation primitive for each BMS entity you want to control or monitor. By associating an Integriti entity with a C-BUS group using an Automation Primitive, state can be changed and monitored.

To create an Automation Primitive, follow the procedure below.

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1. Click on the  Automation tab followed by .
 2. Click  Add New to create a new Automation Primitive.
 3. In the window that appears, enter a name for the Automation Primitive and enter any necessary notes in the notes field.
 4. Under Automation Setup, set the CBus type to CBus: Lighting.
 5. Expand out CBus Lighting Options.
 6. Set the Group number to be controlled.
 7. If you are using ramp commands, set the Ramp Threshold as required.
 8. Set the Assert Command as required.
 9. If you are using ramping, set the Assert Ramp Rate as required.
 10. If you are using ramping, set the Assert Ramp Level as required.
 11. Set the Deassert Command as required.
 12. If you are using ramping, set the Deassert Ramp Rate as required.
 13. If you are using ramping, set the Deassert Ramp Level as required.
 14. Where CBus network route is required, expand out CBus Route and enter the bridge address(s) as required.
 15. Expand out Common Options.
 16. If you want the change of state of the CBus group to affect the associated Integriti entity, tick the Update Entity option.
 17. Click on the ellipsis to the right of Mapped Entity to associate an Integriti entity with the CBus group.
 18. You can optionally use a qualify entity. When this is programmed, a state change for the mapped entity is ignored unless the qualify entity is in a valid state (e.g. an auxiliary in the on state is considered valid).



Please refer to Appendix G of the System Configuration Handbook for information on entity states.

19. Optionally you can select an Associated Action. The associated action will follow the change of state of the CBus group.