

Product Engineering Guide

Compass v22 AlarmDispatch v10 MRTC

Introduction

The AlarmDispatch Compass Point sits on the Compass Network and contains security information about 100 users and can buffer up to 400 alarms.

Devices on the system that need security clearance for tokens and passwords communicate with the AlarmDispatch object to request user information about particular tokens and passwords.

Systems that generate alarms may send them to an AlarmDispatch, where they are stored until conditions are fulfilled that allow them to be routed to an alarm destination.



Supported Range

- As the AlarmDispatch Compass Point is a system enhancement module, there is no associated device for there to be a range of products.

Notes

For each user, AlarmDispatch stores the following information:

- Name
- General Security Level
- Token
- Group Number
- Enable
- Privilege Areas 1..8 Security Level

Other devices, when given a token (from a swipe-card say), requests from the AlarmDispatch the name and/or level for the user with this token. The device can then determine how to act, depending on whether AlarmDispatch recognised the token.

Each user can be enabled or disabled via an object; if disabled, then AlarmDispatch informs devices that the user currently has no privileges.

Each user can be a member of a group, and the group can be enabled or disabled; if disabled, then any user within the group is effectively disabled.

When an alarm arrives at the AlarmDispatch, it is stored within a 400 alarm buffer. Once the buffer is full no more alarms can be stored. They are only sent to the AlarmDispatch's Alarm Object when certain conditions are achieved. The conditions are: if a user-specified number of alarms have been received, or if a user-defined priority alarm has been received, or if a user-defined time is reached, or if a write is made to the Dispatch object.

If the AlarmDispatch's Alarm Object repeatedly fails to accept an alarm, the AlarmDispatch sends a 'destination failed' alarm to another alarm destination object.

Engineering

Step 1 – Mount the Compass Point

Refer to the 'Mounting' section within the '[Compass Point MRTC485 Installation Guide](#)' document for details on how to mount the Compass Point securely to a wall or within a cabinet.

Step 2 – Apply Power to the Compass Point

Refer to the 'Power' section within the 'MRTC Compass Point Hardware' document. Once power is applied, the green LED should be lit continuously to show that the Compass Point is working correctly on the Compass Network.

Step 3 – Configure AlarmDispatch Point

Use object engineering software to view and modify the module objects within the Point, including the Alarm Object which is used as the destination for alarm route failures.

Step 4 – Configure the AlarmDispatch System

Use object engineering software to view and modify the route objects within the AlarmDispatch System.

Step 4 – Test the AlarmDispatch

Send alarms to the AlarmDispatch OSM, so that the Module generates alarm messages and sends them to the desired alarm processing module.

Engineering Reference

Objects

When the Compass Point is powered-up the following objects are created on the Compass Network, use object software to access these objects.

Object	Label	R/W	Type
Dn ^[1]	AlarmDispatch Device	-	[AlarmDispatch v10]
Pp ^[2]	AlarmDispatch Compass Point	-	[Compass v22\AlarmDispatch v10]

Notes

[1] The Device Number, *n*, is a number in the range 0...63.

[2] If the Compass Point has its device number configured the Point address, *p*, is a number in the range 1...63. If no device number is set the Point address, *p*, is the Compass Point serial number in the range 1000000...9999999