Product Engineering Guide

OSM v20 CcnDp1 v12

Introduction

The CcnDp1 OSM links the Carrier Data Port 1 Module to ObServer. The Carrier Data Port 1 Module contains a database of 900 points from up to 15 Carrier Controllers.
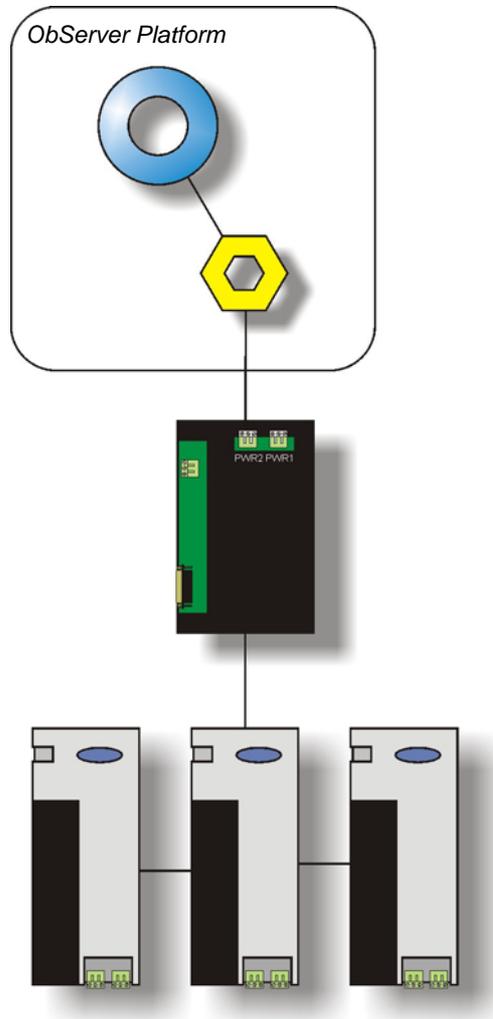
Engineering

Step 1 – Install OSM

The CcnDp1 OSM is installed automatically with all ObSys editions. Refer to the 'ObSys CD sleeve' for details on how to install ObSys.

Step 2 – Configure Carrier Data Port System

Engineering of the Carrier Data Port needs to be completed before attempting a connection to ObServer.

Step 3 – Connect COM Port to Carrier Data Port 1 Module

Using cable, connect the Carrier Data Port 1 Module to a COM port of the PC. Refer to the section 'Cable' below for details of the cable.

Step 4 – Plug in CcnDp1 OSM to ObServer

Use object engineering software to locate the ObServer Setup object. Assign the CcnDp1 OSM to an available channel. Refer to *'ObServer v20 Application Engineering Guide'.*

Note: After inserting the OSM, your engineering software may need to re-scan the ObServer object in order to view the OSM.

Step 5 – Configure CcnDp1 OSM

The COM port, baudrate, unit conversion, device number and buffer life are configured using objects. Use object engineering software to view and modify the module objects within the OSM.

Step 6 – Access Objects within the Carrier Data Port 1 Module

Values from the Carrier Data Port 1 Module are made available as objects from ObServer. Any object software that is connected to ObServer can access these objects.

When a device object is requested the CcnDp1 OSM requests the data from the Data Port. After a delay of several seconds, the Data Port sends values for all data within the controller. The CcnDp1 OSM is unable to store all these values so stores the value requested and the following nine values as a data 'block' for the time specified in the Module object Buffer Life. The CcnDp1 OSM can store the values of up to 8 blocks of such data.
The first time a device object is requested it may fail because of the time taken to receive a reply back from the Data Port. Request the object again and the CcnDp1 OSM should reply with the value stored in its buffer.

Engineering Reference

Cable Specification

The cable between COM port and the 25 way D-type on the connector labelled "COMM2" on the Carrier Data Port is as follows:

```
COM port              Data Port end
9-Way D-type          25-male D-type
    2 ————————————————————— 2
    3 ————————————————————— 3
    5 ————————————————————— 7

    Maximum Cable Length = 15m
```

```
COM port              Data Port end
25-way D-type         25-male D-type
    3 ————————————————————— 2
    2 ————————————————————— 3
    7 ————————————————————— 7

    Maximum Cable Length = 15m
```

Objects

When the OSM is loaded the following objects are created within ObServer, use object software to access these objects.

Object[1]	Label	R/W	Type
Sc	CcnDp1 System connected to channel c	-	*[CcnDp1 v12]*
Mc	CcnDp1 Module connected to channel c	-	*[OSM v20\ CcnDp1 v12]*

Notes

[1]   The ObServer channel number, c, is a number in the range 1…40.