

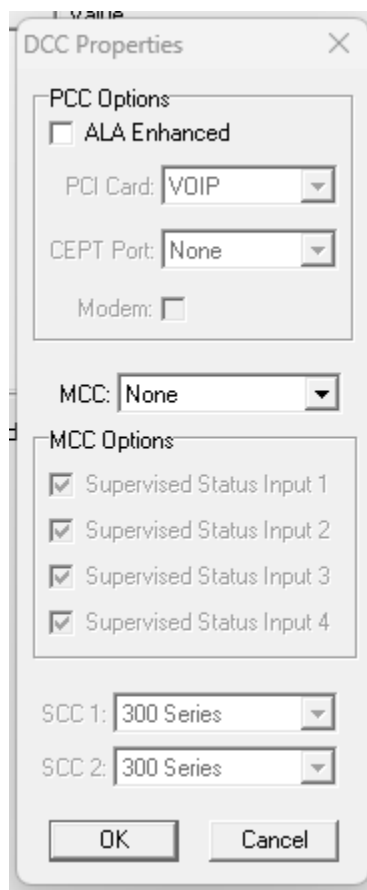
## DXL Admin Configuration

Additional notes on DXL Configurations:

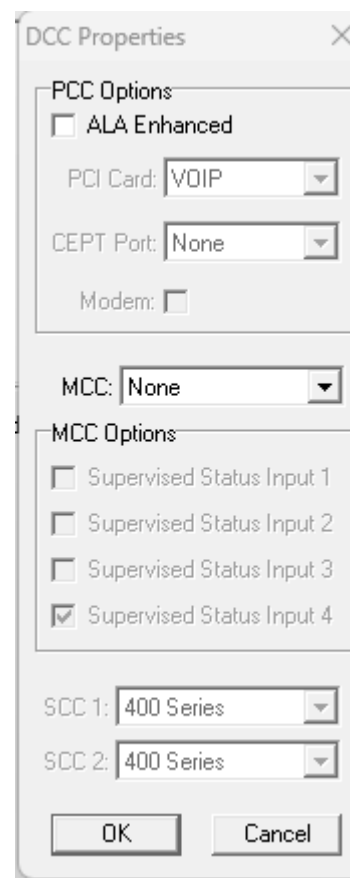
[Harding](#) ([Web view](#))

- New Project: jobnumber\_name
  - Version v01
  - Go through the setup of adding all the items in the dropdown.
  - Starting with the Exchanges -> DCC -> DCE -> Extra equipment
    - Each DCC will be an exchange.
- Make sure to add based on the Model number of the DCC  
<https://harding-tech.com/uploads/pdf/intercom/Specification%20Manuals/DS-DXL-DCC.pdf>

DCC-S100-3030-S100-00IP



DCC-S100-4040-S100-00IP



- Tones -> Station templates

Tone 1 (IC CALL UP) Properties

Identification Settings

Number: 1

Name: IC CALL UP

Info: ...

Sound: 250Hz-250ms Select...

Previous Next OK Cancel

Station Template 1 (300 Series Cells) Properties

Identification Switches Tones Call Settings Levels ALA Filters Outputs

Number: 1

Name: 300 Series Cells

Info: ...

Type: Generic Station (300 Series) ☐ Compound Member

- This allows us to add a template for all multiple stations.

Station Template 1 (300 Series Cells) Properties

Identification Switches Tones Call Settings Levels ALA Filters Outputs

Number	Function	Target
1	Call Request	

Add...  
Delete  
Properties...

Supervision

☐ Supervise Port  
☐ Timed Port

Report Faults To Master:  
None

Previous Next OK Cancel

Add call requests in the "Switches" tab. Both Moving and Series Cells should have it.

Station Template 1 (300 Series Cells) Properties

Identification Switches Tones Call Settings Levels ALA Filters Outputs

Call Announce

Start: None  
End: None  
Reminder: None

Monitor Announce

Start: None  
End: None  
Reminder: None

Call Request Acknowledge

Tone: 1 (IC CALL UP)

Previous Next OK Cancel

Add the tone

Below is what they will look like:

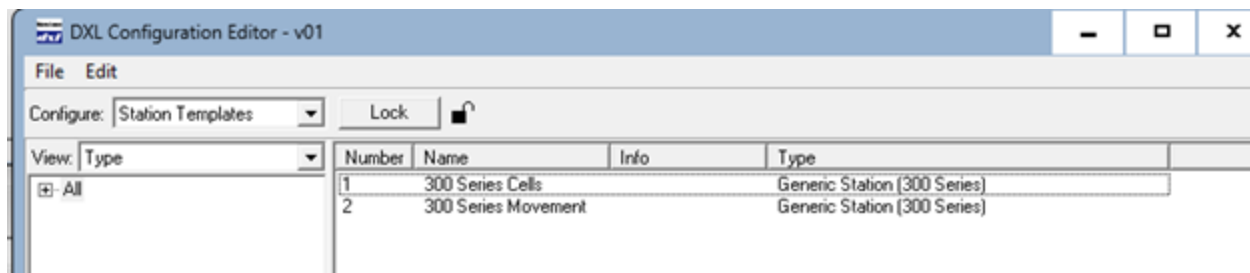
DXL Configuration Editor - V.001

File Edit

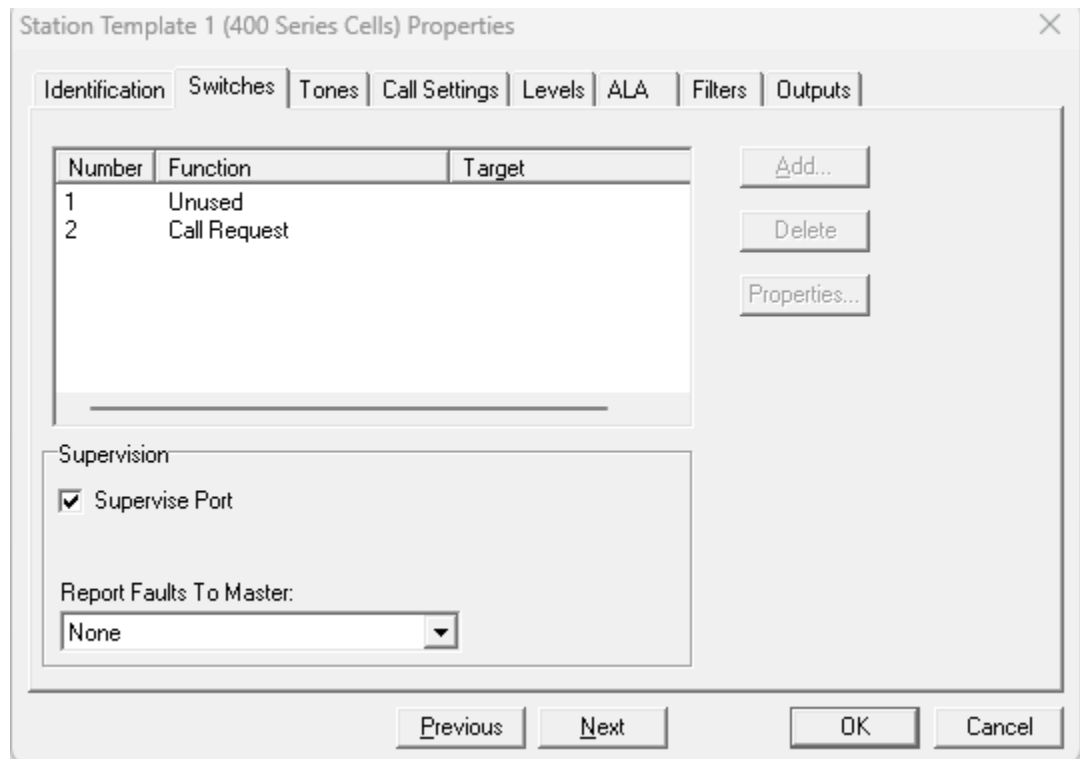
Configure: Station Templates Lock

View:	Type	Number	Name	Info	Type
+	All	1	400 Series Cells		Speaker Station (400 Series)
		2	400 Series Cells Mov		Speaker Station (400 Series)

- 400 Series



- 300 Series



- 400 Series

For 400 Series it supervises, it detects faults:  
note that number 2 "Call Request" is where it's coming from.

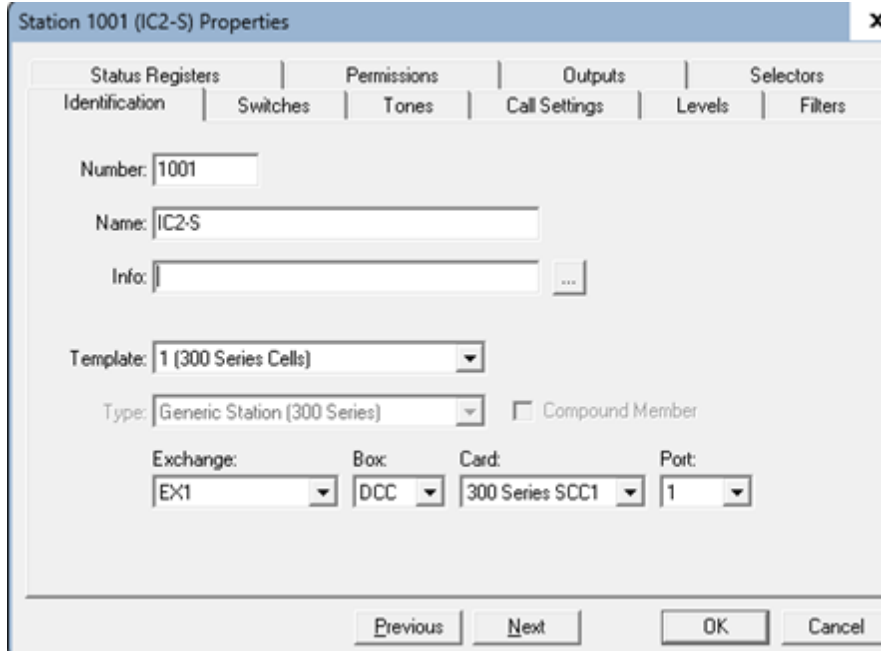
IC board in the 400 series has two buttons.

1 = Duress

2 = Calling Button

## Adding Stations

Add one station, making sure to add the right station number, Template, Exchange, Card



- Duplicate 31 times to add all the stations per DCC, DCE
- After adding all the stations its easier to rename them all with DB Browser

## Rename each station using DB Browser

**-Use the ClassInfo\_IC excel file to copy over the ic name. (k4)**

- Open DB Browser and open the DXL project file
- Go to the DXL Folder with the project
- Open the configuration.db file that's on the working version.
- Browse Data -> Table -> Device
- Device\_kind\_id groups all the type of data together.
- 6 = the station, 2 = Exchange,
- Rename all the Intercoms in "device\_name" with given name and click on "Write Changes"
- This updates the configuration.db in DXL
- This will make it easier to modify multiple lines at once

## Add Host Ports

Document: [OneDrive](#)

Add Ports to communicate from Exchange to PLC and for the HMI Commands to DCC

Exchange to PLC: Device Status P2P X1

The screenshot shows the 'Host Port 1 (EXCHANGE1-P2P PLC1) Properties' dialog box with the 'Connection' tab selected. The 'Exchange' dropdown is set to '1 (EX1)'. Under the 'Ethernet' section, the 'IP Address' is '172.22.0.151' and the 'TCP/UDP Port' is '9600'. The 'Serial' section is disabled. The 'Baud Rate' is '19200', 'Data Bits' is '8', 'Parity' is 'None', 'Stop Bits' is '1', and 'Flow Control' is 'None'.

The screenshot shows the 'Host Port 1 (EXCHANGE1-P2P PLC1) Properties' dialog box with the 'Messages' tab selected. The 'ASCII Messages' section is disabled. The 'IP Protocol' is 'TCP'. The 'Register Based Messages' section is active, with 'PLC Protocol' set to 'Omron/UDP'. The 'Normal Register Addr.' and 'Ext. Register Address' fields are both set to '5' digits with a maximum of '65535'. The 'DxL Network Address' and 'PLC Network Address' fields are both set to '0' for Network, '151' for Node, and '0' for Unit.

HMI Commands:

Host Port 2 (HMI Commands) Properties

Identification | Connection | Protocol | Messages | Monitor | Masters | Registers | Status Registers

Exchange: 1 (EX1)

☒ Ethernet IP Address: 172.22.0.151  
TCP/UDP Port: 9601

☐ Serial Serial Port: 1 Baud Rate: 19200  
Data Bits: 8  
Parity: None  
Stop Bits: 1  
Flow Control: None

Host Port 6 (HMI Commands DCC 1) Properties

Identification | Connection | Protocol | Messages | Monitor | Masters | Registers | Status Registers

Register Blocks			
	DXL Address	PLC Address	Length
Handshake:			1
Command:			5
Status:			5

Status Message Mode  
☐ Peer to peer  
☒ Polled

☐ Sequential registers

Apply Changes

Show Host Port Registers... Previous Next OK Cancel

- Polled for HMI

Host Port 2 (HMI Commands) Properties

Identification | Connection | Protocol | Messages | Monitor | Masters | Registers | Status Registers

Enabled Status Messages:

Message	Register Code
<input checked="" type="checkbox"/> Acan	46
<input checked="" type="checkbox"/> ActS	73
<input checked="" type="checkbox"/> Actv	71
<input checked="" type="checkbox"/> AdMG	239
<input checked="" type="checkbox"/> AdMS	90
<input checked="" type="checkbox"/> Agcn	268
<input checked="" type="checkbox"/> Alvl	45
<input checked="" type="checkbox"/> Bcal	236
<input checked="" type="checkbox"/> Bend	237
<input checked="" type="checkbox"/> Bmon	238
<input checked="" type="checkbox"/> BRec	241

The checked messages will be transmitted to the host system.

Status Messages:  
☐ Use Response Message Format

Response Messages:  
☒ Respond To All Host Commands  
☐ Use Status Message Format

Acknowledgements:  
☐ Wait For Acknowledge Messages  
Timeout (sec): 5

Show Host Port Registers... Previous Next OK Cancel

Host Port 2 (HMI Commands) Properties

Identification | Connection | Protocol | Messages | Monitor | Masters | Registers | Status Registers

☐ ASCII Messages  
IP Protocol: TCP

☒ Register Based Messages

PLC Protocol: Omron/UDP

Register Address Format:  
Normal: Dn (n = offset)  
(e.g. address at 2000 = D2000)  
Extended: Ebn (b = bank, n = offset)  
(e.g. bank 1 at 1000 = E11000)

Normal Register Addr.  
Digits: 5  
Maximum: 65535

Ext. Register Address  
Digits: 5  
Maximum: 65535

DXL Network Address  
Network: 0  
Node: 151  
Unit: 0

PLC Network Address  
Network: 0  
Node: 0  
Unit: 0

Master: Assign Master Control



Registers: Change to Polled

Status Registers: Master Control

DXL Node has to be the last octet of the DCC and the same for PLC