

# pRU and PCU Ethernet Configuration

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## DCS Links

The DCS components use IPBus for communication.

- IPBus Listening Port: 50001

## IP & MAC Addresses

The IP & MAC are based on the component ID.

IP Gateway: 192.168.0.1

pRU IP Address Range: 192.168.0.100 - 192.168.0.163

pRU MAC Address Range: 0x000a35000000 - 0x000a3500003F

PCU IP Address Range: 192.168.0.200 - 192.168.0.255

PCU MAC Address Range: 0x000a35000100 - 0x000a35000137

## NB! PTB

The **PTB** uses a deprecated protocol and NOT IPBus. This protocol is via TCP/IP on a 1Gb/s link.

- Deprecated Listening Port: 49153

## 10GbE Data Offload

Each pRU has a number of offload links. It uses a protocol called pDTP on top of UDP. The pRU acts as a server that responds to requests from the client.

- pRU UDP Loopback Port: 29070
- pRU pDTP Port: 30000

## IP & MAC Addresses

Both the gateway, IP & MAC are based on the RU ID.

IP Gateway Range: 192.168.100-163.1

IP Address Range: 192.168.{GATEWAY}.200 - 192.168.{GATEWAY}.203

MAC Address Range: 0x000a35FF{RU\_ID}{LINK\_NUM}

RU\_ID: 0-63

LINK\_NUM: 0-3

## NB! PTB

For **PTB**, the offload using the same link as the slow control. It will transmit data to host computer port 29070.

The PTB offload IP is locked to **192.168.1.10** and MAC address to: **0x000a35000102**