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Setup for Serial (Onboard J15/STU) connection on Challenger 10



Colin Wain
3 years ago · Updated

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Setup for Serial (Onboard J15/STU) connection:

1. From the Communications menu, select option 1 Setup, to access the Setup H/W menu.
 - From the Setup menu, select Option 1 - Onboard to configure the onboard serial port.
2. Select option 2 Setup Paths, and then select Paths menu option 4. to define a communications path record for the Ethernet connection.

Press Enter to display the first item in the path menu.

Program the format "Computer Polled", a name for the path, location "On Board", slot (or Interface Port) "RS232-STU", set the account code to match the computer address in the range 1 to 1024 (typically the same as the Challenger number), set the computer password to 0000000000, and Enable. Many of the settings are similar to the ones required for UDP/IP configuration.

Challenger J15/STU Serial Configuration:

🔧 Installer Menu 9 – Communications

- Option 1 Setup Hardware*
- Option 2 Setup Paths*
- Option 3 Status*
- Option 0 Exit*

🔧 Installer Menu 9 – Option 1 – Setup Hardware

Option 1 Onboard

🔧 Select Option 1 – Onboard Configuration

- NO – Monitor Ring
- NO – Enable PSTN Line Monitoring
- STU Baud Rate: 8 – 57600
- STU Parity; 0 – None
- STU Stop Bits; 1 Bit
- USB – Slave

- YES – Ethernet
- YES – Enable Ping
- IP Add; 192.168.0.xxx
- Subnet Mask; 255.255.255.0
- Gateway Add; 0.0.0.0

Installer Menu 9 – Option 2 – Setup Paths

Option 1 CID Dialler

Option 2 USB Installer

Option 3 Management S/W

Option 4 None – If created "Ethernet Connection"

Option 5 None – You will change this to “J15 Direct Connect” shortly

Option 6 - 9 None

Option 10 Service

Select Option 5 – None (We will now create a NEW path called ‘J15 Direct Connect’)

Path Menu Options.

- 1. Path Main*
- 2. Path Connection Control*
- 3. Path Filter*
- 8. Path Advanced Settings*

Select Option 1 – Path Main

- Format: 2 Computer Polled
- YES – Enabled (Change to YES if set at NO, * to change)
- Path Name: J15 Direct (1 - to type name)
- Set Location; 1 – Onboard
- Slot is set to: 1 – RS232 - STU
- Account Code is: 0001
- Priority over other paths is: 0 (No Priority)
- Backup Path Number: 0
- Computer Password: 0000000000 (recommended for initial setup)

Return to Path Menu Options.

Select Option 2 – Path Connection Control

- YES – Always Connect (Change to YES if set at NO, * to change)
- NO – Connect on Event (Not required if ‘Always Connect’ set to YES)
- NO – Connect on Service (Not required if ‘Always Connect’ set to YES)
- NO – Connect on Buffer on 80% (Not required if ‘Always Connect’ set to YES)
- NO – Isolate Trigger Path
- YES – Stay Connect on Empty Buffer (Change to YES is set at NO, * to change)
- YES – Control Command (Change to YES if set at NO, * to change)
- NO – Trigger Comms Fail Event
- NO – Area Account Codes

Return to Path Menu Options.

Select Option 3 – Path Filter

- Filter Event to Area: 0
- Event TimeZone: 0
- YES – Report Alarm Events (Change to YES if set at NO, * to change)
- YES – Report Access Events (Change to YES if set at NO, * to change)
- NO – Send Events Outside of TZ
- NO – Remove Unsent Events
- YES – A00: System Alarm Report (Change to YES if set at NO, * to change)
- YES – Multi Break Alarms (Change to YES if set at NO, * to change)
- YES – Multi Break Restores (Change to YES if set at NO, * to change)

- YES – Report Open/Close (Change to YES if set at NO, * to change)
- NO – Report Common Open/Close
- NO – Report Computer Connected

Return to Path Menu Options.

Select Option 8 – Advanced Settings (Defaults are ALL 0)

- Computer Attempts is: 255
- Message retry is: 3
- Retrigger Connection in: 5
- Timeout on Message ACK is: 0060mS
- Heartbeat Rate in Main is: 0000

Ensure your coms port is set to 57600 in Windows (or match's you specific device)

Note:

A quick and easy "cheat" for connecting j15 serial is to use Path 3 (Management Software) and change the hardware to RS232 and Format to Computer Polled.



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