



MULTIPATH-**IP** UPLOAD/DOWNLOAD

CHALLENGER V10 SERIAL

Version 1.2

Before You Begin

A High speed broadband Internet connection is recommended for use of the Multipath-IP upload/download feature. Using a mobile hotspot can introduce delays which may impact on the performance of the upload / download feature.

The latest version on the Multipath-IP client must be installed on the same machine as your panel software.

A com0com virtual COM port pair must be installed to link the Multipath-IP software and the panel software. Instructions on how to do this are at the end of this guide. For this guide we will be using ports 10 and 11.

Panel Setup

The Challenger V10 must be programmed for direct serial connection. Below are the settings that must be enabled. Please consult the Challenger V10 installation manual for more detailed information.

Log into the Keypad as Installer and navigate to Menu 19 Installer.
Navigate to Menu 9 Communications.

Select Option 1 Setup Hardware.
Select Option 1 Setup Menu.
Set the following options:

- NO – Monitor Ring
- NO – Enable PSTN Line Monitoring
- NO – Enable New Zealand Dialling
- STU Baud Rate: 5 – 9600
- STU Parity 0 – None
- STU Stop Bits 1 Bit
- USB – Device
- YES – Ethernet
- YES – Enable Ping
- IP Address 192.168.0.xxx
- Subnet Mask 255.255.255.0
- Gateway Address 0.0.0.0

Return to Menu 9 Communications



Select Option 2 Setup Paths.

Select Option 5 None .

Select Option 1 Path Main.

Set the following options:

- Format: 2 Computer Polled
- YES – Enabled (Change to YES if set at NO, * to change)
- Path Name: T4000 Serial (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: None
- Computer Password: 0000000000 (set as required)

Record the Computer Password as this will be used by the Titan Software as the Security Password.

Return to the Setup Paths Menu.

Select Option 3 – Path Filter.

Set the following options:

- 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 the Setup Paths Menu.

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

Set the following options:

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

Multipath-IP Client setup

Log into your Multipath-IP Client Software using your Username and Password.



Select the T4000 to use from the main grid of the Monitored STUs section.

Monitored STUs								
Drag a column header here to group by that column								
Status ▾	Client Code	Serial Number	Model	Version	Bureau ▾	Site Name	Plan	GSM Signal Strength
✓	56.0456	TM006503	T4000	3.7.0.2530	J.H Security	R&D Integrity Test - LH Controller	TC3DE - Class 3 Telstra Dua...	
✓	56.0599	TM020505	T4000 Lite	0.0.0.2567	C.N Security	Chris T4000 (DESK - Rev_G)	TC4DE - Class 4 Telstra Dua...	
✓	56.0654	TM000452	T4000	3.7.0.2530	Demonstration Bureau	Demo Account	TC3DE - Class 3 Telstra Dua...	
✓	56.0545	TM999005	T4000	3.7.0.2530	J.H Security	Nemtek test (Dan's desk)	TC3D - Class 3 Telstra Dual ...	
✓	56.0588	TM014414	T4000 Lite	3.7.0.2530	E.M Security	Paradox SP6000 Keyswitch	TC3D - Class 3 Telstra Dual ...	
✓	56.0590	TM014416	T4000 Lite	3.7.0.2530	E.M Security	Hills R128 Keyswitch	TC3D - Class 3 Telstra Dual ...	
✓	56.0572	TM999001	T4000	0.0.0.2540	E.M Security	Upload/Download Test	TC3D - Class 3 Telstra Dual ...	
⚠	88.8888	TM900179	T4000 Lite	0.0.0.2564	D.S Security	Ethernet Router Test	TC3DE - Class 3 Telstra Dua...	
⚠	56.0589	TM014415	T4000 Lite	3.7.0.2530	E.M Security	Bosch 6000 Keyswitch	TC3DES - Class 3 Telstra Du...	
⚠	56.0477	TM900180	T4000	0.0.0.2428	C.N Security	Chris T4000 (DESK - Rev_F)	TC3DE - Class 3 Telstra Dua...	
⚠	56.0647	TM020508	T4000 Lite	3.7.0.2530	123456 Security	Test Wall #2	TestMod3	

Double Click on the T4000 to open the STU details page. Go to the Upload/Download tab. From the Preconfigured Settings dropdown select Challenger V10 Serial.

STU Details

Save Changes Cancel Changes Save & Write Programming

STU Programming Upload / Download Tests Remote Control STU Console Programming Preview

Configuration for Over-The-Air upload/download of the connected alarm panel.

Select the panel type from the Preconfigured Settings list. If the client's panel type is not listed contact Multipath-IP support.

Preconfigured Settings: Challenger V10 Serial

Customized Settings (Adv):

- Mode
- Modem Settings
 - CommsChannel
 - CommsDuplex
 - CommsMethod
 - HxbCarrier
 - MinimumPanelReceive
 - RxGain
 - TxGain
- Serial Settings
 - BaudRate: 9600
 - DataBits: 8
 - Parity: None
 - SerialInterface: RS232 - Uart
 - StopBits: One

Click **Save & Write Programming** to push the changes to the T4000 immediately. If you just save changes they will be written to the T4000 the next time it polls in.

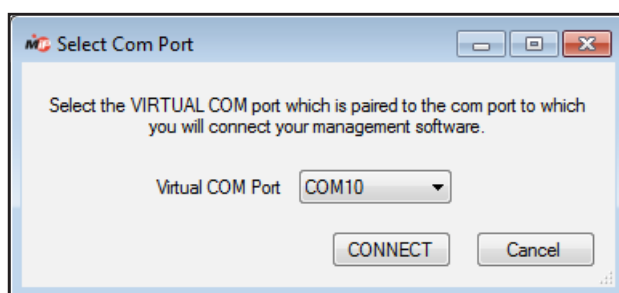
Close the STU details dialog.

Initiating Upload Download

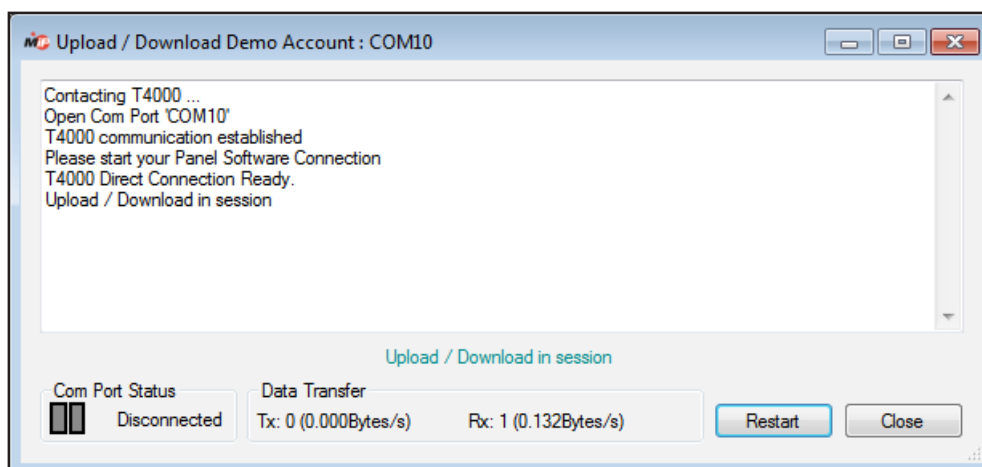
Right Click on the T4000 to use in the main grid of the Monitored STUs section. From the pop-up menu choose Upload / Download.

Monitored STUs									
Drag a column header here to group by that column									
Status	Client Code	Serial Number	Model	Version	Bureau	Site Name	Plan	GSM Signal Strength	
✓	56.0456	TM006503	T4000	3.7.0.2530	J.H Security	R&D Integrity Test - LH Controller	TC3DE - Class 3 Telstra Dua...		
✓	56.0599	TM020505	T4000 Lite	0.0.0.2568	C.N Security	Chris T4000 (DESK - Rev_G)	TC4DE - Class 4 Telstra Dua...		
✓	56.0654	TM000452	T4000	3.7.0.2530	Demonstration Bureau	Demo Account	TC3DE - Class 3 Telstra Dua...		
✓	56.0545	TM999005	T4000	3.7.0.2530	J.H Secu		TC3D - Class 3 Telstra Dual ...		
✓	56.0588	TM014414	T4000 Lite	3.7.0.2530	E.M Sec		TC3D - Class 3 Telstra Dual ...		
✓	56.0590	TM014416	T4000 Lite	3.7.0.2530	E.M Sec		TC3D - Class 3 Telstra Dual ...		
✓	56.0572	TM999001	T4000	0.0.0.2540	E.M Sec		TC3D - Class 3 Telstra Dual ...		
⚠	88.8888	TM900179	T4000 Lite	0.0.0.2564	D.S Sec		TC3DE - Class 3 Telstra Dua...		
✗	56.0589	TM014415	T4000 Lite	3.7.0.2530	E.M Sec		TC3DES - Class 3 Telstra Du...		
✗	56.0477	TM900180	T4000	0.0.0.2428	C.N Sec		TC3DE - Class 3 Telstra Dua...		
✗	56.0647	TM020508	T4000 Lite	3.7.0.2530	123456		TestWorld3		
✗	56.0179	TM003010	T4000 Lite	0.0.0.2429	M.V Tes		st - DO NOT CHANGE TC3DES - Class 3 Telstra Du...		

You will be prompted to select a COM port. Select one of the com0com virtual COM port pair ports and click Connect. For consistency we recommend using the lower port of the COM port pair.



The Upload Download dialog will open and contact the T4000 starting the session. Once the phrase **Please start your Panel Software Connection** has been displayed you can open your panel software and initiate the connection to the panel.



Panel Software Setup and Connection



Deactivate your System in the Titan software if it is active.
Flag Zero Challenger Address.

The screenshot shows the 'System' configuration window. It includes fields for 'System No' (88), 'Description' (Challenger 10 Serial), 'Poll Rate' (200 ms), 'Heartbeat Timeout' (100 Seconds), and 'Poll Timeout' (30 Seconds). There are checkboxes for 'Ignore Challenger events' (checked), 'Zero Chall Address' (checked), 'Active System' (unchecked), 'Enable Auto Answer' (unchecked), 'Default System' (unchecked), and 'SecureStream Pass-through' (unchecked). A 'Send' button is next to the last checkbox. Below these is a 'Dial Options' section with 'Redial Timeout Between Calls' (14 Seconds), 'Number of Rings' (3), 'Number Of Calls' (1), and an unchecked 'Answering Machine Defeat' checkbox. At the bottom is a 'Modem Status' field and three buttons: 'Dial', 'Hang-Up', and 'Auto Answer'.

In the Admin > Ports menu, set the Comms Port to the applicable Port e.g COM11
Flag 9600 in the Baud Rate field and set the Comms Mode to Direct. Click Save and close this Window

The screenshot shows the 'Ports' configuration window. It includes fields for 'Port' (1), 'Description' (empty), and 'Comms Port' (COM 11). The 'Baud Rate' section has radio buttons for 300, 600, 1200, 2400, 4800, 9600 (selected), 19200, 38400, and 57600. The 'Comms Mode' section has radio buttons for None, Direct (selected), Via Modem, Card Programmer, UDP/IP, and USB. At the bottom is a 'Modem Init String' field and a 'Select' button.

- In the Admin>Challenger menu ensure the Port is set to the same Port number you are using for this Modem Setup. E.g Port 1 displayed below is pointing to the Port 1 that was created as pictured above
- Check the Security Password is correct
- Set a number in the Phone Number field
- Set the Mode to Direct
- Fill in other applicable fields such as Description, etc if desired
- Click Save then close this Window

Challenger

Challenger Options

Type: Challenger10 ☒ IUM installed

Challenger No: 1 Security Password: 0000000000

Description:

Location:

Phone:

Route: Port: 1 Address: 1

Mode:

☐ None ☐ Call Back

☒ Direct ☐ UDP/IP

☐ Multi-Ring ☐ USB

Cycle:

☐ Once ☐ 4 Hourly ☐ Weekly

☐ Hourly ☐ Daily

Connect Date: Time: Duration:

☐ SecureStream Pass-through

At this point you can now flag Active System and click on the Save icon to start the session.

System

System Options

System No: 88

Description: Challenger 10 Serial

Poll Rate: 200 ms Heartbeat Timeout: 100 Seconds

Poll Timeout: 30 Seconds

☒ Ignore Challenger events ☒ Zero Chall Address

☒ Active System ☐ Enable Auto Answer

☐ Default System ☐ SecureStream Pass-through

Dial Options

Redial Timeout Between Calls: 14 Seconds

Number of Rings: 3

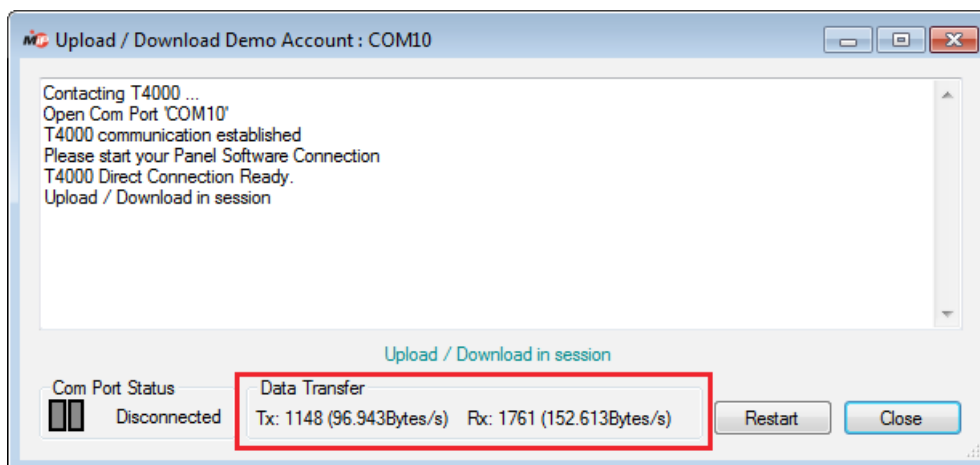
Number Of Calls: 1

☐ Answering Machine Defeat

Modem Status:

Verifying and closing Upload Download

Once the Panel software initiates its connection data will start to pass through the T4000. In the upload download window the Data Transfer Tx and Rx values will start to increase.



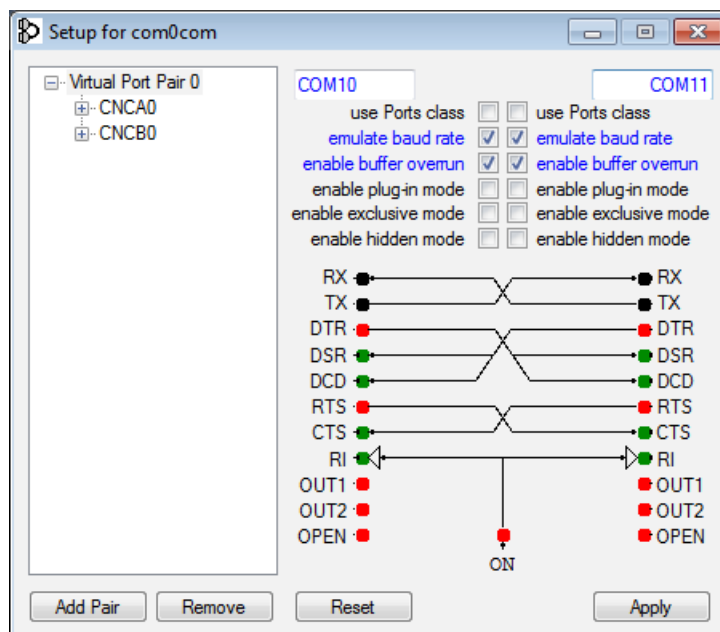
If you do not see any change in these values check the configuration of your Multipath-IP client and your Panel software.

At the end of your upload download session disconnect your panel software as normal. Once the panel software has disconnected close the Multipath-IP upload download window.

com0com Setup

Open the com0com **setupg.exe** as an administrator. By default this will be installed in C:\Program Files (x86)\com0com

Click on Add Pair to create a new virtual COM port pair.



Once the pair is added they must be renamed as COM numbers. We recommend using COM10 and COM11, if these ports are already in use you can use different numbers.

Emulate Baud Rate and Enable Buffer Overrun must be enabled on both ports.

After these changes have been made click Apply. Once complete close the com0com setup.