Application Note: Over The Air Updates

SUMMARY

Starting with Version 6.1.0 of the target firmware, software updates can be carried out simply by pressing a button on power up and letting the target update itself from a remote web site. This simplifies the operation of the target and makes maintenance much easier.

This application note provides the instructions for loading new software onto the FreeETarget using an internet connection.

REQUIRED

- FreeETarget PC software version 4.10.2 or higher
- Target loaded with firmware version 6.1.0 or higher
- The target connected to the home network with internet access

OVER THE AIR UPDATE

Before beginning the update, make sure that the target is on the home network, and that network is connected to the internet. Targets using the FET-TARGET SSID will not be able to use this feature.

To update the software, carry out the following steps

1. Power off the target
2. Press and hold the #1 button. Do not release!
3. Apply power to the target
4. Wait until the RDY LED turns BLUE. This is the signal that the upload has begun
5. You can let go of the #1 button
6. The X LED will blink blue as the upload process continues
7. The upload ends when the RDY LED stays BLUE, and the X and Y buttons change to RED or GREEN.
8. Observe the colours of the X and Y LEDs
9. Press the #1 button to end the process and start the target running

FINISHING

When the update is complete, the LEDs will tell you whether or not the upload was successful

RDY	X	Y	Description
BLUE	GREEN	GREEN	The update was successful and the target it ready to run

BLUE	RED	DARK	The target could not reach the internet.
			Check your router and internet.
			Verify that the target is on the home network and that the target connected to the router.
BLUE	DARK	RED	The update failed. Possible cause: internet failed
BLUE	RED	RED	The update failed and should not be repeated. This error occurs if there is a defect in the download file that needs to be connected at the server and not the target.

ROLLBACK RECOVERY

If something goes wrong with the new software, you can fall back to the previous version by

1. Remove power from the target
2. Press and hold the #1 button. Do not release!
3. Apply power to the target
4. Wait until the RDY LED turns BLUE. This is the rollback has completed