



SERVICE BULLETIN ASM-015

Product: Antenna System Monitor

Subject: Firmware 2.50e Release

Date: 25th February 2015

Description

This Service Bulletin announces the release of baseline 2.50e firmware for the Antenna System Monitor (ASM) series products.

The version 2.50e firmware update file (“FFP”) is available for download from the RFI website http://www.rfiwireless.com.au/multicoupling-monitoring/monitoring/antenna-system-monitor-asm3852.html#tab_downloads, and may be flashed into existing ASM models by following the *Maintenance – Firmware Update* process in the Graphical User Interface (GUI) or User Manual.

Product Enhancements

The version 2.50e firmware addresses the following product issue;

Status - Site Alarm Monitor, Module 1				
Customer Name -		NWRL		
Site Name -		CSH		
Model	Serial Number	Firmware Version	Hardware Revision	
SAM	13058071	2.0	1	
External Alarm Input	Input ID	Input Value	Status	
Ext1-1	Equipment Room	25.1 °C	OK	
Ext1-2	Battery Bank	12.10 V	OK	
Ext1-3	Door Alarm	High	OK	
Ext1-4	Not defined	n/a	Not in use	
Digital Input	Input ID	Function	Status	
DI1-1	Base Station Ch 1	PTT	Inactive	
DI1-2	Not defined	Not in use		
DI1-3	Not defined	Not in use		
DI1-4	Not defined	Not in use		
DI1-5	Not defined	Not in use		
DI1-6	Not defined	Not in use		
DI1-7	Not defined	Not in use		
DI1-8	Not defined	Not in use		
DI1-9	Not defined	Not in use		
DI1-10	Not defined	Not in use		
Alarm Output	Alarm Source	Status		
SAM1-1	Tx1-1, 408.21250 MHz, O&M Ch 1	Inactive		
SAM1-2	Ext1-2, Battery Bank	Inactive		
SAM1-3	Alarm not in use	Inactive		
SAM1-4	Alarm not in use	Inactive		
SAM1-5	Alarm not in use	Inactive		
SAM1-6	Alarm not in use	Inactive		
SAM1-7	Alarm not in use	Inactive		
SAM1-8	Alarm not in use	Inactive		
SAM1-9	Alarm not in use	Inactive		
SAM1-10	Alarm not in use	Inactive		

- i) If a SAM or CAM module is fitted to the ASM, and the PTT option is selected for a channel, no measurement will be made on that channel if the PTT line input is not active. In previous firmware versions the channel would be measured and then the measurement discarded if the PTT line was not active at the time.

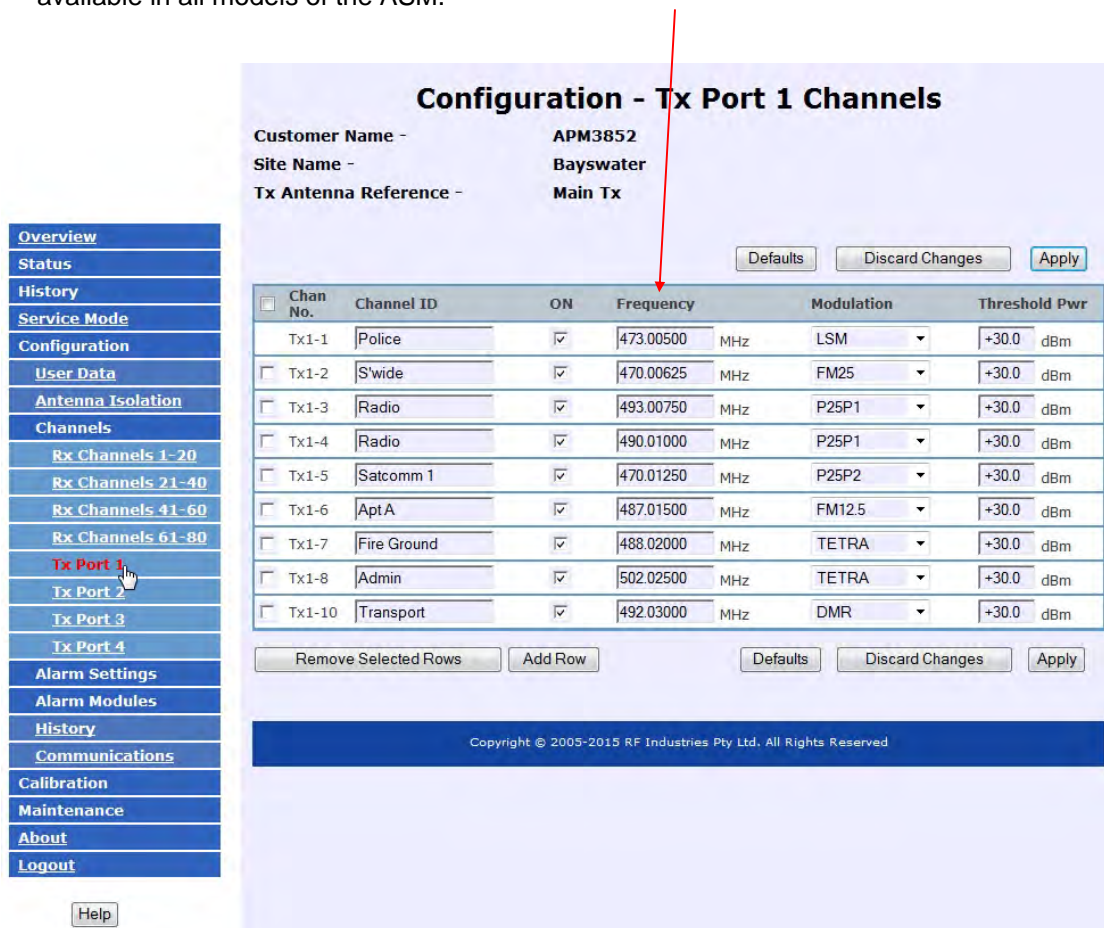
This change allows the ASM to cycle through channels being measured more quickly.

If a PTT line is active when that channel is reached in the measurement cycle, a measurement of that channel is actioned, and if no valid output power above the configured threshold value is detected, then an alarm is raised to indicate a likely failed Base Station RF Power Amplifier output.

The version 2.50e firmware also provides the following new feature;

ii) 1.25KHz Channel Frequency Step Size

Channel frequencies on any 1.25KHz multiple can now be programmed into the ASM. This feature allows 5KHz, 6.25KHz, 7.5KHz, 10KHz, 15KHz, 20KHz and 30KHz channel frequency steps to be catered for. This feature is more commonly required in the VHF band, but is made available in all models of the ASM.



Chan No.	Channel ID	ON	Frequency	Modulation	Threshold Pwr
<input checked="" type="checkbox"/>	Tx1-1 Police	<input checked="" type="checkbox"/>	473.00500 MHz	LSM	+30.0 dBm
<input type="checkbox"/>	Tx1-2 S'wide	<input checked="" type="checkbox"/>	470.00625 MHz	FM25	+30.0 dBm
<input type="checkbox"/>	Tx1-3 Radio	<input checked="" type="checkbox"/>	493.00750 MHz	P25P1	+30.0 dBm
<input type="checkbox"/>	Tx1-4 Radio	<input checked="" type="checkbox"/>	490.01000 MHz	P25P1	+30.0 dBm
<input type="checkbox"/>	Tx1-5 Satcomm 1	<input checked="" type="checkbox"/>	470.01250 MHz	P25P2	+30.0 dBm
<input type="checkbox"/>	Tx1-6 Apt A	<input checked="" type="checkbox"/>	487.01500 MHz	FM12.5	+30.0 dBm
<input type="checkbox"/>	Tx1-7 Fire Ground	<input checked="" type="checkbox"/>	488.02000 MHz	TETRA	+30.0 dBm
<input type="checkbox"/>	Tx1-8 Admin	<input checked="" type="checkbox"/>	502.02500 MHz	TETRA	+30.0 dBm
<input type="checkbox"/>	Tx1-10 Transport	<input checked="" type="checkbox"/>	492.03000 MHz	DMR	+30.0 dBm

Upgrading to Firmware 2.50e

Note: Please read all Service Bulletins published from the release of the firmware currently operating in your ASM prior to commencing an upgrade to this version 2.50e firmware. Upgrades may require a transition through an intermediate firmware version on the way to reaching this version - or may have other implications for your ASM.

Firmware 2.50e *cannot* be applied to units currently operating firmware earlier than 2.0. Units must be updated to firmware 2.0 or 2.05 prior to attempting an update to 2.50e.

Cost Impact

Firmware version 2.50e is available to RFI customers at no charge.

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