Anritsu envision : ensure

Generating a Custom Waveform File for use on the MT8870A

Universal Wireless Test Set MT8870A

Introduction

This application note explains how to use the MT8870A waveform generator tool to generate a custom waveform file and load it to the MT8870A.

When you purchase an MV8870xxA wave file option, the MT8870A is pre-installed with a number of standard waveform files for your chosen wireless standard. If however, you have a specific requirement to test a different waveform, you can use the Waveform File Generator to create custom wave files to your exact requirements.

Generate the Waveform

- 1. Install the Anritsu CombiView and CombiView SRW Applet. Note: The installation may several minutes to complete.
- 2. Launch the Waveform File Generator.

Path Loss	Tools VSG	Window Help	
	Co	onfigure VSG	
	Ge	enerate Waveform Files	
d Segment:	CW M	anage Waveform Files	
		En la constante de	0.000 ms
		Auto Level	
/aveform File G	enerator V3.00.2	3	
Wireless Standard		Packet Parameters	
802.11b	•	PSDU Length (bytes):	1024 📿
		Data Rate (Mbps):	11 •
		Bandwidth (MHz):	20 -
MAC Addresses -		Preamble:	Long 👻
Address 1: FF	FFFFFFFFF	Inter-packet Gap (us):	30 1
Address 2: 20	2222222202	Adv. RE Cata Controls	Standard -
Address 3: 50	555555555555555555555555555555555555555	Adv. RF Gate Condiol.	Standard 1
Address 4: 64	4D20030000		
File Parameters -			
File Version:	01.00.00		
Local Folder:	C:\Users\Public\E	Documents\Anritsu\CombiVie	Browse
File Name:	MV887030A_b_1	1_1024LC	
	Upload to MT8	870	
	waveform/		Browse
MT8870 Folder	in a reconting		0.01100111
MT8870 Folder:			
MT8870 Folder:	Gen	erate Waveform File	

Figure 1. Waveform File Generator

- 3. Select the wireless standard (802.11a/b/g/n/p/ac, or *Bluetooth*).
- 4. Set the "Packet Parameters" as required.
- 5. Set the MAC address or *Bluetooth* address of the DUT at "Address 1".
 - The MAC addresses are unlikely to be critical to testing, but can be set if required.
 - Address 1 is the destination *Bluetooth* or MAC address.
 - Address 2 (WLAN only) is the sender MAC address.
 - Address 3 (WLAN only) is the BSSID.
 - Address 4 (WLAN only) is not relevant to testing.

6. Leave the "File Parameters" at their default settings:

- The file is generated at the location specified at "Local Folder". Default waveform files are generated at C:\Users\Public\Documents\Anritsu\CombiView\SRWApplet\SRW Waveform File
- The file name is set automatically based on the wireless standard and the parameter settings. Custom waveform files all have a "C" at the end of the file name.
- 7. Click [Generate Waveform File].

Load the Waveform to the MT8870A

- 1. Check [Upload to MT8870A] in the Waveform File Generator window.
- 2. Click [Generate Waveform File]. Created custom waveform is automatically uploaded to the MT8870A memory.

• The generated wave files are loaded to the MT8870A memory using the MX887900A Utility Tool.

vireless Star	ndard	Packet Parameters	
802.11b	•	PSDU Length (bytes):	1024
		Data Rate (Mbps):	11 .
		Bandwidth (MHz):	20 -
AC Address	ies	Preamble:	Long
Address 1:	FFFFFFFFFF		-
Address 2.	202222222202	Inter-packet Gap (µs):	30
A001635 2.	LOLLLLLUU	Adv. RF Gate Control:	Standard
Address 3:	505555555555		
Address 4:	644D20030000		
ile Paramete File Vers	ers sion: 01.00.00		
ile Paramete File Vers Local Fol	ers sion: 01.00.00 ider: C:\Users\Public\C	Documents\Anritsu\CombiVie	Browse
ile Paramete File Vers Local Fol File Na	ers sion: 01.00.00 ider: C:\Users\Public\C me: MV887030A_b_1	Documents\Anritsu\CombiVie	Browse
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Figure 2. Upload to MT8870A