

BSI Simian settings for DEVA Audio Processors RDS Console

BSI Simian is software fully compatible with several devices from DEVA's Audio Processors product line:

- DB6400 FM & Digital Radio 4-Band Processor;
- DB64-FM Budget 4-Band FM Radio Processor;
- DB6000-STC Stereo and RDS Generator.

1. Set-up for the DEVA Audio Processor

1.1 Open the device's WEB Interface, then go to Dynamic RDS > section Dynamic PS.

1.2. DPS setup - Allow the usage of dynamic PS by setting Scroll Speed to a non zero value using WEB interface or the ASCII command DPSS.

Example:

DPSS=5

DB6400 - /	Advanced FM	and Digital Radio	4-Band Processor					
IN: FALLBACK: I	P Stream - BG Radio	Live Str Active preset	: F1:AC		TRIG: 1234	5678 16	5 Nov 2016 Sessio 07:06:58 58:4	on: 9 Logout
Input, dBFS -5.2 -4.7 -10 -20 -30 -30 -30 -50 Dynamic PS DPS Text: Scroll Speed: Parse Mode: Radio Text RT Speed:	AGC 12.3 -5 -5 -10 -5 -20 -25 -30 DE6400 Digital Processor 0 - DPS Disabled 1 - Slowest 2 3 4 5 6 7 8 9 - Fastest	Multiband AGC, dB 19.1 16.8 13.3 12.0 	Multiband Limiter, dB 5.4 4.2 0.0 3.1 9 - - - - 9 - - - - 9 - - - - - 9 - - - - - - 9 - - - - - - - - 9 - <	ST Limiter 0.0 - 0 - 40 - 60 - 80 - 80 - 90 - 100 - 80 - 90 - 100 - 0 - 100 - 0 - 0 - 10 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -	Limiters, dB 6.2 7.4 4.6 	Output, dBFS -0.1 0 -0.0 -0.1 -0.0	98.7 100 98.7 100 98.7 100 − 40 − 40 − 40 − 40 − 40 − 40 − 51 − 88 − 40 − 96 − 74 − 88 − 88 − 96 − 98 − 88 − 88 − 98 − 98 − 88 − 98 − 98	
								Basic RDS
							Save	Output





1.3 Determine the appropriate mode of displaying of the dynamic PS text using WEB interface or the ASCII command PARSE. When PARSE is set to 0 (words centered) or 9 (words justified to the left), parsing will send the short words together. Long words (up to and including 8 characters) are sent individually/separately. Words exceeding 8 characters are "sidestepped" through two or more consecutive displays. When PARSE is set between 1 and 8, the message is scrolled from 1 to 8 characters at a time without dividing into word groups.

Example:

PARSE=0

DB6400 - Advanced FM and Digital Radio 4-Band Processor								
IN: FALLBACK: I	P Stream - BG Radio Live Str	Active preset: F1:AC	1	TRIG: 12345)678 ¹⁶	Nov 2016 Session: 7:07:34 58:13	Logout	
Input, dBFS -5.2 -4.7 -10 - -20 - -30 - -50 - R	AGC Multiband (11.8 15.2 16.8 1 - 5 - 10 - 5 - 20 - 25 - 25 dB - 30 - 15 - 6 - 15 - 15 - 16.8 1 15 - 16.8 1 	AGC, dB 3.7 12.7 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5	ST Limiter 0.0 7. 0 -0 7. 0 -20 -40 12 -60 -80 24 -100 H	Limiters, dB .4 8.1 4.7 	Output, dBFS -0.2 0.1 -1.0 - -2.0 - -3.0 - -5.0 - L R		Operate Bypass Status	
DPS Text:	DB6400 Digital Audio Processor	PTYN PTYN: DB6400 PTYN Enable: Enabled	Disabled	RDS Conso Server: Timeout:	Enabled	Disabled	Settings Presets	
Scroll Speed: Parse Mode:	0 - DPS Disabled 9 - Left Justified			TCP Port: Password:	2233		Input AGC	
RT Speed:	0 - Centered 1 - Scroll by 1 letter 2 - Scroll by 2 letters 3 - Scroll by 3 letters	CT Enable: Enabled	Disabled				EQ Enhancer	
	4 - Scroll by 4 letters 5 - Scroll by 5 letters 6 - Scroll by 6 letters						Multiband 1 Multiband 2	
	7 - Scroll by 7 letters 8 - Scroll by 8 letters 9 - Left Justiffied						Final Limiter MPX	
							Basic RDS	
						Save	Output	

1.4 In section RDS Console:

- Server [Enable] the RDS console remote access;
- *Timeout* specify session timeout. Upon expiration of the time set the connection will be closed;
- *TCP Port* enter the TCP port of the RDS console. This console is used to edit RDS settings in real time. Default value is 2233;
- *Password* Password identification support depends on the software. If your software does not support this feature, the field must be left blank. For further information on whether a password should be set, please refer to the complete user manual of the Automation Software, or the provider.

WHEN APPLYING NEW SETTINGS - In order new settings to take effect, it is necessary to press the [Save] button.





2. ENCO Software configuration

1. A Metadata template could be created with an ASCII text editor (such as Notepad, for an instance). Use the Meta variables as enlisted below to build your PAD output (refer to figure 1 for example, %ARTIST% and %TITLE% are the metavariables used).

%ARTIST%	Artist/Advertiser field
%TITLE%	Title Description field
%ALBUM%	Album field
%CATEGORY%	Category field *(refer to the SimpleCast note)
%LENGTHMILS%	Audio file duration in milliseconds
%LENGTHSECONDS%	Audio file duration in seconds
%LENGTH%	Audio file duration in mm:ss
%FILENAME%	Physical filename of audio file
%PASSWORD%	Password entered in the corresponding HTTP output profile
%USERNAME%	Username entered in the corresponding HTTP output profile
%URL%	URL field
%PUBLISHER%	Publisher field
%COMPOSER%	Composer field
%GENRE%	Genre field
%YEAR%	Year field
%COMMENTS%	Comments field
%STATIONID%	Station ID field
%COPY%	Copy field
%COPYRIGHT%	Copyright field
%DESC%	Description field
%PROGRAMLOG%	Program Log file name
%ALBUMARTFILENAME%	File name of currently displayed station logo or album art



Figure 1

"DPS =" is ASCII command that sets the Dynamic PS. The Meta variables will be replaced with the respective metadata, while "Now playing" and "by" are static parts of the text - i.e. they will remain unchanged. After the substitution, an exemplary result would be:

DPS = Now Playing I've Been Everywhere by Johnny Cash





The following options could be applied:

DPS=if you want the artist and song information to go to the PS field.

or

TEXT=if you only want it to go to the Radio Text field.

or

DPSTEXT=if you want the information to go to both PS and RT fields.

NOTE: Keep in mind that the resulting strings (after the metadata substitution), will be reduced to the first 64 characters. For that reason, it is advisable that the static part of the text be as brief as possible.

2. Copy the created template file "*DEVA_Audio Processor_Template.txt*" to the directory where the Simian (usually to figure as C:\BSI32) files are located.

3. Go to **Tools->Program** Options; Click on the Metadata tab.

General	Events	Paths	Log Import	Categories
FlexTime	Remote	HTML	Streaming	Metadata
Metadata 1				
emplate File Name		IP Address	Port	O UDP
C:\BSI32\DEVA_Sm	artGen_template.tx	192.168.20.168	1024	TCP
Replace Excluded	d Categories with Defa	ult Fields		
Metadata 2				
emplate File Name		IP Address	Port	O UDP
		127.0.0.1		C TCP
Replace Exclude	d Categories with Defa	ult Fields		
Orban Metadat	a —			
emplate File Name		IP Address	Port	
:\BSI32\orban_temp	plate.xml	127.0.0.1		💿 UDP
Replace Exclude	d Categories with Defa	ult Fields		
Omnia Metada	ta			
Template File Name		IP Address	Port	
:\BSI32\omnia_tem	plate.bd	127.0.0.1		C UDP
Replace Exclude	d Categories with Defa	ult Fields		
ault Artist / Advertise	r Default	Title / Description	Default UBI	





4. Check to activate Metadata 1. Click on the Browse for File button (...) and select the file "DEVA_Audio Processor_Template.txt"

5. Enter in the IP and port fields the IP address and port for the Audio processor, and select the connection type (UDP or TCP).

To ensure that the connection will be successfully built, verify first that the selected port is set in the Audio Processor (and routed, likewise). Upon completion of the procedure, the window should look like this:

For more extensive information on Simian, please visit <u>www.bsiusa.com</u>

