

# ENCO settings for DEVA Audio Processors RDS Console

ENCO 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 a	nd Digital Radio	4-Band Processor				C		DEVA BROADCAST
IN: FALLBACK: I	P Stream - BG Radio Li	ve Str Active preset	: F1:AC		<b>TRIG:</b> 1234			ession: 58:49	Logout
Input, dBFS -5.2 -4.7 -0 -4.7 -20 - -30 - -30 - L R Dynamic PS - DPS Text:	12.3 19 - 0 - 5 - 10 - 15 - 20 - 25 - 30	Aultiband AGC, dB 9.1 16.8 13.3 12.0 9.1 16.8 13.3 12.0 12.0 12.0 12.0 12.0 12.0 12.0 12.0		ST Limiter 0.0 - 20 - 40 - 60 - 80 % - 100	Limiters, dB 6.2 7.4 4.6 	Output, dBFS -0.1 -0.0 -10.0 -20.0 -30.0 -30.0 L R sole Enabled	- 60 - 40 - 20 % - 0 dBr	- 12 - 8 - 4 - 0 4 8	Operate     Bypass     Status     Settings
Scroll Speed: Parse Mode: Radio Text — RT Speed:	0 - DPS Disabled 0 - DPS Disabled 1 - Slowest 3 4 5 6	ed •	te & Time	Disabled Disabled	Timeout: TCP Port: Password:	2233	30:00	) min	Presets Input AGC EQ Enhancer Multiband 1
	6 7 8 9 - Fastest								Multiband 2 Final Limiter MPX Basic RDS Dynamic RDS
							Sa	ve	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 F	Radio 4-Band Processor			
IN: FALLBACK: I	P Stream - BG Radio Live Str Active	preset: F1:AC	TRIG: 12345678	16 Nov 2016 Session: 07:07:34 58:13	Logout
Input, dBFS -5.2 -4.7 -10 - -20 - -30 - -50 - L R	AGC Multiband AGC, d 11.8 15.2 16.8 13.7 12 - 5 - 5 - 10 - 25 - 6 - 6 - 20 - 25 - 6 - 6 - 7 - 7 - 10 - 7 - 7 - 7 - 8 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	r Limiters, dB Output, dBF 7.4 8.1 4.7 0 	98.9 6.6	Operate Bypass Status
- Dynamic PS - DPS Text:	DB6400 Digital Audio Processor	PTYN PTYN: DB6400 PTYN Enable: Enabled Disabled	RDS Console Server: Enat Timeout:	led Disabled 0 30:00 min	Settings Presets
Scroll Speed: Parse Mode:	0 - DPS Disabled 9 - Left Justified 0 - Centered		TCP Port: 2233 Password:		Input AGC EQ
RT Speed:	1 - Scroll by 1 letter 2 - Scroll by 2 letters 3 - Scroll by 3 letters 4 - Scroll by 4 letters	CT Enable: Enabled Disabled			Enhancer Multiband 1
	5 - Scroll by 5 letters 6 - Scroll by 6 letters 7 - Scroll by 7 letters				Multiband 2 Final Limiter
	8 - Scroll by 8 letters 9 - Left Justiffied				MPX
					Basic RDS Dynamic 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. Start the *PADapult* and enter your station's data;

🖗 PADapult - (c)ENCO Systems 2005-2015 - v15.0b.142	
	Log Config Auto Inputs Reload
Catapult Your Data Out There	Destinations
Title London Calling	Enabled Connected
Artist The Clash	
Album	
Genre Group 1980S Length 196.80	
Station Data	
ID Curry College Radio WMLN 91.5	
Slogan WMLN 91.5	
Comment	
Now in AUTO Mode PADapult My Data	
Format: DAD XML	
^	
	Scheduled Messages
└─ verbose	





2. Click on one of the available purple buttons in section *Destinations*. The following window will appear:

PADapult Output Configuration for "DEVA RDS Encoder"							
Destination Info							
TCP/IP Socket         Port         Bytes Sent         Serial Port         Format (e.g., 2400,N,8,1)         Bytes Sent           10         109         43         20         1025         147         5         9600,N,8,1         0           Close IP Socket after each Send         5         9600,N,8,1         0							
UDP Datagram       HDR HDP/PSD       Pre V4 Importer         Port       Bytes Sent         10       109       43       20       5001       0         Multiple Receivers       Receiver List       HeartiRadic       URL:       URL:							
Image: Server.       Filename:         User       Password:         XML/File Style:       "POST" method is used unless "GET" is selected         Image: Passive Mode (PASV)       Port							
Default Output Format Template for IP Socket							
DPS=[TITLE] [ARTIST] [13]							
ex: [TITLE] by [ARTIST] playing now on [STATIONID] Output Delay 0 Force UPPERCASE XML Btyle: Group Formats							
ACCEPT Destination Name: DEVA   Process Scheduled Messages  Reset Bytes Sent  Initialize I/O on Accept  CANCEL							

3. Enable the *TCP/IP Socket* and specify the *IP* and *Port* of the DEVA Audio Processor encoder (as depicted above);

4. Then go to **Default Output Format Template for IP Socket** section. To send the data to the PS field of the encoder, write the following command DPS = [TITLE] [ARTIST] [13]. Where [13] is command meaning enter.

"DPS =" is ASCII command which sets the Dynamic PS. An exemplary result would be:

DPS	=	London	Calling	The	Clash
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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.

5 PADapult - (c)ENCO Systems 2005-2015 - v15.0b.142	⇔ <b>• • ×</b>
ENCO	Log     Config       Auto Inputs     Reload
Catapult Your Data Out There	Destinations
Title London Calling	Enabled Connected
Artist The Clash	DEVA RDS Encoder
Album	
Genre Group 1980S Length 196.80	
Station Data	
ID Curry College Radio WMLN 91.5	
Slogan WMLN 91.5	
Comment	
Now in AUTO Mode Input: File Scan Format: DAD XML	
Aug.20.15 12:15:24 IP Output for DEVA RDS Encoder Connected! Aug.20.15 12:18:41 DEVA RDS Encoder: DPS=LONG COOL WOMAN IN A BLAC	
Aug.20.15 12:21:53 DEVA RDS Encoder: DPS=GWAR COVER OF KANSAS GW Aug.20.15 12:26:50 DEVA RDS Encoder: DPS=JESSIE'S GIRL RICK SPRINGFIE	
Aug.20.15 12:29:58 DEVA RDS Encoder: DPS=LONDON CALLING THE CLASH	
	Scheduled Messages
☐ verbose	

