



Scott Studios and WideOrbit settings for DEVA RDS/RBDS Encoders

Scott Studios SS32 automation software along with their DSM32 communication module is fully compatible with several devices from DEVA wide range RDS/RBDS product line:

- SmartGen Mini UECP Compatible, Compact RDS/RBDS Encoder with LAN & USB Connectivity;
- SmartGen 4.1 UECP Compatible RDS/RBDS Encoder with LAN & USB Connectivity;
- SmartGen 5.0 Professional Dynamic RDS/RBDS Encoder, RS- 232, USB & TCP-IP Ports, UECP Compatible;
- SmartGen 6.0 Professional Dynamic RDS/RBDS Encoder, RS- 232, USB & TCP-IP Ports, UECP Compatible.

The following instructions are applicable for IP and SmartGen over a network and are similar for serial data.

Prior the configuring procedure, check SmartGen's current version of the firmware. If the utilized version is older than 2.7, an update is required. The latest version can be found on www. devabroadcast.com/downloads

In order for the Scott Studios and WideOrbit software to communicate with SmartGen over a network, the following settings should be applied:



SMARTGEN ENCODER

In order for the following settings to be correctly applied, the latest version of DEVA's SmartGen RDS/RBDS Encoders Manager need to be used. The most recent version can be found on www. devabroadcast.com/downloads

1. Allow the usage of dynamic PS using SmartGen Encoders Manager (as depicted in the screenshot), WEB Interface or the ASCII command DPSON=1;

SmartGen 6.0\06E7001D	
Hardware Basic RDS Advanced RDS Data Sets ODA Console	
PI FFFF CALL RDS 11 - Rock Music RBDS 11 - Oldies MS MUSIC TA MUSIC	OFF Timeout 1 min. TP @
PS	Not Compressed Dynamic PTY
RT SmartGen 6.0 - Dynamic RDS/RBDS Encoder - WWW.DEVABROADCAST.COM	AF List Method A Tune 87.6 MHz MHz No AF
Dynamic PS ON Parse 1 char Speed Factor	
Default Dynamic PS	Add AF 🔐 Clear
Backup Encoder SmartGen 6.0 - [TCP] demo.devabroadcast.com:5160 Restore Encoder SmartGen 6.0 - [TCP] demo.devabroadcast.com:5160	▼
06E7001D FW:02.11 Connected	

2. Determine the appropriate mode of displaying of the dynamic PS text using SmartGen Encoders Manager, 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**



3. Set the speed with which the dynamic PS will be translated (scrolled). The speed depends on the ratio between the transmitted RDS 0A groups and other groups. For firmware version 2.7 and higher and software version 0.1.2.94 and higher, "Dynamic PS Speed" (DPSS) could be set. This function is accessible via SmartGen Encoders Manager (as depicted in the screen shot), WEB Interface or the ASCII command **DPSS**.

Example: DPSS=5



WARNING: The current Group Sequence will be obliterated (lost) and replaced with a new one, containing 0A and 2A groups only.



SCOTT STUDIOS SS32 SOFTWARE CONFIGURATION

Prior the configuring procedure, make sure that all necessary preliminary adjustments to DSM32 and SS32, relating to the communication and export of data between the two modules have been applied. If not and for further information, please refer to Scott Studios SS32 User Guide (page 6) and Data Service Module: DSM32 (page 37).

In order for the DSM32 (DATA SERVICES MODULE) to start exporting Now Playing data to SmartGen, click on the RDS/RBDS Campaign button, placed the main screen.

RDS/RBDS Campaigns

The Campaign configuration screen allows you to define the RDS/RBDS encoder output settings, and also to set specific rules for text export. For example, you could set a campaign to display the station slogan or advertiser sponsored text during commercials, or to display upcoming concert information for a specific artist when their newest song is on air.

As depicted on the screenshot below, the following settings should be applied:

ype Inovonics 713 IP Address 123.456.789.322	Port	5007
rotocol UDP 💌 PS Static 💌 Default PS Msg	Rock 1	04
aefresh Rate (secs) 1.8 💌 🦳 RadioText (64) 🛛 🛛 Ra	dio Freq	104.1
logan 104.1 FM Your Home For Rock		Slogan 7.2 secs
' Ignore 'NONT' Type ▼ Publish Spot T ampaigns (Highlight Then Use Button [DoubleClick = E	"itles lit])	
etault Campaions create new>		Edit
etault Campaions create new>		Edit Delete

Type – Select the encoder type from the drop-down menu. There are two available options:
 The first is to choose Inovonics, as SmartGen encoder covers the same set of commands relevant to Specifying PS, Dynamic PS (DPS) and RadioText.

- The second option is to choose "User Defined".

2. **IP Address and Port** – Specify the destination IP address and Port Number for the RDS/ RBDS encoder.



3. **Protocol** – Select the protocol to be used from the drop-down list. Please refer to SmartGen's complete User Manual for further information on which Protocol should be used. The following options are available:

- Selections for TCP (Transmission Control Protocol) and UDP (Universal Datagram Protocol) will send ASCII formatting. If you have chosen Inovonics as an encoder type, you will be limited to TCP output only;

- The UECP (Universal Encoder Communication Protocol) selection will send modified UECP encoding over UDP. This protocol type is not recommended;

- UECP2 will send standard UECP encoding over UDP. DEVA's SmartGen encoders are fully compatible with UECP EBU SPB490 Version 7.05. Thus, we recommend the usage of this protocol type.

4. **PS** – The PS setting defaults to Static mode. Use the drop-down menu to access the advanced option that will allow sending Dynamic PS instead of Static.

- The default Static mode indicates that text events will be sent to the RDS/RBDS encoder in 8-character (PS=segments), in Block mode;

- When Dynamic PS instead of static (prefixed as DPS=) is sent to SmartGen, the RDS/RBDS encoder will parse the output text internally and additional parameters should be configured on the encoder.

NOTE: The Dynamic PS output is limited to 64 characters at a time. Campaigns outnumbering the character limit will be truncated.

5. Default PS Msg – Enter a default PS message (up to 8 characters long);

6. Refresh Rate – Select the default refresh rate (in seconds) from the drop down menu;

7. **Radio Text (64)** – In order to send the identical campaigns as radiotext (i.e. TEXT=) to the RDS/RBDS encoder, the Radio Text (64) should be selected;

- Radio Text (64) will send the identical campaigns as radiotext (i.e. TEXT=) to the RDS/ RBDS encoder. Radiotext, as the Dynamic PS also has 64-character limit and campaigns over this character limit will be truncated. It may be sent concurrently with either Static OR Dynamic PS.

8. Radio Freq – Specify the radio frequency of the station being configured;

9. Slogan – Enter the station slogan. The field next to the slogan displays the total time needed for displaying of the slogan, depending on the Refresh Rate previously selected.

Options

Ignore 'NONT' Type: Selecting this option will prevent NONT (Do Not Play on Internet) events from being encoded over SmartGen.

Publish Spot Titles: Selecting this option will allow spot titles to be encoded from SmartGen.



Set up the Default Campaign

Double-click the "Default Campaigns" line in the Campaigns screen. Replace the "No Value" text with your custom text fields along with Title and Artist wildcards (in the drop down menus). This information will be sent (from top to bottom) to the RDS/RBDS encoder while defining music cuts are playing.

Leaving the 'NoValue' text in a field will omit that field from being sent to the RDS/RBDS encoder. Once you have specified your Default Campaign settings, click "Save" to return to the Campaign configuration.

DCM22			
DSM32			
Edit Default Car	npaigns		
Music Campa	lign		
Text Part #1	Now Playing		
Title or Artis	Title 🔻		
Text Part #2	by		
Title or Artis	Artist 💌		
Text Part #3	on Rock 104		
	<u></u>		
Spot Campaig	3u		
Text Part #1	Tell		
	Spot Name Appears Here		
Text Part #2	Rock 104 sent you		
Note: Use Sp	ecial Text "NoValue" to skip over any field.	Cancel Save	

SS32 User Guide

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The SS32 User Guide covers normal operation of the automation program that has all system configuration completed. Configuration is covered in the SS32 Configuration Guide.

The SS32 may be purchased with 'embedded applications' enabled: AS32 Cart Recorder, VT32 Voice Tracker, and LazerBlade. Operation instructions for these programs are detailed in separate user guides for each.

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Getting Started

On the left side of the main SS32 screen is the Event Log, or "Stack". The top event is currently on-air. The gray box to the left shows which device the audio is playing out of, and then counts down the length of the event. If there is no event playing, it will display a Start button.



Directly below the on-air event are the next five events to air, each having a Start button next to it. These events can also be started using the "F" keys on the keyboard. When started, the event goes on the air and moves to the top event.

Fade On-Air Audio

Clicking Start on an event in the stack while another event is on-air will start it immediately *while* fading the on-air event.

The on-air event can be faded out completely by clicking the gray button next to the event. If there is more than one item on the air, this button fades the most recently started event first. The next event will not begin until the Start button is pressed.

Move Event

To move an event within the Stack, click the "label" area of the event to be moved. The event will be highlighted with a dashed line around it. Click on the event in the position for the event to be placed. The other events will be moved down.

Delete Event

To delete a single event, click on the "label" area of the event then click on the "Del" button just below the Stack. Or, click the "Del" button before highlighting any events. A red circle with a red slash will appear over the Start buttons. Simply click on the circle next to the event to be deleted.

Countdown Clock

The bottom center of the main screen displays the Countdown Clock. When an event starts, a box will display a countdown for the Intro of the event. After the Intro countdown, a "pie" graphic will display the remaining percentage until the end of the event. The "pie" will briefly display the countdown time again at 60, 45, and 30-second intervals, and will count down from 15 seconds until the end of the event.

Re-Cue

In addition to displaying remaining times, the Countdown Clock area also serves as a Re-Cue button. Re-Cue is identified with a double blue circle beside events in the Stack.

Events that were not uploaded in time to cue up automatically, such as last minute news or weather, will show a blank area where the Start button should be, and the event label will show "File Not Found". These events can be cued manually by clicking the Re-Cue (Countdown) area

and then clicking the double-circle beside the event that has not cued. If the recording has become available, the Start button will be displayed.

Events that are expired will also show a blank area where the Start button should be, and the event label will show "End-Date Out of Range".

The on-air event can be re-cued after a fade by clicking the Countdown Clock, then clicking the double circle next to the top event. The event will start playing from the beginning.

SS32 Main Screen

This section provides an overview of the main screen of the SS32 software. Note that some of the buttons may be different depending on the configuration and additional options that were purchased. The most common configuration and options will be addressed in this guide.

System Clock

The system clock is displayed in the upper left corner of the main screen. The clock will show an orange color between 6 AM to 6 PM, and changes to a dark blue color during the evening and overnight hours of 6 PM to 6 AM. The clock is set in HHMMSS format in Configuration -> Time Functions.

09:48:4	2 4:24 (10:03:18) 🧶 Next(C) Hot(C)	D:\AUDIO\FAV	\SP2108.WAV			
AIR-B 0:04	Why Don't You and I Santana/Chad Kroeger :00/04:19/F 302 DA5400 09:44:28	Weather Bed :30	Traffic Bed :28	Sports Bed :60	News Bed 1:36	PSA Bed :35
- 🗗	Just Like Heaven	Fast	Medium	Slow	Legal	Promo
	Cure	Jingle	Jingle	Jingle	ID	Bed
	:49/3:26/S 304 DA4047 09:48:47	:08	:12	:14	:11	:45
- 18-	Steak Country Buffet	Phone	Contest	Winner	Cheer	Drum
	:00/ 1:02/C COM DA0015 09:52:13	Dialing	Bed	Bed	(Crowd)	Roll
	Q: Don't miss it	:04	3:26	:30	:07	:10
- 🗗 -	Power Bar Agency :00/00:54/F COM DA1150 09:56:08 Q: Power On!	Slide Whistle :02	Gong SFX :03	Rim Shot :01	Bugle :16	Train Whistle :06
- 🗗 -	So Pure	Matrix	Dance	Pop	Scary	Voting
	Morissette, Alanis	Bed	Bed	Bed	Bed	Bed
	:00/2:36/* 304 DA4272 09:57:02	1:23	2:17	:51	1:00	1:14
- F6 -	Unwell	Holiday	Holiday	Holiday	New	New
	Matchbox Twenty	#1	#2	#3	Year 1	Year 2
	:23/3:40/* 302 DA4944 09:59:38	:58	1:00	:57	:58	1:15
Auto	Del PView VT	4	Log Op	tns HOT	+ Cart	Insert

Back Timer

When SS32 is first started, the "time to launch" will display next to the system clock, which is set in set in Configuration -> Misc-1 Settings.

This area also displays a Back Timer if set in Configuration -> Misc-1 Settings. The Back Timer compares the time of each event added through to the next Target event, and the actual time until the Target event is on-air. (Target events are set when the schedule is created).

If the total of event lengths up to the Target event is less than the actual *time* to the Target event, the box will display the difference in Red. If the calculated event lengths are greater than the actual time to the Target, the box will display the overage in Blue. The box will display "too far" if there is no Target event found within the Search Depth set in the configuration.

Pre-Defined Liner Playback On/Off

Pre-defined (or "satellite") liner playback is normally managed with commands in the schedule. However, the SS32 system can be set to manually override any scheduled pre-defined liners using the "Activate Manual Control via Hotkey & Auto/Man Button" in Configuration -> Satellite.

When this is set, a Green dot will appear just to the right of the Back Timer display, and the predefined liners will play as scheduled. There are two ways to override playback of the pre-defined liners:

- Click the Auto button to put the SS32 system into Manual mode. The dot will then turn Red, indicating the pre-defined liners will not play when the closure is received.
- A Hot Button may be set as the disable button to keep the system in Auto mode. (Please refer to the SS32 Configuration Guide, Satellite section, for setup). When this Disable Button is clicked, the dot will turn Dark Red to indicate the pre-defined liners will not play.

Next Device Display

The Next Device bar, to the right of the Back Timer display, shows the next device the on-air event and the next Hot Key will use. Devices are set in Configuration -> Playback Devices according to the type of audio cards in the SS32.

Message Bar

A message bar is located at the top right of the screen, just above the Hot Keys. Error messages will be displayed in red in this area, as well as a progress bar when events are being uploaded to the SS32 from other programs. This area will also display green informational messages if set in Configuration -> System Settings.

Event Log [Stack]

The Event Log, also referred to as the "Stack", is a column of six events that will air. To the right of each Start button is the "label" area for each event.

The first line contains the title of the event, and the artist or talent name is on the second line.



The third line shows the following information: Intro/Event Length/Ending (usually F for fade or C for Cold), then the category, event (cart) number with prefix, and time scheduled to air. The fourth line will display comments or 'trivia' entered in the header.

Live Copy

Live Copy refers to live scripts that are scheduled in the log. When a Live Copy event is "played", it will display the text in a small box at the bottom of the Stack. Click in the window to close. Live Copy will display on the second monitor in a dual-screen setup if set in Configuration -> Copy.

Hot Buttons

Hot Buttons are displayed on the right side of the SS32 main screen. If there is a dual-monitor setup, Hot Buttons can be opened on the second monitor. Simply click on the Hot Button to start and end the event assigned to it.

Weather	Traffic	Sports	News	PSA
Bed	Bed	Bed	Bed	Bed
:30	:28	:60	1:36	:35
Fast	Medium	Slow	Legal	Promo
Jingle	Jingle	Jingle	ID	Bed
:08	:12	:14	:11	:45
Phone	Contest	Winner	Cheer	Drum
Dialing	Bed	Bed	(Crowd)	Roll
:04	3:26	:30	:07	:10
Slide Whistle :02	Gong SFX :03	Rim Shot :01	Bugle :16	Train Whistle :06
Matrix	Dance	Pop	Scary	Voting
Bed	Bed	Bed	Bed	Bed
1:23	2:17	:51	1:00	1:14
Holiday	Holiday	Holiday	New	New
#1	#2	#3	Year 1	Year 2
:58	1:00	:57	:58	1:15

Typically, Hot Buttons do not check events for start/end dates or times, and will play regardless of these restrictions.

If the "Liners+HotBtns Honor Start+Stop Date+Hour" setting is marked in the Configuration -> Satellite page, Hot Buttons (and liners on satellite closures) will observe the start/end date and time restrictions.

Events can be added to the Hot Buttons using the Insert screen. (Insert screens are explained in more detail below). Select the event in the Insert screen, and click the green **Stack** button. Exit the Insert screen, and click the Hot Button to add the event.

Hot Buttons can also be programmed quickly by holding the ALT key on the keyboard while clicking the Hot Button. Up to three lines of text can be entered to identify the Hot Button, and the

event category with the 4-digit event (cart) number is entered for "Hot Key CatCode".

When Dynamic Hot Buttons are in use, a selection of button colors will be displayed at the bottom of the User Input window.

ОК		Cancel
Hot Key Line #1	Holiday	_
Hot Key Line #2	#2	
lot Key Last Line	1:00	
lot Key CatCode	BED 0007	

SS32 Additional Functions

The buttons along the bottom of the main screen provide more extensive functionality for the SS32. The functions for the Green buttons (fourth and eighth from the left) are set in Configuration -> Misc-2 Settings. The Left Green button can enable the following functions: Cart Recorder, LazerBlade, VT (Record voice tracks), and Fade/No Fade. The Right Green button can be configured with the same functions, along with Live Mode and Disabled.

Modes of Operation

Auto Mode

In Auto Mode, the SS32 system operates without user intervention based upon a schedule compiled in the Merge32 program. Every event is started automatically by the End-of-Message (EOM) signal placed when the event was recorded. When a new event is started by the EOM, the previous event is automatically faded out.



Most events are scheduled in the log with a DA (for Digital Audio) designation in front of the 4digit event (cart) number. When SS32 is in Auto Mode, the on-air event will be faded out when the next event starts. The speed of the fade is set in Configuration -> Playback -> Fade Speed (tenths). Events that are scheduled in the log with a VO (for Voice Over) designation will not fade out, but will play at full level until they end. Voice Tracks are designated as follows: JV = Generic Voice Tracks; JU = Voice Track linked to previous event; JD = Voice Track linked to next event; JB = Voice Track linked to both previous and next events; and JN = Voice Track not linked.

Manual Mode

Clicking on the Auto button will immediately change the system to Manual Mode. Manual Mode requires user input for every event in the schedule.

Each event must be started by the user, either from clicking the Start area, or through a remote start button at the console. The console is used to fade out events – the console channel number for each event is displayed in the Start area. SS32 can be configured in Misc-1 Settings to display vertical bars in place of Start area in the Stack.

Most stations use a combination of Auto and Manual operation. Usually the song sweeps and stop sets run in Auto. Prior to a live talk point, the user changes to Manual, listens to the audio, and begins talking based on the fade and the Countdown Clock.

When finished, the next event is started manually, and the user changes back to Auto mode for the next sweep of music or spots.

AIR-A 2:08	All I Really Want Alanis Morissette 104.43/F 307 DA0100 123838 Jagged Little Pill	Weather Bod :30	Traffic Bed :28	Sports Bed :60	News Bed 1:36	PSA Bed :35
- 🛐 -	Spin	Fast	Medium	Slow	Legal	Promo
	Lifehouse	Jingle	Jingle	Jingle	ID	Bed
	:11/3.52/* 301 DA4863 >ins<<<<	:08	:12	:14	:11	:45
• 📑 •	Daughter	Phone	Contest	Winner	Cheer	Drum
	Pearl Jam	Dialing	Bed	Bed	(Crowd)	Roll
	V335/F 304 DA4026 pingeese	:04	3:26	:30	:07	:10
- 📫 -	Onderwall Oasis 21/416/C 305 DA3202 pinseese	Stide Whistle	Gang SFX :03	Rim Shot :01	Bugle :16	Train Whistle
.	Alive	Matrix	Dance	Pop	Scary	Voting
	P.O.D.	Bed	Bed	Bed	Bed	Bed
	9/3/21# 301 DA4751 12:59/29	1:23	2:17	:51	1:00	1:14
- 16 -	Time Of Your Life	Holiday	Hotiday	Holiday	New	New
	Green Day	#1	#2	#3	Year 1	Year 2
	10/2/24/C 302 DA0929 >cpysses	:58	1:00	:57	:58	1:15
- F6 - Man	Green Day 10/2:34/C 302 DA0029 >xpyrees Dol PView VT	Holiday #1 :58	Holiday #2 1:00	Holiday #3 :57		tew fear 1 50 Cart

Live Mode



Live Mode is only available if set in Configuration -> Misc-2 to appear on one of the configurable green buttons. In this mode, each on-air "deck" (next to play) is assigned to a particular channel on your console, with events loaded in "cart" spots waiting to refill the deck.

Preview

Preview allows the user to hear the beginning and end of an event in the Stack. When Preview is clicked, two circles appear in the label area for each event. Clicking the left circle will play the event from the beginning, and the right circle will play the last 15 seconds (default). The end length can be adjusted in Configuration -> Misc-1 Settings -> Preview/Pause. Click Preview again to stop the playback and turn Preview off.

Hot Buttons will display double-circles (one inside the other) in Preview. Click the Hot Button to preview the audio from the beginning, and click again to stop the preview. If it is a Rotator, the next event on the Hot Button will be previewed without cycling the Rotator to the next event.

AIR-1 1:49	So In Love OMD 2003 201F 305 DA332 15 00-95			0		\bigcirc
· B·	Accidentally In Love Counting Crows	(igle)	(ingle)	1 (ingle	Õ	O
	Dig In Kravitz, Lenny 00/3 335* 301 DA4704* 8:15:50	0		O	(interest	0
•	I Wanna Know Joe 100/4/20# 301 DA4444 95 19		0	Fint)	0	Ten to
· 15-	Material Girl Madonna 29/3.511F 301 Da0618 5.2390			O		
- 6-	Kryptonite 3 Doors Down 1W 3.46* 102 DA4468 5 27 20	$\overline{\mathbb{O}}$		\bigcirc		6
Auto	Dol PView VT		.og 0	ptns H0	r+ Cart	Insert



Preview

Extended Preview

Extended Preview

If Extended Preview is enabled in Configuration -> Misc-1 Settings, clicking the Preview button will display more extensive capabilities. The Preview button will enable six preview buttons on the event label areas.

The right and left arrow buttons will move forward or back in the audio from the current location the file according to the seconds displayed in the first circle. Click in the circle to change the increments in seconds. The square button starts and stops playback. The second circle plays the last 15 seconds of the event.

The rounded-corner button displays the audio length, and will change to the playback counter during preview. This button also works as a "lock" to set the beginning of playback at the current file position when it is pressed (a lock graphic will appear on the button). The lock cannot be set unless the event is either currently being previewed, or has just been stopped.

The slider bar can be used to manually move the current playback position before previewing it.

Log [More Events] Screen

The Log button opens the day's log, starting at the present time, on the right side of the screen over the Hot Buttons. If there is a dual-monitor setup, this screen can be opened on the second monitor. The log will open with the current time/event at the top (shows upcoming events), middle (shows both aired and upcoming events), or at the bottom (shows previously aired and on-air event) according to the place set in Configuration -> Log Window. Previously aired events will be in gray. Notice that the current event will show in gray with the time it started, and will also show in its category color as the current item with the current time.

Copy	Cut	Clear	MkGd	Del	Hooks	Mnin	IS
>NFI <<	No More W	lords	Be	rlin	3.4		76
>DEL<<	Tonight Is	The Night	Le	Glick	3:5	0 -	
>DEL<<	If It Makes	You Happ	iy Cro	ow, Sheryl	4:21		
10:33:00	Danger Zo	ne	Ke	nny Loggiı	ıs 03:3	33 -	
10:36:33	Don't Be S	tupid (You	ı Kn Tw	ain, Shani	a 3:3:	2 -	
10:40:06	l'm The On	ly One	Eth	eridge, M	elissa 4:00	0 - 0	
10:44:06	One More	Try	Tin	ımy T	3:2	5 -	
10:49:35	One More	Try	Tin	ımy T	3:2	<u>5</u> -	
10:53:00	Adia		Sa	rah McLac	hlan 3:5	5 -	
>cpy<<	If It Makes	You Happ	y Cro	ow, Sheryl	4:2		
10:59:55	Little Miss	Can't Be	Wro Spi	in Doctors	3:40	8 -	
>cbA<<	Thank Goo	I I Found Y	ou Ca	rey, Maria	h w/ § 4:13		
>cpy<<	No More W	lords	Be	rlin	3:40	6 -	
11:03:43	These Are	Days	10,	DOO Mana	ics 3:3 [°]		
11:07:14	l'm Like A l	Bird	Fur	tado, Nell	y 3:5	3	•

To view ahead or behind in the schedule, use the scroll bar to the right, or the **Up/Down** buttons just below the log. To get back to the current time/event, click the **Now** button to the left of the Countdown Clock ("pie").

The range of events that can be copied, moved, or deleted in the Log screen is set in Configuration -> Log Window. To select events, click on the event, and then click on the **Copy**, **Cut**, or **Delete** buttons at the top of the screen. Multiple events can be selected by holding down the CTRL key while clicking on events. The **Copy** and **Cut** button graphics will change to "Where?" when selected. The **Clear** button will clear out selections before the copy/move/delete action is completed. Click on the position where the copied/moved event(s) are to be inserted. All other events will be moved down.

Copied events will show >cpy<< in the air time field in the current log as well as the event label in the Stack. Cut events will display >mov<<. Deleted events will be removed immediately from the current log and the Stack, but will show in the aired log with >DEL<< in the air time field.

The **MkGd** [Make Good] button highlights the last event in the log that did not play. Continue to click the **MkGd** button to review unaired events further back in the log. While searching, the **MnIns** button becomes the **MkDn** [Make Good Down] button, allowing navigation of unaired events in the opposite direction. The **Cut** button is not active while using the **MkGd** function. Use the **Copy** function to put an unaired event back into the current log.

Hooks

The ability to set Hooks is an extra-cost item. Hooks must be set in the audio event in Cart Recorder, and the event must exist in the current schedule before performing the following steps.

Copy	Cut	Clear	MkGd	Del	Make	Mnins
10.50.55	little Miss	Can't Be	Wro Sn	in Nortors	9./	79 8
10.03.00			wiu op		. 0.4	
11:03:43	These Are	Uays	10,	UUU Mana	ics 3:3	
11:07:14	l'm Like Al	Bird	Fu	rtado, Nell	y 3:5	3 -
11:11:07	Wonderw	all	Oa	sis	4:10	6 -
11:15:23	Tonight Is	The Night	t Le	Click	3:5	0 -
11:19:13	No More V	lords	Be	rlin	3:4	6 -
11:22:59	lf it Makes	s You Happ	ay Cr	ow, Sheryl	4:2	1 -
11:27:20	Let's Go		Ca	rs, The	3:2	9 -
11:30:49	Clocks		Co	ldplay	3:5	9 -
11:34:48	Rollercoa	ster	B*1	Nitched	3:0	0 -
11:37:48	Don't Wan	ına Fall In	Love Ch	ild, Jane	4:0	2 -
11:41:50	Bitter Swe	eet Symph	iony Th	e Verve	4:12	2 -
11:46:02	Dig In		Kra	avitz, Lenny	/ 03:	88
<mark>11:49:35</mark>	Look What	t You've Di	one Jet		03:	37
11:53:12	Come On (Dver	Tw	ain, Shani	a 02:	52 -

Click on the **Hooks** button at the top of the Log screen. The system will look ahead in the log according to the range set in Configuration -> Log Window -> Verifying Audio Files.

Events with Hooks set will show in the log with a small purple tag to the right of the title.

Select the events for the Hook list, and click the **Make** button at the top of the screen. (Clicking on a selected event will de-select it).

The Hook List Editor screen displays a list of the events with the length of the hook. Additional elements, such as beds, can be added to the Hook List using the **Insert Elements** buttons at the top of the screen. To add an element to a button, go to the Insert screen and add an event to the Stack button. Exit the Insert Screen, return to the Hook List Editor and click the **Element** button to add the event. (Insert screens are explained in more detail below). The additional element will be inserted above the currently selected hook.

Events and elements can be removed by selecting them in the list, then clicking the **Remove** button at the bottom of the screen.

When the Hook List is complete, click the **Done** button at the bottom of the screen. Blue Insert arrows will appear in the Start area in the Stack. Click on the arrow in the position where the Hook List is to be inserted. The Hook List is initially inserted in the Stack as one expandable (XP) event, with the Start area to the left being gray. The XP event will automatically expand four seconds before it's on-air time, or the user can click in the Start area to 'break out' and view the Hook List prior to that. The event labels will display the event name and artist, with the length of the hook and a "DH" designation in front of the 4-digit event (cart) number.

IX BED	SCARY MU	ISIC [Em	ipty] ipty]
1	[Empty]	[Em	npty]
/MATR		3ED 00	38 01:2
	/MATR itz, Le /Jet	/MATRIX BED E itz, Lenny 3 /Jet 3	MATRIX BED BED 00 itz, Lenny 301 470 /Jet 302 687

Manual Insert

The **MnIns** button at the far right of the Log screen is used to manually insert events in the current log. Enter the Prefix (audio type designation, usually "DA"), Code (4-digit event/cart number), and Category in the Input window.

The Label Text field is optional – the entry in this field displays in the current log screen as the event title. Click OK, and click the blue Insert arrow where the event is to be inserted in the Stack.

The event will display in the Log screen and Stack with **>ins<<** in the air time field. The title is displayed in the Stack, but not the Log screen, unless it was entered in Label Text. The event displays 0:00 for length in the Log screen until the event goes on air.

Jser Input		Cancel
Prefix	DA	
Code	4166	
Category	304	
Label Text		

Options

The **Options** button will open a menu with 14 selections. Click **Cancel** to return to the full main screen with Hot Keys.



Load New Schedules

Every 20 minutes, the SS32 system will automatically compare the date/time stamp of all currently loaded schedules with those in the schedule path (listed in Configuration -> Schedules), and reload any that are different. If the current schedule has changed, it will 'attach' at the fourth position in the Stack. The **Load New Schedules** button is used to force a reload of the current day's schedule. The button will change to **Done** when the reload is completed. If there are no differences in schedules detected, the button will still change to **Done**, and a notation is made in the AIR log.

Disable TouchScreen

The Disable TouchScreen button will temporarily disable the 'touch' functionality. The SS32 splash screen will appear, along with the instruction to press the ESC key to return to the main screen with the touch functionality enabled again.

Copy Today's Air Log

Making a copy of the current Air Log creates a file for viewing, printing, or e-mailing the day's events up to the current time. The copied Air Log file is saved in the SS32\AXR folder with the file name YYMMDD.AXR. This file can be viewed using Notepad. The SS32 will continue to write events to the original Air Log in the SS32\AIR folder.

Named Schedules

Named schedules must be created in Merge32 and exist in the SS32\SKD folder with a 4character file name and .ALT file extension before using this functionality.

Named schedules are intended for broadcasts that don't have a specific length. The Named Schedules screen contains 20 fields for different schedules. To add a new schedule, right-click on the field and select the desired schedule from the list.



To insert a named schedule into the Stack, click on the schedule, and click on the **Insert** button at the bottom of the screen. The named schedule will be inserted just below the on-air event. Click the **Go To Main Schedule** button to exit without inserting a named schedule.

Jump + ReCue

The Jump + ReCue feature allows for resetting the next point of the current schedule. This screen shows a list of events in the current schedule, with the next event highlighted in blue.

Go To Schedule TIME and ReCue					
Schedule For: 020706					
10:22:15 303 6129 Love Walks I 10:26:35 302 5476 Fallen					
10:30:04 301 4559 Loser 10:33:48 301 4417 Waste					
10:36:56 304 4173 Hands 10:40:27 303 6696 God Bless Th 10:43:34 303 6128 U Got The Lo					
10:47:15 304 4259 Promises 10:51:06 304 4093 Another Nigh					
10:54:59 304 4231 We Like To P 10:58:39 305 3336 In A Big Cou 11:02:28 205 9299 Phase Bod #2					
11:02:20 303 9299 Finite Bed #2 11:03:30 302 4958 Big Yellow T 11:07:01 305 3007 Me					
11:10:35 304 4033 Little Miss 11:14:23 303 6135 Rag Doll					
11:18:29 304 4124 Never Let Yo					
ReCue					

The event that is currently on-air is designated with >top<<<< in the time field. Use the Up/Down buttons to move around in the current screen, and the PgUp/PgDn buttons for larger moves ahead or behind in the schedule.

Click the **ReCue** button once the next desired event is highlighted in blue.

Real-Time Event Table

The Real-Time Event Table is a viewer for background events for diagnostic purposes.

Pending Events shows any current and future realtime events, such as playing network news at the top of an hour. In this example, the upcoming events show a hard jump (JH), four satellite-defined liners (SD), a soft jump (JS), and a net record (NA).

Liner/DTMF/Macro Definitions can be viewed just below the pending events. Click the corresponding button to view the current definitions for each. The *Netcatch Status* area will show the current or most recently completed net catch.

Pending Ev	ente	;—				
< <empty></empty>	08	CS	CATOOOO	00 <-	(EMPTY)	
< <empty></empty>	09	CS	CATOOOO	88 <-	(EMPTY)	
< <empty></empty>	10	CS	CATOOOO	00 <-	(EMPTY)	
17:00:01	07	JH	LIN1000	00 1	7:00:01	
17:00:01	07	SD	LIN1000	01 1	7:00:01	
17:00:02	07	SD	LIN2000	02 1	7:00:02	
17:00:03	07	SD	LIN3000	03 1	7:00:03	
17:00:03	07	SD	LIN4000	04 1	7:00:03	
17:14:56	07	JS	3014726	00 1	7:14:56	
17:19:59	U/	NA	NETSOUD	88	ABC Net	Record", ", 05:
NOW:	day(7) time	(17:00:49) L	OOKINI	G: day(7)	time(17:14:56)
-Liner/DTMF	=/Ma	cro	Definition	IS		
LIN (202) (202) (202)	LIN18980 LIN28800 LIN389800 LIN489800 GGGS\$0FF GGGS\$0FF GGGS\$0FF GGGS\$0FF GGGS\$0FF GGGS\$0FF GGGS\$0FF GGGS\$0FF GGGS\$0FF GGGS\$0FF					
SatDef	SatDef DTMF Macros					
-Netcatch S	tatu	s				
Netcatch (In	put-A	.)				
<no event=""> 00:00:00.0 Abandon</no>						
Netcatch (In	Netcatch (Input-B)					
	<no event=""> 00:00:00.0 Abandon</no>					

Lift Event Prohibitions

This option requires a User Password assigned specifically for this function. Instructions for setting passwords are in the SS32 Configuration Guide.

The Lift Event Prohibitions option allows for a 10-minute override of prohibitions, such as move, delete, or insert, that have been set on event categories.

Record Voice Tracks

This option is for the embedded VT32 program for recording voice tracks. Instructions for recording voice tracks are in the VT32 User Guide.

Cart Recorder

This option is for the embedded AS32 program for audio editing and recording. Instructions are in the AS32 User Guide.

LazerBlade

LazerBlade is an embedded phone editor that can be purchased separately from the SS32. Instructions for use are in the LazerBlade User Guide.

Redundancy

The Redundancy option is used when the SS32 system has been purchased as an SS Invincible (hot standby). Redundancy is activated in Configuration -> Misc-1 Settings. The standby workstation will display 'Standby' in the Back Timer banner.

When the Primary SS32 system is down, the Standby SS32 will be automatically activated. Use the **Hand Back** button in the Redundancy option to go back to the Primary SS32 system when ready.

Configuration

SS32 Configuration settings are described in detail in the SS32 Configuration Guide.

This section contains the configuration for the entire SS32 system. Click on one of the fields to open a configuration screen.

St	20 20	10 12	12 A	- 0
Time	Demo	Live	System	DataBase
Paths	Catgrys	Serial	Record	Macros
Devices	Playback	Levels	Misc-1	Misc-2
Audio Routing	AUX Events	Outputs Inputs	Define Switcher	Consoles
Remote	Hot Btns	Named	Netcatch Record	Netcatch
Flex	Alt VT	EAS	Sat-Ctrl	Satellite
NowPlay	EvryWhr	Setup	Сору	IP
Log	Profile	Schedule	<future></future>	Sys Info
	Conf	iguration Inde	ex Page	

Use the **PgUp/PgDn** buttons on the screen or the keyboard to browse through each screen. Click the **Index** button at the bottom of the screen to go back to the configuration fields, and **Done** to exit Configuration.

SS32 Everywhere

SS Everywhere is an option to control the main SS32 remotely and must be purchased separately. Connection to the SS Everywhere is configured in this screen, and can also be set up in Configuration ->SS32 Everywhere.

Hot Button Setup

There are 30 Hot Buttons displayed at one time, and clicking the **Hot+** button will bring up 30 Groups. The current Hot Button Group will be highlighted. Click on a Group to change Hot Button screens. Adding events to Hot Buttons is explained above in the SS32 Main Screen section.

Hot Buttons can also be defined within the Merge32 program, and the VT32 program can be configured to use the same Hot Buttons. Instructions are included in the user guides for each program.



Dynamic Hot Buttons

Alternate arrangements of Hot Buttons can be set using the "Dynamic Hot Btns" setting in Configuration -> Hot Btns. Dynamic Hot Button groups can be set to display 5x6, 2x7, or 2x6 buttons in each Group.

Click the **Hot+** button, and press ALT while clicking on the Group to change the setup.

Please note that Dynamic Hot Buttons do not use the same configuration file as the regular Hot Buttons. SS32 must be restarted, and the button functions reassigned, after selecting Dynamic.

Insert Screen [Cart Wall]

Sort files must be created in Dispatch and the Sort files set up in SS32 Configuration -> DataBase before the Insert screen is available.

The Insert screen displays on the right side of the screen, over the Hot Keys. The Stack will adjust to show seven function buttons and 10 standard Sort buttons directly under it. Select the preferred Sort for the events to be displayed, and use the **Back** and **Next** buttons to move forward and back through the pages of events.

INSERT IN INSERT SCREEN STACK 02:40:02 4:38 (15:02:41) Next(B) Hot(B) Yellow She's A Beauty She's All I Ever Had She's So High AIR-A Coldplay 00/04:24/* 301 DA4591 14:38:15 Martin, Ricky (304)4276 4:06 **** Bachman, Tal (304)4240 3:38 **** Tubes 4:08 (301)0646 3:32 1983 Shimmer **Shiny Happy People** Shine Steak Country Buffet R.E.M. **Collective Soul** Fuel (304)4207 3:19 **** (305)3161 4:36 1994 (303)6131 3:39 1991 00/ 1:02/C COM DA0015 14:42:39 Shooting Star Short Skirt, Long Jac Shoop Salt-N-Pepa **Bad Company** Cake Nick at Nite (307)0126 6:16 2005 (305)5285 4:00 **** (301)4686 3:15 **** Newhart 00/00:59/* COM DA0005 >ins<<<< Should I Stay Or Shou Show Me Love Show Me Love Clash, The Robin S. Robyn Stay The Same (301)0769 3:05 1983 (305)3206 4:21 *** (302)0928 3:24 1997 McIntyre, Joey Show Me the Meaning Show Me The Meaning Shy Guy 00/ 3:44/* 304 DA4211 14:49:06 Backstreet Boys (304)4333 3:51 **** Backstreet Boys King, Diana (302)2239 3:26 **** 2/1(6p) 2/09(12a) Straight From The Heart Adams, Bryan Siempre Coca-Cola Sign Your Name Silent All These Years Agency (COM)0017 :57 **** D'arby, Terence Trent Amos, Tori 00/ 3:24/* 304 DA4118 14:52:50 (305)3365 4:24 **** (305)3147 4:06 **** Walking Away Silent Night Silent Night Silent Night F6 David, Craig 98 Degrees (101)9307 3:01 *** Colvin, Shawn **Five For Fighting** (101)9287 3:11 **** (305)9496 3:18 2004 14:56:14 22/3:14/* 301 DA4785 SILENT NIGHT (live) Silent Night Silent Night Sinatra, Frank (101)9268 2:25 **** Spears, Britney (101)9288 2:48 **** Nicks, Stevie Auto Back Listen Hours Stack Exit Next (101)9256 4:31 **** Silent Night Medley Silver Bells Silver Bells McBride, Martina Hanson Aiken, Clay (101)9448 2:20 Title Artist Length Year CAT (101)9273 4:13 **** (305)9308 2:36 **** Silver Springs **Simple Kind of Life** Sin So Well No Doubt Fleetwood Mac Rebekah Snots Promo Jingls Cart MENU (305)3304 4:42 1997 (301)4476 3:31 **** (304)4116 3:33 **** MusTitle A B C D E F G H I J K L M N O P Q R S T U V W X Y Z FUNCTIONS SORT BANNER SORTS

The event labels in the Insert Screen will display differently according to the Sort that is being used. For the Title and Music sorts, the event (cart) number, length, and year (if entered) will display on the bottom line. When the event is selected, the bottom line will change to show the last time the event played, and the next time it is scheduled to play.

Show Me The Meaning Backstreet Boys (304)4333 3:51 **** Show Me the Meaning Backstreet Boys 2/ 1(6p) 2/09(12a)

To find a specific event, use the Banner at the bottom of the screen to narrow down the Sort. Click on the first letter/number to refresh the Banner. The keyboard can also be used if the option is set in Configuration -> System Settings.

The **MENU** sort will bring up a list of *all* sorts set in Dispatch, including any beyond the nine that are displayed on the other sort buttons. Sorts that are not used often (such as Holiday Music) can be viewed from here. The **MENU** button must be set up in Configuration -> Database, and the sorts set up in Dispatch.

To insert an event into the Stack, click on the desired event, and click the blue Insert arrow that appears in the Start area in the position where the new event is to be placed. To insert multiple events, highlight the event, and click the green **Stack** button. Continue to sort and select events to be added to the Stack. The Stack button will display **S-1** and increment as more events are selected. When finished, click the blue Insert arrow in the Start area of the Stack.

The **Auto** button changes Modes as it does in the main screen. Preview/Extended Preview functionality (see above) is available using the **Listen** button. Select an event on the right and click the **Listen** button to preview the audio from the Sort.

The Hours button will show the selected event's date and time it last aired. (This information is

also displayed in the selected event label when using the Title and Artist Sorts).

In this example, the event played in the 1:00 pm hour, but had not played for the 4 days before February 1st. It is not scheduled to play again through February 3rd.

informatio	n and a second	
	M123456789TEN123456789TE	
01/28		
01/29		
01/30		
01/31		
02/01	1	
02/02		
02/03		OK

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DATA SERVICES MODULE : DSM32

The Data Services Module (DSM32) is a replacement for the data services portion of the Comm Module for SS32 and Maestro systems.

There are two components to DSM32. The DSM32 *Service* is installed on any workstation exporting Now Playing data to a *destination* such as an RDS encoder or the internet.* The DSM32 *Configuration* interface is used to set up connections and Now Playing formats. You can connect to and configure any of the DSM32 services from one instance of the DSM32 Configuration when it is opened on a workstation that can connect to ALL workstations where a DSM32 Service is running.

*If you have multiple workstations exporting data to one workstation connected to the destination, you will need to install multiple DSM32 Services on that workstation. Please contact customer support for instructions in this situation.

Installation

Perform the following steps on *each* workstation with an individual connection to the destination (RDS encoder, internet).

Step 1: Extract the required DSM32 files.

- a. Save the DSM.zip file on the C:/ drive.
- b. Right-click the DSM.zip file and select "Extract All".
- c. Verify the files will be extracted to the "C:\DSM" folder.
- d. Mark the option to show extracted files when complete. Click "Extract".
- e. Leave the folder view open for the next step.

Step 2: Install and start the DSM32 Service.

- a. Double-click the file in C:/DSM named "install.bat".
- b. Wait for the prompt instruction you to press any key to *install* the service.
- c. Wait for the prompt instructing you to press any key to *start* the service.
- d. This process will also create a shortcut on the Desktop for the DSM32 Configuration interface (DSM32FIG.exe).

Step 3: Open DSM32 Configuration

- a. Open DSM32 Configuration from the desktop shortcut or the Start menu (created in Step 2d).
- b. Select the connection from the list presented. Click "Connect".
- c. The DSM32 Configuration "home" screen will display a banner indicating the connection status with the DSM32 Service.

If the connection is not successful, please verify network connectivity and that the DSM32 Service is running before contacting customer support.

Advanced Configuration: Configure Multiple DSM32 Service Addresses

The following optional steps have you enter the IP Address for each of the workstations running the DSM32 Service into a text file. This allows you to connect to and configure any of the other DSM32 Services from one instance of the DSM32 Configuration interface. You should either:

- a. Edit one text file, and then copy the file to all workstations using DSM32 so the configuration can be opened from any of them, or
- b. Select one dedicated workstation to use the DSM32 Configuration interface and just edit one text file.

Configure multiple DSM32 Service Address(es)

- a. Open the "serviceaddr.txt" file in C:/DSM for editing.
- b. Copy and paste the first line from <name> to </port> for each connection.
- c. Replace the text between the tags with your system information:
 - a. <name></name>: Enter a unique friendly name for the workstation where the DSM32 Service is running.
 - b. <address></address>: Enter the IP Address for the workstation running the DSM32 Service.
 - c. <port></port>: Enter the Port number where the DSM32 Service will be "listening". The default port number is "7667".
- d. Save and close the "serviceaddr.txt" file.
- e. (Optional) Copy and paste the "serviceaddr.txt" file to the C:\DSM folder on all workstations running the DSM32 Service.
- f. Close the folder view and open the DSM32 Configuration interface (Step 3, above).

If the connection is not successful, please verify network connectivity and correct IP Addresses in the "serviceaddr.txt" file before contacting customer support.

DSM32 Home

The home screen contains buttons for DSM32 configuration, diagnostic monitoring, changing connections, and shutting down the DSM32 Configuration Module. Closing this screen does not stop the DSM32 *Service* from running.

The banner at the top of the screen displays the status to the connection selected in the previous step.

Data Services Module	e For SS32/Maestro (DSM32)	
Suc	ROCK-FM	Configure DSM32 SS32/Maestro NowPlaying Pass-Thru RDS Campaigns Diagnostics Monitor Connections
		Switch Connection
Config File Path	C:\DSM\DSI	M32FIG.txt

The **Config File Path** displays the directory where the configuration file resides.

Please note that the station call letters are not displayed until the SS32/Maestro configuration is entered and saved.

Click the **SS32/Maestro** button on the main screen to begin configuration.

SS32/Maestro Configuration

The SS32/Maestro configuration determines the relationship between SS32/Maestro and DSM32. One will be configured as the host/server, and the other will be configured as the client.

- **DSM32 Acts As:** In their default configuration, both SS32/Maestro are configured as the host (or server). In this typical scenario, the DSM32 should be configured as a Client.
- **Port:** Enter the "in use" port number for Now Playing Data from SS32/Maestro.
 - Maestro defaults to port 11108.
 - The SS32 port is user configurable in the SS32's Now Playing screen under Options -> Configuration -> NowPlay. We suggest you change the 'Local Address' and 'Destination' socket to 11108. Once this is complete, enter 11108 into the port field.
- **Connected To:** Select the type of system connecting to DSM32 (SS32 or Maestro). Notice that settings to the right will change depending on the SS32 or Maestro selection.
 - **SS32 Format:** Select whether the RDS data export is in *Format D* or *Format E*.
 - **Maestro:** Enables Maestro Cart Types settings (described in the next section).
- **Call Letters:** Enter the call letters for the station connecting to DSM32.
- **DSM As Client:** Enter the IP Address of SS32/Maestro in the field at the bottom of the screen.
- **Special Case Cart Type:** The Special Case Cart Type is used to indicate which media assets will be treated as "Do Not Play on Internet". In SS32, these events are tagged as "NONT".

Configure SS32 o	r Maestro Connection
DSM32 Acts As	Client 💌
Port	11108
Connected To	SS32 V Format-D V
Call Lattore	ROCK-FM
	,,,,,,,, _
DSM32 As Clier	nt
IP Address of S	SS32/Maestro
123.456.789.321	
	Special Case Cart Type
	NONT

Maestro Cart Types

Maestro users can define which cart types (as defined in Maestro Configuration) will be associated with music events. The "Music" cart type will be selected by default.

To add a custom cart type, enter the name in the field below the list and click "Add". To delete a cart type, highlight it in the list (by clicking once) and click the "Delete" button.

The **Special Case Cart Type** is used to indicate which Maestro Cart Type will be treated as "Do Not Play on Internet". Maestro users will enter the Cart Type name in this field.

	Check to Indicate MUSIC
OSM32 Acts As Client Port 11108 Connected To Maestro Call Letters ROCK-FM DSM32 As Client IP Address of SS32/Maestro 123 456 789 321	✓ Music Commercials ✓ Holiday Delete
	Special Case Cart Type
	Commercials

Click "Save" to return to the main screen. Click the **Now Playing Pass-Thru** button on the main screen to continue.

Now Playing Pass-Thru

The Now Playing Pass-Thru configuration allows duplicate Now Playing data to be made available in a variety of formats to multiple sources (i.e. streaming computers or other web-based services).

Double-click the <create new> line in the Connections screen.

- Name/Description: Enter a unique name for the connection.
- If DSM32 is to act as a *server* to the destination workstation, select "Listen" as the **Style** type, enter 0.0.0.0 as the **IP Address**, and enter the desired **Port** number to listen on. DSM32 will allow the destination workstation to retrieve the Now Playing data at the local IP of the DSM32 workstation.
- If DSM32 is to act as a client to the destination workstation, select "Send" as the Style type and enter the IP Address and Port number of the destination workstation. DSM32 will push the Now Playing data information to this address.
- **Protocol:** Enter the desired protocol to use. If 'file' mode is selected, enter the entire path plus the file name into the field above.
- Format: Select the desired pass-through format from the drop down list. (See <u>examples</u> of the various export formats). When you select "User-Defined", an "Edit" button appears. Click this button to open the User-Defined Template screen (<u>example</u> on next page).
- **Options:** Select from the list of predefined modifiers for the Format selection above.

dit Connection [ID=1]	
Name/Description	AFA Listening Connection
IP Address	0.0.0
Port	5005
Protocol	TCP
Format	
Style	Listen 💌 DSM32 act as Server
Options	
Formats E+XML: App	pend Carriage-Return (CR) Char
Formats A+E+XML: A	Append Line Feed (LF) Char
Formats C+D+XML: S	Send Only First (Playing) Line
🔽 Format D: Don't Send	d Ending Countdown
Formats A+E+XML: S	Send Music ("SONG") Events Only
Formats A+C+D+E:	Trim Output (Remove Trailing Spaces)
Formats A+C+D+E: F	Prepend This Text: NoValue
Formats A+C+D+E: /	Append This Text: NoValue
	Cancel Save

User-Defined Template

Enter your user-defined template for the Now Playing export format using the Variables and Options defined on the screen. You can modify an existing format (A, C, D, and E) by clicking the button in the "Pre-Built Formats" section and modifying the variables in the template field (top of screen).

Click "Done" to save the user-defined template and return to the Connections screen.

DSM32		
User-Defined Template:		
@T @A @L		
Variables	Options	Pre-Built Formats
@A = Artist	✓ FT - Fix Title Width 37 ↓ ▶	A
@T = Title	FA - Fix Artist Width	
@E = Etc/Trivia	FE - Fix Etc/Trivia Width 34	
@L = Length		
@Y = Type (song/spot)	IR-Trim Title, Artist, and Etc Fields	
@@ = Literal '@'	SO - Send 'Song' Events Only	
@G = Category	SP - Send 'Spot' Events Only	
@C = Cart	NP - Don't Pad Category	
@I = Intro	CO - Countdown	
@D = Ending (C,F,etc)	ME - Multiple Stack Events	
@P = Playing (P) (or C)		
@S = Countdown		
@r = CR character		
@n = LF character		
		Done
		<u></u>

Click "Save" to return to the main screen. Click the **RDS Campaigns** button on the main screen.

RDS Campaigns

The Campaign configuration screen allows you to define your RDS encoder output settings, as well as set specific rules for exported text. For example, you could set a campaign to display the station slogan or advertiser sponsored text during commercials, or display upcoming concert information for a specific artist when their latest song airs.

To set up your RDS Encoder settings:

- **Type:** Select your encoder type from the drop-down menu. If your encoder type is not listed, select "User Defined".
- **IP Address** and **Port:** Enter the destination IP address and Port Number for the RDS encoder.
- **Protocol:** Select the desired protocol to use from the drop-down list. Consult your RDS encoder manual for more information about which Protocol to use.
 - Selections for *TCP* (Transmission Control Protocol) and *UDP* (Universal Datagram Protocol) will send ASCII formatting. Note that Inovonics® units are limited to TCP output only.
 - The UECP (Universal Encoder Communication Protocol) selection will send modified Audemat® UECP encoding over UDP that should be backward compatible with all Aztec® and Burk® devices.
 - UECP2 will send standard UECP encoding over UDP to these devices. Firmware 3780 or higher is required to use UECP2.
- **PS:** The **PS** setting defaults to *Static* mode. Use the drop-down menu to access the advanced option that allows you to send *Dynamic* PS instead of Static.
 - The default *Static* mode indicates text events will be sent to the RDS encoder in 8character (PS=segments) in Block mode. This is the traditional behavior of the original Comm Module.
 - Dynamic PS instead of static (prefixed as DPS= or PS_SCROLL=) to the RDS encoder. When this setting is selected, the RDS encoder itself takes care of parsing the output text internally and additional parameters must be configured on the encoder. Please reference the RDS encoder manual for individual unit configuration settings. [Aztec/Burk units require Firmware Version 3780.x or greater from <u>www.audemat-aztec.com</u> to enable this functionality].

Note that the Dynamic PS output is limited to 64 characters as a time. Campaigns over this character limit will be truncated.

- Default PS Msg: Enter a default PS message (up to 8 characters).
- **Refresh Rate:** Confirm your default refresh rate in seconds from the drop down menu.

- Radio Text (64): Mark the option for Radio Text (64) to send the identical campaigns as radiotext (i.e. TEXT= or RT=) to your RDS encoder.
 - The option for Radio Text (64) will send the identical campaigns as *radiotext* (i.e. TEXT= or RT=) to your RDS encoder. *Radiotext* carries the same 64-character limit as Dynamic PS and campaigns over this character limit will be truncated. It may be sent concurrently with either Static OR Dynamic PS. *Radiotext* may require additional configuration on the RDS encoder Please reference the RDS encoder manual for individual unit configuration settings. [Aztec/Burk units require Firmware Version 3780.x or greater from www.audemat-aztec.com to enable this functionality].
- **Radio Freq:** Enter the radio frequency of the station being configured.
- **Slogan:** Enter the station slogan. The field next to the slogan displays the total time it will take to run the slogan depending on the Refresh Rate previously selected.

Options

Ignore 'NONT' Type: Selecting this option will prevent NONT (Do Not Play on Internet) events from being output over the RDS.

Publish Spot Titles: Selection this option will allow spot titles to be output from the RDS encoder.

Type Aztec FMB80 IP Address 123.456.789.322	Port	5007
Protocol UDP 💌 PS Static 💌 Default PS Ms	g Rock 1	D4
Refresh Rate (secs) 1.8 💌 🗆 RadioText (64) 🛛 🛛 🛛	Radio Freq	104.1
Slogan 104.1 FM Your Home For Rock	5	Slogan 7.2 secs
Options ☐ Ignore 'NONT' Type	t Titles	
	E 19-3 3	
Campaigns (Highlight Then Use Button [DoubleClick = Default Campaions Ccreate new>	Edit])	Edit
Campaigns (Highlight Then Use Button [DoubleClick = Default Campaions <create new=""></create>	Edit])	Edit

Set up the Default Campaign

Double-click the "Default Campaigns" line in the Campaigns screen.

Replace the "NoValue" text with your custom text fields along with Title and Artist wildcards (in the dropdown menus). This information will be sent (from top to bottom) to the RDS encoder while defined music cuts are playing.

Leaving the 'NoValue' text in a field will omit that field from being sent to the RDS encoder.

DSM32			
⊢Edit Default Ca	mpaigns]
Music Campa	aign		
Text Part #	1 Now Playing		
Title or Arti	s Title 👤		
Text Part #2	² by		
Title or Arti	s Artist		
Text Part #3	3 on Rock 104		
Spot Campai	ign		
Text Part #1	l Tell		
	Spot Name Appears Here		
Text Part #2	2 Rock 104 sent you		
Note: Use Sp	pecial Text "NoValue" to skip over any field.	Cancel Save	
]

Enter your Default Campaign settings and click "Save" to return to the Campaign configuration.

Set up Custom Campaigns

Double-click the <create new> line in the Campaigns screen.

Enter a unique **Name** for the campaign. The **Enable** drop-down list allows you to disable and re-enable a campaign while retaining the previously entered values. A 'Disabled' campaign will not be triggered, and is grayed out under the campaign menu.

Next, select a Campaign Trigger **Type** from the drop-down list. Note that additional fields may appear depending on the type of campaign selected.

Campaign Trigger Types:

- Ad Matching: will be triggered when the 'Title' field of a spot matches the include list.
- Artist Matching: will be triggered when the 'Artist' field of a song matches the include list.
- Open Inventory: will be triggered when no other criteria is met.
- Title Matching: will be triggered when the 'Title' field of a song matches the include list.

If you have selected a type that requires text to trigger the campaign, enter the "include" value in the field under the **"Matching These Advertisers"** list. Click "Add" to add the values to this list.

Use the "Find" button to search for an existing advertiser. You may also select a value from the historical RDS data using the "Find" button. Select a value from the Find menu and click 'Add' to append the value to the list.

Name Pe	Enabled -		
Туре	Ad Matchi	ng 👻 Matching These Advertisers	
Priority	Medium	Pete's	
Start Dat	e 4/20/20	09 💌	Delete
Play Thru	5/18/20	09 🔽	
Minimum Betweer	Minutes Plays	15 💌	Find
Minimum Betweer Repeat R	Minutes Plays ate Contir		Find Add
Minimum Betweer Repeat R Campaig	Minutes Plays ate Contir	15 ▼ uous ▼ dcards: StationName Erequency Slogan)	Find Add
Minimum Between Repeat R Campaign Cheddar is	Minutes Plays ate Contir Text (W	IS uous Locards: _StationNameFrequencySlogan_) ete's House of Cheese!	Find Add
Minimum Between Repeat R Campaign Cheddar is Dav/Hour	Minutes Plays ate Contir Text (M better at P	IS v uous v dcards: _StationNameFrequencySlogan_) ete's House of Cheese! ne (Black = Blocked, Green=Allow)	Find Add
Minimum Between Repeat R Campaign Cheddar is Day/Hour Non M	Minutes Plays ate Contir Text (will better at P Restrictio	15 ▼ uous ▼ dcards: _StationNameFrequencySlogan_) ete's House of Cheese! ms (Black = Blocked Green=Allow) 6 7 8 9 10 11 N 1 2 3 4 15 6 7 8 9 10 11	Select All
Minimum Between Repeat R Campaign Cheddar is Day/Hour Hon M Tue M	Minutes Plays ate Contir Text (will better at P Restriction 2 3 4 5 2 3 4 5	15 ▼ uous ▼ dcards: _StationNameFrequencySlogan_) ete's House of Cheese! ms (Black = Blocked Green=Allow) 6 7 8 9 10 11 N 1 2 3 4 5 6 7 8 9 10 11 6 7 8 9 10 11 N 1 2 3 4 5 6 7 8 9 10 11 6 7 8 9 10 11 N 1 2 3 4 5 6 7 8 9 10 11	Select All
Minimum Between Repeat R Campaign Cheddar is Day/Hour Hon M Tue M Wed M	Minutes Plays ate Contir Text (M better at P Restriction 2 3 4 5 2 3 4 5 2 3 4 5	15 ▼ uous ▼ dcards: _StationNameFrequencySlogan_) ete's House of Cheese! ms (Black = Blocked Green=Allow) 6 7 8 9 10 11 N 1 2 3 4 5 6 7 8 9 10 11 6 7 8 9 10 11 N 1 2 3 4 5 6 7 8 9 10 11 6 7 8 9 10 11 N 1 2 3 4 5 6 7 8 9 10 11 6 7 8 9 10 11 N 1 2 3 4 5 6 7 8 9 10 11	Select All
Minimum Between Repeat R Campaign Cheddar is Day/Hour Mon M Tue M Wed M Thu M	Minutes Plays ate Contir Text (M better at P Restriction 2 3 4 5 2 3 4 5 2 3 4 5 2 3 4 5	15 ▼ uous ▼ dcards: _StationNameFrequencySlogan_) ete's House of Cheese! ms (Black = Blocked Green=Allow) 6 7 8 9 10 11 N 1 2 3 4 5 6 7 8 9 10 11 6 7 8 9 10 11 N 1 2 3 4 5 6 7 8 9 10 11 6 7 8 9 10 11 N 1 2 3 4 5 6 7 8 9 10 11 6 7 8 9 10 11 N 1 2 3 4 5 6 7 8 9 10 11 6 7 8 9 10 11 N 1 2 3 4 5 6 7 8 9 10 11	Select All
Minimum Between Repeat R Campaign Cheddar is Day/Hour Mon M Tue M Wed M Thu M Fri M	Minutes Plays ate Contir Text (M better at P Restriction 2 3 4 5 2 3 4 5	15 ▼ uous ▼ dcards: _StationName Frequency_ Slogan_) rete's House of Cheese! ms (Black = Blocked Green=Allow) 6 7 8 9 10 11 N 1 2 3 4 5 6 7 8 9 10 11 6 7 8 9 10 11 N 1 2 3 4 5 6 7 8 9 10 11 6 7 8 9 10 11 N 1 2 3 4 5 6 7 8 9 10 11 6 7 8 9 10 11 N 1 2 3 4 5 6 7 8 9 10 11 6 7 8 9 10 11 N 1 2 3 4 5 6 7 8 9 10 11 6 7 8	Select All
Minimum Between Repeat R Campaign Cheddar is Day/Hour Mon M Tue M Wed M Fri M Sat M	Minutes Contin ate Contin Text (M) better at P P Restriction 2 3 4 5 2 3 4 5 2 3 4 5 2 3 4 5 2 3 4 5 2 3 4 5 2 3 4 5 2 3 4 5 2 3 4 5 2 3 4 5 2 3 4 5 2 3 4 5 2 3 4 5 2 3 4 5 2 3 4 5 2 3 4 5 2 3 4 5 2 3 4 5 5 4 5	15 ▼ uous ▼ dcards: _StationName Frequency_ Slogan_) ete's House of Cheese! ns (Black = Blocked Green=Allow) 6 7 8 9 10 1 N 1 2 3 4 5 6 7 8 9 10 11 6 7 8 9 10 11 N 1 2 3 4 5 6 7 8 9 10 11 6 7 8 9 10 11 N 1 2 3 4 5 6 7 8 9 10 11 6 7 8 9 10 11 N 1 2 3 4 5 6 7 8 9 10 11 6 7 8 9 10 11 N 1 2 3 4 5 6 7 8 9 10 11 6 7 8	Select All Clear All

Priority can be adjusted to one of five values: Lowest, Low, Medium, High, and Highest to assist with conflict resolution. The default priority is Medium.

The **Start Date** and **Play Thru** dates define the first day a campaign will run and the last date a campaign will run through.

The **Minimum Minutes Between Plays** selection will set the minimum period of time that must elapse before the campaign screen is open to play again. A value of 'None' will cycle the campaign indefinitely until the next element in started.

The **Repeat Rate** selection allows fine-tuning a campaign as it will determine the frequency of a campaign within the campaign screen.

The text entered in the **Campaign Text** field will be displayed when the campaign is triggered. Type your own text in the field, or enter one or all of the "wildcards" displayed under the text field. You must enter these exactly like the examples:

- _StationName_ will be taken from the "Station Name" field in the SS32/Maestro configuration screen.
- _Frequency_ will be taken from the "Radio Freq" field in the Configure Campaign main screen.
- _Slogan_ will be taken from the "Slogan" field in the Configure Campaign main screen.

The **Day/Hour Restrictions** area allows you to define the hours and days of the week that a campaign can be triggered. All days and hours are enabled (in green) by default. Restricted hours and days are denoted in black. Simply click on the hour in the grid to change the restrictions.

The **Last Used** field displays the last date and time the campaign was triggered. The **Use After** field will display the next available run time for the campaign. The **Publish In** field serves as a counter for the repeat rate.

Diagnostics

The diagnostic screen provides a quick way to monitor the incoming data to the DSM32 service from your SS32/Maestro system. Click the **Monitor Connections** button on the main screen to open the Diagnostics screen.

The **Monitor Now Playing** screen displays the text being generated from SS32/Maestro to DSM32 when the monitor box is checked. Switch the view by clicking the box to display **Encoder Replies**.

The **Connection Activity** displays the Foreign Address connection for diagnostic purposes.

Use the "Clear" button next to each of these screens to clear the screen and monitor new information coming in.

The **Logging Option** selections will record the selected data (configuration editing, socket activity, or campaign logic) in a DSM32Log.txt file in the DSM32 directory.

The Send Format-D and Sent XML buttons send a test output in the selected format to all sockets.

DSM32 Diagnostics				
Monitor: 🔽 Now Playing from	m SS32/Maestro	Encoder Replies	3	Clear
L10600SPOT02Liner 2 RC L10600SPOT01Liner 2 RC L10600SPOT00Liner 2 RC L10600SPOT00Liner 1 LEG L10001SPOT Liner 1 LEG L10001SPOT03Liner 1 LEG L10001SPOT02Liner 1 LEG L10001SPOT01Liner 1 LEG	0TATOR P00 0TATOR P00 0TATOR P00 0AL P00F00 0AL P00F0 0AL P00F0 0AL P00F0	0:000:04L110001SPOT02L 0:000:04L110001SPOT01L 0:000:04L110001SPOT00L :04L110600SPOT Liner 3 0:04L110600SPOT03Line 0:04L110600SPOT02Line 0:04L110600SPOT01Line	iner1 LEG. iner1 LEG. ROTATOP r3 ROTAT r3 ROTAT r3 ROTAT r3 ROTAT	AL AL AL COR OR OR OR
4				
Connection Activity Connection Closed 172.29.106.95 Po Connection Completed 172.29.106.95 Po Connection Closed 172.29.106.95 Po Connection Closed 172.29.106.95 Po	rt=5005 5 Port=5005 rt=5005 5 Port=5005 rt=5005	Clear	Sample to All Conn Send Format-E Send XML Logging Options Cog Edit Activity Log Socket Activity Log Campaign L	ects

Now Playing Examples

Formats D and E are the only two formats SS32 can export to DSM32. DSM32 can export in formats A, C, D, E, XML, and User-Defined.

Now Playing data exported from a pass-through when connected to a Maestro system will only export the current on-air event.

Format A

TEXT= <<title [37 bytes]>> <<two spaces>> <<artist [25 bytes] >> CR for a total length of 70 bytes. Title and artist fields are truncated as needed to fit in the respective locations.

Text=Once Bitten, Twice Shy Great White

Format C

CAT(3)/CART(4)/TYPE(4)/TITLE(28)/ARTIST(28)/STATUS(1)/LENGTH(5)/CR/LF

1109054SONGOnce Bitten, Twice Shy P04:59	Great White
1031058NONTHello It's Me C03:38	Rundgren, Todd
SWP0200SPOTPETERS C00:02	
1052205SONGI Want You To Want Me C02:56	Cheap Trick
4010127SONGA Hard Day's Night C02:24	Beatles, The
4010181SONGRunaway C02:13	Shannon, Del
4032338SONGSouthern Man C05:20	Young, Neil
SWP0201SPOTMILKBONE C00:04	

Format D

CAT(3)/CART(4)/TYPE(4)/WARN(2)/TITLE(28)/ARTIST(28)/STATUS(1)/INTRO(2)/END(1)/LENGTH(5)/C R/LF

11 P2	09054SONG 1F04:59	Once Bitten, Twice Shy	Great White
10 C1)31058NONT 2F03:38	Hello It's Me	Rundgren, Todd
SW CO	VP0200SPOT)0F00:02	PETERS	
10 C1)52205SONG .0F02:56	I Want You To Want Me	Cheap Trick
40 C0)10127SONG)2F02:24	A Hard Day's Night	Beatles, The
40 C0)10181SONG)6F02:13	Runaway	Shannon, Del
40 C1)32338SONG .3F05:20	Southern Man	Young, Neil
SW CO	VP0201SPOT	MILKBONE	

Format E

CAT(3)/CART(4)/TYPE(4)/TITLE(43)/ARTIST(34)/TRIVIA(34)/INTRO(2)/END(1)/LENGTH(5)/NULLBYTE(1)

1109054SONGOnce Bitten, Twice	e Shy	Great	White
Twice	Shy	21F()4:59

This is an example of the XML export format saved in a text file.

Note that XML exported from the pass-through when connected to a Maestro system will only export the current on-air event.

<NowPlaying><Call>GGLA-FM</Call><Events><SS32Event pos="0" valid="true"><CatId>110</CatId><CutId>9054</CutId><Type>SONG </Type><SecondsRemaining> </SecondsRemaining><Title><![CDATA] [Once Bitten, Twice Shy]]></Title><Artist><![CDATA[Great White]]></Artist><Intro>21</Intro><Len>04:59</Len><Raw><![CDATA [1109054SONG Once Bitten, Twice Shy Great White P21F04:59]]></Raw></SS32Event><SS32Event pos="1" valid="true"> <CatId>103</CatId><CutId>1058</CutId><Tvpe>NONT</Tvpe> <SecondsRemaining> </SecondsRemaining><Title><![CDATA[Hello It's Me]]></Title><Artist><![CDATA[Rundgren, Todd 11> </Artist><Intro>12</Intro><Len>03:38</Len><Raw><![CDATA [1031058NONTHello It's Me Rundgren, Todd C12F03:38]]></Raw></SS32Event><SS32Event pos="2" valid="true"> <CatId>SWP</CatId><CutId>0200</CutId><Type>SPOT</Type> <SecondsRemaining> </SecondsRemaining><Title><![CDATA]]]></Title><Artist><![CDATA[----[PETERS]]></Artist><Intro>00</Intro><Len>00:02</Len><Raw><![CDATA [SWP0200SPOT PETERS ____ C00F00:02]]> </Paw></SS32Evant><SS32Evantnos="3"valid="trua"><CatId>105

XML