

# CSRDS

## Quick Start Guide

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## Version History

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# 1 Center Stage Live – Installation Overview

Center Stage Live is a “network” package that includes a variety of programs used by different departments running on different computers. As such, the installation is in two parts:

First, the “server” installation is run once to create a common directory or “File Server” where all the programs and data will be stored. This installation does NOT add or run any applications on this computer.

Secondly, the “Client” installations are used to install the various modules on designated computers. The client install will register the necessary files and create a shortcut pointing to the program in the file server directory that was created during the server installation. Note: The user will require full rights to the File Server directory.

The actual datacasting processes are handled by the CSRDS client. This module sits between input sources such as the Radio Automation System (RAS) and any combination of output devices including, RDS/RBDS encoders, HD Radio systems, website, streaming and web services, etc. Therefore, the computer running this module MUST be able to access the necessary output devices and services.

## 1.1 Where to Install the Center Stage Live CSRDS Module for Metadata Processing

The Center Stage Live package is very compact and does not require a lot of computing power or disk space. It can be installed on any computer running Windows 7 or higher. Importantly, the CSRDS computer will need to run 24x7 and have access to the data from the Radio Automation System (RAS), the Center Stage Installation directory (Fileserver) and the various output devices. *While you may install and run CSRDS on an existing computer used for other applications, if the individuals using that computer log off or shut down the computer, the metadata will no longer be processed.*

**System Requirements:** Depending on the features used, the Center Stage Live File Server will require 50-100mb of disk space. There are no server applications as the “server” is simply a common data storage area. Workstations will need the appropriate network cards and access to the file server directory. Please note: peer to peer configurations may limit the number of concurrent users. If the connection limit is exceeded, the Center Stage installation directory should be located on a station’s Local Area Network.

### 1.1.1 Input and Output Considerations

Table 1 and Table 2 summarize the communications options used by CSRDS. Depending on the required inputs and outputs, you will need to ensure CSRDS can communicate with the necessary devices.

Table 1: CSRDS Inputs

Device	Description	Access Method
Automation System	Supplies CSRDS with now playing information	RS-232, TCP/IP, UDP/ASCII file (XML,CSV,ASC,etc)
Scheduled Content	The promotional and commercial messages scheduled using the CSScheduler client	Read from the Center Stage Live Installation directory (File Server)
Web Downloads	MetaPub, local weather forecast and/or now playing information for non-automation periods using the CSWeather client  (Neilson BDS, Smart Jazz)	Internet Connection

Table 2: CSRDS Outputs

Device	Description	Access Method
RDS\RBDS Encoder	RDS\RBDS encoder (Radio Text, Dynamic PS, RT+, PTY)	RS-232, TCP/IP, UDP (Device dependant)  When the encoder is off-site, we may use the serial port on the STL or a DSL connection to the site.
HD Systems	HD Metadata/The Artist Experience	TCP/IP  The JMSAC module from the hardware vendor
Web Site	Now playing and playlist history based on the template format for the website	FTP
Stream	Now playing information based on the template for the stream	TCP/IP, UDP, HTTP, HTTPS, URL Post
Audit and Log Files	Audit file, CSRDS logs, now playing and playlist for use in other applications	Center Stage Live installation directory (File Server)

**Web Site, stream, and local files are user-definable and can be customized using an ASCII text file as a template. Create the ASCII file inserting our “Merge” codes where the data is to be placed. Details can be found on the downloads page:**

[http://www.arcticpalm.com/downloads/RDS\\_Templates.pdf](http://www.arcticpalm.com/downloads/RDS_Templates.pdf).

## 2 Installation for Center Stage Live and CSRDS

The Center Stage Live installation process follows the standard Microsoft installation procedures with on-line instructions. **You will need to be logged in as an Administrator to install the applications.** Depending on UAC (user account control), you may need to right click the program and select “Run As Administrator”.

Table 3: Installation Process

STEP	Action	Description
1	<p><b>Download the Installation Set</b></p> <p><a href="http://www.arcticpalm.com/downloads/centerstage.exe">http://www.arcticpalm.com/downloads/centerstage.exe</a></p>  <p>centerstage.exe</p>	<p>When requested, select “Save” and download the install set to your computer.</p>
2	<p><b>Unpack the Installation Software</b></p> <p>Run the centerstage.exe downloaded in step 1.</p>	<p>This setup is only run once to extract the install set to the C:\ARCTICPALM\Center Stage CD directory.</p>
3	<p><b>Run the Server Installation</b></p> <p>Browse to the ARCTICPALM\Center Stage CD\Server directory and run the setup.exe in this directory.</p>	 <p>This setup is only run once to create the Center Stage File Server directory which contains all the Center Stage Live programs and files.</p>

STEP	Action	Description
4	<p><b>CSRDS Installation</b></p> <p>Once the server installation is completed, browse to the ARCTICPALM\Center Stage CD\Clients\CSRDS directory and run the setup.exe in this directory.</p> <p><b>This completes the Center Stage Live and RDS installations and you may now configure the RDS modules to start capturing now playing information and send it to the various “RDS” outputs.</b></p> <p>This process may install and register various MS drivers on the PC. If a driver is in use by another application, you may receive an error message. Click “Ignore” as the driver is already installed and registered.</p>	 <p>This will add the RDS modules, CSRDS, CSWeather and CSScheduler to the workstation’s Start Menu and Desktop.</p>

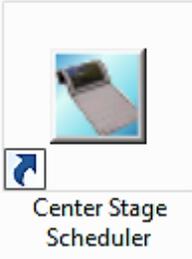
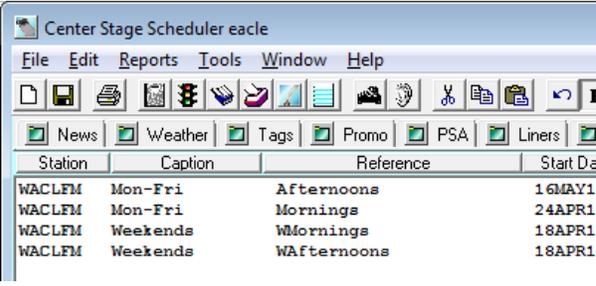
### 3 Center Stage Station Configurations

In addition to scheduling informational, promotional and commercial messages, CSScheduler is used for station configurations. This includes the creation of station IDs and licensing Center Stage Live and other add-on modules.

#### 3.1 Station Configuration

Station and Logos, is a system-wide configuration that defines how the station will be identified throughout the Center Stage Live system. Station IDs may be your call letters, street name or any other unique identifier. This information is used internally, allowing the individual modules to identify what configuration and/or copy is used for which station.

Table 4: Station Configuration

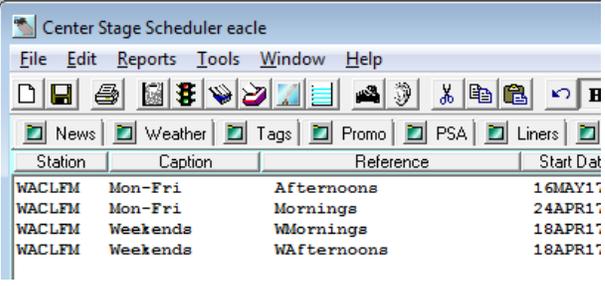
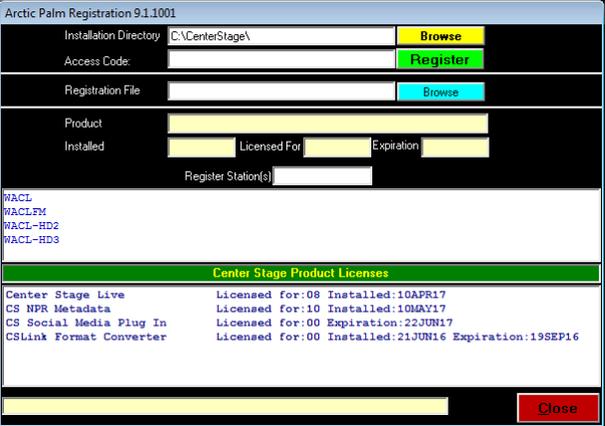
STEP	Action	Description																				
1	Start Center Stage Scheduler from the shortcut on the computer desktop.	 <p>The image shows a desktop shortcut icon for 'Center Stage Scheduler'. It features a small graphic of a computer monitor and keyboard, with a blue arrow icon pointing to the bottom-left corner of the icon. Below the graphic, the text 'Center Stage Scheduler' is displayed.</p>																				
2	Select "Station and Logos" from the Tools menu.	 <p>The image is a screenshot of the 'Center Stage Scheduler eacle' application window. The title bar reads 'Center Stage Scheduler eacle'. The menu bar includes 'File', 'Edit', 'Reports', 'Tools', 'Window', and 'Help'. Below the menu bar is a toolbar with various icons. A secondary toolbar contains buttons for 'News', 'Weather', 'Tags', 'Promo', 'PSA', and 'Liners'. The main area of the window displays a table with the following data:</p> <table border="1"> <thead> <tr> <th>Station</th> <th>Caption</th> <th>Reference</th> <th>Start Dat</th> </tr> </thead> <tbody> <tr> <td>WACLFM</td> <td>Mon-Fri</td> <td>Afternoons</td> <td>16MAY17</td> </tr> <tr> <td>WACLFM</td> <td>Mon-Fri</td> <td>Mornings</td> <td>24APR17</td> </tr> <tr> <td>WACLFM</td> <td>Weekends</td> <td>WMornings</td> <td>18APR17</td> </tr> <tr> <td>WACLFM</td> <td>Weekends</td> <td>WAfternoons</td> <td>18APR17</td> </tr> </tbody> </table>	Station	Caption	Reference	Start Dat	WACLFM	Mon-Fri	Afternoons	16MAY17	WACLFM	Mon-Fri	Mornings	24APR17	WACLFM	Weekends	WMornings	18APR17	WACLFM	Weekends	WAfternoons	18APR17
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STEP	Action	Description
3	<p>Ensure the <b>Start In</b> directory is correct.</p> <p><b>Media Files</b> can be ignored.</p> <p><b>Show entries for</b> defines how long to keep entries after the end date.</p> <p><b>Station ID</b> identifies this station within the system and must match ID's in other modules.</p> <p><b>Logo</b> is optional and may be left blank. This field is required for HD logos to display.</p> <p><b>Generate Studio Folder</b> (only required when used with CS Copy Management)</p> <p><b>Password</b> is optional. When this is used, you will need it to change studios in CSLive.</p> <p><b>Update Station</b> is used to add the station to the list. Double click any entry in the list to remove it. <i>Note: Only the number of stations licensed can be added.</i></p> <p><b>Update System Settings</b> is used to update all the modules across the Center Stage system with the new station configurations. Select this once all stations have been updated.</p>	

### 3.2 Center Stage Live and CSPRM Registration

Registration is only done once and each access code will cover all stations at the site. This should be done once station IDs have been entered.

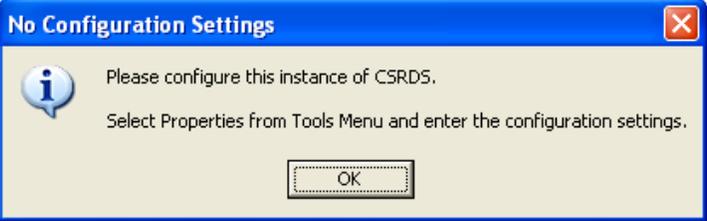
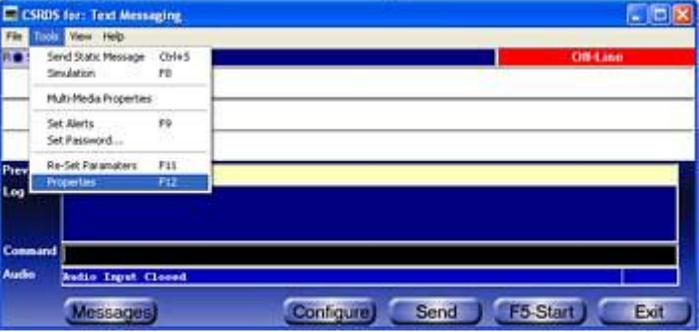
Table 5: Center Stage Live and CSPRM Registration

STEP	Action	Description																				
1	Select "Register/Upgrade" from the Tools menu.	 <p>The screenshot shows the 'Center Stage Scheduler eacle' application window. It has a menu bar with 'File', 'Edit', 'Reports', 'Tools', 'Window', and 'Help'. Below the menu bar is a toolbar with various icons. A secondary toolbar contains buttons for 'News', 'Weather', 'Tags', 'Promo', 'PSA', and 'Liners'. The main area displays a table with the following data:</p> <table border="1"> <thead> <tr> <th>Station</th> <th>Caption</th> <th>Reference</th> <th>Start Dat</th> </tr> </thead> <tbody> <tr> <td>WACLFM</td> <td>Mon-Fri</td> <td>Afternoons</td> <td>16MAY17</td> </tr> <tr> <td>WACLFM</td> <td>Mon-Fri</td> <td>Mornings</td> <td>24APR17</td> </tr> <tr> <td>WACLFM</td> <td>Weekends</td> <td>WMornings</td> <td>18APR17</td> </tr> <tr> <td>WACLFM</td> <td>Weekends</td> <td>WAfternoons</td> <td>18APR17</td> </tr> </tbody> </table>	Station	Caption	Reference	Start Dat	WACLFM	Mon-Fri	Afternoons	16MAY17	WACLFM	Mon-Fri	Mornings	24APR17	WACLFM	Weekends	WMornings	18APR17	WACLFM	Weekends	WAfternoons	18APR17
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2	<p>Enter the Center Stage Live (CSL) <b>Access Code</b> provided by Arctic Palm.</p> <p>Click the green <b>Register</b> button.</p> <p>Enter the CSPRM <b>Access Code</b> provided by Arctic Palm.</p> <p>Click the green <b>Register</b> button.</p> <p>When completed, click <b>Close</b>.</p>	 <p>The screenshot shows the 'Arctic Palm Registration 9.1.1001' dialog box. It contains several input fields and buttons:</p> <ul style="list-style-type: none"> <li>Installation Directory: C:\CenterStage\ (with a yellow 'Browse' button)</li> <li>Access Code: (with a green 'Register' button)</li> <li>Registration File: (with a blue 'Browse' button)</li> <li>Product: (text input field)</li> <li>Installed: (text input field)</li> <li>Licensed For: (text input field)</li> <li>Expiration: (text input field)</li> <li>Register Station(s): (text input field)</li> </ul> <p>Below these fields is a list of products and their licenses:</p> <table border="1"> <thead> <tr> <th colspan="2">Center Stage Product Licenses</th> </tr> </thead> <tbody> <tr> <td>Center Stage Live</td> <td>Licensed for:08 Installed:10APR17</td> </tr> <tr> <td>CS NPR Metadata</td> <td>Licensed for:10 Installed:10MAY17</td> </tr> <tr> <td>CS Social Media Plug In</td> <td>Licensed for:00 Expiration:22JUN17</td> </tr> <tr> <td>CSLink Format Converter</td> <td>Licensed for:00 Installed:21JUN16 Expiration:19SEP16</td> </tr> </tbody> </table> <p>A red 'Close' button is located at the bottom right of the dialog box.</p>	Center Stage Product Licenses		Center Stage Live	Licensed for:08 Installed:10APR17	CS NPR Metadata	Licensed for:10 Installed:10MAY17	CS Social Media Plug In	Licensed for:00 Expiration:22JUN17	CSLink Format Converter	Licensed for:00 Installed:21JUN16 Expiration:19SEP16										
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## 4 CSRDS Configuration for RDS/RBDS Encoders and HD Radio Technology

Given in Table 6 is a brief description of the basic configuration settings required to capture now playing information from your radio automation system and scheduled promotional messages, and send them to your RDS\RBDS encoder and/or HD system. This example uses the most common settings. For more detailed configurations or for updating other devices, see the **CSRDS Configuration Guide.PDF** in the PDF directory of the Install set (ARCTICPALM\Center Stage CD\PDF).

Table 6: Basic Configuration Settings

STEP	Action	Description
1	<p><b>Start CSRDS as a System Administrator</b></p> <p>Double click the CSRDS icon to start the program. The first time you run CSRDS, you will receive the configuration warning. Depending on the UAC settings, you may need to right click the CSRDS icon and select “Run as Administrator” even when logged in as an administrator.</p>	 <p>Click OK to Continue</p>
2	<p><b>Open the Properties Window</b></p> <p>Select “Properties” from the Tools menu to open the properties window and configure this instance of CSRDS.</p>	 <p>Select Tools   Properties</p>

STEP	Action	Description
3	<p><b>General Tab</b></p> <p>Select the station’s call letters from the “Center Stage Station ID” dropdown field and click “Default Settings” to set the basic configurations for this station.</p> <p>Enter the station’s slogan in the Static Message area. This message will be used during commercial and talk segments if there are no scheduled promotional messages.</p>	<p>Enter the call letters in the Center Stage Station ID</p> <p>Enter the station slogan in the Static message area.</p>

STEP	Action	Description
4a	<p><b>Input Sources Tab</b></p> <p>Use this tab to configure the communications to the automation system. The communications and settings will be determined by which radio automation system is in use.</p> <p><b>Communications RS-232</b></p> <p>To use the serial connection, select the com port and set the com port settings to match the setting in the automation system. These MUST match exactly.</p> <p><b>Input from IP</b></p> <p>If using an IP link to the automation system, enter the IP and port used by the automation system. Be sure the CSRDS computer can access that automation system network and that the ports are open and not being blocked by firewalls, routers, port forwarding, etc.</p> <p>Note: For NextGen/Zetta, select the “Input Source is the Client” option in the “Other” tab.</p> <p><b>Music from File</b></p> <p>To access the now playing information in a file created by the automation system, enter the full path and filename in the “Music From File” area or use the “Browse” button to find the file.</p>	<p>The screenshot shows the 'CSRDS Properties' dialog box with the 'Input Sources' tab selected. The 'Config File' is set to 'CSRDSWACL_FM.INI'. The 'Hard Disk System Connection' section includes 'Maximum Speed' (9600), 'Port' (&lt;None&gt;), 'Connection' (Data Bits: 8, Parity: None, Stop Bits: 1), and 'Flow Control' (Hardware, Xon/Xoff, RTS, Xon/RTS). The 'Music Format' section has radio buttons for various formats, with 'AV' selected. The 'Music from File' section shows the file path 'C:\CSWRITE\MUSICFROM\RAS.TXT' and options for 'Artist/Title Separator' (BY), 'Brand ID' (On WACL FM), and 'Text Format' (As is). The 'Input from IP' section has 'Local' selected. The 'Log File' and 'Format' sections are also visible. At the bottom, there is an 'Add to Target Line in Shortcut' section with 'WACL_FM' selected.</p>

STEP	Action	Description
4b	<p><b>Common Settings</b></p> <p>Check the “Do Not Send Promos During Songs” option.</p> <p>Change the “Brand ID” to reflect the station’s street name. (ie: Hawk, The River, Eagle, etc)</p>	<p>The screenshot shows the 'CSRDS Properties' dialog box with the 'General' tab selected. Key settings include:</p> <ul style="list-style-type: none"> <li><b>Config File:</b> CSRDSWACL_FM.INI</li> <li><b>Music Format:</b> AV (selected)</li> <li><b>Channels:</b> 1, 2, 3, 4 (checked)</li> <li><b>Brand ID:</b> On WACL FM</li> <li><b>Do not send promos during songs:</b> (checked)</li> <li><b>Split Input Source:</b> Local (checked)</li> <li><b>Text Format:</b> As is (selected)</li> <li><b>Log File:</b> (empty)</li> <li><b>Format:</b> (empty)</li> <li><b>Add to Target Line in Shortcut:</b> WACL_FM</li> </ul>

STEP	Action	Description
5a	<p><b>RDS\RBDS Encoder Tab</b></p> <p>Use this area to configure the CSRDS for the Encoder Communications</p> <p><b>RS-232</b></p> <p>To use the serial connection, select the com port and set the com port settings to match the setting in the RDS\RBDS encoder. These MUST match exactly. Please check the pin outs for the encoder as different encoders may use straight through while others use crossover.</p> <p><b>Input from IP</b></p> <p>If using an IP link to the RDS\RBDS encoder, enter the IP and port used by the automation system. Be sure the CSRDS computer can access the automation system network and that the ports are open and not being blocked by firewalls, routers, port forwarding, etc.</p>	

STEP	Action	Description
5b	<p><b>Common Settings</b></p> <p><b>PI</b> – Enter the call letters and click the “PI=” button.</p> <p><b>PTY</b> – Enter the program type code closest to the station’s format. Use the “PTY” button to view the valid RDS program type codes.</p> <p><b>USE Dynamic PS</b> – Select this option to show the 64 character radio text message in the 8 character PS display. When used, you will need to confirm this setting.</p> <p><b>Note: For most encoders, the PS, PI Code, M/S, RT, Level, ATT, DRTS, Phase, G, H and AF+ settings are configured using the encoder’s configuration module and are not required in CSRDS.</b></p>	<p>Once the PS has been entered, the settings can be saved. The configuration settings will be saved as CSRDSxxxxx.INI where xxxxx is the PS and shown in the top right on the CSRDS properties.</p> <p>To run this instance of CSRDS, right click the CSRDS icon and click “Properties”. Then add the PS to the target (as shown in the bottom left green field).</p> <p><b>e.g., C:\CenterStage\CSRDS.exe WACL-FM</b></p>

STEP	Action	Description
6	<p><b>HD/IP Output Tab</b></p> <p>Use this area to configure the CSRDS for HD.</p> <p>The HD Radio formats are handled using drivers used under license from iBiquity. Use the following options to select the version required for your system:</p> <p><b>Formats</b></p> <p><b>NO HD</b> This option turns off feeds to HD Radio systems.</p> <p><b>MPSPAD</b> These are the original drivers used for the main HD channel.</p> <p><b>HDR HDP v1.0</b> Version 1.0 of the iBiquity SDK and handles systems prior to version 2 of the exporter software.</p> <p><b>HDR HDP v2.0</b> Version 2.0 of the iBiquity SDK and handles systems using version 2 of the exporter software.</p> <p><b>PSDGen v4.5</b> Version 4.5 of the iBiquity SDK and handles systems using version 4 of the exporter software.</p> <p><b>SendLabel+</b> The European format for DAB.</p> <p><b>JMSAC</b> Select this option to link to the MSAC module available from your hardware vendor. Use this for, both, PAD and The Artist Experience for artwork.</p>	<p>The screenshot shows the 'CSRDS Properties' dialog box with the 'HD/IP Output' tab selected. The 'Config File' is 'CSRDSWHDR.INI'. The 'Output To IP' section has 'Main' and 'Back Up' fields, and radio buttons for 'TCP/IP', 'UDP', 'HTTP', 'HTTPS', and 'Web'. The 'Output Format' section has radio buttons for 'RDS/RBDS', 'Pass Through', 'Stream The World', 'Telos ProStream', 'iHeart', and 'Use Template', along with checkboxes for 'Promo Between Songs', 'URL', 'XML', 'Do Not Send Downloads', 'Do Not Send Sponsors', 'Do Not Send Promos', 'Do Not Send Alerts', and 'Resend on Error'. The 'HD Format' section has checkboxes for 'MPSPAD', 'HDR HDP v1.0', 'HDR HDP v2.0', 'PSDGen v4.5', 'SendLabel+', and 'JMSAC' (which is checked), along with checkboxes for 'Do Not Send Sponsors' and 'Do Not Send Promos'. The 'Add to Target Line in Shortcut' section shows 'WHDR' in a green box. Buttons for 'OK', 'Save', and 'Close' are at the bottom right.</p>

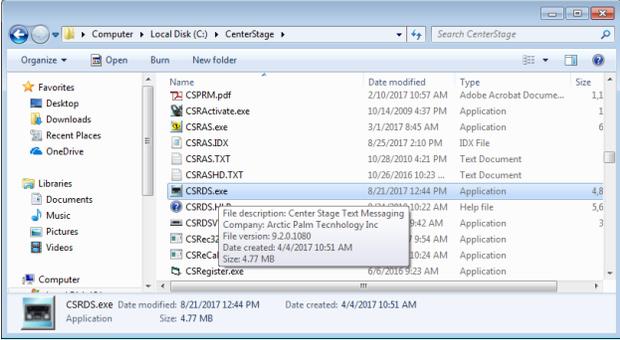
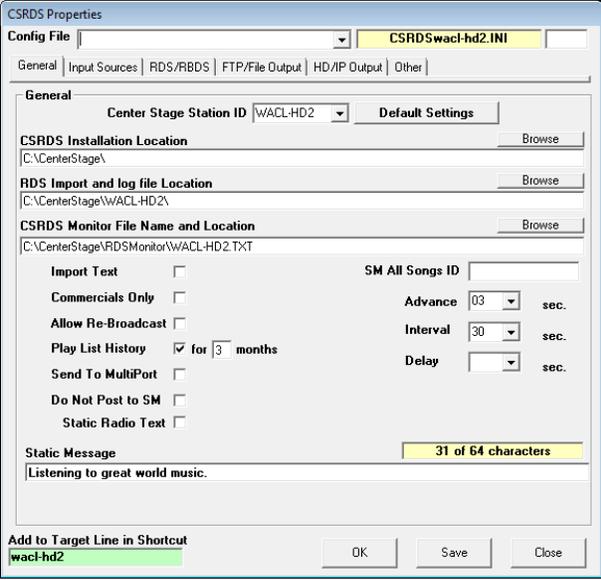
STEP	Action	Description
7	<p><b>PAD/PSD/DAB IP</b></p> <p><b>IP/Port</b> Enter the IP to the HD system for PSD and add the port. (For HD1, enter the exporter IP and port. For secondary services, enter the importer IP and ports.)</p>	
8	<p><b>Other Tab</b></p> <p>If you are sending HD artwork and/or station logo, under “JMSAC”:</p> <ol style="list-style-type: none"> <li>Enter the IP and port for the computer where the JMSAC software is running.</li> <li>Enter the path where the artwork files are to be posted for the JMSAC module. This path must be the same path as used by the JMSAC computer. If a drive mapping is used, the mapping must be the same for both the CSRDS and JMSAC computers. You can also use the UNC path to ensure both computers are looking in the same location. If the Artwork Directory label is green this area can be left blank.</li> <li>As defined in the JMSAC configuration, enter the data service name for artwork in the “Artwork (DSN1)” field, then enter the data service name for logo in the “Logo (DSN2)” field.</li> <li>Select the HD system as HD1-HD8 from the dropdown field, then click “Continue”.</li> </ol>	

STEP	Action	Description
9	<p><b>Save the Configuration and Start CSRDS</b></p> <p>Click the “OK” button to save the configuration settings. Respond to any confirmation messages and click “F5-Start” when the CSRDS controller window appears.</p>	<p>The configuration file will be saved in the root of the C:Windows directory and named based on the PS setting. For example: CSRDSKNAB-FM.INI. Multiple instances of CSRDS can be run by adding the PS to the target in the CSRDS shortcut.</p>

## 5 Multiple Stations

If desired, we can use a single computer to run multiple instances of CSRDS to send the now playing information for multiple stations.

Table 7: Creating an Additional Instance of CSRDS

STEP	Action	Description
1	<p>Manually create a shortcut on the desktop pointing to the CSRDS.exe program in the file server directory.</p> <p>This can be accomplished by right clicking on the desktop and selecting New then selecting Shortcut. Next, browse to the CSRDS.exe program.</p>	
2	<p>Double click the new shortcut to start another instance of CSRDS and select “Properties” from the “Tools” menu.</p>	<p>When started, this instance of CSRDS will use the same configuration settings as the original instance of CSRDS. When we open the “Properties” window, CSRDS is stopped and ready for the changes.</p>
3	<p>Enter the call letters for the new station or select it from the dropdown list and click “Default Settings”. When requested, click “Yes” to create the new directories.</p> <p><b>DO NOT click Save.</b></p>	
4	<p>Make the necessary configuration changes for the new station.</p>	<p>Once the PS has been entered in the RDS/RBDS Encoder tab, click “Save” to create the new configuration file.</p>

STEP	Action	Description
5	<p>Add the PS to the shortcut and rename the shortcut to identify which shortcut is for which station. Right click the shortcut on the desktop and select "Properties".</p> <p>The PS will need to be added to each shortcut to ensure the shortcut uses the correct configuration settings.</p>	<p>The screenshot shows the 'CSRDS WACL-HD2 Properties' dialog box with the 'Shortcut' tab selected. The 'Target' field contains the path 'C:\CenterStage\CSRDS.exe wacl-hd2'. The 'Start in' field is 'C:\CenterStage', 'Shortcut key' is 'None', and 'Run' is set to 'Normal window'. Buttons for 'Open File Location', 'Change Icon...', and 'Advanced...' are visible at the bottom of the dialog.</p>

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