



Integration Note

Manufacturer:	S1Digital
Model Number(s):	Audio Servers S1, H1, H3, H5CD and Others
Core Module Version:	g! 6.0 and above
Comments:	S1Digital Software 2.2-2.4.x
Document Revision Date:	3/9/2016

Note: This document refers to using the S1Digital Audio server. If you are using a Logitech Media Server with attached Squeezebox Players, please see the Logitech Media Server Integration Note.

OVERVIEW AND SUPPORTED FEATURES

The S1Digital Audio Server is a combined server and player product that is compatible with the Logitech Media Server/Squeezebox API. The S1Digital Server allows streaming of both local content and streaming internet radio. Local content may be stored on the S1Digital (depending on model) and may play multiple file formats from included audio outputs. Internet radio options are available from multiple streaming sources.

The g! system is capable of communicating with the S1Digital Audio Server to control what is playing on each player over a standard network connection, providing full 2-way feedback and control.

Bear in mind that Elan's driver is written to be compatible with the Logitech Media Server open source API, and the S1Digital is developed to be compatible with this same standard, but it is not a Logitech product.

THE FOLLOWING PLAYBACK OPTIONS ARE SUPPORTED BY THE LOGITECH MEDIA SERVER:

- Control of the Logitech Media Server (Squeezenet) compatible server and players integrated in the Fusion Research S1Digital product through the standard Logitech Media Server driver.
- Play digital audio from local or streaming internet sources through the S1Digital Server and its internal audio outputs. Note that each audio output will appear as its own Player (aka Squeezebox).
- Play and index digital music stored locally or on a network drive, also including iTunes libraries.
- Browse local music library by Artist, Album, Genre, Tracks or Playlists.
- Stream Internet Radio through Mysqueezebox.com—See **Streaming Radio** section for details.
- Now Playing and Play Queue information including metadata and album art (as available) is presented in the g! Viewer. Note that availability and level of detail of metadata will vary when using Internet Radio.
- The g! driver supports a maximum of 2 S1Digital Servers and 4 players. The S1Digital product is one server with 1-4 players, depending on model.
- The g! system can control the S1DigitalServer from all thin client interfaces (PC, Elan Touchscreen, Android, iOS), TS2 and HR2. g!

The following playback options are NOT supported by the S1Digital Server:

- Local and streaming audio provided through the S1Digital Server is not available through the HC Controllers outputs (HCPlayer).

- Some available streaming services are not supported in the **g!** interface -- see **Streaming Radio** section for details. Note the list of available services for the S1Digital server is different from the standard supported LMS list.
- Volume control of attached Squeezetnet players (S1Digital outputs) is not available from **g!**, and all units should be connected to a **g!** controllable media zone if you wish to control volume from the **g!** system.
- The S1Digital Server is controlled almost entirely through dynamic data and is not available for translation through the **g!** Internationalization feature.
- DRM Protected music formats are not supported by the S1Digital Server.
- Sort and play by Composer, Conductor or Band/Orchestra is not supported. The “My Music” Settings include an option within LMS to place these fields in the Artist tab. If this is enabled odd results will appear in the My Music section. Elan recommends keeping all of these option disabled.
- More than 2 servers and 4 players in an install is not supported.
- The S1Digital product supports some features beyond what is normally available within LMS, such as FLAC/MP3 mirroring and potentially auto-syncing files from other sources. These features have not been evaluated by Elan, and Elan makes no claims over their support or is not responsible for any odd behavior caused by their use.
- The S1Digital product makes mention of connecting Logitech Squeezebox devices to it as additional players, however such integration is untested and unsupported by Elan.
- Any special features or third-party plugins not specifically mentioned as supported in this document should be considered unsupported.

Important! The ELAN driver was tested to integrate the version indicated at the top of this document. Any future software changes by S1Digital may impact integration. Use of other versions may negatively impact integration.

Any feature not specifically noted as supported should be assumed to be unsupported.

INSTALLATION OVERVIEW – LOCAL PC

1. Install the S1Digital Audio Server at the head end, and pull power, network and audio cabling as appropriate.
2. Configure the S1Digital Audio Server basic settings through the installer interface. See **S1Digital Setup** for details.
3. Configure the Logitech Media Server software including the mysqueezebox.com account (required for streaming services). See **S1Digital Configuration** for details.
4. Test standalone function of device for playing local and streaming content as desired.
5. Integrate the S1Digital Server into the **g!** system and test proper operation. This step is outlined in **g! Configuration Details**.

ADDING AN AUDIO ZONE

Adding the LMS will create source(s) in the **g!** system, but it will not create an audio zone, which is an important distinction, because only audio zones appear in the Viewer interface.

To get an audio zone in the viewer interface, you must add an **Audio Zone Controller**.




For whole house audio systems, this will be a device like the ELAN S8.6, for example. Refer to the Integration Note for the zone controller you plan to use for more information.

To get a single listening zone, refer to the *Generic Single Zone Controller Integration Note* for more information.

S1DIGITAL SETUP

The following section details basic S1Digital configuration as a standalone product. These steps are required prior to integrating the S1Digital with the **g!** system.

Note: these steps assume a factory fresh unit and were developed using a prototype. Some differences may exist if your unit has been previously configured or if your unit is a final shipping product or has newer software than the prototype Elan used for development.

1. Install the S1Digital product electrically per Fusion Research documentation. The unit should have power, network and audio cables wired appropriately prior to powering it on.
2. The S1Digital product is headless and all configuration is done through a local computer with a web browser. To complete configuration, connect a computer to the same LAN as the S1Digital.
3. Open a Web Browser (such as FireFox or IE) and type in <http://mys1digital.com> to connect to the S1Digital web page. Configuration of the server is done via the Online Utility.
4. From the Home Page, click the Setup button in the lower right corner 
5. Make note of the IP Address and Version number- ensure that the version number falls within the range at the beginning of this document.
6. Click the Setup  button in the Information Table to access the Main Menu of the unit.
7. Select the Configure Player  icon on the right to open the player configuration menu.
 - a. In the Player Name field, provide a descriptive name for the player, i.e. "Bedroom".
 - b. Select the appropriate Audio Output for the player.
 - c. On units with multiple Audio Outputs, perform step 7 for each.
 - d. Click the "Submit" button to commit the changes.

CONFIGURING THE MYSQUEEZEBOX.COM ACCOUNT

1. Once the player name has been submitted, click on the blue box in the configuration window that states "Please check the associated MySqueezeBox account to verify that these players are registered with MySqueezeBox.com. If you need help click here..."

Please check the associated MySqueezeBox account to verify that this player is registered with MySqueezeBox.com
If you need help click here...

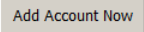
2. The following information will be displayed. Click the "Add Account Now" button to open the Account Verification prompt:


You will need to log into the associated MySqueezeBox.com account, so please have the login credentials available and make sure that both the username & password are correct

1) Verify this S1Digital Audio Server has been associated with a valid MySqueezeBox.com Account

- Successfully Connected: **Yes**

- MySqueezeBox.com Account: --No Account has been Connected--

- Account Options: 

Click the button above to associated this device with a valid MySqueezeBox.com Account & then click this  button to refresh this page

3. For an existing MySqueezeBox.com account, enter the valid user credentials in the form below then click the "Verify Credentials" button at the bottom:

MySqueezeBox.com Account Login

Input the new MySqueezeBox.com account you wish to associate this S1Digital Audio Server with.

A MySqueezeBox.com Account is usually an email address, but sometimes is a "standard" username
Ex. demo@s1digital.com or s1ddemo

If you do not have a MySqueezeBox.com account, please [click here to create one..](#)

Enter the Username & Password in the field below.
Then click "Verify Credentials" to verify that this login is correct.

Username:

Password:

If the username is valid, but you need to reset the password, please [click here to do this...](#)

4. The server will check with MySqueezeBox.com to verify the validity of the credentials and then prompt you to sync the account with the S1Digital Server. Select the "Yes, Sync" option at the bottom to perform this step. When notified that the sync has completed, click the "Close" button.
5. If you do not already have a MySqueezeBox.com account, one can be created by clicking on the "Click here to create one" link.

STREAMING RADIO CONFIGURATION

All Streaming Services should be added at MySqueezeBox.com. When a Sync is performed on the S1Digital Server, the services will be populated on the device.

STREAMING RADIO AVAILABILITY

Refer to the below chart which details what Streaming Radio Services are supported and have been tested for integration with **g!**, and special notes on their features. It is important to additionally note that some services are not available depending on the type of server configuration you are using.

App Name	Supported	Notes
AccuRadio	No	Service no longer available...
Amazon CD Store	Yes	Only displays text & allows you to add CDs to your Amazon Cart
BBC Radio	Yes	Only Available in the UK
CBC Radio	Yes	Only Available in Canada
CBS Radio	No	Plays for 2 seconds then stops
Classical.com	No	Service no longer available...
Digitally Import	Yes	
Flickr	Yes	Works only with Web Interface & not through a Control System Interface
JAZZRADIO.com	Yes	
Last.fm	Yes	Works but requires a paid subscription for streaming music
Live Music Archive	Yes	Search by Artist is NOT working
Live365	Yes	Requires Account
MP3tunes Music Locker	No	Service no longer available...
Pandora	Yes	Requires Premium Pandora One Account
Podcast	No	Has error after clicking into sub-menus
Radio Feeds UK & Ireland	Yes	Some stations are GeoLocked
RadiIO	No	MySqueezeBox.com requires an e-mail address for logging into a RadiIO account. RadiIO has shifted to using "standard" usernames for logging in. When attempting to login on MySqueezeBox.com there is always an error...
Radionomy	Yes	Note: Thumbnails/Cover-Art will be missing when using this App...
Rhapsody	No	Plays for 2 seconds then stops
RockRadio	Yes	
SHOUTcast	Yes	
SiriusXM	No	No longer available as of September 30 th 2015
SKY.fm	Yes	Name has been changed to RadioTunes.com. On MySqueezeBox.com and all Control Interfaces it still comes up as SKY.fm though...
Slacker	Yes	Requires Account (Free or Premium)
SomaFM	Yes	
Sound & Effects	Yes	
Spotify	Yes	Requires S1Digital Spotify Plugin & Premium Spotify Account.

The following issues have been observed when integrating Mysqueezebox.com Streaming Services:

- Rhapsody: Options for Instant Playlist appear and are non-functional. The issue is present in standalone Squeezebox as well and is not a **g!** issue. No bad behavior has been observed but these options are not functional.
- Rhapsody: When browsing music that is already in your library, the option exists to add the music to your library. This does not cause any bad behavior and the behavior is consistent in both **g!** and the Squeezebox.

- Some services such as MOG and Rhapsody allow you to drill down to the track level. At the track level there are options to look at the tracks “On Pandora/Rhapsody/LastFM (etc.)” or “Look up on Amazon”, or “Share on Facebook (etc.)”. None of these options are supported and their use is not recommended.
- Slacker Favorites must be configured externally before any content will appear in this area in **g!**.
- Some services provide links to descriptions that are not optimized for viewing within the **g!** Viewer. Examining descriptions, reviews or similar items is not recommended.
- MP3Tunes SmartPlay mixes were not functional in testing.
- Note that with all streaming services, there are variations on what sort of meta-data, play queue and album art is provided. It should be expected that what info is available will vary based on both the service and the type of stream you are listening to.
- Note that all streaming services will provide the **g!** Viewer with meta-data and artwork with a slight delay. This is normal behavior.

g! CONFIGURATION DETAILS

The following table provides settings used in the **g!** Configurator when connecting to a Squeezebox. Please refer to the *Configurator Reference Guide* for more details.

In the table below:

- “<User Defined>”, etc. Type in the desired name for the item.
- “<Auto Detect>”, etc. The system will auto detect this variable.

Devices	Variable Name	Setting	Comments
Communication Devices	Name	<User Defined> (Default: New Device)	
	Type	Ethernet	
	Communication Type	Logitech Media Server	
	Location	<User Defined> (Not Required)	
	Settings	<Select>	See Note 1
	IP Address/Comm Port	<User Defined>	See Note 1
Media Players	Name	<User Defined> (Default: <i>Player Name</i>)	Auto-detected when linked to LMS.
<Audio Zone Controllers>	Add an Audio Zone Controller: refer to the Integration Note for your particular zone controller. (See Note 2)		
Viewer: Media Player : My Services	Manage Services	<Select>	Click on the box to select each service you wish to appear in g! for each player
Notes:			
1. Wait ~5 seconds after adding the Communication Device for auto detection. Use Settings to alter the detected server if more than 1 are present on network.			
2. You must add an Audio Zone Controller to get a tab in the Viewer interface.			
For standard whole-house audio zone controllers, refer to the Integration Note for the particular system.			
For a single zone where the Squeezebox is connected to a basic amp, refer to the Single Zone Audio Integration Note.			

COMMON MISTAKES

1. Not completing proper programming of the S1Digital Server. The server should be configured according to the instructions above.
2. Not adding an Audio Zone Controller to the system. Audio Zones appear in the Viewer interface: until you add an Audio Zone, you will not see the S1Digital in the Viewer interface. Use the Single Zone Audio for a stand-alone audio zone where the S1Digital is driving speakers with a stand-alone amplifier.
3. Not adding Streaming Services properly. To use streaming radio, you must have the following:
 - Mysqueezebox.com account configured.
 - Apps installed on mysqueezebox.com (App Gallery/My Apps) for all desired services.
 - All necessary login information for streaming accounts setup in mysqueezebox.com
 - Mysqueezebox.com account associated with LMS.
 - Services added within My Services>Manage Services in the **g!** Viewer.
4. Adding MP3 players. A new "Media Player" device will auto-populate once you have correctly added the Logitech Media Server Communication Device and it has connected to the server.