Integration Note

Manufacturer:	Centralite
Model:	**JetStream RF Lighting System**
Model Number(s):	**See table below**
Minimum Core Module Version:	Version 4.0.1234
Comments:	JetStream Configuration Software v.1.0.0.0 Dimmer Firmware v.1.4 RS-232 Bridge Firmware v.0.2
Document Revision Date:	02/11/2013

OVERVIEW AND SUPPORTED FEATURES.

Centralite JetStream Lighting is a Zigbee based RF (wireless) communicating lighting system that can connect to the **g!** software using a RS-232 interface bridge to provide reliable two-way control. Customizable interfaces can be created to control and track the JetStream scenes, or individual devices states.

Note: The Centralite Zigbee RF operates at 2.4GHz. Any other devices operating on the same frequency including **WiFi devices** may cause interference and may need special attention. Centralite JetStream supports a maximum of 200 devices on a system and recommend installing devices typically no more than 40 feet apart. Please refer to the Refer to the **JetStream Installation and Programming manual** for details. (http://centralite.com/support/) for other installation considerations and details on proper setup of the lighting system.

CENTRALITE JETSTREAM LIGHTING SYSTEMS SUPPORT THE FOLLOWING FEATURES:

Device Control: On, Off, and Dimming control of individual loads (dimmers, lamp modules, or keypads) from virtual keypads, simulated keypads, or other custom controls in the **g!** Interface. Up to 200 devices can be installed on a single JetStream Network.

Scene Control: JetStream Scenes are groups of devices that can be controlled with a single button press from a keypad button or a button configured on the **g!** interface. Scenes are programmed to turn devices on to a predetermined dim level or turn them off. When a Scene is activated all the devices will go to the preset dim level or off as programmed.

Schedule Control: Lighting schedules can be set using the Viewer software relative to sunrise, sunset, or time of day. These schedules are tied to the house mode, Home, Vacation, and Party for example.

Auto Configuration: The **g!** system will automatically configure dimmers and scenes in the system as read in from the JetStream program file.

Any feature not specifically noted as “supported” is not supported.

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Devices Supported: The following table lists the devices that are currently supported:

Model Number	Description
3385001	One Button Dimmer (800W Max)
3385003	Three Button Dimmer (800W Max)
3385001-K	One Button Keypad
3385003-K	Three Button Keypad
4255050	Lamp Module (300W Max)
3155000	RS-232 Bridge

INSTALLATION OVERVIEW

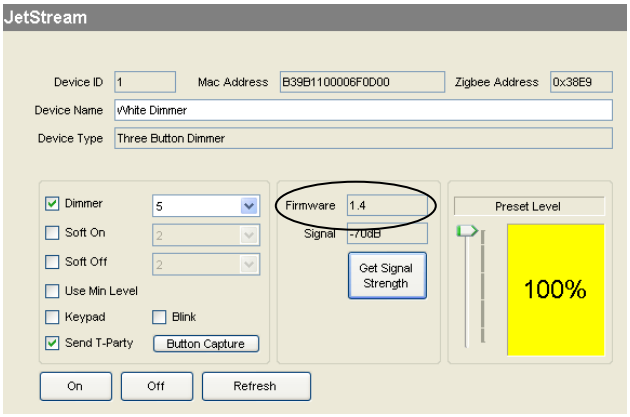
Once the system has been designed, the following steps are needed for installation and configuration.

1. Rough in the house for a normal JetStream Lighting system installation; refer to the Centralite documentation for proper installation practices. **Note**: These devices require that a neutral wire is present at the switch location.
2. Run a Cat5 cable from the RS-232 Bridge to the g! system.
3. Install, program and test the JetStream Lighting System as a stand-alone system, see **JetStream Programming Overview** below and refer to the Centralite documentation for details. Be sure to save the JetStream configuration file as this will be needed to automatically populate the devices in HomeLogic.
4. Terminate and test the Cat5 cable from the JetStream system and the g! system. Connect the cable. Refer to **Connection Diagram** below.
5. Configure the g! system for the Centralite JetStream Lighting, see **g! Configuration Details** below.
6. Create interfaces keypads or custom pages to control the lighting system.

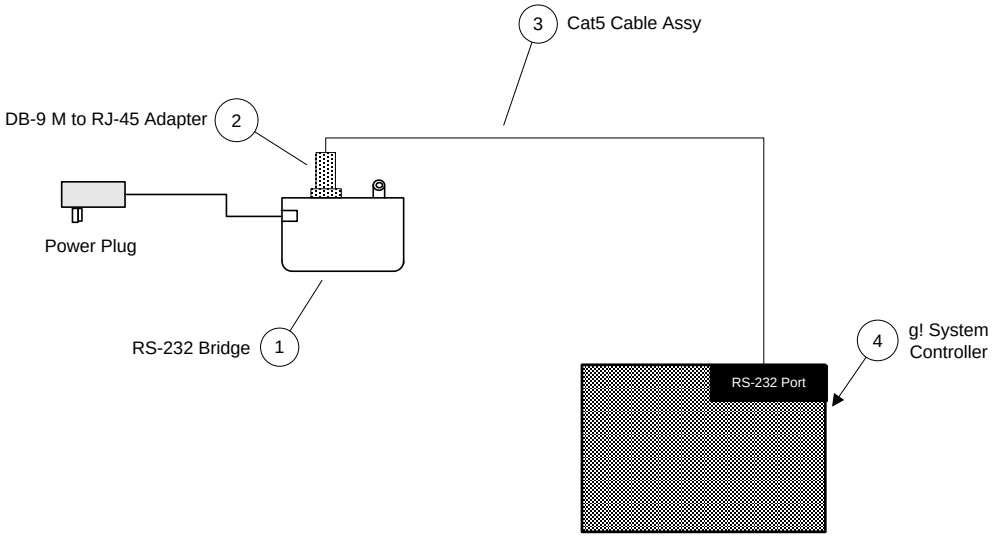
CHECKING DEVICE FIRMWARE

Once the system has been designed, the following steps are needed for installation and configuration.

- JetStream Configuration Software: From the **Help** menu click **About**.
- JetStream Devices: Click on the device to show the details, the firmware will be listed. See picture on the right.



CONNECTION DIAGRAM



BILL OF MATERIALS

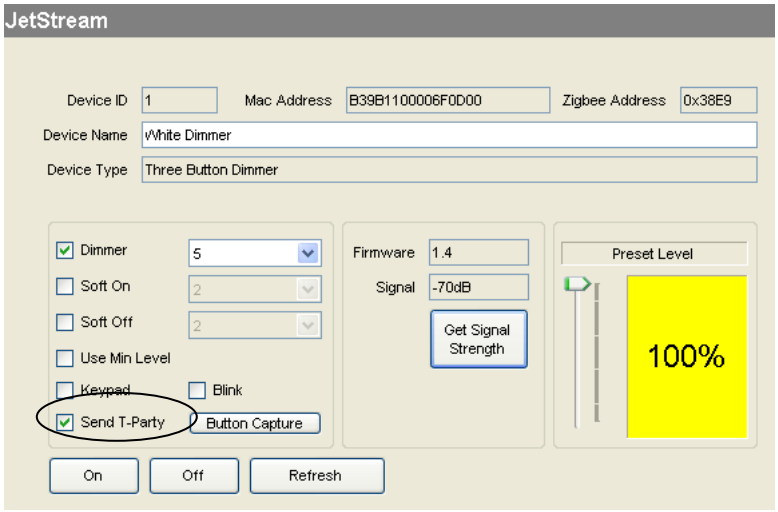
#	Device	Manufacturer	Part Number	Protocol	Connector Type	Notes
1	RS-232 Bridge	Centralite	3155000	Zigbee x RS-232	DB-9 FEMALE	
2	DB-9M to R-J45 Adapter	ELAN	HA-CB-307	RS-232	DB-9 Male X RJ-45 Female	
3	Cat5 Cable Assy.	Installer	N/A	RS-232	RJ-45 Male X Wire	
4	g! System Controller	ELAN	Various (e.g. HC12)	RS-232	RJ-45 Female	

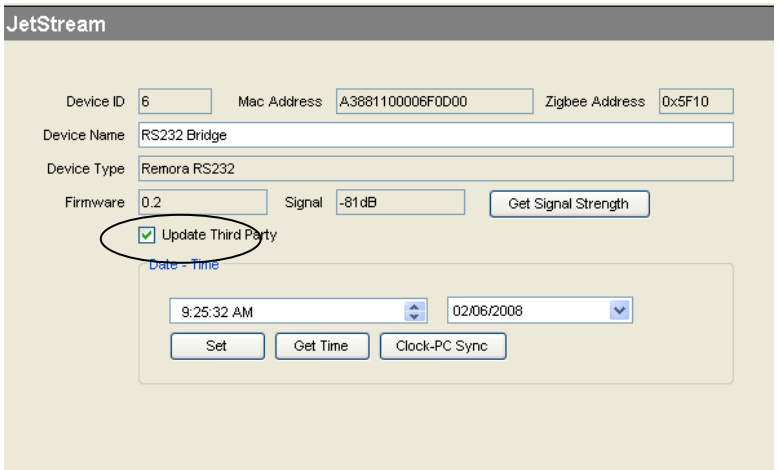
JETSTREAM PROGRAMMING OVERVIEW

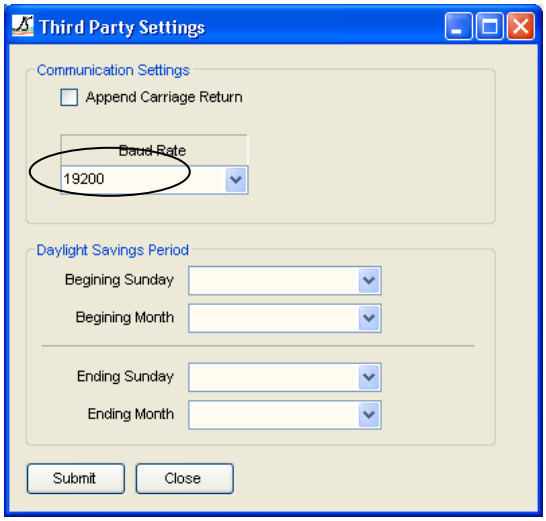
Program the lighting system according to Centralite instructions. Refer to the Centralite JetStream lighting system documentation (http://centralite.com/support/) for system programming information. The basic procedure is as follows:

The Centralite JetStream Lighting system is programmed using its configuration software to enroll and configure the dimmers and keypads into the JetStream Network.

1. Confirm all devices are at factory default and have not been setup previously in any JetStream Network.
2. Enroll all devices into the network. This includes the dimmers, keypads, and RS-232 Bridge.
3. Name and configure all keypads and dimmers as desired.
4. **IMPORTANT (see screenshots below)**:
    a. Be sure to check the **Send T-Party** box for every device.
    b. Be sure to check the **Update Third Party** box for the RS-232 Bridge.
    c. Be sure to check the RS-232 Bridge Baud Rate is set to 19200. If the baud rate needs to be changed it will require the bridge is rebooted for the new baud rate to apply.
5. Program any scenes as desired. (All On, All Off, Dine, Pathway for example)
6. Test all devices for proper operation including keypads and dimmers.







g! CONFIGURATION DETAILS

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

In the table below:

- "<Select from list>" Select the appropriate item from the list (or drop-down) in the Configurator.
- "<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: **Lighting**)	
	Type	**Serial Port**	
	Communication Type	**Standard**	
	Location	<User Defined> (Not Required)	
	Com Port	<Select from list>	COM1, 2, 3 or 4
Lighting Interface	**Name**	<User Defined> (Default: **Centalite JetStream**)	
	Device Type	**Centalite JetStream**	
	Location	<User Defined> (Not Required)	
	COM Device	<Select from list> (Default: **Lighting**)	
<Read Config File>			Click the **Read Config File** button on the Lighting Interface to upload the JetStream network configuration. See Note 1& 2 for details.
Devices	**Name**	<Auto Detect>	
	Model	<Auto Detect>	
	Interface Device	<Auto Detect>	
	Location	<Select from list> (Not Required)	
	Node Number	<Auto Detect>	
<Keypads or Interfaces>	**Name**	<User Defined>	Create either Virtual Keypads or Custom Lighting control pages as desired.

Notes:

1. When the Read Config file is clicked a window will open to allow you to select the JetStream config file. Once selected all of the scenes and devices will be added to g!.
2. Any changes to the JetStream configuration program after uploading the file to g! will need to be saved and reloaded into the configurator. This process will add/change any info into the configurator automatically. This will not remove any devices from the g! configuration, this will need to be done manually.

COMMON MISTAKES

1. Failing to plug the Cat5 cable assembly into the correct serial port. Make sure the RJ-45 connector is plugged into the correct serial port as specified in the Configurator.
2. Wiring the Cat5 cable assembly incorrectly. Test the cable with a LAN tester.
3. Configuring 2 subsystems with the same serial port.
4. Not completing or following the proper Centralite installation guidelines. Please refer to (http://centralite.com/support/) for details on installation of the system.
5. Baud Rate not set correctly on the RS-232 Bridge. Check step 4 under JetStream Programming above. **Note:** the bridge will need to be rebooted after a change to this setting.