

FieldServer ENOTE
Lutron to FieldServer Integration Details



Revision: 2.D

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fieldserver

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1 Overview

GRAFIK 7000™ and Softswitch 128® systems can be integrated to BACnet or LonWorks via the QuickServer gateway. Through BACnet or LonWorks, the QuickServer gateway can control GRAFIK 7000 lighting zones, scenes or Softswitch 128 zones.

NOTE: For additional details and troubleshooting information concerning the QuickServer, find the [QuickServer Start-up Guide](#) on the MSA Website's QuickServer Product Page.

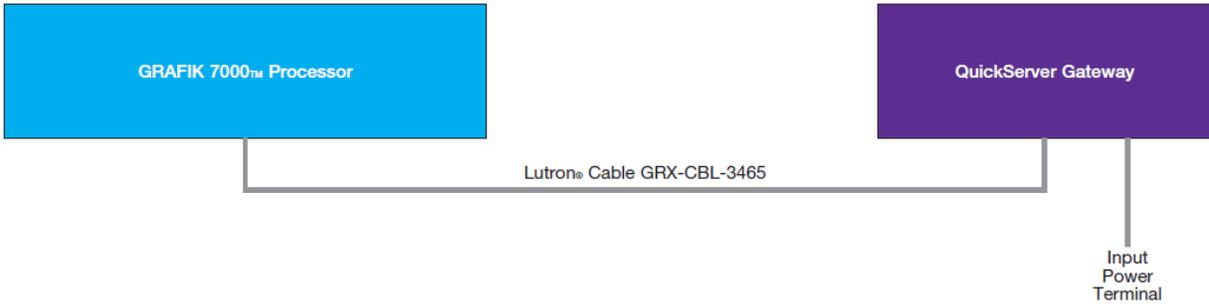
1.1 Hardware and Software Requirements

- Lutron Grafik 7000 to BACnet/IP (P/N FS-QS-1210-0718) with PG16000008
- Lutron Softswitch 128 to BACnet/IP (P/N FS-QS-1220-0718) with PG16000008
- Lutron Grafik 7000 to BACnet MS/TP (P/N FS-QS-1210-1241) with PG16000007
- Lutron Softswitch 128 to BACnet MS/TP (P/N FS-QS-1220-1241) with PG16000007
- Lutron Grafik 7000 to Lonworks (P/N FS-QS-1211-0744) with PG16000011
- Lutron Softswitch 128 to Lonworks (P/N FS-QS-1221-0744) with PG16000011

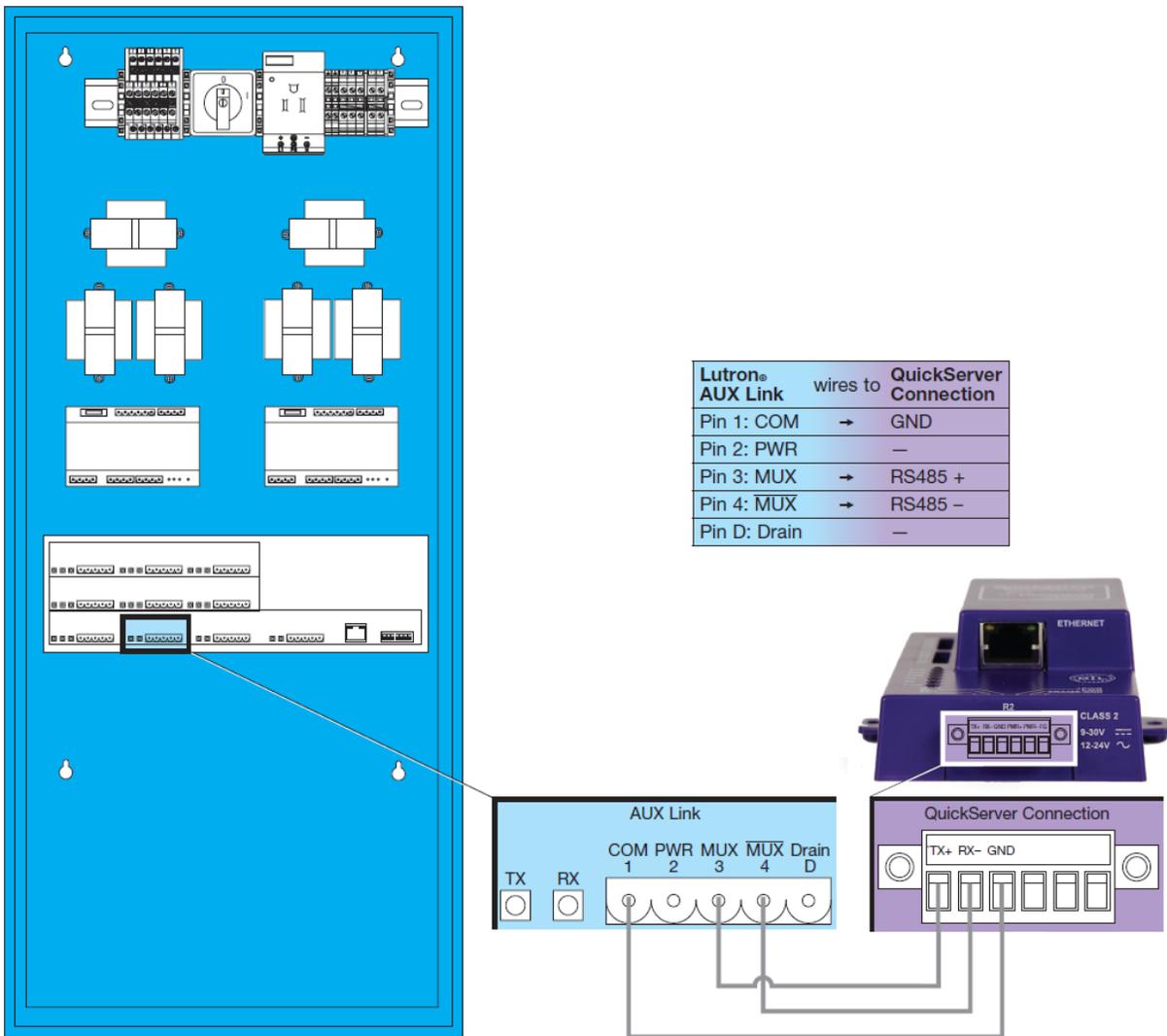
2 Wiring

2.1 GRAFIK 7000 Wiring

2.1.1 One-Line Diagram



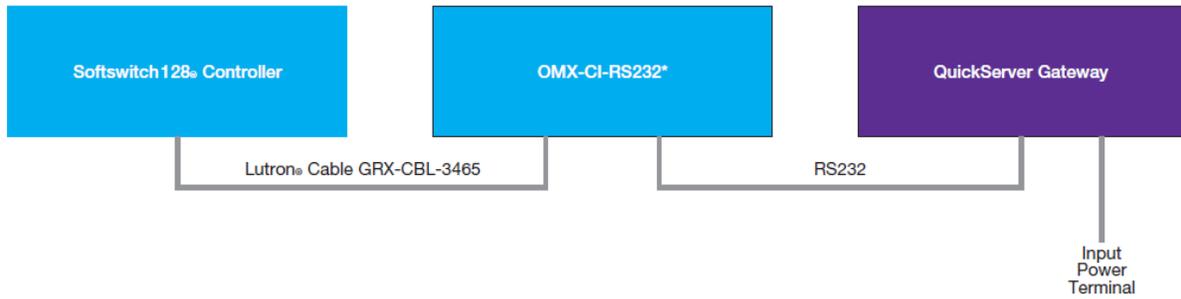
2.1.2 Detailed Diagram



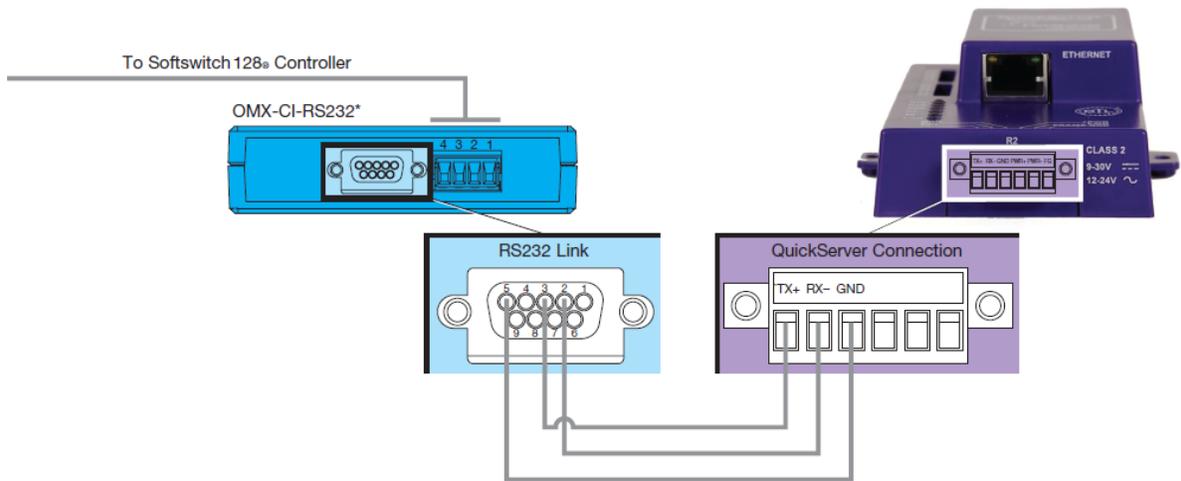
NOTE: The QuickServer 2XX0 form factor is also compatible for connection. Connect either the R1 or R2 3-pin port to the same label pins as shown in the diagram above. See [QuickServer 2XX0 Start-Up Guide](#) for more information.

2.2 Softswitch 128 Wiring

2.2.1 One-Line Diagram



2.2.2 Detailed Diagram



Lutron® RS232 Link	wires to	QuickServer Connection
Pin 1	—	—
Pin 2	→	RX-
Pin 3	→	TX+
Pin 4	—	—
Pin 5	→	GND

* The OMX-CI-RS232 must be purchased from Lutron to interface between the Softswitch 128® controller and the QuickServer gateway.

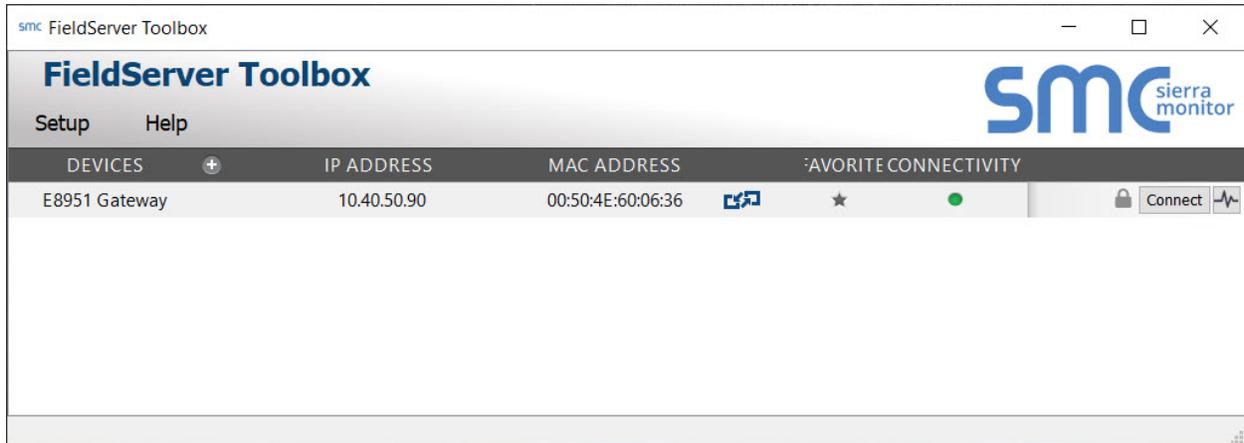
NOTE: The QuickServer 2XX0 form factor is also compatible for connection. Connect either the R1 or R2 3-pin port to the same label pins as shown in the diagram above. See [QuickServer 2XX0 Start-Up Guide](#) for more information.

3 Configure the FieldServer

3.1 Discover IP Address Using FieldServer Toolbox

- Install the Toolbox application from the USB drive or get it from the MSA website.
- Use the Toolbox application to find the QuickServer and launch the Web GUI.

NOTE: If the Connect button is greyed out, the QuickServer's IP Address must be set to be on the same network as the PC.



3.2 Setup FieldServer Using the Web Configurator Page for BACnet

- Open the Web Configurator Page by clicking the Connect button on the desired device found in the FieldServer Toolbox (Section [Discover IP Address Using FieldServer Toolbox](#)) or entering the IP Address of the QuickServer into the local PC's internet browser address bar.
- Enter the appropriate details for BACnet into the fields shown in the picture below and click submit (picture below shows BACnet/IP example).
- A prompt will appear to perform a system restart, click the System Restart button at the bottom of the page to update the device's settings.

The screenshot shows the MSA Configuration Parameters web page. At the top left is the MSA logo. Below it is the title "Configuration Parameters". The main content is a table with three columns: "Parameter Name", "Parameter Description", and "Value". Each row represents a configuration parameter with a text input field and a green "Submit" button. The parameters are: num_of_zones (500), lut_baud_rate (9600), bac_device_id (11), bac_ip_port (47808), bac_cov_option (COV_Enable), and bac_bbmd_option (-). At the bottom left are buttons for "HELP (?)", "System Restart", and "Diagnostics & Debugging". At the bottom right is the "fieldserver" logo.

Parameter Name	Parameter Description	Value
num_of_zones	Number of Lutron Zones This sets the number of zones in the Lutron system. (1 - 500)	<input type="text" value="500"/> <input type="button" value="Submit"/>
lut_baud_rate	Lutron Baud Rate This sets the Lutron baud rate. (4800/9600/19200/38400/76800)	<input type="text" value="9600"/> <input type="button" value="Submit"/>
bac_device_id	BACnet Device Instance This sets the BACnet device instance. (1 - 4194303)	<input type="text" value="11"/> <input type="button" value="Submit"/>
bac_ip_port	BACnet IP Port This sets the BACnet IP port of the Gateway. The default is 47808. (1 - 65535)	<input type="text" value="47808"/> <input type="button" value="Submit"/>
bac_cov_option	BACnet COV This enables or disables COVs for the BACnet connection. Use COV_Enable to enable. Use COV_Disable to disable. (COV_Enable/COV_Disable)	<input type="text" value="COV_Enable"/> <input type="button" value="Submit"/>
bac_bbmd_option	BACnet BBMD This enables BBMD on the BACnet IP connection. Use BBMD to enable. Use - to disable. The bdt.ini files also needs to be downloaded. (BBMD/-)	<input type="text" value="-"/> <input type="button" value="Submit"/>

HELP (?) fieldserver

NOTE: For LonWorks the only parameter is the Lutron Baud Rate.



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