

# PowerLogic Tenant Bill Setup Guide

Version: 1.0

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## SYSTEM REQUIREMENTS

- a. EGX firmware 4.370 or later.

## INTRODUCTION

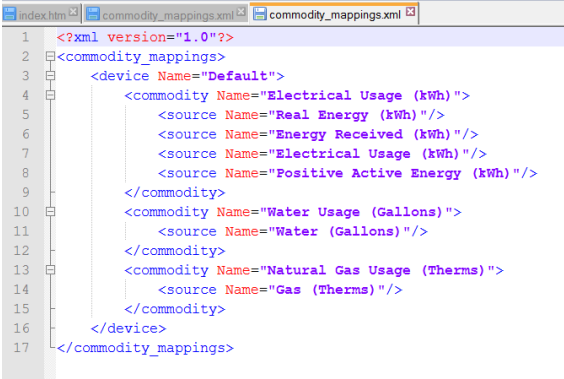
This is a setup guide to installing the EGX Tenant Billing solution, which is a pack of custom pages that can be added to the EGX to allow users to create logical tenants for which bills can be generated.

## SETUP

Setup of the EGX Tenant Billing solution requires two steps. First the commodity\_mappings.xml file must be configured for each device to be billed off. This is described in the Commodity Mapping Configuration section. Second, files must be placed in the monitoring folder of the EGX that the user wants to install the solution on. This can be achieved by manually moving the files to the EGX or by using the provided billing\_upload.bat file. Both ways are described step by step below in the Batch File Setup section and the Manual Setup section.

### Commodity Mapping Configuration

- 1) Extract Tenant Billing Files.zip to a Tenant Billing Files folder.
- 2) Open the commodity\_mappings.xml file in a text editor.



```
1 <?xml version="1.0"?>
2 <commodity_mappings>
3   <device Name="Default">
4     <commodity Name="Electrical Usage (kWh)">
5       <source Name="Real Energy (kWh)"/>
6       <source Name="Energy Received (kWh)"/>
7       <source Name="Electrical Usage (kWh)"/>
8       <source Name="Positive Active Energy (kWh)"/>
9     </commodity>
10    <commodity Name="Water Usage (Gallons)">
11      <source Name="Water (Gallons)"/>
12    </commodity>
13    <commodity Name="Natural Gas Usage (Therms)">
14      <source Name="Gas (Therms)"/>
15    </commodity>
16  </device>
17 </commodity_mappings>
```

- 3) For each device to be billed off of, add that device to the file with the actual sources to be used.



```
1 <?xml version="1.0"?>
2 <commodity_mappings>
3   <device Name="Unit 101">
4     <commodity Name="Electrical Usage (kWh)">
5       <source Name="Real Energy (kWh)" />
6       <source Name="Energy Received (kWh)" />
7     </commodity>
8     <commodity Name="Water Usage (Gallons)">
9       <source Name="Water (Gallons)" />
10    </commodity>
11    <commodity Name="Natural Gas Usage (Therms)">
12      <source Name="Gas (Therms)" />
13    </commodity>
14  </device>
15  <device Name="Common Area">
16    <commodity Name="Electrical Usage (kWh)">
17      <source Name="Real Energy (kWh)" />
18      <source Name="Electrical Usage (kWh)" />
19      <source Name="Positive Active Energy (kWh)" />
20    </commodity>
21    <commodity Name="Water Usage (Gallons)">
22      <source Name="Water (Gallons)" />
23    </commodity>
24    <commodity Name="Natural Gas Usage (Therms)">
25      <source Name="Gas (Therms)" />
26    </commodity>
27  </device>
28  <device Name="Common Water">
29    <commodity Name="Electrical Usage (kWh)">
30      <source Name="Real Energy (kWh)" />
31      <source Name="Energy Received (kWh)" />
32    </commodity>
33    <commodity Name="Water Usage (Gallons)">
34      <source Name="Water (Gallons)" />
35    </commodity>
36    <commodity Name="Natural Gas Usage (Therms)">
37      <source Name="Gas (Therms)" />
38    </commodity>
39  </device>
40 </commodity_mappings>
```

- 4) Save the commodity\_mappings.xml file.
- 5) Proceed to installation.

#### Batch File Setup

- 1) Open a command prompt window and change the directory to the Tenant Billing Files folder.
- 2) Run billing\_upload.bat with the ip address of the EGX as a parameter.

```

Administrator: C:\Windows\system32\cmd.exe
C:\Users\sesa262907\Desktop\Tenant Billing Files>billing_upload.bat 157.198.172.92
Ftp> open 157.198.172.92
Connected to 157.198.172.92.
220 NET+OS 7.3 FTP server ready.
User (157.198.172.92:(none)):
331 User Administrator OK, send password.

230 Password OK.
Ftp> cd /www/monitoring/
250 Directory is changed
Ftp> put owner.shtml
200 PORT command OK.
150 About to open data connection.
226 Transfer complete
Ftp: 6662 bytes sent in 0.11Seconds 61.69Kbytes/sec.
Ftp> put tenants.shtml
200 PORT command OK.
150 About to open data connection.
226 Transfer complete
Ftp: 5553 bytes sent in 0.29Seconds 19.15Kbytes/sec.
Ftp> put billing_points.shtml
200 PORT command OK.
150 About to open data connection.
226 Transfer complete
Ftp: 4519 bytes sent in 0.29Seconds 15.53Kbytes/sec.
Ftp> put estimate_billing_report.shtml
200 PORT command OK.
150 About to open data connection.
226 Transfer complete
Ftp: 3590 bytes sent in 0.29Seconds 12.42Kbytes/sec.
Ftp> put multi_billing_reports.shtml
200 PORT command OK.
150 About to open data connection.
226 Transfer complete
Ftp: 3881 bytes sent in 0.28Seconds 13.91Kbytes/sec.
Ftp> put billing.js
200 PORT command OK.
150 About to open data connection.
226 Transfer complete
Ftp: 142142 bytes sent in 0.53Seconds 266.18Kbytes/sec.
Ftp> put commodity_mappings.xml
200 PORT command OK.
150 About to open data connection.
226 Transfer complete
Ftp: 537 bytes sent in 0.20Seconds 2.75Kbytes/sec.
Ftp> put logo.png
200 PORT command OK.
150 About to open data connection.
226 Transfer complete
Ftp: 1267 bytes sent in 0.20Seconds 6.37Kbytes/sec.
Ftp> disconnect

```

**Note:** If the EGX username and password are different from the default, the `billing_upload.bat` will need to be modified to have the correct username and password.

- 3) If the batch file succeeded then the installation is complete.

### Manual Setup

- 1) Open a Windows Explorer window or some application capable of ftp.
- 2) Navigate to `ftp://<ip address>/www/monitoring/`
- 3) Copy all files from Tenant Billing Files folder to the monitoring folder except the `billing_upload.bat` file.

Name	Date modified	Type	Size
billing.js	9/3/2014 8:56 AM	JScript Script File	139 KB
billing_points.shtml	9/3/2014 9:25 AM	Chrome HTML Do...	5 KB
billing_upload.bat	9/18/2014 3:52 PM	Windows Batch File	1 KB
commodity_mappings.xml	9/3/2014 10:05 AM	XML Document	1 KB
estimate_billing_report.shtml	9/3/2014 9:25 AM	Chrome HTML Do...	4 KB
logo.png	7/16/2014 9:06 AM	PNG image	2 KB
multi_billing_reports.shtml	9/3/2014 9:26 AM	Chrome HTML Do...	4 KB
owner.shtml	9/3/2014 9:26 AM	Chrome HTML Do...	7 KB
tenants.shtml	9/3/2014 9:26 AM	Chrome HTML Do...	6 KB

- 4) Installation is complete.

## ASSUMPTIONS/WARNINGS

- 1) The EGX Tenant Billing solution may place up to 78 files on the EGX. Too many other files being placed on the EGX may interfere with the creation of the files necessary the solution to operate correctly.
- 2) Actual metered measurement types must be assigned for each device that is going to be used to create billing points. This is done through the commodity\_mappings.xml file in the monitoring folder on the EGX.

## REVISION HISTORY

Version	Date	Description
1.0	7/25/2014	Initial release.