**Generate Options using LDKeyGen**

1. **PURPOSE AND SCOPE**

The purpose of this instruction is to provide the detail and instruction necessary to generate an options file using LDKeyGen.

1. **AFFECTED DEPARTMENTS**

Logistics

Manufacturing

1. **RESPONSIBILITIES & AUTHORITY**

Production has the responsibility to correctly configure an options file per the customer’s order.

1. **EQUIPMENT & MATERIALS**

* PC with LDKeyGen and G4 LD Utility installed and with email capability (optional).
* 0621.0095 – USB cable for 831C, 831A, LxT, & LxTse
* 0621.0111 – USB cable for HVM200 & Spartan 730

1. **SAFETY**

Follow basic workplace safety policies for working with a PC.

1. **INSTRUCTIONS**
   1. **Prerequisites**
      1. G4 v4.6.0 or later must be installed.
      2. To optionally upload the generated options file to a meter using LDKeyGen:
         1. The meter must be connected to the PC via USB cable.
         2. The meter must NOT have a Meter View opened in G4 while the options file is generated and uploaded.
   2. **Generate an Options file**.
      1. Run the LDKeygen program.
      2. Enter your user name and password.
      3. On the Assigned Options tab:
         1. Select the desired meter type from the Model dropdown.
         2. Select the desired serial number from the Serial dropdown.
            1. If the serial number is not present in the dropdown, manually enter the appropriate serial number. (All serial numbers have a minimum length based on meter type. Use leading zeros to pad the number to the appropriate length)

831A, LxT, & LxTse: the serial number must be 7 digits long.

831C: the serial number must be 5 digits long and should be in the range of 10000-99999.

HVM200: the serial number must be 7 digits long.

Spartan 730: the serial number must be at least 5 digits long.

* + - 1. After selecting (or entering) the desired serial number, click **Refresh**.
    1. From the Packages list, select the checkbox for each package to install per the customer’s order.
       1. The Default package must ALWAYS be selected.
    2. (Optional): Select the ‘Email generated file to current user’ checkbox to have the generated options file sent to you in an email.
    3. (Optional): Select the ‘Upload generated file to connected meter.’ checkbox to have LDKeyGen automatically upload the generated options file to the meter.
       1. A meter with the specified meter type and serial number must be attached to the PC via USB cable.
       2. The meter must NOT have a Meter View opened in G4.
    4. Click **Generate**. A dialog indicating success or failure will be displayed.
       1. On Success, click **OK**. The options file is now ready to be uploaded to the meter.
          1. If the ‘Email generated file to current user’ checkbox is selected, an email will be sent to the current user with the generated options file as an attachment.
          2. If the ‘Upload generated file to connected meter.’ checkbox is selected, LDKeyGen will attempt to upload the generated options file to the meter.

A dialog indicating success or failure will be presented upon completion. Click **OK**.

NOTE: This process will take several minutes and there is currently no progress indicator.

* + - 1. On Failure, determine the cause and take corrective action.
  1. **Verify Options using G4**
     1. Run the G4 LD Utility program.
     2. Open a Meter View by clicking on the desired meter in the Meters List.
        1. NOTE: Allow time for the meter to reboot if having just used LDKeyGen to upload the options file.
     3. Use the following instructions to find the list of installed options based on meter type.
        1. Spartan:
           1. From the Meter View, click on **Tools**.
           2. Click the **About** button.
           3. Scroll to the bottom of the About dialog to see the list of Options.
        2. 831C, 831A, LxT, LxTse:
           1. After opening a Meter View, click on **Setup Manager** or select the Setup Manager tab if already opened.
           2. Select the desired meter from the dropdown on the right hand side.
           3. From the buttons in the middle, click **View System Properties**.
           4. Using the navigation buttons at the bottom, navigate to the Options page.
        3. HVM200:
           1. After opening a Meter View, click on **Setup Manager** or select the Setup Manager tab if already opened.
           2. Select the desired meter from the dropdown on the right hand side.
           3. Using the navigation buttons at the bottom of the Active settings, navigate to the Options page.
     4. Verify the installed options match the customer’s order.

1. **DISTRIBUTION**

This instruction is available to employees via the online Document Control area.

1. **REVISION HISTORY**

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| **DCO #** | **REV** | **DATE** | **INITIALS** | **CHANGES MADE** |
| 1596 | A | 12/15/15 | JTM | Initial Release |
| 2014 | B | 2/18/21 | JTM | Updated for LDKeyGen 2.x |
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