Honeywell

SLATE™ Application Note

Backup/Restore a Slate system using the Export and Import configuration Service Pack

Overview

The "Export and Import configuration Service Pack" is intended for firmware revisions 3.20 and 3.33 and requires Installer or Designer login privileges. The installation of this service pack on a Base with 3.20 or 3.33 firmware provides features that allow the user to

- export configuration and network setpoint data,
- import configuration and network setpoint data back into the Slate application,
- generate a complete combined kit from a running system when the last kit installed was a web or wiresheet kit, and
- save the fuel air curves for all Fuel air modules with a click of a button.

The configuration data, combined kit, and fuel curves can be saved to the internal SD card, external SD card, or a USB drive connected to the Base. Restoration of the Fuel curve data is done using the generic Curve Sets pages.

When the service pack is installed on a Slate Base with rev3.33 firmware the Backup and Restore functions are improved upon, from the original release, in addition to the features listed above.

Backup a Slate system using Export Configuration feature

The Export functions are used to backup existing systems, quickly commission another duplicate system, restore commissioned parameters and curves when a replacing one or more modules, or after upgrading the Slate firmware to revisions 3.33. The page can be navigated to from the Generic – System Tools page as shown below.

A click on the Export & Import Configuration menu item, on the System Tools page above, will bring you to the following web page.

Backup of a Slate System using Export Functions

There are 3 steps to create a minimal backup using the Export& Import Page functions, you can choose to save to a USB drive connected to the Base, internal micro sd card or external sd card.

1. Save Register values – this will save all configuration and application network setpoint registers to a text file. You can accept the default time stamped name or give it a name of your choosing.
2. Export CurrentKit – This will copy the last installed combined kit or generate a combined kit if the last installed was a web or wiresheet only kit. If the last kit was a combined kit the option to provide a kit name is disabled, the kit will be copied, as is, with its original name. If the last kit was not a combined kit, then the default name of **Kit YYYY-MM-DD** is provided but can be modified by the user to provide a more meaningful kit name.

 Combined kit last kit installed

 Last kit installed was web or wiresheet only.

In addition, the type of kit saved, light or standard kit, will be defined by the type of the last kit installed. One exception - if the last kit installed was a verified wiresheet only kit then the generated kit will be a standard kit.

3. Save Fuel Curves - the fuel curves for all fuel air modules and both fuels can also be saved on this page in addition to the Curve Sets menu selection on the System Tools page. When saved

from the export configuration page the curve names will in the format FAx_Fy_YYYY-MM-DD.cst (as shown below), where x is the module number and y is the fuel curve number. If the user wants to provide their own names for the curves, they should go to the Curve Sets menu on the System Tools page and save and export each curve manually.

File Name Pattern For Fuel Curve Files:

FAx_Fy_2022-10-31.cst
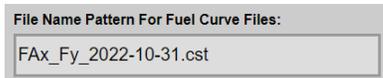
Restoring a Slate System

There are several scenarios for restoring a Slate system that depends on how or if a Slate system is backed up and the reason for restoration. The easiest way to restore a Slate system is when an export was performed using the Export & Import Functions after commissioning. If replacing a module, verify that the module selected in a kit will be supported by the replacement module. In certain cases, you may need to update the firmware. For example, if a Burner Control module replacement module firmware is older than what was selected for the kit, you will need to update the firmware of the Burner Control before loading the kit. The steps to restore a Slate system, assuming the firmware is up to date, will depend on the use case and will require a login with Installer or Designer privileges. Following are some common use cases and the restoration steps for each.

1. **Restore or duplicate a commissioned system that was backed up with the Export features (register values, saved kit, saved fuel air curves)**
   a. Install the kit saved from the Export page or a combined kit that was previously installed with the latest web and wiresheet configurations.
   b. Select the backed-up register file saved in Step 1 of the backup procedure above. You will be shown all text files on the internal sd card and usb and external sd card when inserted in the Base module. Select the saved register file of choice, then click on the "**Write Register Values**" command button.

To Write Register Values to the SLATE™ system:

- Select file from "Choose File" dropdown.
- Press "Write Register Values" to write the register values in the SLATE™ system.

| backups/Register Values 2022-10-31.txt ⌄ | | **Refresh File List** | | **Write Register Values** |

Choose File
Internal Memory
    backups/Register Values 2022-10-28.txt
    backups/Register Values 2022-10-31.txt
USB
    Acton_CCP1_config.txt
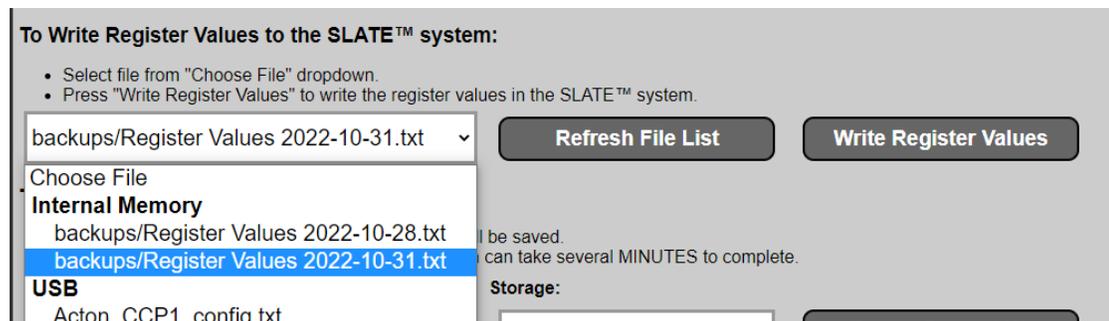
   c. Go to the Curve Sets page to restore the Fuel Air Curves that were saved in Step 3 of the Export procedure in the preceding section. Unlike saving the curves, from the **Export & Import Configurations** page, you will need to individually import then load the curves for each Fuel Air module and active curve set. If duplicating a system, you will need to go into Fuel Air setup mode to read the attached actuator IDs.

d. Once all 3 steps above have been performed you will need to do a safety verification. When safety verification is complete you will need to go through a safety verified light-off before resuming normal operation.

2. **Restore a Slate system with a dead Base (FW 3.20) from the internal micro-SD card (uSD) without a previous export save; Note: this will be a partial restore**
   a. Disconnect all modules from the new Base unit (to retain latest module register settings)
   b. In absence of an export save, the Base will lose: Network setpoints, BACnet bindings, NV wiresheet data registers
   c. Install the original internal uSD from the failed Base into the new Base
   d. Install the kit – If the last kit installed was a combined kit it can be installed from the internal sd card. If the last kit was not a full kit, then you will need to get a copy of the last full kit before proceeding
   e. After the kit is installed reconnect the modules
   f. Install the Export & Import Configurations service pack then,

      - Save the Register Values – (Base configuration registers and network setpoints will be the values store in the installed kit, if these values were changed during commissioning they will need to be adjusted once more)
      - Save Fuel Air Curves from the Export & Import Configuration page to the USB, internal uSD card or external SD card

   g. Re-Install the kit to get the module signatures
      - Write the saved register values from the step f above (**note**: this will not include the latest network setpoints if changes were made during commissioning, BACnet bindings or other Base config parameters).
      - Navigate to the Curve Sets page. Import the curves saved in step f above to the Base.

3. **Base FW 3.20 - Corrupt uSD**
   a. Power down the Slate system
   b. Remove the corrupt internal uSD and install a new uSD
   c. Power up the Slate system (missing folders are created, however no files are created. Any trends are gone.)
   d. Create/save the configuration set from the Base GUI
   e. Install the Export & Import Configuration service pack if not already installed
   f. From the Export & Import Configurations page you can save the Register values, fuel air curves, and Generate Kit if not previously exported. If you want to name each of the fuel air curves navigate to the Curve Sets page and manually save each curve giving each your preferred name.

4. **Base FW3.20 upgrade to Base FW3.33**
   a. Install the Export & Import Configuration service pack on the 3.20 Base to be upgraded
   b. Navigate to the Export & Import Unit Configuration web page and save the Register Values, the Fuel Air curves, and Generate/save the designer Kit. **Note**: the user can go to the Curve set page

and save each curve manually to give each curve a name of choice. The curves will be saved to the Base and can be exported to the internal uSD, an external SD card or USB drive.

c. Install the FW3.33 application service pack
d. Install the FW3.33 module service pack
e. Re-install the Export & Import Configuration service pack (**Note:** upgrading Base firmware removes all previous service packs)
f. Navigate to the Designer Kit Installer web page. Select and load the kit that was saved in step b above or a kit that was previously saved
g. Navigate to the Export & Import Unit Configuration web page. Select the register file saved in step b above and then click on the **Write Register Values** command button
h. Load the fuel air curves using the Curve set web pages. **Note:** Loading the curves directly from the USB, internal uSD or external SD does not save them to the Base. To save them to the Base import the curves then Load. Another option is to Load the Curves then save.
i. Perform Safety verify configuration updates
j. The Curves will need to be walked before fully commissioned
k. Once re-commissioned create a minimal backup via the steps on the export page and a full backup using the new Backup and Restore features of FW3.33.