# Work Book SM\_Capacitor

Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Version** | **Description** | **Author(s)** |
| 02/24/14 | 0.1 | Draft | Gareth Thompson |
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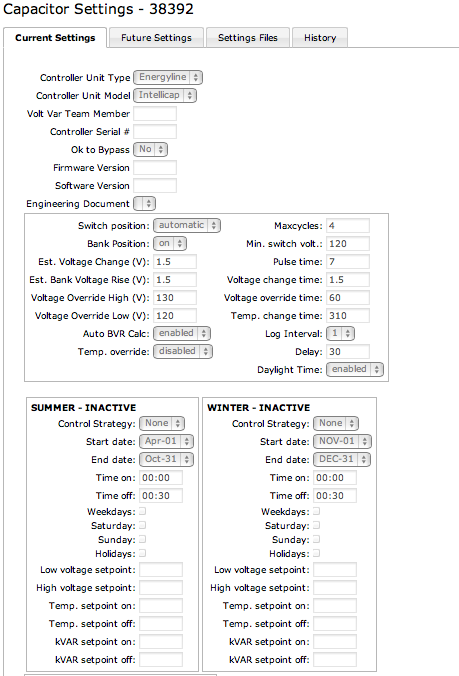
Document Reviewers

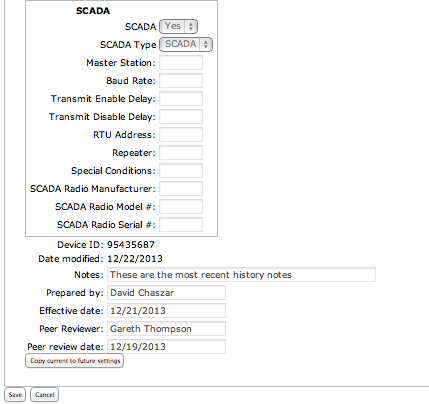
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# Graphical User Interface

This section is used to keep track of question and answers regarding the user interface and expected functionality.

The planned UI screen is displayed below. There are no additional fields between Current and Future Settings.





## Displayed Fields

1. *All the fields/data that is to be referenced by this GUI is captured in the SM\_CAPACITOR spreadsheet.*
2. *Are there any additional data elements that are to be added? No.*

Displayed fields vary by Controller Unit Type:

* If Controller Unit Type <> “Maysteel” and <> “EnergyLine” then show the following schedules:
  + Schedule 1
* If Controller Unit Type = “Maysteel” then show the following schedules:
  + Schedule 1
  + Schedule 2
  + Schedule 3
  + Schedule 4
* If Controller Unit Type = “Energyline” then show the following schedules:
  + Schedule 1
  + Schedule 2

Do not display the fields if the capacitor is a Fixed Bank only display Online/Offline.

Do not display “Season Off” attributes for switched mode capacitors.

## Functionality

**Buttons by Tab**

Current Settings Tab

* Copy current to future settings
* Set the schedule “Inactive”/”Active” text according to the dates in the schedule.

Future Settings Tab

* Save
* Released Check Box
* Cancel
* Set the schedule “Inactive”/”Active” text according to the dates in the schedule.

**Released check Box**

*When the user checks the “Released” Check Box*

* *Cancel, what is the expected flow if the user clicks on Cancel?*
* *When the User chooses Save*
  + *Current setting data is archived*
  + *The Future settings are written to Current*
  + *The Future settings are set to default values or Nulls*
  + *The Released Flag box becomes unchecked*
  + *The screen is displayed as the default Switch Setting screens*
  + *The user stays on the current page.*

**Copy to Future button**

*When the user select the Copy To Future button*

* *The data values from the existing ‘Current’ record for the device are copied to the ‘Future’ record (existing values in the ‘Future’ record should be overwrtitten if the record exists, else create a new ‘Future’ record and copy the values in)*
* *The user is moved to the Future tab*

## Data Mapping

### Deprecated Attributes

The following section defines the current data mapping and attributes that will be carried over to the Setting Management application as well as those that will not. The SM\_CAPACITOR spreadsheet defines the fields that are carried over.

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| --- | --- | --- | --- | --- |
| **?** | **CEDSA Tab** | **Column** | **GIS** | **Comments** |
|  |  |  |  |  |

Questions referring to the above table

### Data Validations

The following table identifies the attributes that require further information regarding the validation process.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Num** | **Table** | **Column** | **Validation** | **GUI Label** |
| 1 |  | LOW\_VOLTAGE\_SETPOINT | 103 to 140. Only applicable for strategies involving voltage. Maysteel and Energyline require Low Voltage value plus 3. |  |
|  |  | HIGH\_VOLTAGE\_SETPOINT | -40 to 150. +/- 5 degrees for Maysteel. +/- 8 degrees for Energyline. Meaning on/off must be separated by at least 8 degrees for Energyline and similar for Maysteel. |  |
|  |  | TEMP\_SETPOINT\_ON | -40 to 150. +/- 5 degrees for Maysteel. +/- 8 degrees for Energyline. Meaning on/off must be separated by at least 8 degrees for Energyline and similar for Maysteel. |  |
|  |  | TEMP\_SETPOINT\_OFF | 103 to 140. Only applicable for strategies involving voltage. Maysteel and Energyline require Low Voltage value plus 3. |  |
|  |  | CONTROL\_STRATEGY | Lookup. Depends on the controller.  Uses the CAP\_CONTROL\_STRATEGY\_RULES table joined with the CAP\_STRATEGY table to get the correct strategy list depending on the controller type.t |  |

Questions

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### Data Mapping Source to Settings

The following table defines the current mappings in question. The SM\_CAPACITOR spreadsheet defines all of the mappings.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Source Table** | **Column Name** | **Capacitor Column** | **Nulls** | **Type** | **Approved** |
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