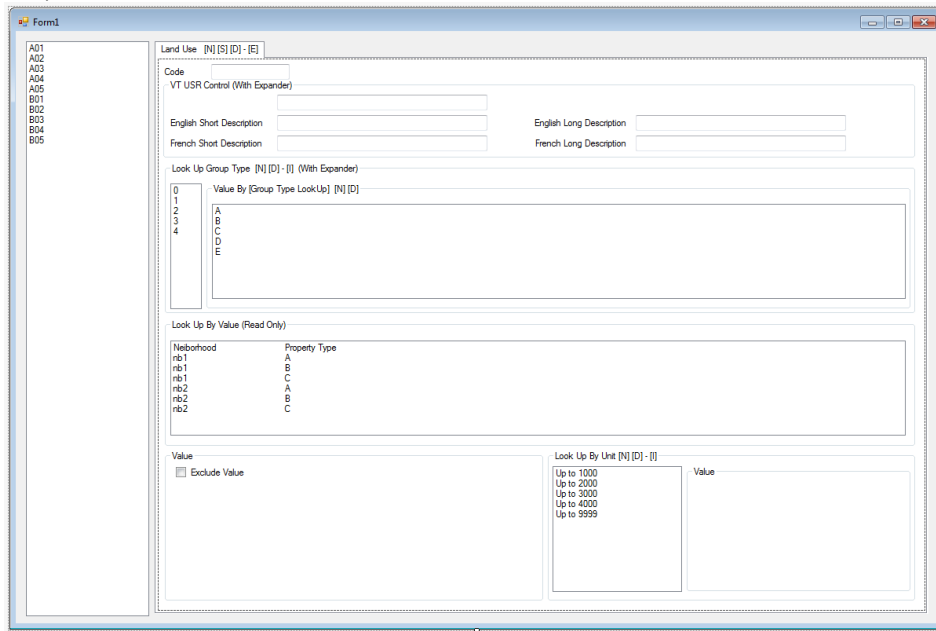


CAMA Parameters Screen Pattern for GNA

Multiple MA UI screen needs to be written. They will all use the following pattern. Users can create new screens from a list of pre-defined ma table names. Based on their selection the UI will change

Template:



The screenshot shows a software form titled "Form1" with a sidebar on the left containing a list of codes: A01, A02, A03, A04, A05, B01, B02, B03, B04, B05. The main form area contains the following sections:

- Land Use** [N] [S] [D] [-] [E]: A dropdown menu.
- Code**: A text input field.
- VT USR Control (With Expander)**: A section with a collapse/expand icon and a text input field.
- English Short Description** and **English Long Description**: Two text input fields.
- French Short Description** and **French Long Description**: Two text input fields.
- Look Up Group Type** [N] [D] [-] [I] (With Expander): A section with a collapse/expand icon. It contains a list of group types (0, 1, 2, 3, 4) and a "Value By [Group Type LookUp] [N] [D]" section with a list of values (A, B, C, D, E).
- Look Up By Value (Read Only)**: A section with a table showing "Neighborhood" and "Property Type".

Neighborhood	Property Type
rb1	A
rb1	B
rb1	C
rb2	A
rb2	B
rb2	C
- Value**: A section with a checkbox labeled "Exclude Value".
- Look Up By Unit** [N] [D] [-] [I]: A section with a list of units (Up to 1000, Up to 2000, Up to 3000, Up to 4000, Up to 5599) and a "Value" input field.

If a section is not used, it should be collapse.

All DB access will be done at the form level, so the New/Save/Delete of the code will end up affecting multiple rows in the database. All other command (Group Type N/D/I and By Unit N/D/I will be done in memory only)

Lookup by Group Type

When creating the MA Table, Users will have to select a group type.
MA_TABLE.LOOKUP_GROUP_TYPE using the VT_SYSTEM validation table where TABLE_NAME = 'MALKGRP'

There will always be a Group type value 0 that represent the base value for a given code.

Users will be able to create new group type values by selecting a combination of attributes with their associated values based on the selected group type, allowing them to override the base value.

Lookup group type:

All Lookup group type when the default group is selected (Cannot be deleted)

Look Up Group Type [N] [D] - [I] (With Expander)	
0	Default Value
1	
2	
3	
4	

All Lookup group type when a group is selected

Look Up Group Type [N] [D] - [I] (With Expander)	
0	Value By [Group Type LookUp] [N] [D]
1	A
2	B
3	C
4	D
	E

"No Look up":
Hide the section

"proptype":
Each group must have 1 or multiple codes linked to it. Code come from vt user table name "PROPTYPE". A property type Code cannot be in more than one group.

"Jurisdiction":
Each group must have 1 or multiple codes linked to it. Code come from vt user table name "JURISD". A jurisdiction Code cannot be in more than one group.

"nbhd":
Each group must have 1 or multiple codes linked to it. Code come from vt user table name "NBHD". A neighborhood Code cannot be in more than one group.

"inc_nbhd":

Each group must have 1 or multiple codes linked to it. Code come from vt user table name "INCNBHD". An Income neighborhood Code cannot be in more than one group.

"Juris_nbhd":

Each group must have 1 or multiple selection linked to it. A selection is a unique combination of Codes from vt user tables "JURISD" and "NBHD". A unique selection cannot be in more than one group. A group must always contain one and only jurisdiction. A jurisdiction can have any number of neighborhood codes, including none.

Commented [BL1]: A revoir lors d'un meeting. Je ne comprends pas le but.

"Juris_inc_nbhd":

Each group must have 1 or multiple selection linked to it. A selection is a unique combination of Codes from vt user tables "JURISD" and "INCNBHD". A unique selection cannot be in more than one group. A group must always contain one and only jurisdiction. A jurisdiction can have any number of income neighborhood codes, including none.

Commented [BL2]: A revoir lors d'un meeting. Je ne comprends pas le but.

"SAMA_maf":

Each group must have 1 or multiple selection linked to it. A selection is a unique combination of Codes from vt user tables "JURISD", "CLUSTER" and "NBHD". A unique selection cannot be in more than one group.

- Each of tables "JURISD", "CLUSTER" and "NBHD" are optional. However, there are some validation rules that applies that prevent the following permutations: If a neighborhood code is entered then a group must always contain one and only jurisdiction and no cluster. A jurisdiction can have any number of neighborhood codes, including none.
- If a jurisdiction is entered then the group can either contain a blank cluster or only one cluster. The cluster should then be a valid one for this jurisdiction (as per "CLUSTER" filtered by jurisdiction. There can be several jurisdictions for a given cluster. The same jurisdiction cannot belong to more than one cluster.
- Several clusters can be entered for the same group providing there are no jurisdictions nor neighborhoods.

3 Commands are possible at the Group level. All commands are done in memory. New, delete (the selected one) and Import. The Import will allow users to import all groups from another code, deleting current code.

A Group without values should be listed as an error. (Red)

2 Commands are possible at the value level. All commands are done in memory. New, delete (the selected one). The New command should be a modal window displaying all possibilities in a checkbox list.

Implement hot keys:

Arrow key ⇐ should select the previous group

Arrow key ⇒ should select the next group

Lookup by value

The look up by value is a read only grid showing all possible combination for a record. The grid is a join between all conditions set by a user when they maintain the MA Table. They can select:

- Model (vt user "") (setab only)
- Sub Model (vt user "") (setab only)
- Matrix 1 (vt user from selected field) (setab & landadjt only)
- Matrix 2 (vt user from selected field) (setab & landadjt only)
- Matrix 3 (vt user from selected field) (setab & landadjt only)
- Matrix 4 (vt user from selected field) (setab & landadjt only)

Example: if there is 2 values in each table, the UI will look like:

Model	SubModel	Matrix1	Matrix2	Matrix3	Matrix4
m1	sma	m1a	m2a	m3a	m4a
m1	sma	m1a	m2a	m3a	m4b
m1	sma	m1a	m2a	m3b	m4a
m1	sma	m1a	m2a	m3b	m4b
m1	sma	m1a	m2b	m3a	m4a
m1	sma	m1a	m2b	m3a	m4b
m1	sma	m1a	m2b	m3b	m4a
m1	sma	m1a	m2b	m3b	m4b
m1	sma	m1b	m2a	m3a	m4a
m1	sma	m1b	m2a	m3a	m4b
m1	sma	m1b	m2a	m3b	m4a
m1	sma	m1b	m2a	m3b	m4b
m1	sma	m1b	m2b	m3a	m4a
m1	sma	m1b	m2b	m3a	m4b
m1	sma	m1b	m2b	m3b	m4a
m1	sma	m1b	m2b	m3b	m4b

And the users will only be able to set a value for each line. (64 combinations are possible in this example). All combinations with null values should be flag in error (Visual cue warning?)
All combinations with the exclude value should have a visual cue.

Implement hot keys:

Arrow key ↑ should select the previous row

Arrow key ↓ should select the next row

Implement Multiselect:

We should allow the multiselection in the grid. We could set quickly the same value to multiple fields. Implement Default Value:

If one or multiple look up by value has the Use Default option set to true, we need to create a row (top one) that will have a default value in all columns and let the user set value on. **Value**

Value fields will be unique for each table.

The common pattern are:

- A new column will be added in MA_PARM_xxx, ExcludeValue, with a default set to false
- A new column will be added in MA_PARM_xxx, Use Default Value, with a default set to false
- If all values are null and the Exclude value is not true and the Use Default value is not true, the code should be in error. (Show visual cue in the look up by value, by group and at the code.)
- If the Exclude value is true, show a visual cue in the look up by value.
- If the Use Default Value is true, show a visual cue in the look up by value.
- There is also a [E] at the code level. This will set the exclude flag for all values that are NULL. (A new column will be added in MA_PARM_xxx ?)

If we build the pattern correctly, this would be the only area different between each MA Tables.

Lookup by Unit

After initial review, most look up by unit works the same, you can set “steps” and for each steps you can set a Value. We could enhance by having the option to set a Value/Formula/Log ex

Often when the look up by units is on, we do not have the value section.

There are two types of unit lookup. One type where the units are considered as an additional lookup element matrix (such as MA_PARM_SETAB) and the other type where a second table contains the area and associated rate (MA_PARM_LANDSCHED and MA_PARM_LANDRATE).