

Prompt and Selection Lists with the new the Grids

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Prompt Lists

- Prompt lists are designed for making a selection
- The selection process
 - User does something to invoke the prompt list
 - A modal panel is presented and the user makes a choice
 - The panel is closed and the underlying object is updated
- The prompt update process can be:
 - Automatic – where the selection is updated back to the invoking object with little or no extra code
 - Manual – where the selection is made and the underlying update must be updated with code

Invoking and Non-Invoking Prompt Lists

- Invoking prompt lists
 - The basic process for all of these modes are:
 - Store any default set up behaviors that might be changed
 - Based on invoking context, prepare the list (update mode, initial column, etc.)
 - Load the data
 - Seed the list and move to seeded row
 - Popup the prompt list
 - Make a selection
 - Update the invoking object
 - Restore any default set up behaviors you might have used
 - Close the prompt list
 - This process is complicated but much of this is done automatically
- Non-Invoking prompt lists
 - The basic process for this mode is:
 - Load Data
 - Seed the list and move to seeded row
 - Popup the prompt list
 - Make a selection(s)
 - Close the prompt list
 - Process the selection(s)
 - This process is less complicated but requires more coding

Prompt List Update modes

- Four styles of prompt lists are supported
 - Relational
 - A selection is made and an underlying DD record is updated
 - The invoking object and prompt list must use the same table
 - Move value out
 - A selection is made and the underlying form is updated with the selection
 - Custom
 - A selection is made and the underlying update must be manually updated within a callback
 - Non-invoking
 - A selection is made and the underlying update must be manually updated

Update Mode and interface requirements

- The Update Mode (peUpdateMode) determines the interface requirements between the invoking object and the prompt list

Update Mode	Prompt Object	Invoking Object	
Relational <i>umPromptRelational</i>	Send Popup	Must be focus Get Value Get Data_File Get Data_Field Get Server Send Prompt_Callback	Can be fully automatic with no custom code. Custom code in Invoking object * Only available with cDbCJGridPromptList
Move Value Out <i>umPromptValue</i>	Send Popup	Must be focus Get/Set Value Set Item_Changed_State Send Prompt_Callback	Can be automatic with little or no custom code. Custom code in Invoking object *
Custom <i>umPromptCustom</i>	Send Popup	Must be focus Send Prompt_Callback	Requires custom code. Custom code in Invoking Object *
Non-Invoking <i>umPromptNonInvoking</i>	None – create your own custom method	None – call the prompt list custom method	Requires custom code in the prompt object. Invoking only needs to understand the custom method

* Requires custom code in the invoking object's Prompt_Callback, which requires knowledge of additional prompt object interfaces (mostly properties)

Prompt_Callback

- Prompt_Callback
 - Is sent from the prompt object back to the invoking object, giving the invoking object a chance to customize the popup instance
 - Most of these changes are made by changing properties:
 - Set peUpdateMode of hPrompt to umPromptValue
 - Set peUpdateColumn of hPrompt to 1
 - These properties are saved before the popup and restored after prompt is closed
 - See OnStoreDefaults and OnRestoreDefaults
 - If the update mode is non-invoking, none of this happens

The “Db” or data aware prompt list

- Based on the cDbCJGridPromptList class
- Requires a DD server
- Is used for loading and selecting database data
- Data can be loaded automatically
- Supports all modes including relational mode
- Can be dynamic or static
- Can be single select or multi-select
 - Multi-select only supported with static list
 - Multi-select will probably use non-invoking update mode
- This is your classic selection list

The regular (non Db) prompt list

- Based on the cCJGridPromptList class
- Does not requires a DD server
- Is used for loading and selecting any kind of data
- Data must be loaded manually
- Supports all modes except relational mode
- Is static
- Can be single select or multi-select
 - Multi-select will probably use non-invoking update mode
- Can be used with DEO and non-DEO invoking objects
- This is new to 16.1

Examples

- Now let's look at some prompt lists in greater detail



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