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BNCS Enum Control

Qt Custom Control

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Description

This is a control to deal with lists parameters such as test pattern.

This is a smart button in that it connects direct to the network.

Internally control splits into two types – the enumerated list function (the basic operation of the control) and the "presentation" which may be a single button, multiple buttons, a listbox etc.

Settings

You can pass any of the following settings to this control in the format:

=<value>

Default values (those when a new button is created or when a reset command issued) are shown in **bold**.

The Type column refers to the parameters sent to particular configurations of this control.

Parameter	Value	Type	Notes
reset		Base	Used to reset all the parameters of this control back to their default state

return	any of the other settings	Base	Return a named parameter from this control
			
			e.g. send this to the control
			
			`return=text`
			will return a value of the text setting in the format
			
			`text=This is the text`

id	id of the button	Base	numeric or alphanumeric identifier for this button
name		Base	Optionally used to name the button

group		Base	Used as a means of grouping together buttons so that they may be directed to a new device
child.<id>	any appropriate setting	Base	Means of passing any message to a child parameter of this control. Use of this is not recommended
style	button label list popup_list	Base	What presentation to use for this button.
device		Base	BNCS device number
slot		Base	BNCS slot number index registered for=slot+offset
offset		Base	BNCS offset index registered for=slot+offset
instance		Base	BNCS instance Tells the button to use a specific instance, this overrides slot and offset, if a named parameter is used this will also look up the slot.
parameter		Base	BNCS parameter Targets the button at a parameter on the current instance, this can overrides slot, offset and slot.
state.<no>.caption state.<no>.value state.<no>.pixmap state.<no>.enabled state.<no>.style state.<no>.default	**true** **enum_selected** **false**	Base	This is the list of states that this control will work with. The <no> parameter is an arbitrary value which is simply a means of grouping and identifying individual states. Caption is the text to display for this state Value is the thing returned from the network device in this state Pixmap is the name/path of the pixmap to display in for this state (this can be any

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			valid Qt bitmap)
			Enabled is whether this is a state that we can write to – otherwise this state will be displayed but cannot be selected
			Default
notify		Base Button	
defaultstyle		Base	
width		Base	
height		Base	
doublepush		Button	
doublepush.list doublepush.button (version 4.5.12.0 onwards)		List	Whether the buttons are double push. Note: "button" refers to the button used to initiate a popup, whereas "list" refers to the buttons used for the individual elements.
settodefault		Button Label	
nextstate		Button Label	
bistate (version 4.5.19.0 onwards)		Button Label	When button is pressed a value is set, when it is released, even if release is off the button, another value is set.
Bistate_press (version 4.5.19.0 onwards)		Button Label	Value set for press when set to bistate.
bstate_release (version 4.5.19.0 onwards)		Button Label	Value set for release when set to bistate.
navigate		Button	
navigatedest		Button	
stylesheet.button		Button	
buttontext	name	Button	

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	none list	List	
stylesheet.list stylesheet.button		List	
deviceDescription		Base	Takes device description file and interprets it for this control.
value		Base	The current value in the infodriver slot.
penwidth		Line	The line width.
points		Line	An array of points that the line passes through e.g. 0,0,100,100 is a diagonal line from top left to bottom right.
colour		Line	The line colour.

Device Description

The format of the device description file entry is:

```
<param name="FEC" slot="22" class="enum" style="popup_list" access="readonly">
        <state value="0" caption="1/2" style="enum_selected" msg=""/>
        <state value="1" caption="2/3" style="enum_selected" msg=""/>
</param>
```

If the slot is 0 this indicates it is a complex type and the actual parameter is got at run time from instances and the complex instance data.

Future Enhancements

Version Information

Version	Notes
4.5.12.0	Now includes options for double push on both button and list buttons
4.5.19.0	Now includes options for bistate, i.e. value set on press and another value for release.

Developers Notes