

RtCheckGroup Component Ver. 1.02

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Compuserve: 100735,3273

I always liked TRadioGroups ability to place the child radiobuttons on the screen by itself. i would never do it myself so accurately. This component is something like Borlands TRadioGroup but it groups checkboxes instead of radiobuttons. Same as TRadioGroup it alignes ist child controls itself, so you dont have to do it. You can set them all at once of every one separately. Because it uses bitmaps to show them, you can make it look as you want it to be.

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TRtCheckGroup

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TRtCheckGroup is a component very similar to TRadioGroup but it contains checkboxes instead of radiobuttons. Like TRadioGroup it aligns its child controls itself. The checkboxes are drawn as bitmaps which are defined in properties PictureChecked and PictureUnchecked, so that you are able to change its look. Besides it conserves resources - it doesn't use real checkboxes which need a window handle. PictureControlColor and PictureWindowColor define transparent colors. Values property lets set checkboxes with values independent from Items - which can be used only to presentation purposes then. Checked (selected) values are stored in Checked property. You can set all of your selection at once with the same property or every selection separately with an array property Value. The CheckMode property decides about which event will cause check status change. Unlike TRadioButton more events have been published, like OnMouse*, OnKey*, etc, it has also OnChange method. The OnCheck event lets you decide if a check status change should take place and the OnDrawItem event lets you draw the items by yourself.

Checked

Declaration

property Checked: TStrings;

Description

This property contains names or values of all checked items as TStringList objects.

CheckMode

Declaration

property CheckMode: TRtCheckMode;

Description

This property defines in which way a checkbox can be toggled.

PictureChecked

Declaration

property PictureUnChecked: TBitmap;

Description

This property defines the look of an unchecked item.

PictureUnchecked

Declaration

property PictureChecked: TBitmap;

Description

This property defines the look of a checked item.

PictureControlColor

Declaration

property PictureControlColor: TColor;

Description

Because bitmaps dont have transparent colors (or I dont know how to define one in AppStudio) I had to define a color to be transparent. It will be translated into the controls background color before it will be shown. Defaults to clOlive.

PictureWindowColor

Declaration

property PictureWindowColor: TColor;

Description

This is the second transparent color, because to show a 3D checkbox I had to translate ist background into clWindow color. Defaults to clFuchsia

Value

Declaration

property Value[const Value: string]: Boolean;

Description

Through this property you can set the values of every item separately.

Values

Example

Declaration

property Values: TStrings;

Description

This property lets you check items with text values other than those shown in the listbox, in this way you can make presentation (Items property) independent of programm logic.

Example

```
Items.Clear;  
Items.Add(Item1);  
Values.Clear;  
Values.Add(1);  
Value[1] := True;
```

Value[Item 1] := True; would have also function, but then it would be dependent on what you want to show to the user.

OnChange

Declaration

property OnChange: TNotifyEvent;

Description

This event will be fired if one or more of the checkboxes change its state, what effectively means that the property Checked will be changed.

OnCheck

Declaration

property OnCheck: TRtCheckEvent;

Description

This event will be fired on checking/unchecking of every item either with the mouse, keyboard or programatically with Value property.

OnDrawItem

Declaration

property OnDrawItem: TRtDrawEvent;

Description

This event happens if a checkbox element should be drawn.

TRtCheckEvent

Unit

RtChkGrp

Declaration

TRtCheckEvent = **procedure** (Sender: TObject; Index: integer; var Value: Boolean) **of object**;

Description

This procedure is called by OnCheck event. Parameter Index points the item to be checked/unchecked and Value is the new check status. To changes simply do Value:=not Value;

TRtDrawEvent

Unit

RtChkGrp

Declaration

TRtDrawEvent = **procedure** (Sender: TObject; Index: integer; DrawRect: TRect; State: TOwnerDrawState;
var Handled: Boolean) **of object**;

Description

This procedure is called by OnDrawItem event. Parameter Index points to the item to be drawn. DrawRect defines the rectangle where the drawing should take place and State is either an empty set or [odFocused]. In order to suppress the default drawing Handled must be set to True.

TRtCheckMode

Declaration

```
type TRtCheckMode = (cmNone, cmClick, cmDbfClick);
```

Description

This type defines checkboxes possible behaviour:

cmNone	checkboxes toggle only programatically
cmClick	with a single mouse click and keyboard
cmDbfClick	with a double click and keyboard

Registration

Compuserve: GO SWREG

ID# 7193 RtCheckGroup alone, license fee is \$10 plus \$2.5 s&h

ID# 7197 as part of RtControls, licence fee \$35 plus \$2.5 s&h

Registered users will receive components full source code. Contact the author for multi-user discounts and site licenses. Shipping only through Compuserve Mail.

Technical Notes

RtCheckGroup doesn't use real checkboxes, it only draws them on the screen, so that the resources are preserved.

The shareware version of this component runs only if Delphi will be found in memory.

Licence

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Warranty

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Support

Support is available from the author via CompuServe Mail to 100735,3273 (Internet 100735,3273@compuserve.com). Currently there is no postal, telephone, or fax support. All support is on a "best effort" basis, and no promise is made that all questions can be answered, problems solved, features added nor bugs exterminated.

Revision History

1.04	22.09.95	OnDrawItem event was added
1.03	15.09.95	property CheckMode added
1.02	12.09.95	error in RtCheckList and RtCheckGroup when checkboxes are not being displayed when clWindow=clWhite corrected.
1.01	05.09.95	OnCheck event was added
1.00	24.08.95	this is the intial version.

Properties

Align
Caption
Checked
CheckMode
Color
Columns
Ctl3D
DragCursor
DragMode
Enabled

Font
Items
ParentColor
ParentCtl3D
ParentFont
ParentShowHint
PictureUnchecked
PictureChecked
PictureControlColor
PictureWindowColor

PopupMenu
ShowHint
Sorted
TabOrder
TabStop
Value
Values
Visible

Methods

Since TRtCheckGroup inherits from TCustomGroupBox all methods of TWinControl apply.

Events

OnChange

OnCheck

OnClick

OnDbClick

OnDragDrop

OnDragOver

OnDrawItem

OnEndDrag

OnEnter

OnExit

OnKeyDown

OnKeyPress

OnKeyUp

OnMouseDown

OnMouseMove

OnMouseUp

