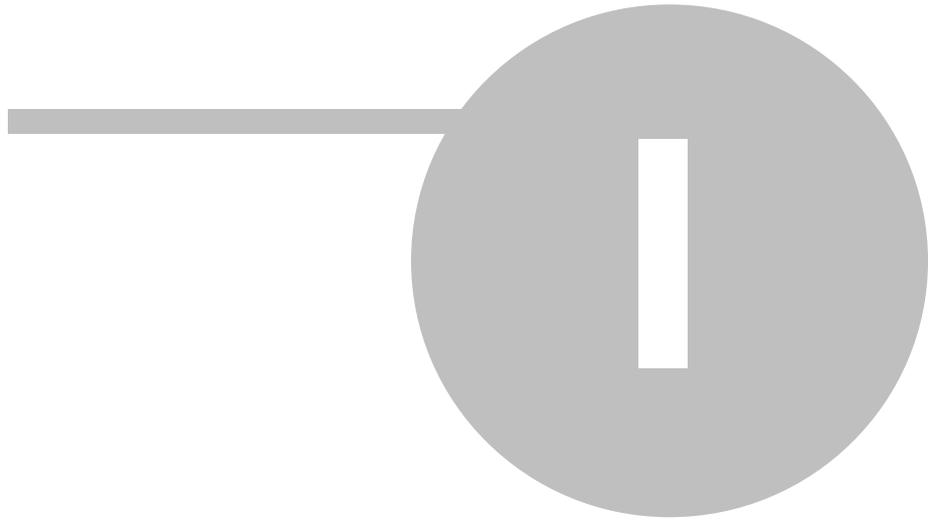
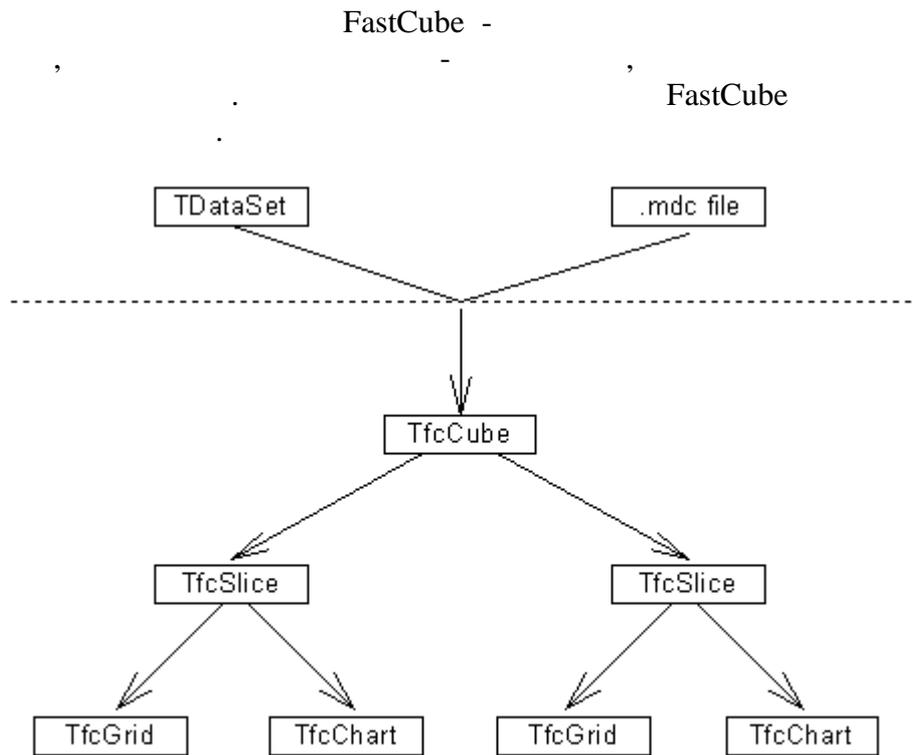


FastCube 1.0

		I
I	FastCube	2
II		5
III		11
IV		17
V	-	31
VI		37
VII		40
VIII	-	42
IX		44
X	-	46
XI	-	48



FastCube



TDataSet

mdc.

-TfcCube - ()
-TfcSlice - ()

-TfcGrid - (-)

-TfcToolBar - (-)

-TfcChart - ()

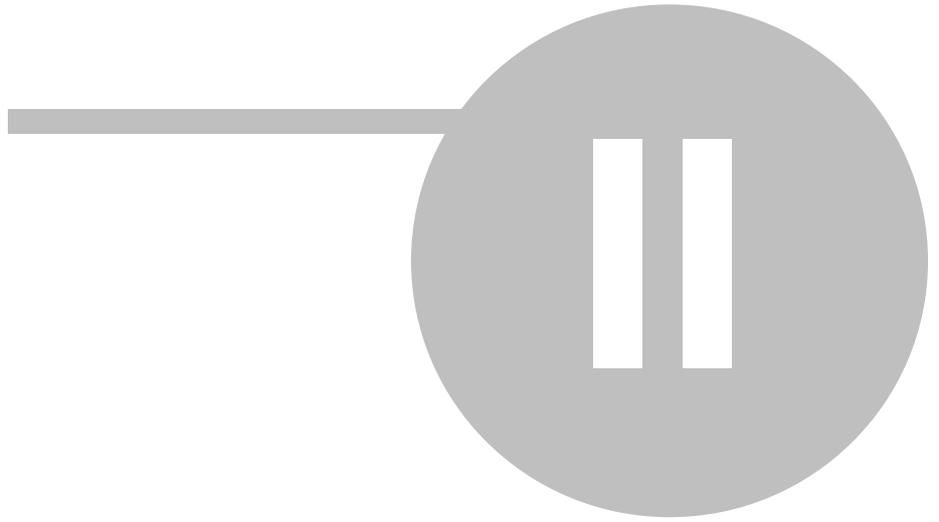
-TfcChartToolBar - ()

FastReport:

```
-TfrcComponents - (          ) ,
    FastCube          FastReport.
-TfrcGridReport - (          -          ) ,
    -                  FastReport

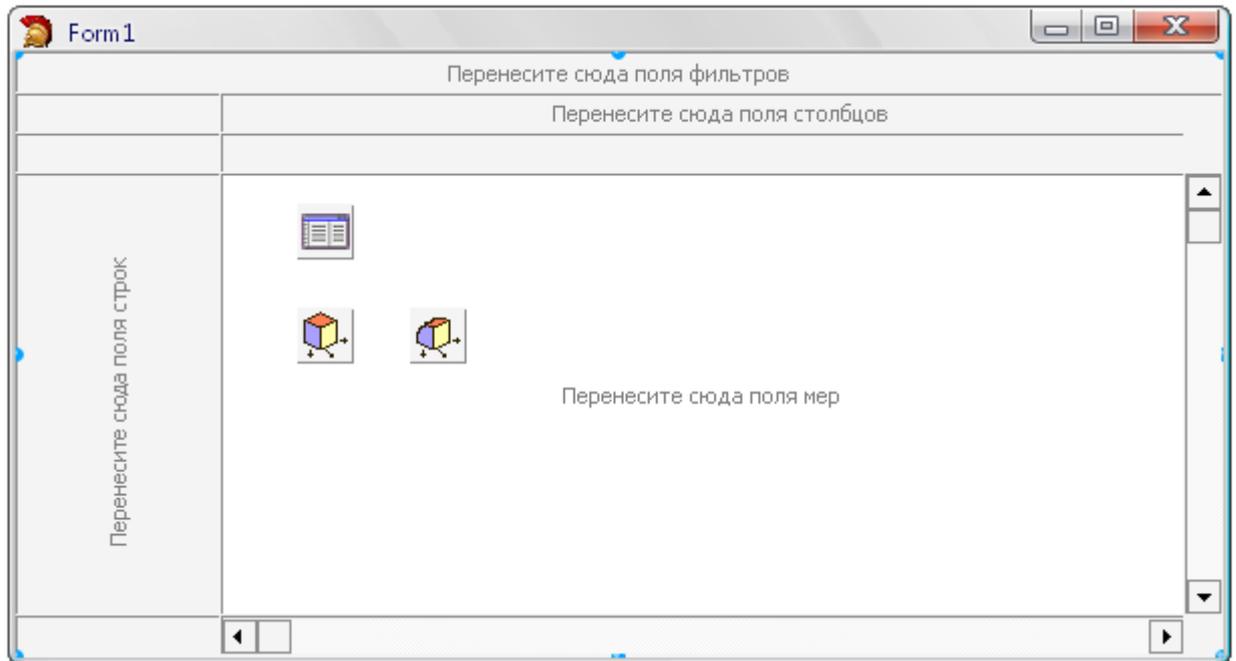
-TfrcGrid -          TfrcGrid TfrcCrossView
-TfrcChart -          TfrcChart TfrcChartView

FastReport:
-TfrcCube - (          -          ) .
-TfrcCrossView - (          -          )
.
-TfrcChartView - (          -          )
.
```



1.

- Table1: TTable - BDE.
- fcCube1: TfcCube -
- fcSlice1: TfcSlice -
- fcGrid1: TfcGrid -



2.

TTable

Country

DBDemos:

- DatabaseName = DBDemos
- TableType = ttParadox
- TableName = country

3.

fcCube1

Table1:

Properties	Events
Active	false
CubeFile	
DataSet	Table1
Hierarchy	(TfroCubeHierarchies)
Name	froCube1
NullStr	[Null]
Options	[mdcoMakeDates,mdcoLoadAllFields]
Tag	0

4.

```

constructor TForm1.Create(AOwner: TComponent);
begin
  inherited;
  fcCube1.Active := True;
  // fill Y Axis
  fcSlice1.AddFieldTo('Continent', 'Continent', rf_CapYAx);
  fcSlice1.AddFieldTo('Name', 'Name', rf_CapYAx);

  // fill facts
  fcSlice1.AddFieldTo('Area', 'Area', rf_CapFacts, af_Sum);
  fcSlice1.AddFieldTo('Population', 'Population', rf_CapFacts, af_Sum);

  // Add Measures to X Axis
  fcSlice1.AddFieldTo(sMeasuresFieldName, ", rf_CapXAx);
end;

```

5.

Conti...	Name	СуммаArea	СуммаPopul...
North America	Canada	9 976 147,00	26 500 000,00
	Cuba	114 524,00	10 600 000,00
	El Salvador	20 865,00	5 300 000,00
	Jamaica	11 424,00	2 500 000,00
	Mexico	1 967 180,00	88 600 000,00
	Nicaragua	139 000,00	3 900 000,00
	United States of America	9 363 130,00	249 200 000...
	Итого	21 592 270,00	386 600 000...
South America	Argentina	2 777 815,00	32 300 003,00
	Bolivia	1 098 575,00	7 300 000,00
	Brazil	8 511 196,00	150 400 000...

6.

Area,

Population /

```

constructor TForm1.Create(AOwner: TComponent);
var
  FieldIndex: Integer;
begin

```

```

inherited;
fcCube1.Active := True;

// start operations
fcSlice1.BeginUpdate;

// fill Y Axis
fcSlice1.AddFieldTo('Continent', 'Continent', rf_CapYAx);
fcSlice1.AddFieldTo('Name', 'Name', rf_CapYAx);

// fill facts
fcSlice1.AddFieldTo('Area', 'Area', rf_CapFacts, af_Sum);
fcSlice1.AddFieldTo('Population', 'Population', rf_CapFacts, af_Sum);

// add calculated fact Population / Area
FieldIndex := fcSlice1.AddCalcFieldTo(
  'begin '#$D#$A+
  ' if <Area> <> 0 then'#$D#$A+
  '   Result := <Population> / <Area> else'#$D#$A+
  '   Result := 0;#'$D#$A+
  'end.', "   /   .", 1, af_Formula);

// Add Measures to X Axis
fcSlice1.AddFieldTo(sMeasuresFieldName, "", rf_CapXAx);

// finish operation
fcSlice1.EndUpdate;
end;

```

, BeginUpdate EndUpdate -

AddCalFieldTo,

7.

Grid -

:

Form 1

Перенесите сюда поля фильтров

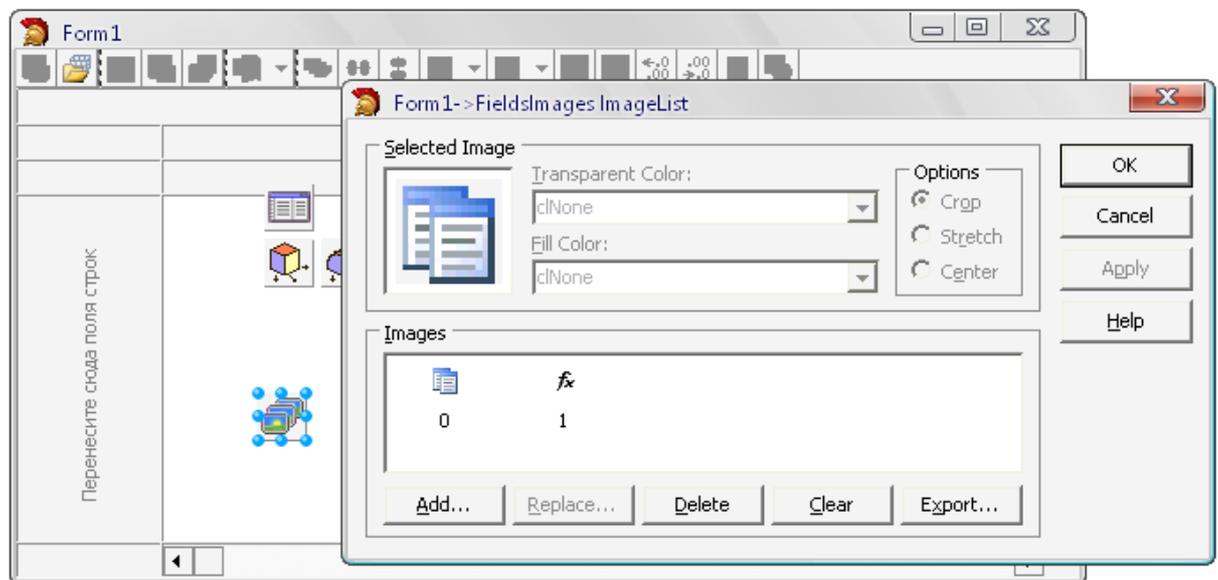
Список полей Показатели ...

Conti...	Name	Area	Population	чел./кв.м
North America	Canada	9 976 147,00	26 500 000,00	2,66
	Cuba	114 524,00	10 600 000,00	92,56
	El Salvador	20 865,00	5 300 000,00	254,01
	Jamaica	11 424,00	2 500 000,00	218,84
	Mexico	1 967 180,00	88 600 000,00	45,04
	Nicaragua	139 000,00	3 900 000,00	28,06
	United States of America	9 363 130,00	249 200 000...	26,62
South America	Иторо	21 592 270,00	386 600 000...	17,90
	Argentina	2 777 815,00	32 300 003,00	11,63
	Bolivia	1 098 575,00	7 300 000,00	6,64

8.

FieldImages: TImageList

" ":



FieldImages

FieldImages

fcGrid1

OnGetFieldImageIndex:

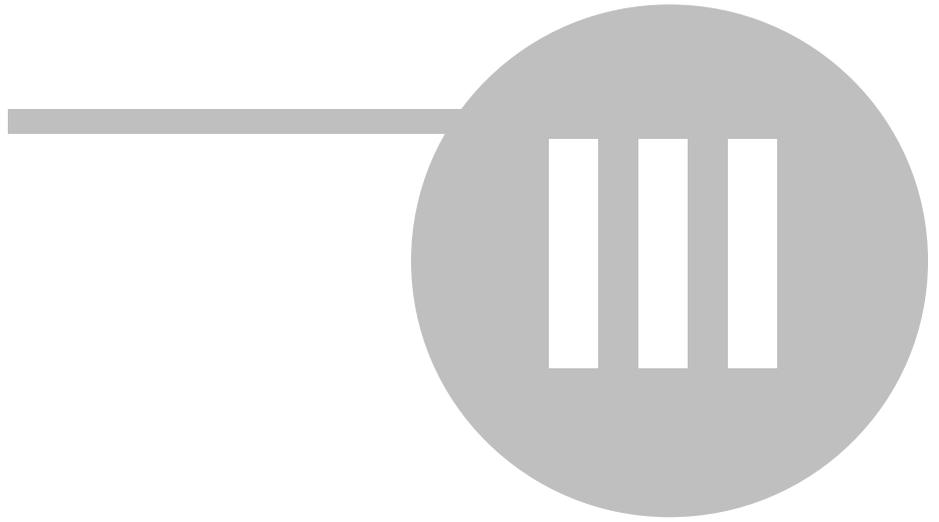
```

procedure TForm1.fcGrid1GetFieldImageIndex(Sender: TObject; Region: TfcTypeDrRegion;
begin
  if Region = dr_Tool then
    ImageIndex := 0 else

```

```
if Field = fcGrid1.Slice.MeasureField then  
  ImageIndex := 1 else  
  ImageIndex := -1;  
end;
```

- ,
Demos\Simple



TfcCube - ()

TfcCube

(**TDataSet**
mdc.
FastCube.

```
TfcCube = class(TComponent)
public
  constructor Create(AOwner: TComponent); override;
  destructor Destroy; override;
  procedure Open;
  procedure Close;
  procedure SaveToStream(Stream: TStream);
  function LoadFromStream(Stream: TStream): Boolean;
  procedure SaveToFile(AFileName: string);
  procedure LoadFromFile(AFileName: string);
  procedure AddField(AFieldName, AFieldCaption: string);
  procedure SetBaseField(AField, ABaseField: string);
  function HaveBaseField(AField: string): Boolean;
  procedure ClearBaseFields;
  function FindUnique(AFieldIndex: integer; Value: Variant; var AIndex: integer):
Boolean;
  procedure BeginUpdate;
  procedure EndUpdate;
  procedure ClearConvert;
  procedure SaveConvertToStream(Stream: TStream);
  procedure SaveConvertToFile(AFileName: String);
  function LoadConvertFromStream(Stream: TStream): Boolean;
  procedure LoadConvertFromFile(AFileName: String);
  procedure Refresh;

  property UniqueValue[AFieldIndex, AValueIndex: integer]: Variant read
GetUniqueValue;
  property UniqueCount[AFieldIndex: integer]: Integer read GetUniqueCount;
  property SourceCount: Integer read GetSourceCount;
  property UniqueValueAtRow[ARow, AFieldIndex: integer]: variant read
GetUniqueValueAtRow;
  property UniqueCaption[AFieldIndex, AValueIndex: integer]: string read
GetUniqueCaption;
  property UniqueCaptionAtRow[ARow, AFieldIndex: integer]: string read Get
UniqueCaptionAtRow;
  property SourceRecs[ARow: integer]: PUniqueArray read GetSourceRec;
```

```

property DisplayFormat[AFieldIndex: integer]: TfcFormat read GetDisplayFormat;
property AsVariant[ADataRow: PUniqueArray; AFieldNo: Integer]: Variant read
GetAsVariant;
property Slices: TfcSlices read FSlices;
property FieldCount: Integer read FFieldCount;
property CubeFields: TfcCubeFields read FCubeFields;
property CubeStream: TStream read FCubeStream write FCubeStream;
property Collecting: boolean read FCollecting write SetCollecting;
property Caption: string read FCaption write SetCaption;
property Description: string read FDescription write SetDescription;
published
property DataSet: TDataSet read FDataSet write SetDataSet;
property CubeFile: string read FCubeFile write SetCubeFile;
property Options: TfcCubeOptions read FOptions write SetOptions default
[mdcoMakeDates, mdcoLoadAllFields];
property NullStr: string read FNullStr write FNullStr;
property Active: Boolean read FActive write SetActive default False;
property DefaultFormat: TfcDefaultFormat read FDefaultFormat write
SetDefaultFormat;
property UseMultiLoad: Boolean read FUseMultiLoad write SetUseMultiLoad;
property OnGetNextDataset: TfcGetNextDatasetEvent read FOnGetNextDataset
write FOnGetNextDataset;
property OnGetFieldConv: TfcCubeGetFieldConvEvent read FOnGetFieldConv write
FOnGetFieldConv;

property OnCubeChanged: TNotifyEvent read FOnCubeChanged write
FOnCubeChanged;
property OnNeedSlice: TfcCubeOnNeedSlice read FOnNeedSlice write
FOnNeedSlice;
property BeforeOpen: TNotifyEvent read FBeforeOpen write FBeforeOpen;
property AfterOpen: TNotifyEvent read FAfterOpen write FAfterOpen;
property BeforeClose: TNotifyEvent read FBeforeClose write FBeforeClose;
property AfterClose: TNotifyEvent read FAfterClose write FAfterClose;
end;

```

```

TfcCube :

```

```

- Open -
    - Tdataset
-
- Close -
.
- SaveToStream -
- LoadFromStream -
- SaveToFile -
- LoadFromFile -

```

```

- AddField -
    .
    .
    .
- SetBaseField -
    .
    .
    .
- HaveBaseField -
- ClearBaseFields -
- FindUnique -
AFieldIndex
    .
    .
- BeginUpdate -
    .
    .
- EndUpdate -
- ClearConvert -
- SaveConvertToStream -
;
- SaveConvertToFile -
- LoadConvertTfcmStream -
;
- LoadConvertTfcmFile -
- Refresh -
    (
        );
    TfcCube
        :
- DataSet -
- CubeFile -
    (
    ).
- CubeStream -
    ,
    ).
- Active -
    Open
    Close
- NullStr -
    '[Null]'.
- Options -
    :
    - mdcoMakeDates -
        :
        ,
    - mdcoLoadAllFields -
        ,
        .
        AddField.
    - mdcoRefreshOnDatasetReopen -

```

- **mdcoShowConvertor** -

- **mdcoMakeTimes** -

- **mdcoLoadWithDefaultFormat** -

- **mdcoUseYearInWeekOfYear** -

mdcoLoadAllFields.

mdcoMakeDates

- *Caption* -

- *Description* -

- *Collecting* -

- *Slices* - (TfcSlice),

- *FieldCount* -

- *CubeFields* -

- *UniqueCount* -

- *UniqueValue* -

- *UniqueCaption* -

- *SourceCount* -

- *UniqueValueAtRow* -

- *UniqueCaptionAtRow* -

- *SourceRecs* -

- *AsVariant* - Variant.

- *DisplayFormat* - ;

- *UseMultiLoad* -

- *DefaultFormat* - OnGetNextDataset.

TfcCube :

- *OnCubeChanged* - (,)

- *OnNeedSlice* -

- BeforeOpen - Open.
- AfterOpen - Open.
- BeforeClose - Close.
- AfterClose - Close.
- OnGetNextDataset - (UseMultiLoad).
- OnGetFieldConv -



TfcSlice - ()

```

TfcSlice = class(TfcAbstractSlice)
public
  constructor Create(AOwner : TComponent); override;
  destructor Destroy; override;
  procedure BeginUpdate;
  procedure EndUpdate;
  procedure Clear;
  // add/remove slice event listner
  procedure AddToUpdates(Obj : TObject);
  procedure RemoveFromUpdates(Obj : TObject);
  procedure ManageFacts(AField : TfcSliceField);
  procedure RangeConfig(DefaultColor: LongInt; FieldIndex: Integer = -1);
  procedure ChangeDecimal(FieldIndex: Integer; Increment: Integer);
  procedure FillRangesList(List: TList);
  procedure GetValueColor(Value: Variant; FactIndex: Integer; var TextColor,
BackColor: LongInt);
  procedure ShowMetrix;
  function HaveLayout: Boolean;
  function IsMeasureField(ARegion : TfcRegionOfField; AIndex : Integer) : Boolean;
  // slice read/write
  procedure SaveToStream(Stream : TStream); override;
  procedure SaveToFile(AFileName: String);
  procedure LoadFromStream(Stream : TStream); override;
  procedure LoadFromFile(AFileName: String);
  // uniques filter
  procedure SetAllFilter(ARegion : TfcRegionOfField; AIndex : Integer);
  procedure InverseFilter(ARegion : TfcRegionOfField; AIndex: integer);
  procedure SetNoneFilter(ARegion : TfcRegionOfField; AIndex: integer);
  // fact work
  function GetFactFields(Field: TfcSliceField) : TStringList;
  procedure SetFactFields(List: TStringList);
  procedure AddFactFields(List: TStringList);
  // drill trough
  function GetDetailInfoAbs(XAxisIndex, YAxisIndex : Integer) : TfcDetailInfo;
  function GetDetailInfoVis(XAxisIndex, YAxisIndex : Integer) : TfcDetailInfo;
  // work with adding/moving/removing fields from one region to another

```

```

function AddFieldTo(AFieldName: String; ACaption: String; ARegionOfField:
TfcRegionOfField; AAgrFunc: TfcAgrFunc = af_None; AFilterText: String = ""): integer;
overload;
function AddFieldTo(AName: String; AFieldName: String; ACaption: String;
ARegionOfField: TfcRegionOfField; AAgrFunc: TfcAgrFunc = af_None; AFilterText:
String = ""): integer; overload;
function AddCalcFieldTo(AFormula: String; ACaption: String; AOrder: Integer;
AAgrFunc: TfcAgrFunc; AFilterText: String = ""): integer; overload;
function AddCalcFieldTo(AName: String; AFormula: String; ACaption: String;
AOrder: Integer; AAgrFunc: TfcAgrFunc; AFilterText: String = ""): integer; overload;
function InsertFieldTo(Index: Integer; AFieldName: String; ACaption: String;
ARegionOfField: TfcRegionOfField; AAgrFunc: TfcAgrFunc = af_None; AFilterText:
String = ""): integer; overload;
function InsertFieldTo(Index: Integer; AName: String; AFieldName: String; ACaption:
String; ARegionOfField: TfcRegionOfField; AAgrFunc: TfcAgrFunc = af_None;
AFilterText: String = ""): integer; overload;
procedure RemoveFieldFrom(AFieldName: String; ACaption: String;
ARegionOfField: TfcRegionOfField; AAgrFunc: TfcAgrFunc = af_None); overload;
procedure RemoveFieldFrom(AName: String; ARegionOfField: TfcRegionOfField);
overload;
procedure MoveBefore(AFieldIndex, AFieldIndexBefore: Integer; ARegionOfField:
TfcRegionOfField);
// add/remove special measure - system counter
function AddCountToFact:integer;
procedure RemoveCountFact;
function FieldsOfRegion(ARegionOfField: TfcRegionOfField): TfcFieldsOfRegion;
// axis tree walkers
function TraverseAxis(ARowAxis: Boolean; AFirstItem, ALastItem, AFirstDrawed:
Integer; Proc: TfcSliceAxisTraverseProc): TfcSliceDrawHeaderResult; overload;
function TraverseAxis(ARowAxis: Boolean; AFirstItem, ALastItem, AFirstDrawed:
Integer; Proc: TfcSliceAxisTraverseProc; AGetColWidth : TfcSliceAxisGetColWidth;
AGetRowHeight : TfcSliceAxisGetRowHeight): TfcSliceDrawHeaderResult; overload;
// properties
property SliceFields : TfcSliceFields read FSliceFields;
property StoredSchema: string read FStoredSchema;
property BuildingData : boolean read FBuildingData;
property Active : Boolean read GetActive;
property HideRowZeros: Boolean read FHideRowZeros write SetHideRowZeros;
property HideColZeros: Boolean read FHideColZeros write SetHideColZeros;
property TypeSortOfXAxis: TfcTypeSortAxis read GetTypeSortOfXAxis write
SetTypeSortOfXAxis;
property TypeSortOfYAxis: TfcTypeSortAxis read GetTypeSortOfYAxis write
SetTypeSortOfYAxis;
property SelectedFact: Integer read FSelectedFact write SetSelectedFact;
property SelectedCol : Integer read FSelectedCol write SetSelectedCol;
property SelectedRow : Integer read FSelectedRow write SetSelectedRow;

```

property RegionFieldsCount[ARegion: TfcRegionOfField]: Integer **read**
 GetRegionFieldsCount;
property RegionFieldCaption[ARegion: TfcRegionOfField; AFieldIndex: Integer]:
string read GetRegionFieldCaption;
property RegionFieldFilter[ARegion: TfcRegionOfField; AFieldIndex: Integer]:
 Boolean **read** GetRegionFieldFilter;
property RegionFieldExpanded[ARegion : TfcRegionOfField; AFieldIndex: Integer] :
 Boolean **read** GetRegionFieldExpanded **write** SetRegionFieldExpanded;
property XAxisValueAbsIndexInLevel[ATargetLevel, AVisIndex: Integer]: Integer
read GetXAxisValueAbsIndexInLevel;
property YAxisValueAbsIndexInLevel[ATargetLevel, AVisIndex: Integer]: Integer
read GetYAxisValueAbsIndexInLevel;
property XAxisValueExpandedAbs[ALevel, AIndex: integer]: Boolean **read**
 GetXAxisValueExpandedAbs **write** SetXAxisValueExpandedAbs;
property YAxisValueExpandedAbs[ALevel, AIndex: integer]: Boolean **read**
 GetYAxisValueExpandedAbs **write** SetYAxisValueExpandedAbs;
property XAxisValueExpandedVis[ALevel, AVisIndex: integer]: Boolean **read**
 GetXAxisValueExpandedVis **write** SetXAxisValueExpandedVis;
property YAxisValueExpandedVis[ALevel, AVisIndex: integer]: Boolean **read**
 GetYAxisValueExpandedVis **write** SetYAxisValueExpandedVis;
property XAxisValueMeasureValueVis[AVisIndex: integer]: Integer **read**
 GetXAxisValueMeasureValueVis;
property YAxisValueMeasureValueVis[AVisIndex: integer]: Integer **read**
 GetYAxisValueMeasureValueVis;
property XAxisFullExpanded[ALevel: integer]: Boolean **read**
 GetXAxisFullExpanded **write** SetXAxisFullExpanded;
property YAxisFullExpanded[ALevel: integer]: Boolean **read**
 GetYAxisFullExpanded **write** SetYAxisFullExpanded;
property XAxisValueVisibleChildCountAbs[ALevel, AIndex: Integer]: Integer **read**
 GetXAxisValueVisibleChildCountAbs;
property YAxisValueVisibleChildCountAbs[ALevel, AIndex: Integer]: Integer **read**
 GetYAxisValueVisibleChildCountAbs;
property XAxisAllCountInLevel[ALevel: Integer]: Integer **read**
 GetXAxisAllCountInLevel;
property YAxisAllCountInLevel[ALevel: Integer]: Integer **read**
 GetYAxisAllCountInLevel;
property XAxisVisibleItemCount: Integer **read** GetXAxisVisibleItemCount;
property YAxisVisibleItemCount: Integer **read** GetYAxisVisibleItemCount;
property XAxisVisibleItemCountInLevel[ALevel: Integer]: Integer **read**
 GetXAxisVisibleItemCountInLevel;
property YAxisVisibleItemCountInLevel[ALevel: Integer]: Integer **read**
 GetYAxisVisibleItemCountInLevel;
property XAxisValueChildCountAbs[ALevel, AIndex: Integer]: Integer **read**
 GetXAxisValueChildCountAbs;
property YAxisValueChildCountAbs[ALevel, AIndex: Integer]: Integer **read**

```

    GetYAxisValueChildCountAbs;
property XAxisFieldOrder[Index : Integer]: Boolean read GetXAxisFieldOrder
write SetXAxisFieldOrder;
property YAxisFieldOrder[Index : Integer]: Boolean read GetYAxisFieldOrder
write SetYAxisFieldOrder;
property XAxisExistsVisibleInLevel[ALevel: Integer]: Boolean read
    GetXAxisExistsVisibleInLevel;
property YAxisExistsVisibleInLevel[ALevel: Integer]: Boolean read
    GetYAxisExistsVisibleInLevel;
property XAxisValueTypeAbs[ALevel, AIndex: Integer]: TfcTypeOfCellAxis read
    GetXAxisValueTypeAbs;
property YAxisValueTypeAbs[ALevel, AIndex: Integer]: TfcTypeOfCellAxis read
    GetYAxisValueTypeAbs;
property XAxisValueTypeVis[ALevel, AVisIndex: integer]: TfcTypeOfCellAxis read
    GetXAxisValueTypeVis;
property YAxisValueTypeVis[ALevel, AVisIndex: integer]: TfcTypeOfCellAxis read
    GetYAxisValueTypeVis;
property XAxisValueParentIndexVis[ALevel, AVisIndex: integer]: Integer read
    GetXAxisValueParentIndexVis;
property YAxisValueParentIndexVis[ALevel, AVisIndex: integer]: Integer read
    GetYAxisValueParentIndexVis;
// Check State of Cell in Axis (Any State Included)
property XAxisIncludeStateAnyAbs[ALevel, AIndex: Integer; AState: byte]:
    boolean read GetXAxisIncludeStateAnyAbs;
property YAxisIncludeStateAnyAbs[ALevel, AIndex: Integer; AState: byte]:
    boolean read GetYAxisIncludeStateAnyAbs;
property XAxisIncludeStateAnyVis[ALevel, AVisIndex: Integer; AState: byte]:
    boolean read GetXAxisIncludeStateAnyVis;
property YAxisIncludeStateAnyVis[ALevel, AVisIndex: Integer; AState: byte]:
    boolean read GetYAxisIncludeStateAnyVis;
// Check State of Cell in Axis (All State Included)
property XAxisIncludeStateAllAbs[ALevel, AIndex: Integer; AState: byte]:
    boolean read GetXAxisIncludeStateAllAbs;
property YAxisIncludeStateAllAbs[ALevel, AIndex: Integer; AState: byte]:
    boolean read GetYAxisIncludeStateAllAbs;
property XAxisIncludeStateAllVis[ALevel, AVisIndex: Integer; AState: byte]:
    boolean read GetXAxisIncludeStateAllVis;
property YAxisIncludeStateAllVis[ALevel, AVisIndex: Integer; AState: byte]:
    boolean read GetYAxisIncludeStateAllVis;
property XAxisValueVis[ALevel, AIndex: Integer]: String read GetXAxisValueVis;
property XAxisValueAbs[ALevel, AIndex: Integer]: String read GetXAxisValueAbs;
property YAxisValueVis[ALevel, AIndex: Integer]: String read GetYAxisValueVis;
property YAxisValueAbs[ALevel, AIndex: Integer]: String read GetYAxisValueAbs;
// width of columns
property XAxisColWidth[ACol : Integer]: Integer read GetXAxisColWidth write
    SetXAxisColWidth;

```

```

property YAxisColWidth[ACol : Integer]: Integer read GetYAxisColWidth write
SetYAxisColWidth;
  // Height of rows like width of cols
property YAxisRowHeight[ARow : Integer]: Integer read GetYAxisRowHeight write
SetYAxisRowHeight;
property XAxisRowHeight[ARow : Integer]: Integer read GetXAxisRowHeight write
SetXAxisRowHeight;
property MeasureIndex[ACol, ARow: Integer]: Integer read GetMeasureIndex;
  // Data value as Variant
property DataVariantVis[AVisCol, AVisRow: Integer]: Variant read
GetDataVariantVis;
property DataVariantAbs[ACol, ARow: Integer]: Variant read GetDataVariantAbs;
  // Data value as formatted string
property DataStringVis[AVisCol, AVisRow: Integer]: String read GetDataStringVis;
property DataStringAbs[ACol, ARow: Integer]: String read GetDataStringAbs;
  // Data value as percent
property DataPercentStringVis[AVisCol, AVisRow: Integer; DisplayAs:
TfcDisplayAs]: String read GetDataPercentStringVis;
property DataPercentVariantVis[ACol, ARow: Integer; DisplayAs: TfcDisplayAs]:
Variant read GetDataPercentVariantVis;
property DataAlignmentAbs[AIndex: Integer]: TAlignment read
GetDataAlignmentAbs write SetDataAlignmentAbs;
property DataAlignmentVis[AVisIndex: Integer]: TAlignment read
GetDataAlignmentVis write SetDataAlignmentVis;
property CapXFields[AIndex: integer]: TfcFieldOfRegion read GetCapXFields;
property CapYFields[AIndex: integer]: TfcFieldOfRegion read GetCapYFields;
property CapPageFields[AIndex: integer]: TfcFieldOfRegion read GetCapPageFields;
property CapFactsFieldsAbs[AIndex: integer]: TfcFieldOfRegion read
  GetCapFactsFieldsAbs;
property CapFactsFieldsVis[AVisIndex: Integer]: TfcFieldOfRegion read
  GetCapFactsFieldsVis;
property CapFactsFieldIndexVis[AVisIndex: Integer]: Integer read
  GetCapFactsFieldIndexVis;
property VisibleCapFactsFieldsCount: Integer read FVisibleCapFactsFieldsCount;
property YAxisLevelCount : Integer read GetYAxisLevelCount;
property XAxisLevelCount : Integer read GetXAxisLevelCount;
property YAxisVisibleLevelCount: Integer read GetYAxisVisibleLevelCount;
property XAxisVisibleLevelCount: Integer read GetXAxisVisibleLevelCount;
property UniqueCount[ARegion : TfcRegionOfField; AIndex: integer]: Integer read
GetUniqueCount;
property UniqueFilter[ARegion : TfcRegionOfField; AIndex, AUniqueIndex: integer]:
Boolean read GetUniqueFilter write SetUniqueFilter;
property UniqueCaption[ARegion : TfcRegionOfField; AIndex, AUniqueIndex:
integer]: String read GetUniqueCaption;
property TreeFilter[ARegion : TfcRegionOfField; AIndex, AHierLevel,
AUniqueIndex: integer]: Boolean read GetTreeFilter write SetTreeFilter;

```

property SliceUniques: TfcSliceUniques **read** FSliceUniques;
property FieldCount: integer **read** GetFieldCount;
property MeasureIndexInY: integer **read** GetMeasureIndexInY;
property MeasureIndexInX: integer **read** GetMeasureIndexInX;
property ActiveMeasure: Boolean **read** GetActiveMeasure;
property MeasureField: TfcFieldOfRegion **read** FMeasureField;
property Locked : Boolean **read** FLocked;
property XAxis : TfcAxis **read** FValuesOfXAxis;
property YAxis : TfcAxis **read** FValuesOfYAxis;
property FilterRecCount: integer **read** GetFilterRecCount;
property Filters: TfcSliceFilterManager **read** FFilters;
property SourceRec[ARecIndex: integer]: PUniqueArray **read** GetSourceRec;
published
property DefaultColWidth: Integer **read** FDefaultColWidth **write** SetDefaultColWidth
default 80;
property DefaultRowHeight: Integer **read** FDefaultRowHeight **write**
SetDefaultRowHeight **default 18**;

property Options : TfcSliceOptions **read** FOptions **write** SetOptions;
property Cube : TfcCube **read** FCube **write** SetCube;
property NullStr : **String** **read** FNullStr **write** SetNullStr;
property UnAssignedStr : **String** **read** FUnAssignedStr **write** SetUnAssignedStr;

property PopUpFieldListWidth: integer **read** FPopUpFieldListWidth **write**
FPopUpFieldListWidth **default 120**;
property PopUpWidthDefault: integer **read** FPopUpWidthDefault **write**
FPopUpWidthDefault **default 120**;
property FieldsOrder: TfcFieldsOrder **read** FFieldsOrder **write** SetFieldsOrder;
property ShowSplitFieldsInFieldList: TfcShowSplitFields **read** FShowSplitFieldsInFieldList **write**
property StoreInDFM: Boolean **read** FStoreInDFM **write** FStoreInDFM **default False**;

property OnFieldsListSortCompare: TfcFieldsListSortCompare **read**
FOnFieldsListSortCompare **write** FOnFieldsListSortCompare;
property OnInterpreterCreated: TfcSliceInterpreterCreated **read**
FOnInterpreterCreated **write** FOnInterpreterCreated;
property OnStartChange: TfcSliceStartChange **read** FOnStartChange **write**
FOnStartChange;
property OnStopChange: TfcSliceStopChange **read** FOnStopChange **write**
FOnStopChange;
property OnSliceChanged: TfcSliceChanged **read** FOnSliceChanged **write**
FOnSliceChanged;
property OnBeforeRemoveSliceFieldFromRegion: TfcSliceFieldRegionChange **read**
FOnBeforeRemoveSliceField **write** FOnBeforeRemoveSliceField;
property OnBeforeAddedSliceFieldToRegion: TfcSliceFieldRegionChange **read**
FOnBeforeAddedSliceFieldToRegion **write** FOnBeforeAddedSliceFieldToRegion;


```

- IsMeasureField - AIndex
ARegion
- SetAllFilter - AIndex ARegion
- InverseFilter -
- SetNoneFilter -
- GetFactFields - Field.
Field = nil,
- SetFactFields -
- AddFactFields -
- GetDetailInfoAbs - X = XAxisIndex, Y = YAxisIndex,
- GetDetailInfoVis -
- AddFieldTo - AFieldName
ARegionOfField, ACaption. -
, AAgFunc.
: AName.
- AddCalcFieldTo - AFormula
AOrder AAgFunc,
ACaption. : AName.
- InsertFieldTo - AFieldName
ARegionOfField Index, ACaption.
: AName.
- RemoveFieldFrom - AName,
AFieldName ACaption ARegionOfField.
AAgFunc.
- MoveBefore - AFieldIndex
ARegionOfField AFieldIndexBefore.
- AddCountToFact - " " ".
- RemoveCountFromFact - " " ".
- FieldsOfRegion - ARegionOfField.
- TraverseAxis - Y ARowAxis = True
X AFirstItem ALastItem.
Proc
AGetColWidth
AGetRowHeight,
TfcSlice :
- DefaultColWidth -
- DefaultRowHeight -
- Options - :
```

```

- mdssoNullIsZero -          NULL          0.
- mdssoTotalAsPrevLevel -
    "      ",
- mdssoAutoFilter -
    ,
- mdssoNoTotalIfOneValue -
- mdssoAddTotalPrefix -
- mdssoSaveChartInSchema -
- mdssoFieldsMultyUse -
- mdssoSaveFiltersByValue -
- mdssoSaveFiltersEnabledValues -
- mdssoAllowFilterAllValues -
- mdssoCalcOrderByDimOrder -
- Cube -
- NullStr -                  Null.
- UnAssignedStr -
UnAssigned.
- StoredSchema -            ;
- BuildingData -           ;
- Active -
- ActiveMeasure -          (          ).
- SliceFields -
- HideRowZeros -
- HideColZeros -
- TypeSortOfXAxis -        X.
- TypeSortOfYAxis -        Y.
- SelectedFact -           (          ).
- SelectedCol -            (          ).

```

- *SelectedRow* - ().

- *RegionFieldsCount* - .

- *RegionFieldCaption* - AFieldIndex

ARegion.

- *RegionFieldFilter* - ARegion.

AFieldIndex

- *RegionFieldExpanded* - AFieldIndex

ARegion.

- *XAxisValueAbsIndexInLevel* - X

AVisIndex ATargetLevel.

- *YAxisValueAbsIndexInLevel* - Y

AVisIndex ATargetLevel.

- *XAxisValueExpandedAbs* - AIndex ALevel

X .

- *YAxisValueExpandedAbs* - AIndex ALevel

Y .

- *XAxisValueExpandedVis* - AVisIndex ALevel

X .

- *YAxisValueExpandedVis* - AVisIndex ALevel

Y .

- *XAxisValueMeasureValueVis* - ()

AVisIndex X.

- *YAxisValueMeasureValueVis* - ()

AVisIndex Y.

- *XAxisFullExpanded* - ALevel X.

- *YAxisFullExpanded* - ALevel Y.

- *XAxisValueVisibleChildCountAbs* - AIndex ALevel X.

- *YAxisValueVisibleChildCountAbs* - AIndex ALevel Y.

- *XAxisAllCountInLevel* - ALevel X.

- *YAxisAllCountInLevel* - ALevel Y.

- *XAxisVisibleItemCountInLevel* - ALevel

X.

- *YAxisVisibleItemCountInLevel* - ALevel

Y.

- *XAxisVisibleItemCount* - X.

- *YAxisVisibleItemCount* - Y.

- *XAxisFieldOrder* - Index X. True -

, False - .

- *YAxisFieldOrder* - Index Y. True -

, False - .

- *XAxisExistsVisibleInLevel* - ALevel X.

- *YAxisExistsVisibleInLevel* - ALevel Y.

- <i>XAxisValueTypeAbs</i> - X.	AIndex		ALevel
- <i>YAxisValueTypeAbs</i> - Y.	AIndex		ALevel
- <i>XAxisValueTypeVis</i> - X.	AVisIndex		ALevel
- <i>YAxisValueTypeVis</i> - Y.	AVisIndex		ALevel
- <i>XAxisValueParentIndexVis</i> - AVisIndex		ALevel	X.
- <i>YAxisValueParentIndexVis</i> - AVisIndex		ALevel	Y.
- <i>XAxisIncludeStateAnyAbs</i> -			X.
- <i>YAxisIncludeStateAnyAbs</i> -			Y.
- <i>XAxisIncludeStateAnyVis</i> -			X.
- <i>YAxisIncludeStateAnyVis</i> -			Y.
- <i>XAxisValueAbs</i> - X.	AIndex		ALevel
- <i>YAxisValueAbs</i> - Y.	AIndex		ALevel
- <i>XAxisValueVis</i> - X.	AIndex		ALevel
- <i>YAxisValueVis</i> - Y.	AIndex		ALevel
- <i>XAxisColWidth</i> - X.	ACol		
- <i>YAxisColWidth</i> -	ACol	Y.	
- <i>YAxisRowHeight</i> - Y.	ARow		
- <i>XAxisRowHeight</i> -	ARow	Y.	
- <i>MeasureIndex</i> - ACol, ARow.			
- <i>DataVariantAbs</i> -			Variant
- <i>DataVariantVis</i> -		Variant	
- <i>DataStringAbs</i> -			
- <i>DataStringVis</i> -			
- <i>DataPercentStringVis</i> -			
- <i>DataPercentVariantVis</i> -			Variant

- *DataAlignmentAbs* -
 AIndex.
 - *DataAlignmentVis* -
 AVisIndex.
 - *CapXFields* - X.
 - *CapYFields* - Y.
 - *CapPageFields* -
 - *CapFactsFieldsAbs* -
 - *CapFactsFieldsVis* -
 - *CapFactsFieldIndexVis* -
 - *VisibleCapFactsFieldsCount* -
 - *YAxisLevelCount* - Y.
 - *XAxisLevelCount* - X.
 - *YAxisVisibleLevelCount* - Y.
 - *XAxisVisibleLevelCount* - X.
 - *UniqueCount* - AIndex ARegion.
 - *UniqueFilter* - AUniqueIndex AIndex
 ARegion.
 - *UniqueCaption* - AUniqueIndex AIndex
 ARegion.
 - *SliceUniques* -
 - *FieldCount* -
 - *MeasureIndexInY* - Y.
 - *MeasureIndexInX* - X.
 - *MeasureField* -
 - *Locked* -
 - *XAxis* - X.
 - *YAxis* - Y.
 - *FilterRecCount* -
 - *Filters* -
 - *SourceRec* -

 - *PopUpFieldListWidth* -
 - *PopUpWidthDefault* -
 - *FieldsOrder* -
 - *ShowSplitFieldsInFieldList* -
 - *StoreInDFM* - DFM.

 TfcSlice :

 - *OnFieldsListSortCompare* - ;
 - *OnInterpreterCreated* -
 ;
 - *OnStartChange* -
 ;

- *OnStopChange* -

;

- *OnSliceChanged* -

;

- *OnBeforeRemoveSliceFieldFromRegion* -

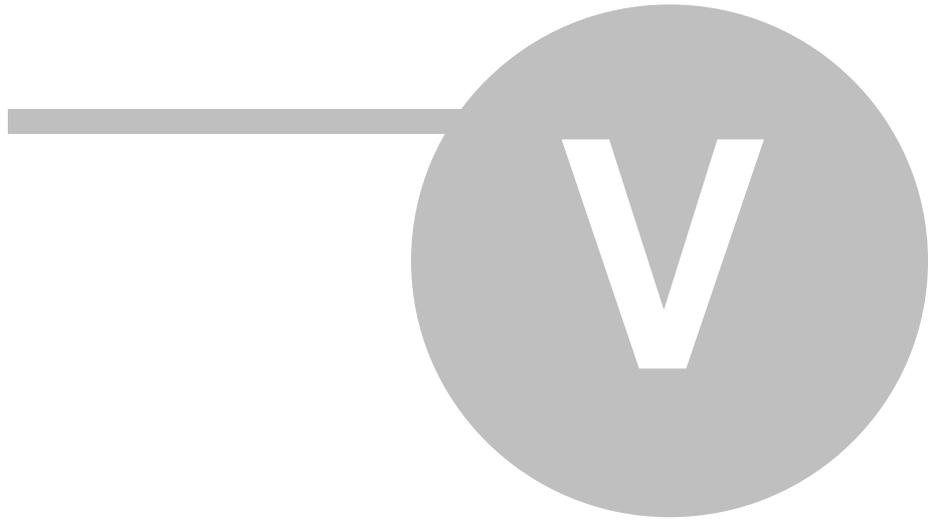
;

- *OnBeforeAddedSliceFieldToRegion* -

;

- *OnAfterAddedSliceFieldToRegion* -

;



■

```

TfcGrid ( - ) -
(
)
TfcSlice ( ),

TfcGrid = class(TfcCustomGrid)
public
constructor Create(AOwner: TComponent); override;
destructor Destroy; override;
function ExecuteAction(Action : TBasicAction) : Boolean; override;
procedure AdjustClientRect(var ARect: TRect); override;
procedure UpdateGrid; override;
procedure DragDrop(Source: TObject; X, Y: Integer); override;
procedure DragCanceled; override;
procedure Open;
procedure Close;
procedure SaveSchemeToFile;
procedure LoadSchemeFromFile;
procedure SaveCubeToFile;
procedure LoadCubeFromFile;
procedure DoExportTo(const AFormat: TfcExportFormat; ACloneMasterValue:
boolean = False);
procedure UpdateSelection;
procedure SelectCell(ACol, ARow: integer; AMakeVisible: boolean;
ACalcRowHeight: Boolean = False);
property FieldEditor: TfcFieldEditor read FFieldEditor;
property SelectedFact: Integer read GetSelectedFact;
property CanOperate: Boolean read GetCanOperate;
property GridCanvas: TCanvas read GetCanvas;
published
property OnChange: TNotifyEvent read FOnChange write FOnChange;
property OnGetDimDetail: TfcGridGetDimDetailEvent read FOnGetDimDetail write
FOnGetDimDetail;
property OnDataDbClick: TfcGridDataDbClickEvent read FOnDataDbClick write
FOnDataDbClick;

property OnGetFieldImageIndex: TfcGridGetFieldImageIndexEvent read
FOnGetFieldImageIndex write FOnGetFieldImageIndex;
property OnGetAxisImageIndex: TfcGetAxisImageIndexEvent read
FOnGetAxisImageIndex write FOnGetAxisImageIndex;
property OnGetCellImageIndex: TfcGetCellImageIndexEvent read
FOnGetCellImageIndex write FOnGetCellImageIndex;

```

property OnUpdateSelection: TNotifyEvent **read** FOnUpdateSelection **write** FOnUpdateSelection;
property OnDrawCell: TfcGridDrawCellEvent **read** FOnDrawCell **write** FOnDrawCell;
property OnDrawAxisItem: TfcGridDrawAxisItemEvent **read** FOnDrawAxisItem **write** FOnDrawAxisItem;
property OnSaveCube: TNotifyEvent **read** FOnSaveCube **write** FOnSaveCube;
property OnSaveScheme: TNotifyEvent **read** FOnSaveScheme **write** FOnSaveScheme;
property OnLoadCube: TNotifyEvent **read** FOnLoadCube **write** FOnLoadCube;
property OnLoadScheme: TNotifyEvent **read** FOnLoadScheme **write** FOnLoadScheme;
property OnExportTo: TfcExportEvent **read** FOnExportTo **write** FOnExportTo;

property DefaultSchemePath: string **read** FDefaultSchemePath **write** FDefaultSchemePath;
property DefaultCubePath: string **read** FDefaultCubePath **write** FDefaultCubePath;
property DefaultExportPath: string **read** FDefaultExportPath **write** FDefaultExportPath;

property DefaultRowHeight: Integer **read** GetDefaultRowHeight **write** SetDefaultRowHeight **default** 18;
property DefaultColWidth: Integer **read** GetDefaultColWidth **write** SetDefaultColWidth **default** 80;
property DefaultItemWidth: Integer **read** FDefaultItemWidth **write** SetDefaultItemWidth **default** 100;
property Options: TfcGridOptions **read** FOptions **write** SetOptions **default** GridDefaultOptions;

property FieldsImages: TCustomImageList **read** FFieldsImages **write** SetFieldsImages;
property AxisImages: TCustomImageList **read** FAxisImages **write** SetAxisImages;
property CellImages: TCustomImageList **read** FCellImages **write** SetCellImages;
property Active;
property Styles;
property Slice;
property Align;
property Anchors;
property Constraints;
property Ctl3D;
property Enabled;
property Font;
property ParentCtl3D;
property ParentFont;
property PopupMenu;
property TabOrder;

```

property TabStop;
property Visible;
end;

```

```

TfcGrid
:
- Open -
- Close -
- SaveSchemeToFile -
.
- LoadSchemeFromFile -
.
- SaveCubeToFile -
.
- LoadCubeFromFile -
.
- DoExportTo -
1.
- UpdateSelection - SelectedCol, SelectedRow,
SelectedFact - TfcSlice.
- SelectCell -
.
.
1: .xls .doc html
.

```

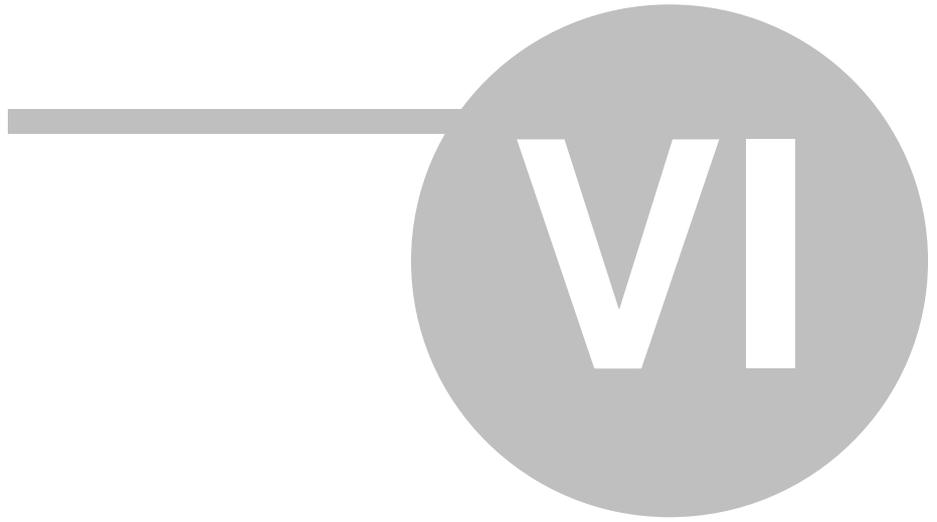
```

TfcGrid
:
- FieldsImages - ImageList
- AxisImage - ImageList
- CellImages - ImageList
.
- SelectedFact -
- DefaultRowHeight -
- DefaultColWidth -
- DefaultItemWidth -
mdgoYCaptionHooked,
DefaultColWidth.
- CanOperate -
-
- GridCanvas -
- Options -
- mdgoYCaptionHooked - ( ) Y
- mdgoResizeOnChange - Y
- mdgoServiceRegion -

```

- mdgoToolRegion -			
- mdgoShowHints -			
- mdgoRightClickSelect -			
- mdgoShowCaption -			
- mdgoDrillThroughOnDbClick -			
- mdgoYAxisScroller -		Y (
- mdgoAutoHeight -			
- mdgoDisableXAxisChange -		X.	
- mdgoDisableYAxisChange -		Y.	
- mdgoDisablePageChange -			
- mdgoDisableDataChange -			
- mdgoCloneMasterValueOnExport -			
- mdgoChangeOrderByClick -			
- <i>Active</i> -	True	Open,	False
Close.			
- <i>Slice</i> -			
- <i>Styles</i> -			
- <i>DefaultSchemePath</i> -			
- <i>DefaultCubePath</i> -			
- <i>DefaultExportPath</i> -			
TfcGrid	:		
- <i>OnChange</i> -			
- <i>OnGetDimDetail</i> -			mdgoShowHints
- <i>OnDataDbClick</i> -			
- <i>OnGetFieldImageIndex</i> -			<i>FieldsImages</i>
- <i>OnGetAxisImageIndex</i> -			<i>AxisImages</i>
- <i>OnGetCellImageIndex</i> -			<i>CellImages</i>
- <i>OnUpdateSelection</i> -			
- <i>OnDrawCell</i> -			
- <i>OnDrawAxisItem</i> -			
- <i>OnSaveCube</i> -			
- <i>OnSaveScheme</i> -			
- <i>OnLoadCube</i> -			

- *OnLoadScheme* -
- *OnExportTo* -



TfcChart -

TeeChart

TfcChart

```

TfcCustomChart = class(TCustomChart)
public
  constructor Create(AOwner: TComponent); override;
  destructor Destroy; override;
  function ExecuteAction(Action: TBasicAction): Boolean; override;
  procedure Updated; override;
  procedure FillFacts(Items: TStrings);
  procedure AddToUpdates(Obj: TObject);
  procedure RemoveFromUpdates(Obj: TObject);
  procedure SaveToStream(Stream: TStream);
  procedure LoadFromStream(Stream: TStream);
  procedure SaveTemplate(DefaultDirectory: string = "");
  procedure LoadTemplate(DefaultDirectory: string = "");

  property Slice: TfcSlice read FSlice write SetSlice;
  property Active: Boolean read FActive write SetActive;
  property Is1D: Boolean read FIs1D;

  property SeriesType: TChartSeriesClass read FSeriesType write SetSeriesType;
  property AxisType: TfcChartAxisType read FAxisType write SetAxisType;
  property LogType: TfcChartLogType read FLogType write SetLogType;
  property MarksShowStyle: TfcMarksShowStyle read FMarksShowStyle write
    SetMarksShowStyle;
  property AllSeriesMarksStyle: TSeriesMarksStyle read FAllSeriesMarksStyle
    write SetAllSeriesMarksStyle;
  property CanSelectFact: Boolean read FCanSelectFact;
  property SelectedFact: Integer read FSelectedFact write SetSelectedFact;
  // events
  property OnChangeChart: TNotifyEvent read FChangeChart write FChangeChart;
end;

```

TfcChart

:

- *FillFacts* -
- *AddToUpdates* -
- *RemoveFromUpdates* -
- *SaveToStream* -
- *LoadFromStream* -
- *SaveTemplate* -

- *LoadTemplate* -

TfcChart :

- *Slice* -

- *Active* - ,

- *IsID* - /

- *SeriesType* -

- *AxisType* - , atByCols

X, Y.

- *MarksShowStyle* -

ssNone - ;

ssHint - ;

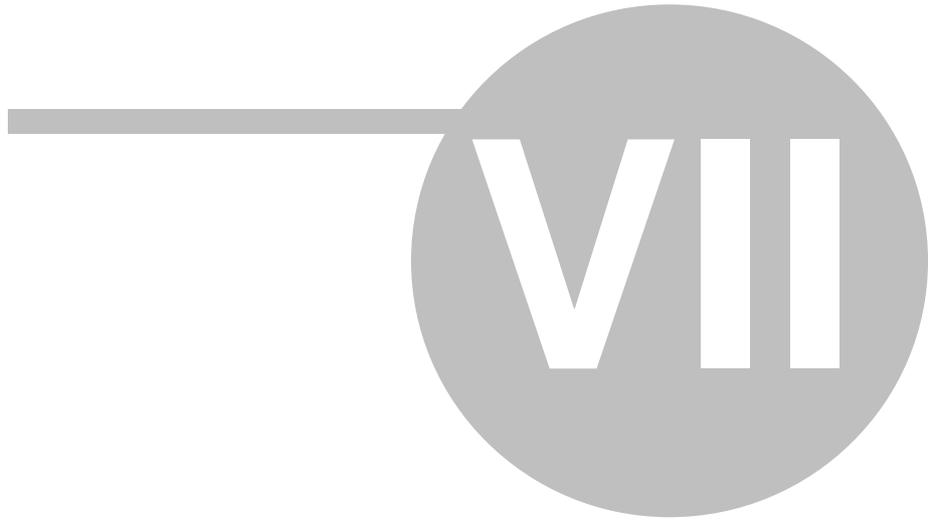
ssAlways -

- *CanSelectFact* - ,

- *SelectedFact* - ,

TfcChart :

- *OnChangeChart* -

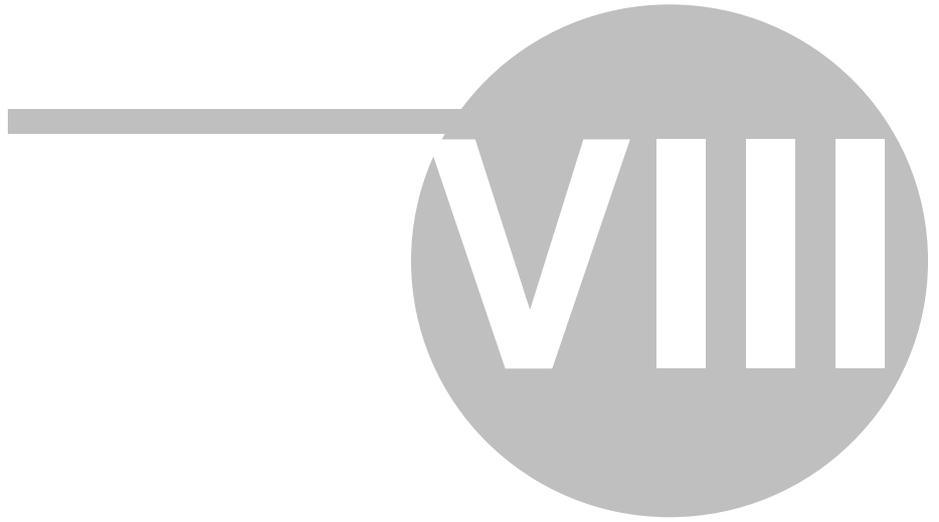


```

-          ,
          (TfcToolBar)          .          Grid,
          (TfcChartToolBar)      Chart.

TfcToolBar = class(TToolBar)
published
  property Grid : TfcGrid read FGrid write SetGrid;
  property Options : TfcToolBarButtons read FButtons write SetButtons;
end;

TfcChartToolBar = class(TToolBar)
published
  property Chart: TfcCustomChart read FChart write SetChart;
end;
```



■

TfcGridReport -
FastReport.

```
TfcGridReport = class(TComponent)
public
  procedure PrintPreview;
  function Print: Boolean;

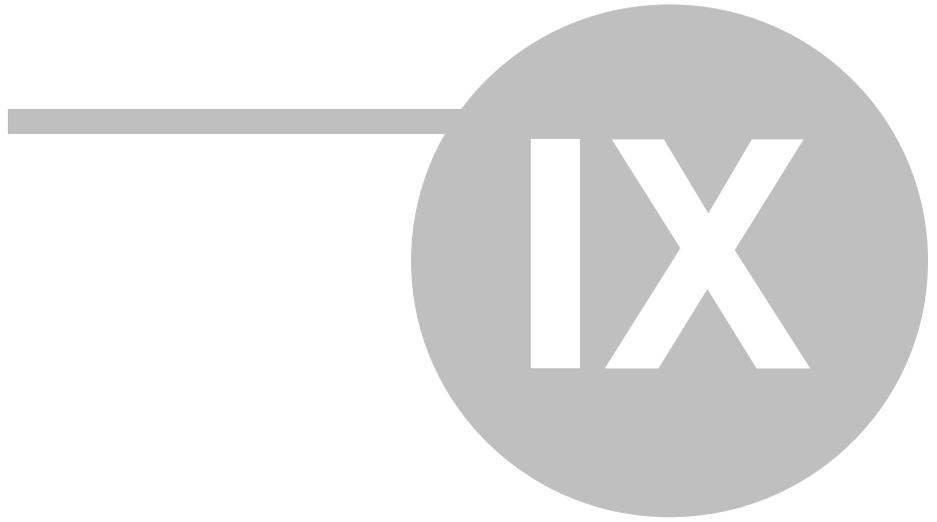
  constructor Create(AOwner: TComponent); override;
  destructor Destroy; override;
published
  property Grid: TfcGrid read FGrid write FGrid;
  property PaintSizes: TfcCubeCrossPaintSizes read FPaintSizes write SetPaintSizes;
end;
```

```
TfcGridReport :
```

```
- PrintPreview -
- Print -
```

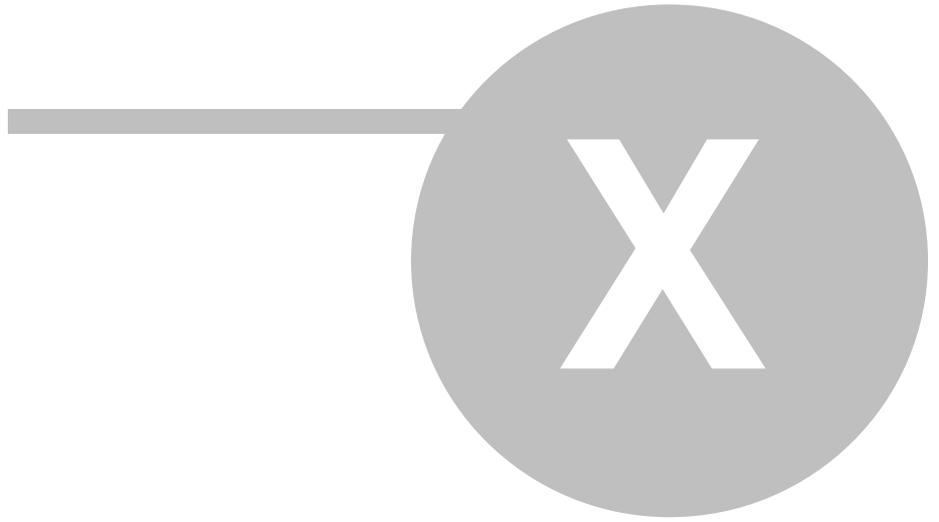
```
TfcGridReport :
```

```
- Grid -
- PaintSizes -
-      ).
```



```
TfrcComponents –
    frxFCComponents.pas , uses.
    TfrcCube TfrcCrossView) FastReport.
    FastCube (
TfrcComponents = class(TComponent)
public
    constructor Create(AOwner: TComponent); override;
    destructor Destroy; override;
    function GetDescription: String;
end;

    FastReport
    FastCube
TfrcComponents.
```



TfrcCube = class(TfrcDialogComponent)

FastReport

TfrcCube

. TfrcCube

TfrcCube = **class**(TfrcDialogComponent)

public

constructor Create(AOwner: TComponent); **override**;

destructor Destroy; **override**;

class function GetDescription: **String**; **override**;

property Cube: TfrcCube **read** GetCube **write** SetCube;

published

property Dataset: TfrcDataset **read** FDataset **write** SetDataset;

property FileName: **String** **read** GetFileName **write** SetFileName;

property Active: Boolean **read** GetActive **write** SetActive;

end;

TfrcCube

FastCube.

Active

True.

TfrcCube

Dataset : TfrcDataset -
TfrcDBDataset.

FileName : String -

Active : Boolean -

FastReport.

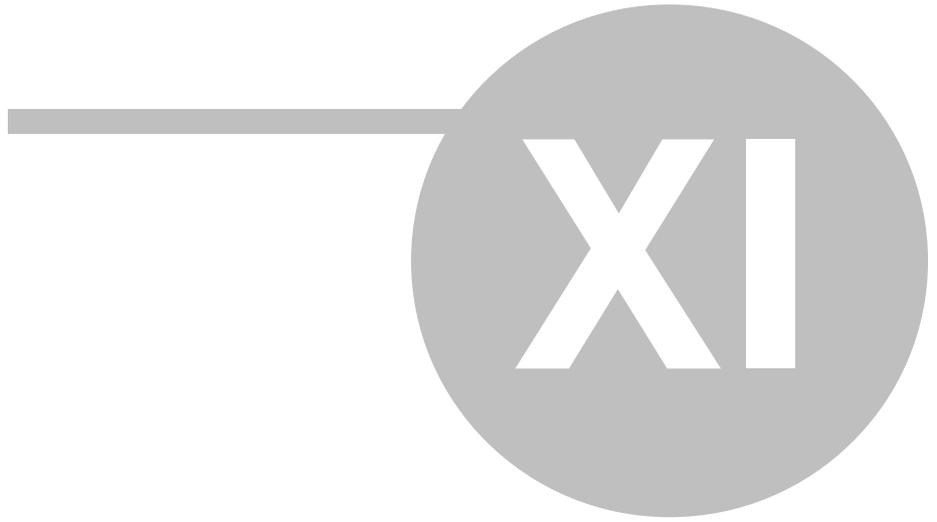
Active = True,

Dataset,

Active =

False

Cube: TfrcCube -



■

TfrcCrossView - (-)

```

TfrcCrossView = class(TfrxView)
public
  procedure ImportColorFromGrid(AfcGrid : TfcGrid);
  procedure ClearColorFromGrid;
  property Slice: TfcSlice read FSlice write SetSlice;
  property DotMatrix: Boolean read FDotMatrix;
  property OnBeforePrintCell: TfrxOnPrintCellEvent read FOnBeforePrintCell write
FOnBeforePrintCell;
  property OnBeforePrintColumnHeader: TfrxOnPrintHeaderEvent read
FOnBeforePrintColumnHeader write FOnBeforePrintColumnHeader;
  property OnBeforePrintRowHeader: TfrxOnPrintHeaderEvent read
FOnBeforePrintRowHeader write FOnBeforePrintRowHeader;
  property CellMemos[Index: Integer]: TfrxCustomMemoView read GetCellMemos;
  property CellHeaderMemos[Index: Integer]: TfrxCustomMemoView read
GetCellHeaderMemos;
  property ColumnMemos[Index: Integer]: TfrxCustomMemoView read
GetColumnMemos;
  property ColumnTotalMemos[Index: Integer]: TfrxCustomMemoView read
GetColumnTotalMemos;
  property CornerMemos[Index: Integer]: TfrxCustomMemoView read
GetCornerMemos;
  property RowMemos[Index: Integer]: TfrxCustomMemoView read GetRowMemos;
  property RowTotalMemos[Index: Integer]: TfrxCustomMemoView read
GetRowTotalMemos;
  property RowLevels: Integer read GetRowLevels;
  property ColumnLevels: Integer read GetColumnLevels;
  property CellLevels: Integer read GetCellLevels;
  property DefaultColWidthInternal: integer read GetDefaultColWidthInternal;
  property DefaultRowHeightInternal: integer read GetDefaultRowHeightInternal;
  property ColWidth[ACol: Integer]: integer read GetColWidth write SetColWidth;
  property RowHeight[ARow: Integer]: integer read GetRowHeight write
SetRowHeight;
  published
  property GapX: Integer read FGapX write FGapX default 3;
  property GapY: Integer read FGapY write FGapY default 3;
  property Border: Boolean read FBorder write FBorder default True;
  property Cube: TfrcCube read FCube write SetCube;
  property DownThenAcross: Boolean read FDownThenAcross write
FDownThenAcross;
  property RepeatHeaders: Boolean read FRepeatHeaders write FRepeatHeaders
default True;

```

```

property ShowColumnHeader: Boolean read FShowColumnHeader write
SetShowColumnHeader default True;
property ShowRowHeader: Boolean read FShowRowHeader write
SetShowRowHeader default True;
property ShowNames: Boolean read FShowNames write SetShowNames default
True;
property OnPrintCell: TfrxPrintCellEvent read FOnPrintCell write FOnPrintCell;
property OnPrintColumnHeader: TfrxPrintHeaderEvent read
FOnPrintColumnHeader write FOnPrintColumnHeader;
property OnPrintRowHeader: TfrxPrintHeaderEvent read FOnPrintRowHeader write
FOnPrintRowHeader;
property NextCross: TfrxCrossView read FNextCross write FNextCross;
property NextCrossGap: Extended read FNextCrossGap write FNextCrossGap;
property KeepTogether: Boolean read FKeepTogether write FKeepTogether default
False;
property PaintSizes: TfrcCubeCrossPaintSizes read FPaintSizes;
end;
TfrcCrossView                                TfrxView
- GapX: Integer -
- GapY: Integer -
- Border: Boolean -
- Cube: TfrcCube -
- DownThenAcross: Boolean -
- RepeatHeaders: Boolean -
- ShowColumnHeader: Boolean -
- ShowRowHeader: Boolean -
- ShowNames: Boolean -
- OnPrintCell: TfrxPrintCellEvent -
- OnPrintColumnHeader: TfrxPrintHeaderEvent -
- OnPrintRowHeader: TfrxPrintHeaderEvent -
- NextCross: TfrcCrossView -
- NextCrossGap: Extended -
- KeepTogether: Boolean -

```

False.

- *PaintSizes: TfrxCubeCrossPaintSizes* -

TfrxCubeCrossPaintSizes = **class**(TPersistent)

published

property AutoSizeStyle: TfrxCubeCrossAutoSizeStyle **read**

FAutoSizeStyle **write** SetAutoSizeStyle;

property MaxColWidth: Integer **read** FMaxColWidth **write**

FMaxColWidth;

property DefaultRowHeight: integer **read** FDefaultRowHeight **write**

SetDefaultRowHeight;

property DefaultColWidth: integer **read** FDefaultColWidth **write**

SetDefaultColWidth;

end;

- *AutoSizeStyle: TfrxCubeCrossAutoSizeStyle* -

- ssDefault - DefaultColWidth, DefaultRowHeight

- ssBySlice - " "

- ssAutoColWidth -

- ssAutoColWidthRestrict -

- ssAutoRowHeight -

- ssByMemoSize - memo-

- *MaxColWidth: Integer* - AutoSizeStyle =

ssAutoColWidthRestrict

- *DefaultRowHeight: integer* -

- *DefaultColWidth: integer* -

Public :

- *Slice: TfcSlice* - ,

- *DotMatrix: Boolean* - ,

CellMemos[Index: Integer]: TfrxCustomMemoView

CellHeaderMemos[Index: Integer]: TfrxCustomMemoView

ColumnMemos[Index: Integer]: TfrxCustomMemoView

ColumnTotalMemos[Index: Integer]: TfrxCustomMemoView

CornerMemos[Index: Integer]: TfrxCustomMemoView

RowMemos[Index: Integer]: TfrxCustomMemoView

RowTotalMemos[Index: Integer]: TfrxCustomMemoView

- *RowLevels: Integer* -
- *ColumnLevels: Integer* -
- *CellLevels: Integer* -
- *DefaultColWidthInternal: integer* -
 PaintSizes.AutoSizeStyle.
- *DefaultRowHeightInternal: integer* -
 PaintSizes.AutoSizeStyle.
ColWidth[ACol: Integer]: integer -
RowHeight[ARow: Integer]: integer -

Public :
- **procedure** ImportColorFromGrid(AfcGrid : TfcGrid) -
- **procedure** ClearColorFromGrid -

