Telerik RadGridView vse

x:Name="RadGridView"

Grid.Row="1"

Grid.Column="0"

Margin="0"

AutoExpandGroups="True"

AutoGenerateColumns="False"

BindableSelectedItems="{Binding SelectedItems, Mode=TwoWay}"

CanUserFreezeColumns="True"

CanUserResizeColumns="True"

Focusable="False"

GroupPanelBackground="LightBlue"

GroupRenderMode="Flat"

IsReadOnly="True"

IsSynchronizedWithCurrentItem="True"

ItemsSource="{Binding Motivlets}"

RowIndicatorVisibility="Collapsed"

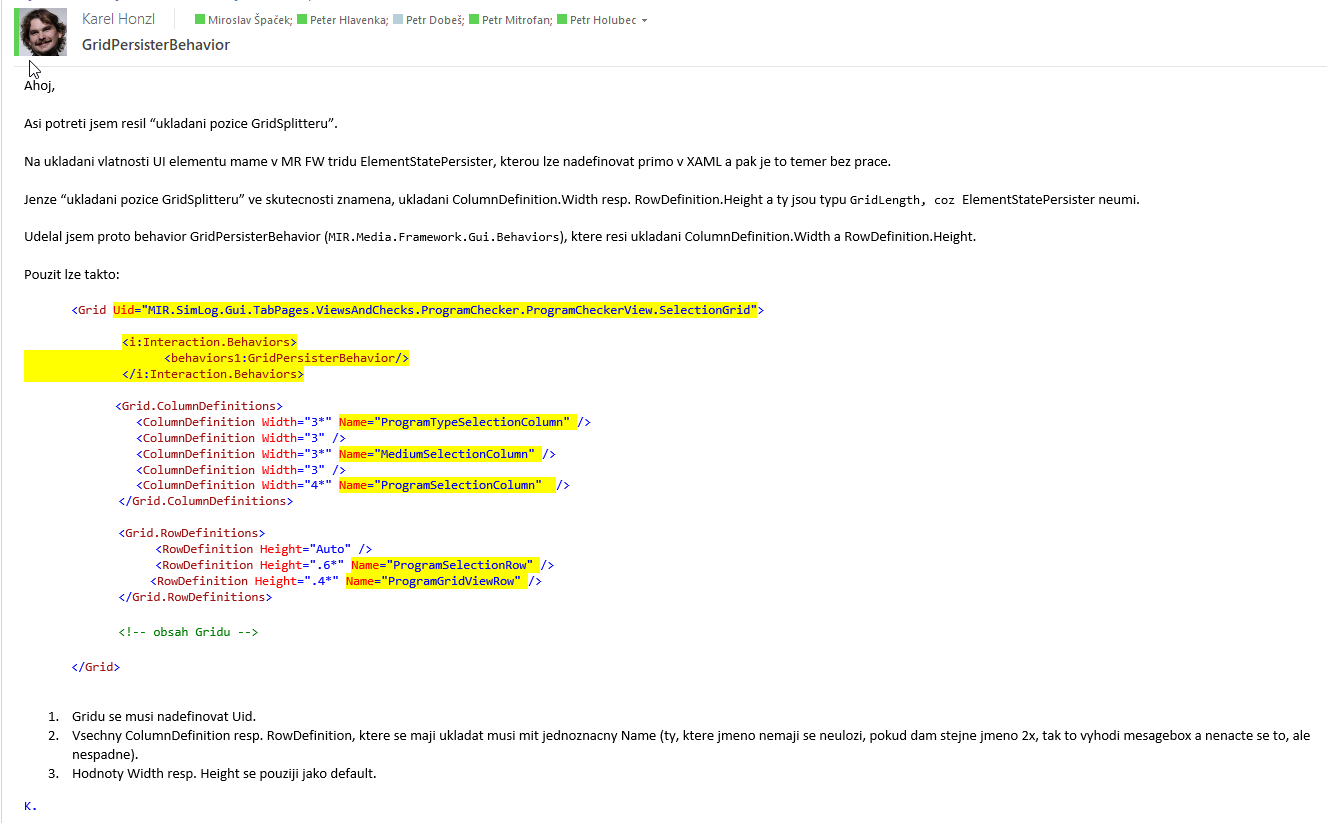
SelectedItem="{Binding SelectedItem}"

SelectionMode="Extended"

ShowColumnSortIndexes="True"

SelectionUnit="FullRow"

# ukladani pozice grid splitteru – nesouvisi uplne s radgridem, ale gridem obecne



# Nastaveni filtru na contains – zmena zpusobu filtrovani

Na radgridu pridame caliburni event

xmlns:cal=<http://www.caliburnproject.org>

<telerik:RadGridView

cal:Message.Attach="[Event FilterOperatorsLoading] = [Action OnRadGridViewFilterOperatorsLoading($eventArgs)]

a handler:

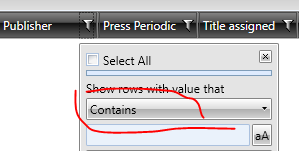
public void OnRadGridViewFilterOperatorsLoading(FilterOperatorsLoadingEventArgs e)

{

e.DefaultOperator1 = FilterOperator.Contains;

}

Zmena filtru se projevi jen na sloupcich, kde je string resp. kde neni napr datum:



# Kopirovani Selected\_Rows a zaroven Selected\_cells

Chceme, aby se radky vybirali na kliknuti do zahlavi. Zahlavi se zobrazuje takto (je visible defaultne):

RowIndicatorVisibility="Visible"

Musime nastavi mixed vybirani:

SelectionUnit="Mixed"

A aby se mi nekopirovaly prazdne radky (pri pastovani by pak byly mezery), nastavime:

ClipboardCopyMode="SkipEmptyRows"

Neni potreba posilat zadne eventy do modelu ani nic podobneho.

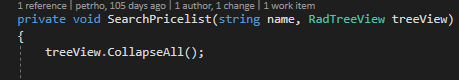
# grid.Rebind()

Po zmene ItemsSource slouzi na refresh gridu. Admin.CodebookGridViewModel

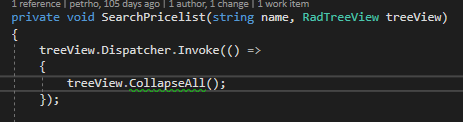
# Dispatcher

**Pricing - volam operaci na UI. Pouzivam primo dispatchera toho UI elementu (radTreeView, ale da se implementovat i na radGridView):**

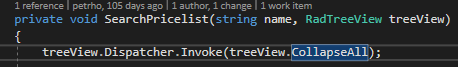
PriceListEditorViewModel.SearchPriceList puvodni kod:



**Reseni:**

****

**A to se da prepsat takto:**

****

**Funguje!**

**Priklad 1:**

V Normovadle jsem dostal tuto vyjimku, kdyz jsem chtel ve VM dostat scrollViewer z RadGridView.

Radgrid je na UIThreadu

Pouzit Dispatcher.CurrentDispatcher nepomohlo, ale zjistil jsem, ze kazdy UIElement ma sveho vlastniho Dispatchera.

Staci dat to co chci delat do Action (lambda vyrazu) dispatchera na radgridu:

public void RefreshAlliedMessages(int? normCreativeId, int? selectedMessageId = null)

{

if (normCreativeId == null) return;

var list = new List<int>();

**m\_radGridView.Dispatcher.Invoke(() =>**

{

var scrollViewer = m\_radGridView.ChildrenOfType<GridViewScrollViewer>().FirstOrDefault();

var offset = scrollViewer?.VerticalOffset;

if (SelectedAlliedMessages != null)

{

list = SelectedAlliedMessages.Select(d => d.Id).ToList();

}

AlliedMessages = new ObservableCollection<AlliedMessage>(MediaMessageDao.GetAlliedMessages(normCreativeId.Value));

if (AlliedMessages.Count == 0) return;

m\_radGridView.SelectedItems.Clear();

SelectedAlliedMessages = list.Count > 0 ? new List<AlliedMessage>(AlliedMessages.Where(d => list.Contains(d.Id))) : new List<AlliedMessage> { AlliedMessages[0] };

m\_radGridView.Select(SelectedAlliedMessages);

scrollViewer?.ScrollToVerticalOffset((double)offset);

**}, DispatcherPriority.ContextIdle);**

}

# Prepisuje se mi Clipboard podle kopirovaneho objektu kt. je na radku

<https://tfs.mediaresearch.cz/AdIntel/AdIntel/_workitems/edit/50263>

Binding nezobrazuje text, protoze se binduje na cely objekt.

TranslationEntityDisplayGridBaseViewModel

Selected cell ma jako Value cely objekt. Potrebuju jen Text a nemuzu se k nemu dostat. I kdyz jsem na event cellCopied nebo tak neco na radgridu, presel do metody na VM a mel tam spravne indentifikovany sloupec podle UniqueName, tak se mi Clipboard opet prepsal na ToString() objektu.

**Reseni:**

Telerikovskemu sloupci se musi nastavit DataMemberBinding.



# Ukladani uzivatelskeho nastaveni – pozice a schovavani sloupcu

Schovavani sloupcu

Pridam caliburni attach na otevirani okna s nastavovanim sloupcu:

xmlns:cal="http://www.caliburnproject.org"

cal:Message.Attach="[Event PreviewMouseRightButtonUp] = [Action GridViewMouseRightButtonUp($eventArgs)]"

Do userControlu pridam metodu na event Loaded:

Loaded="HandleViewLoaded"

<views:ColumnHidingPopupView

x:Name="Popup"

Width="Auto"

Height="Auto"

MaxWidth="600"

AllowsTransparency="True"

DataContext="{Binding Path=ColumnHidingRadGridViewViewModel.Columns}"

Placement="Mouse"

StaysOpen="False" />

**CodeBehind – na event loaded predam do viewModelu popup a radGrid:**

Obsluha eventu Loaded v CodeBehindu :

private void HandleViewLoaded(object sender, RoutedEventArgs e)

{

if (!(DataContext is MotivesInfoViewModel viewModel))

{

throw new InvalidOperationException($"DataContext of {GetType().Name} must be {typeof(MotivesInfoViewModel).Name}!");

}

viewModel.HandleOnViewLoaded(Popup, RadGridView);

}

**ViewModel (AlliedMessagesVM v normovadle nebo MotivesInfoViewModel v adminovi):**

private ColumnHidingPopupView m\_popupView;

private RadGridView m\_radGridView;

**Na ViewModelu musim mit propertu, na jejiz kolekci sloupcu se binduje datacontext popupu:**

public ColumnHidingRadGridViewViewModel ColumnHidingRadGridViewViewModel

{

get => m\_columnHidingRadGridViewViewModel;

set

{

m\_columnHidingRadGridViewViewModel = value;

NotifyOfPropertyChange(() => ColumnHidingRadGridViewViewModel);

}

}

**Obsluha eventu Loaded ve ViewModelu: Tady vytvorim instanci ColumnHiddingRadGridViewModel**

public void HandleOnViewLoaded(ColumnHidingPopupView popupView, RadGridView radGridView)

{

m\_popupView = popupView;

ColumnHidingRadGridViewViewModel = new ColumnHidingRadGridViewViewModel(radGridView);

}

**Obsluzni metoda otevirani okna s nastavovanim sloupcu:**

cal:Message.Attach="[Event PreviewMouseRightButtonUp] = [Action GridViewMouseRightButtonUp($eventArgs)]"

public void GridViewMouseRightButtonUp(MouseButtonEventArgs e)

{

if (Keyboard.Modifiers == ModifierKeys.Control)

{

m\_popupView.IsOpen = true;

e.Handled = true;

}

}

**DataContextem popupu ktery zobrazuje sloupce je properta Columns na tride ColumnHidingRadGridViewViewModel**.

**ColumnHidingRadGridViewViewModel:**

public GridViewColumnCollection Columns => m\_radGridView.Columns

**Aby se mi zobrazovali nazvy sloupcu, musim mit v xamlu radgridu definovany Header takto:**

<telerik:GridViewDataColumn DataMemberBinding="{Binding CategoryName}">

<telerik:GridViewDataColumn.Header>

<TextBlock Text="{x:Static localisation:Localisation.Category}" />

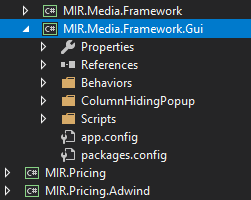
</telerik:GridViewDataColumn.Header>

</telerik:GridViewDataColumn>

**Timto bych mel mit zobrazeny popup ktery ma checkboxy a nazvy sloucu z meho radgridu**

Ukladani uzivatelkeho nastaveni (pozice + schovavani sloupcu) na disk

Tento behavior uz existuje v mnou vytvorenem projektu MIR.Media.Framework.Gui, ktery se da do sln naimportovat. Pozor, projekt jako MIR.Pricing, kt je na .net 4.5.2 nemuze nareferencovat projekt ktery ma 4.7.1. Reference musi byt nejen v projektu, ktery toto chovani pouziva, ale i ve **spoustecim projektu** tj Shellu.



Pouzite v Normovadle zalozka video, a v Admin - MotivesInfoView

**AlliedMessagesView**:

xmlns:i="http://schemas.microsoft.com/expression/2010/interactivity"

xmlns: s="clr-namespace:MIR.Media.Framework.Behaviors;assembly=MIR.Media.Framework"(Admin MotivesInfoView)

**Uvnitr RadGridView:**

<i:Interaction.Behaviors>

<behaviors:SaveColumnSettingBehavior />

</i:Interaction.Behaviors>

Do RadGridView musim zadat **Uid** aby mohl fungovat behavior:

Name="AlliedMessagesRadGridView"

Uid="MIR.Media.Norming.Controls.AlliedMessages.AlliedMessagesView.AlliedMessagesRadGridView"

**Tohle staci na to, aby se ukladala uzivatelem nastavena pozice a zobrazovani sloupcu.**

Komponenty, ktere slouzi ke schovavani sloupcu jsou v projektu MIR.Media.Framework.Gui

**SaveColumnSettingBehavior : Behavior<RadGridView>**

Pomoci eventu na zmeny sloupcu, uklada nastaveni radGridView na disk a zase ho nacita v metode OnLoaded()

# FilterDesriptors – Uchovani ve VM a nacteni

## Nejlepsi reseni – omyl nema to reseni. Hura ma to reseni !! Problem je ten, ze z worker threadu nejde notifikovat UI.

V Normovadle mi nesly resetnout filtry po refreshi ItemsSource. V Normovadle uz je reset filtru z kontextoveho menu, ktere delal nekdo jiny pomoci Utilities:ControlsExtensions.ClearFilters="{Binding ShouldClearGridFilters}"

**Reseni:**

cal:Message.Attach="[Event Filtered] = [Action HandleFiltered($eventArgs)]"

**Na event filtrovani ziskame radGrid a priradime si ho do promenne:**

public void HandleFiltered(object sender, GridViewFilteredEventArgs e)

{

if(sender is RadGridView view)

m\_radGridView = view;

}

**Pomoci dispatchera notifikujeme UI:**

public void ClearFilters()

{

m\_radGridView?.Dispatcher.Invoke(() =>

{

m\_radGridView?.FilterDescriptors.SuspendNotifications();

foreach (var column in m\_radGridView.Columns)

{

column.ClearFilters();

}

m\_radGridView?.FilterDescriptors.ResumeNotifications();

});

}

* Zacatek je napsany v ZASCROLLOVANI NA PREDCHOZI POZICI PRI REFRESNUTI ITEMSSOURCE - [ZASCROLLOVANI](#ZASCROLLOVANI)

## Predchozi reseni

(Admin.GridViewModel)

**Nesmi se nastavit objektova reference takhle : Descriptors = rad.FilterDescriptors. Musi se prekopirovat po jednom jinak se vzdy resetne.**

**Je dobre pouzit evet Filtered**

[Event Filtered] = [Action Filtered($source)]"

**Uchovani :**

private CompositeFilterDescriptorCollection **Descriptors** { get; set; }

cal:Message.Attach="[Event Filtered] = [Action Filtered($source)]"

public void Filtered(object sender)

{

var radGrid = sender as RadGridView;

**Descriptors** = new CompositeFilterDescriptorCollection();

**radGrid?.FilterDescriptors.ForEach(d => Descriptors.Add(d));**

}

**Vlozeni do UI:**

cal:Message.Attach="[Event Loaded] = [Action Loaded($source)]"

public void Loaded(object sender)

{

RadGridView = sender as RadGridView;

RadGridView?.Focus();

if (Offset > default(double))

{

var scrollViewer = RadGridView?.ChildrenOfType<GridViewScrollViewer>().FirstOrDefault();

scrollViewer?.ScrollToVerticalOffset(Offset);

}

if (Descriptors != null)

{

**RadGridView?.FilterDescriptors.AddRange(Descriptors);**

}

if (RadGridView != null)

{

RadGridView.SelectedItem = Item;

}

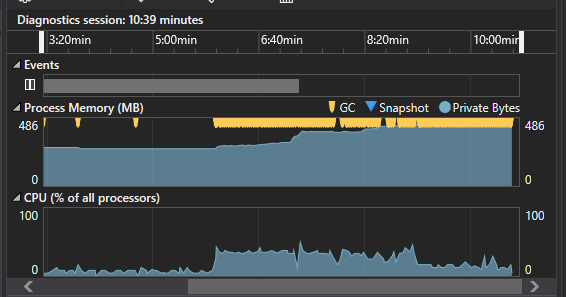
}

# Pomaly scrollBar

Ve spravovadle, zalozka Sprava Medii, po prekliknuti na Tv je pomaly horni radgrid. I event MouseOver trva treba sekundu. Pritom staci vzit mysi za scrollbar (radsi vickrat), posunout ho a uz vse funguje rychle.

When scrolling from top to bottom repeatedly using the down arrow key, the virtualization mechanism in the RadGridView needs to recalculate the vertical scrollbar position measuring the rows that come from the bottom. In the reverse direction when scrolling from bottom to top using the up arrow key repeatedly, the vertical scrollbar position needs to be recalculated as well.

Zatizi to CPU a zda se, ze je diky tomu pomala cela aplikace – treba I focus na buttony leze pomalu. Zvlastni je, ze pri nacteni Press je vse rychle hned a CPU zatez spadne



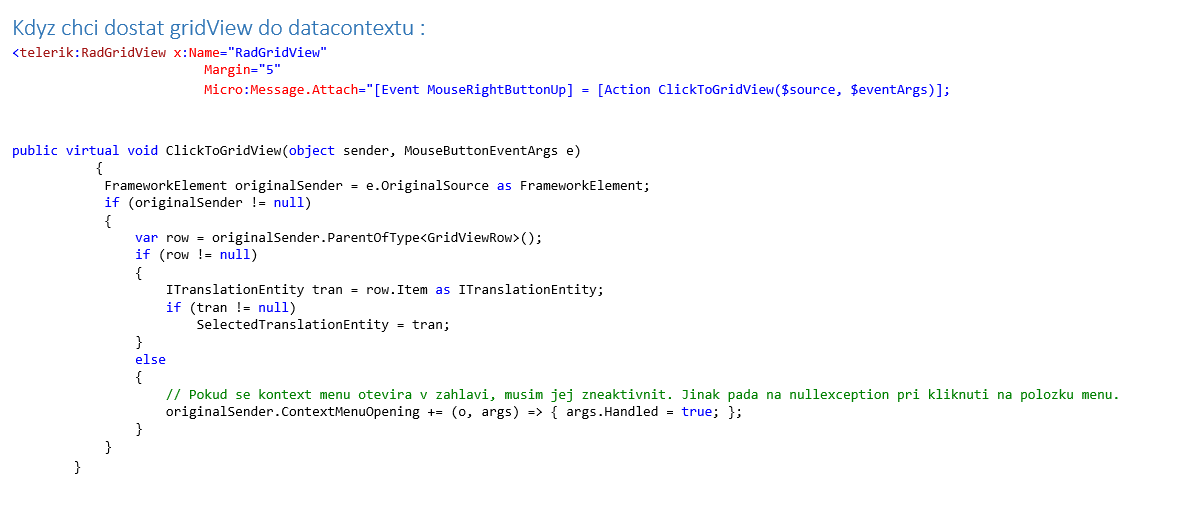
Asi to ma opet co delat s instalaci Telerik balicku ktere jsme resili v utery, protoze je to pomale uz v commitu cd46634ed2f2c3fe04d1690a483a830b7135440d .

**Reseni** zadne mozna bug na Teleriku ale radia ve Spravovadle jdou pomalu I s knihovnami ve slozce C:\Users\phlavenka\Desktop\Telerik knihovny ze Zmenovadla pro ExcelExport funkcni\Knihovny ze Spravovadla

Pouzit export do xls a nechat stare knihovny.

Jinak jsou v C:\Pool\Admosphere\lib\Telerik\Telerik.Windows.Controls.dll

# Jak dostat radgrid do ViewModelu



Lepsi je pouzit event Loaded

; [Event Loaded] = [Action Loaded($source)]

A pak jen

public void Loaded (object sender){

RadGridView = sender as RadGridView;

# Jak Lokalizovat filtry

<https://docs.telerik.com/devtools/wpf/common-localization#resource-keys>

**Vytvorime v Gui dva resx soubory:**

Gui => Add => NewItem => Resources File

(v nazvu musim nechat priponu .resx)b

• **GridViewResources.resx** - this resource file will store the **English(default)** resources for the grid control. Set the **AccessModifier** property to **Public**.

• **GridViewResources.cs-CZ.resx** - this resource file will store the **Czech** resources for the grid control. Set the **AccessModifier** property to **No code generation**.

**V Bootstrapperu pridam do metody ConfigureLanguage() :**

LocalizationManager.Manager = new LocalizationManager()

{

ResourceManager = GridViewResources.ResourceManager

};

For a full list of resource keys, check out the Localization topic for the specific control.

Naplneny resx cesky a anglicky je ve zmenovadle

**Normovadlo:**

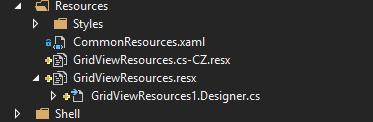
Staci pridat do projekdu ve kterem je radgrid nejlepe do slozky Resources uz hotovy item ze zmenovadla

Add-> existingItem -> C:\Pool\Admosphere\src\MIR.Media\MIR.Media.Changing2\MIR.Media.Changing2.Gui\**GridViewResources.cs-CZ.resx**

Add-> existingItem -> C:\Pool\Admosphere\src\MIR.Media\MIR.Media.Changing2\MIR.Media.Changing2.Gui\**GridViewResources.resx**

Anglicke verzi nastavim modifier na public

Designer se vytvori sam pri spusteni a bude uvnitr anglicke public verze:



V Bootstrapperu vytvorim metodu ConfigureLanguage() a vlozim do ni to co je nahore v navodu.

Jazyk je zobrazeny podle default language ve windows

**Hack**

Pokud nejde cestina muzu si zmenit jazyk windows na slovenstinu a resx prejmenovat na sk-SK (na vyzkouseni)

# Grid bez hor. a vert. car

HorizontalGridLinesBrush="Transparent"

VerticalGridLinesBrush="Transparent"

# Kuba lerl jaky grid vybrat

[‎12/‎8/‎2017 12:51 PM] Peter Hlavenka:

Ahoj prosim Te odkud bereme Teleriky potrebuju DataGrid mame v FW nejake balicky ale nevim ve kt. je datagrid

[‎12/‎8/‎2017 12:52 PM] Jakub Lerl:

no to zalezi

my jsme si udelali balicek pro diagramy a druhej balicek pro richtextbox

[‎12/‎8/‎2017 12:52 PM] Peter Hlavenka:

mam pry pouzit datagrid od Teleriku jako je vsude

[‎12/‎8/‎2017 12:53 PM] Jakub Lerl:

napr?

[‎12/‎8/‎2017 12:53 PM] Peter Hlavenka:

Je to na zmenovadlo budou tam radky s motivletama

to nevim takhle to rekli mne ...

[‎12/‎8/‎2017 12:54 PM] Jakub Lerl:

chapu :D

"je to jeden radek, to je hned"  
"pouzij kod co uz mame, nic to nezabere"  
"jenom to zkopiruj"

:D

[‎12/‎8/‎2017 12:55 PM] Peter Hlavenka:

:D

[‎12/‎8/‎2017 12:55 PM] Jakub Lerl:

no telerik ma tech gridu vic

  [GridView](https://docs.telerik.com/devtools/wpf/controls/radgridview/overview2)

  [VirtualGrid](https://docs.telerik.com/devtools/wpf/controls/radvirtualgrid/overview)

  [ListBox](https://docs.telerik.com/devtools/wpf/controls/radlistbox/overview)

  [PivotGrid](https://docs.telerik.com/devtools/wpf/controls/radpivotgrid/overview)

  [PropertyGrid](https://docs.telerik.com/devtools/wpf/controls/radpropertygrid/overview)

[‎12/‎8/‎2017 12:55 PM] Peter Hlavenka:

Pikacu volim si tebe :)   Takze asi GridView

[‎12/‎8/‎2017 12:57 PM] Jakub Lerl:

Helezkusit**Telerik.Diagrams**Jsou tam nejaky dllky navic takze ti potom muzu udelat balicek primo na miru. Po instalaci balicku bys mel mit v references tyhle tri knihovny

            Telerik.Windows.Controls.GridView

            Telerik.Windows.Data

            Telerik.Windows.Controls.Input

zdroj. https://docs.telerik.com/devtools/wpf/installation-and-deployment/deploying-telerik-ui/installation-installing-dependencies-wpf

[‎12/‎8/‎2017 12:58 PM] Peter Hlavenka:

dekuju

[‎12/‎8/‎2017 12:58 PM] Jakub Lerl:

jinak pokud si chces balicek udelat sam, ty dllky jsou v c:\Pool\Framework\lib\Telerik\

kdyby neco napis

[‎12/‎8/‎2017 12:58 PM] Peter Hlavenka:

tak dobrej nejsem

Tuto konverzaci jsme uložili. Brzo ji najdete na kartě Konverzace ve Skypu pro firmy a ve složce Historie konverzací v Outlooku.

[‎12/‎8/‎2017 3:55 PM] Peter Hlavenka:

Prosim Te ty mas Telerik v malicku  : Zkousim ten grid, udelal jsem si zkusebni kolekci a dal ji gridu jako source. Kdyz pouziju INotify tak jsou sloupce podle propert objektu v kolekci . Kdyz ale pouziju Caliburn a Screen mam navic sloupce Parent , DisplayName, IsActive a IsInitialized coz jsou property na Screenu. Nevis proc?

[‎12/‎8/‎2017 3:56 PM] Jakub Lerl:

jako proc tam ty property jsou ?

[‎12/‎8/‎2017 3:57 PM] Peter Hlavenka:

no to fakt netusim

viewModel dedim od Screenu

[‎12/‎8/‎2017 3:57 PM] Jakub Lerl:

jj

a ty bys tam ty property nechtel mit?

[‎12/‎8/‎2017 3:58 PM] Peter Hlavenka:

nee

[‎12/‎8/‎2017 3:58 PM] Jakub Lerl:

no caliburni trida Screen je uplne jina 3rd party dllka

[‎12/‎8/‎2017 3:58 PM] Peter Hlavenka:

no asi se s tim da zit proste implementuju INofify rucne ale je to divne

[‎12/‎8/‎2017 3:59 PM] Jakub Lerl:

caliburn co pouzivame nam usnadnuje praci s instancovanim View pri implementaci MVVM patternu a ma tam spoustu uzitecnych metod ktery se volaj pri ruznym UI akich

https://caliburnmicro.codeplex.com/wikipage?title=Screens,%20Conductors%20and%20Composition

[‎12/‎8/‎2017 4:00 PM] Peter Hlavenka:

ten grid bude stejne jen v hlavnim okne takze nemusi dedit od Screenu jen jsem chtel vedet proc to dela

[‎12/‎8/‎2017 4:02 PM] Jakub Lerl:

DispalyName se treba zobrazuje jako HeaderOkna kdyz ViewModel zobrazit pomoci WindowManagera, IsActive je proprta ktera ti rika zda view daneho ViewModelu je attachnute k jinemu view

atp

ale neni treba za vsech okolnosti pouzivat screen, je to jen standardni implementace

[‎12/‎8/‎2017 4:02 PM] Peter Hlavenka:

ok dekuju

[‎12/‎8/‎2017 4:06 PM] Peter Hlavenka:

ale musim rict ze se mi ten grid hodne libi hlavne filtrovani. Da se nejak premluvit aby mluvil lokalizovane?

[‎12/‎8/‎2017 4:09 PM] Jakub Lerl:

uprimne netusim, kazdopadne telerik ma docela prehledne resenou dokumentaci https://docs.telerik.com/devtools/wpf/controls/radgridview/overview2  na vsechny telerik componenty )

dokonce na tebe mysleli   
https://docs.telerik.com/devtools/wpf/controls/radgridview/localization/localization2

:D

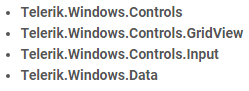
[‎12/‎8/‎2017 4:09 PM] Peter Hlavenka:

dik

# Vlozeni gridu do aplikace

<https://docs.telerik.com/devtools/wpf/controls/radgridview/getting-started/getting-started2>

* V xamlu musim definovat jmenny prostor xmlns:telerik="http://schemas.telerik.com/2008/xaml/presentation"
* Potrebujeme reference na



* Property které se daji nastavit (zmenovadlo, DataView)

x:Name="RadGridView"

Grid.Row="1"

Grid.Column="0"

Margin="0"

AutoExpandGroups="True"

AutoGenerateColumns="False"

BindableSelectedItems="{Binding SelectedItems, Mode=TwoWay}"

CanUserFreezeColumns="True"

CanUserResizeColumns="True"

Focusable="False"

GroupPanelBackground="LightBlue"

GroupRenderMode="Flat"

IsReadOnly="True"

IsSynchronizedWithCurrentItem="True"

ItemsSource="{Binding Motivlets}"

RowIndicatorVisibility="Collapsed"

SelectedItem="{Binding SelectedItem}"

SelectionMode="Extended"

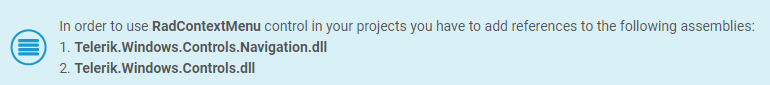
ShowColumnSortIndexes="True"

SelectionUnit="FullRow"

# Kontextove menu

<https://docs.telerik.com/devtools/wpf/controls/radcontextmenu/how-to/use-radcontextmenu-with-radgridview>

**Potrebujeme nugety:**



## ContextMenu z Pricingu , Mergenute dictionary

V Pricingu je prehledny zpusob. Mame tridu ve ktere je RadGridView – TelevisionMessageBrowserView a pak xaml se styly a kontextovym menu – MessageBrowserDictionary.

<UserControl

x:Class="MIR.Pricing.MessagePricing.MessageBrowsing.Television.TelevisionMessageBrowserView"

xmlns:cal="http://www.caliburnproject.org"

xmlns:telerik="http://schemas.telerik.com/2008/xaml/presentation">

<UserControl.Resources>

<ResourceDictionary>

<ResourceDictionary.MergedDictionaries>

<ResourceDictionary Source="../../MessageBrowsing/MessageBrowserDictionary.xaml" />

</ResourceDictionary.MergedDictionaries>

</ResourceDictionary>

</UserControl.Resources>

<Grid>

<telerik:RadGridView

Name="PricedItems"

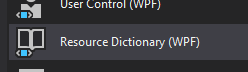
cal:Message.Attach="[Event Copied] = [Action SetClipboardDataFormat()]; [Event SelectionChanged] = [Action PricedItemsSelectionChanged(PricedItems.SelectedItems)]"

ContextMenu="{StaticResource baseMenu}">

<telerik:RadGridView.Columns>...

## Postup pouzity v Normovadle, AlliedMessagesView (predelani gridu v zalozce Video)

* Add -> newItem -> ResourceDictionary



<ResourceDictionary xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"

xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"

xmlns:local="clr-namespace:MIR.Media.Norming.Controls.AlliedMessages"

xmlns:telerik="http://schemas.telerik.com/2008/xaml/presentation"

xmlns:cal="http://www.caliburnproject.org"

xmlns:Localisation="clr-namespace:MIR.Media.Framework.Localisation;assembly=MIR.Media.Framework">

<ContextMenu x:Key="AlliedMessagesContextMenu">

<MenuItem cal:Message.Attach="[Event Click] = [Action CopyToClipBoard]" Header="{Localisation:TranslateExtension Key=Copy}">

<MenuItem.Icon>

<Image

Height="16"

Source="../../Icons/lv\_copy.ico" />

</MenuItem.Icon>

</MenuItem>

</ContextMenu>

</ResourceDictionary>

* Reknu userControlu kde mam RadGrid, ze se ma divat do dictionary

<UserControl.Resources>

<ResourceDictionary>

<ResourceDictionary.MergedDictionaries>

<ResourceDictionary Source="AlliedMessagesDictionary.xaml"></ResourceDictionary>

</ResourceDictionary.MergedDictionaries>

</ResourceDictionary>

</UserControl.Resources>

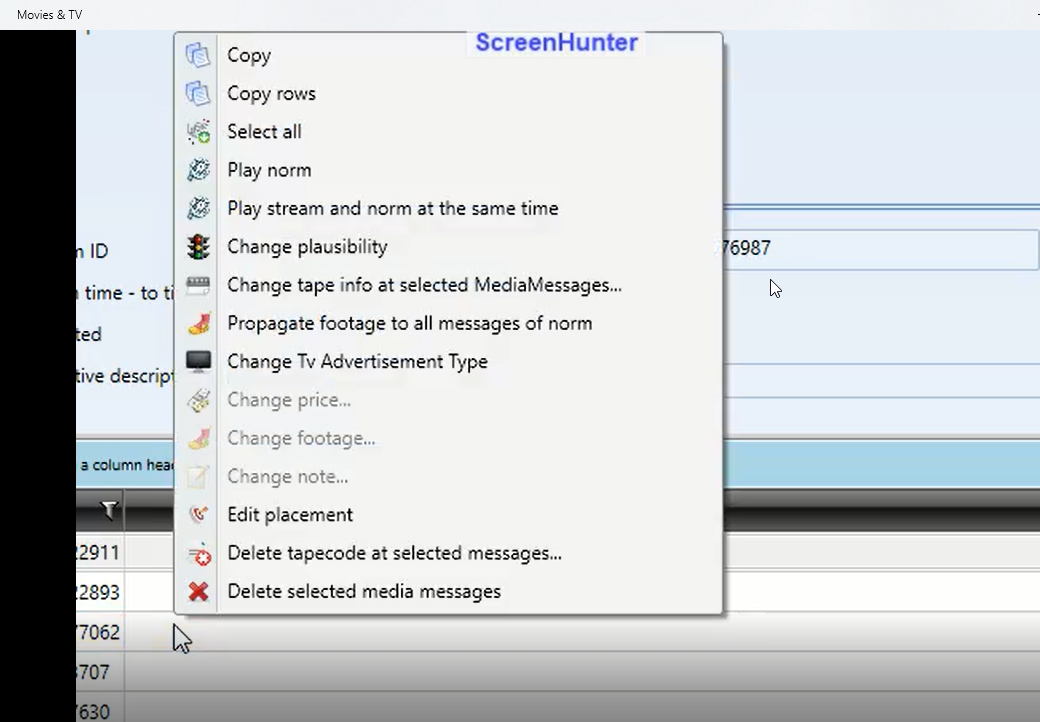
* Reknu radGridu, kde ma kontextove menu

<telerik:RadGridView

Name="LvAlliedMessages"

ContextMenu="{StaticResource AlliedMessagesContextMenu}"

* Kazdy MenuItem v Dictionary ma svuj Caliburn Attach kterym se dostane do metody ve ViewModelu .



## Nested Menu do kontextoveho menu (Normovadlo - AlliedMessagesView)

Abych zachoval MVVM musim pouzit metodu v CodeBehindu

Loaded="HandleViewLoaded"

/// <summary>

/// Je potreba udelat takto, protoze Caliburn nedovoli poslat jiny element nez zdroj jako parametr (coz je spravne. Dalo by se preprat, ale kdyz to takto mrvime, tak do toho netahejme caliburn)

/// </summary>

private void HandleViewLoaded(object sender, RoutedEventArgs e)

{

if(!(DataContext is AlliedMessagesViewModel viewModel))

throw new InvalidOperationException($"DataContext of {GetType().Name} must be {typeof(AlliedMessagesViewModel).Name}!");

var menu = AlliedMessagesRadGridView.ContextMenu;

if (menu != null)

{

var bChangeTvAdvertisementType = LogicalTreeHelper.FindLogicalNode(menu, "bChangeTvAdvertisementType") as MenuItem;

var miChangePlacement = LogicalTreeHelper.FindLogicalNode(menu, "bChangeTvAdvertisementType") as MenuItem; **// Timto ziskame z hlavniho kontextoveho menu item na kterem ma byt subMenu**

viewModel.**HandleOnViewLoaded**(AlliedMessagesRadGridView, bChangeTvAdvertisementType, popup, miChangePlacement); **// Tyto MenuItemy predam do ViewModelu, kde se pro ne bude tvorit subMenu**

}

}

**Vytvoreni SubMenu ve ViewModelu**

Z CodeBehindu se vola metoda na ViewModelu - HandleOnViewLoaded

public void **HandleOnViewLoaded**(RadGridView radGridView, MenuItem buttonChangeTvAdvertisementType, ColumnHidingPopupView popupView, MenuItem changePlacementMenuItem)

{

m\_owner = Container.Container.Current.Resolve<Window>("mainWindow");

m\_radGridView = radGridView;

m\_buttonChangeTvAdvertisementType = buttonChangeTvAdvertisementType;

m\_popupView = popupView;

m\_changePlacementMenuItem = changePlacementMenuItem;

ColumnHidingListViewViewModel = new ColumnHidingListViewViewModel(m\_messagesListView) { HiddenColumns = HiddenColumns }; // tohle je zatim spatne

**InitializeContextMenus()**;

}

public void **InitializeContextMenus**()

{

**ConstructChangePlausibilityContextMenu**();

ConstructChangePlacementContextMenu();

}

private void **ConstructChangePlausibilityContextMenu**()

{

List<MenuItem> result = new List<MenuItem>();

foreach (var item in CodingPlausibilities)

{

var changePlausibilitySubmenuItem = new MenuItem { Header = item.Name, Tag = item };

changePlausibilitySubmenuItem.Click += ChangePlausibilitySubmenuItemClick;

result.Add(changePlausibilitySubmenuItem);

}

ConcretePlausibilityMenuItems = result;

}

public void HandleContextMenuOpening()

{

**ConstructChangeTvAdvertisementTypeMenu**();

}

private void **ConstructChangeTvAdvertisementTypeMenu**()

{

Window parentWindow = Window.GetWindow(m\_messagesListView);

if (parentWindow == null)

return;

//**TODO: zjednodusena verze ... predelat**

IEnumerable<object> advertisementTypes = GetAllowedAdvertisementTypesNew(SelectedAlliedMessages, AdvertisementTypeDao);

new ChangeTvAdvertisementTypeContextMenuConstructorNew(parentWindow, m\_buttonChangeTvAdvertisementType, MediaMessageDao, this).ConstructMenuItem(advertisementTypes);

}

Tato metoda zajisti, ze se RadGridView dostane do codeBehindu.

Tam je properta typu RadGridView private RadGridView m\_radGridView;

Z CodeBehindu se vola metoda na ViewModelu - HandleOnViewLoaded

public void HandleOnViewLoaded(RadGridView radGridView, MenuItem buttonChangeTvAdvertisementType, ColumnHidingPopupView popupView, MenuItem changePlacementMenuItem)

{

m\_owner = Container.Container.Current.Resolve<Window>("mainWindow");

m\_radGridView = radGridView;

m\_buttonChangeTvAdvertisementType = buttonChangeTvAdvertisementType;

m\_popupView = popupView;

m\_changePlacementMenuItem = changePlacementMenuItem;

ColumnHidingListViewViewModel = new ColumnHidingListViewViewModel(m\_messagesListView) { HiddenColumns = HiddenColumns }; // tohle je zatim spatne

InitializeContextMenus();

}

Tim se nainicializuje properta m\_radGridView.

V Xamlu mame na radGridu nekolik eventu:

cal:Message.Attach="[Event MouseDoubleClick] = [Action AlliedMessagesMouseDoubleClick()];

[Event PreviewKeyUp] = [Action AlliedMessagesPreviewKeyUp($eventArgs)];

[Event SelectionChanged] = [Action AlliedMessagesSelectionChanged($source)];

[Event PreviewMouseRightButtonUp] = [Action ListViewMouseRightButtonUp($eventArgs)]"

Kolekci SelectedItem naplni konkretne event SelectionChanged.

## Kdyz chci pridavat MenuItemy v Xamlu

<telerik:RadContextMenu.ContextMenu>

<!--cal:Message.Attach="[Event Opened] = [Action HandleContextMenuOpening]">-->

<telerik:RadContextMenu x:Name="CmAlliedMessages">

<telerik:RadContextMenu.Items>

<telerik:RadMenuItem Command="{StaticResource CopyToClipboardCommand}" Header="{Localisation:TranslateExtension Key=Copy}">

<telerik:RadMenuItem.CommandParameter>

<MultiBinding Converter="{StaticResource copyToClipboardCommandParametersCreator}">

<Binding Path="PlacementTarget.SelectedItems" RelativeSource="{RelativeSource FindAncestor, AncestorType={x:Type ContextMenu}}" />

<Binding Path="CopyIdsToClipboardPropertiesDefinition" />

<Binding

BindsDirectlyToSource="True"

Path="ObjectInstance"

Source="{StaticResource dateTimeStringFormatProvider}" />

</MultiBinding>

</telerik:RadMenuItem.CommandParameter>

<telerik:RadMenuItem.Icon>

<Image Height="16" Source="../../Icons/lv\_copy.ico" />

</telerik:RadMenuItem.Icon>

</telerik:RadMenuItem>

</telerik:RadContextMenu.Items>

</telerik:RadContextMenu>

</telerik:RadContextMenu.ContextMenu>

## Pouziti RadContextMenu in MVVM

<https://docs.telerik.com/devtools/wpf/controls/radgridview/columns/how-to/use-radcontextmenu-mvvm>

# Schovavani slopcu

<https://docs.telerik.com/devtools/wpf/controls/radgridview/how-to/show-hide-columns-outside-of-the-radgridview>

The example will represent a **ListBox and RadGridView**. The ListBox will list the available columns for RadGridView and each of the items in this list will have a check box for determining the visibility of the column.

Here are the definitions of the controls.

* **XAML**

<Grid Background="White">

<Grid.ColumnDefinitions>

<ColumnDefinition Width="150"/>

<ColumnDefinition Width="\*"/>

</Grid.ColumnDefinitions>

<ListBox />

<telerik:RadGridView Grid.Column="1"

Margin="10,0,0,0" />

</Grid>

Next bind the **ListBox.ItemsSource** to **RadGridView.Columns** collection via Element Binding.

* **XAML**

<Grid Background="White">

<Grid.ColumnDefinitions>

<ColumnDefinition Width="150"/>

<ColumnDefinition Width="\*"/>

</Grid.ColumnDefinitions>

<ListBox ItemsSource="{Binding Columns, ElementName=radGridView}" />

<telerik:RadGridView x:Name="radGridView"

Grid.Column="1"

Margin="10,0,0,0" />

</Grid>

After that define **DataTemplate** for **ItemTemplate** property of the ListBox. It should include a **CheckBox** and you can bind its **IsChecked** property to **column.IsVisible** property using **TwoWay** Data Binding.

* **XAML**

<Grid Background="White">

<Grid.ColumnDefinitions>

<ColumnDefinition Width="150"/>

<ColumnDefinition Width="\*"/>

</Grid.ColumnDefinitions>

<ListBox ItemsSource="{Binding Columns, ElementName=radGridView2}">

<ListBox.ItemTemplate>

<DataTemplate>

<CheckBox Content="{Binding Header}"

IsChecked="{Binding IsVisible, Mode=TwoWay}" />

</DataTemplate>

</ListBox.ItemTemplate>

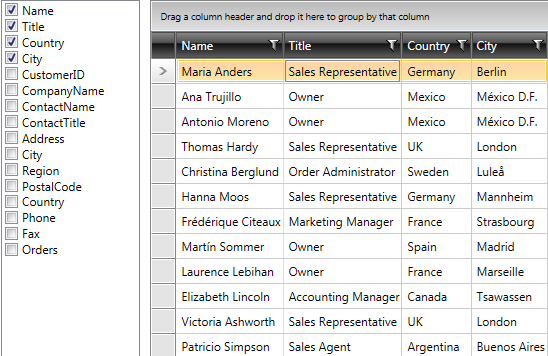
</ListBox>

<telerik:RadGridView x:Name="radGridView2"

Grid.Column="1"

Margin="10,0,0,0" />

</Grid>



# Zakazani validace

ValidatesOnDataErrors="None"

# zakazani carky ve sloupci kde datatype je int

<DataGridTextColumn x:Name="col\_LowerBound"

Binding="{Binding LowerBound, NotifyOnTargetUpdated=True, Mode=TwoWay, UpdateSourceTrigger=LostFocus, Converter={StaticResource decimalconverter}}"

Header="Lower bound"/>

<Window.Resources>

<local:DecimalConverter x:Key="decimalconverter"/>

</Window.Resources>

public class DecimalConverter : IValueConverter

{

public object Convert(object value, Type targetType, object parameter, CultureInfo culture)

{

return value.ToString().Replace(",", ".");

}

public object ConvertBack(object value, Type targetType, object parameter, CultureInfo culture)

{

return value.ToString().Replace(",", ".");

}

}

}

# Serazeni sloupce

<https://www.telerik.com/forums/initial-sorting-in-a-grid>

<**telerik:RadGridView** Name="playersGrid"

                     ItemsSource="{Binding Players}"

                     AutoGenerateColumns="False">

    <**telerik:RadGridView.SortDescriptors**>

        <!-- define initial sorting by name-->

        <**telerik:SortDescriptor** Member="Name"/>

    </**telerik:RadGridView.SortDescriptors**>

    <**telerik:RadGridView.Columns**>

        <**telerik:GridViewDataColumn** DataMemberBinding="{Binding Name}"/>

        <**telerik:GridViewDataColumn** DataMemberBinding="{Binding Number}"/>

        <**telerik:GridViewDataColumn** DataMemberBinding="{Binding Position}"/>

        <**telerik:GridViewDataColumn** DataMemberBinding="{Binding Country}"/>

    </**telerik:RadGridView.Columns**>

</**telerik:RadGridView**>

# Jak zadat null do sloupce int? (nullable)

Properta na kterou je sloupec bindovany je napr int?

Je to nullable type ale sloupec nedovoli zadat prazny string.

**Resenim je converter:**

public class DecimalConverter : IValueConverter

{

public object Convert(object value, Type targetType, object parameter, CultureInfo culture)

{

return value?.ToString().Replace(",", ".");

}

public object ConvertBack(object value, Type targetType, object parameter, CultureInfo culture)

{

if ((string) value == "null")

{

return null;

}

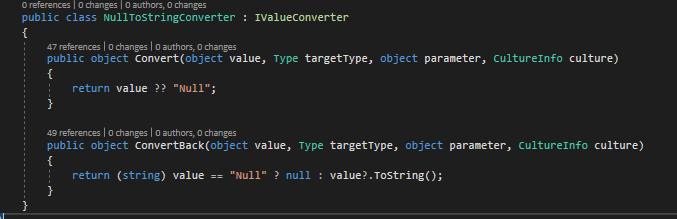
return value?.ToString().Replace(",", ".");

}

}

}

**Nebo:**



# Zakazani mazat radky

Canuserdeletecolumns = “false”

# CTRL - C problem

<https://www.telerik.com/forums/rows-missing-while-copy-from-telerik-rad-grid-view-and-paste-at-excel>

1. Hi you all, i've the same problem. It's really strange cause the data are copied correctly to the clipboard. All the selectedItems are in the clipboard in different formats (txt, oemtxt, unicodetxt, commaseparatedvalue and html).  
   I've recognized that excel use html format to copy in its sheets.  
   I've tried to paste html clipboard to file (successfully), then copy the file content and paste it to excel.. and... it worked! :O  
   I really don't understand why this happens.. i'll let the telerik team found this aswer.  
     
   However, i decided to exclude html format from clipboard in order to let excel paste the txt data.   
   Amazing... it worked for me. No more traling leaks.  
     
   To do that i wrote the following code in the "Copied" event of the grid:  
     
   var obj = Clipboard.GetDataObject();  
   var data = obj.GetData(DataFormats.Text);  
   Clipboard.SetData(DataFormats.Text, data);  
     
     
   That's all.  
     
   I hope this will solve your problem too.  
     
   Regards,  
   Andrea.



1. **Yuliya**



11 posts

Member since:  
Feb 2014

Posted 02 Jun 2014 in reply to [Andrea](https://www.telerik.com/forums/permalink/enco5AhQ8UGAL5G9kIiHaw)[Link to this post](https://www.telerik.com/forums/rows-missing-while-copy-from-telerik-rad-grid-view-and-paste-at-excel#RP-S4ECuBUKSnjwNY_7LPg)

Thank you, Andrea,  
  
It helped me too!

**Reseni**

xmlns:cal=<http://www.caliburnproject.org>

**do radgridView si pridame :**

cal:Message.Attach="[Event Copied] = [Action SetClipboardDataFormat()]"

**do datacontextu metodu**:

public void SetClipboardDataFormat()

{

var dataObj = Clipboard.GetDataObject();

var data = dataObj?.GetData(DataFormats.Text);

if (data != null)

{

Clipboard.SetData(DataFormats.Text, data);

}

}

**Problem:**

Nezobrazovali se bulharske znaky . misto toho tam byly jen otazniky.

**Reseni (Konecne)**

Resenim je proste vzit obsah schranky prevezt to na obycejny text a vlozit ho explicitne do schranky. Nastesti tento text uz oddeleny tabulatormi existuje rovnou na clipboardu

public void SetClipboartDataFormat()

{

**Clipboard.SetDataObject(Clipboard.GetText());**

**}**

# Export do Excelu Normalne, i z kontextoveho menu xlsx

## Export do Excelu z kontextoveho menu Pricing funkcni xlsx

**MessageBrowserDictionary:**

<MenuItem cal:Message.Attach="[Event Click] = [Action ExportGrid($view)]" Header="{x:Static Localisation:Localisation.ExportToExcel}">

<MenuItem.Icon>

<Image

Width="16"

Height="16"

Source="../../Resources/Images/Export.ico" />

</MenuItem.Icon>

</MenuItem>

**TelevisionMessageBrowserViewModel:**

public void ExportGrid(object source)

{

if (source is MenuItem menuItem)

{

if (menuItem.Parent is ContextMenu parent)

{

var radGrid = parent.PlacementTarget as RadGridView;

const string extension = "xlsx";

var dialog = new SaveFileDialog

{

DefaultExt = extension,

Filter = string.Format("{1} files (.{0})|.{0}|All files (.)|.", extension, "Excel"),

FilterIndex = 1

};

if (dialog.ShowDialog() == true)

{

try

{

if (radGrid != null && radGrid.FilterDescriptors.Count > 0)

{

if (MessageBox.Show(Localisation.RadGridFiltersAreSet, string.Empty, MessageBoxButton.YesNo, MessageBoxImage.Question) == MessageBoxResult.Yes)

{

radGrid.FilterDescriptors.Clear();

}

}

using (var stream = dialog.OpenFile())

{

radGrid?.Export(stream,

new GridViewExportOptions

{

Format = ExportFormat.ExcelML,

ShowColumnHeaders = true,

ShowColumnFooters = true,

ShowGroupFooters = false

});

}

}

catch (Exception exception)

{

MessageBox.Show(exception.Message);

}

}

}

}

}

## Kod je v behindu (xls):

private void ExportButton\_OnClick(object sender, RoutedEventArgs e)

{

const string extension = "xls";

var dialog = new SaveFileDialog

{

DefaultExt = extension,

Filter = string.Format("{1} files (.{0})|.{0}|All files (.)|.", extension, "Excel"),

FilterIndex = 1

};

if (dialog.ShowDialog() == DialogResult.OK)

{

try

{

using (var stream = dialog.OpenFile())

{

radGrid?.Export(stream,

new GridViewExportOptions

{

Format = ExportFormat.ExcelML,

ShowColumnHeaders = true,

ShowColumnFooters = true,

ShowGroupFooters = false

});

}

}

catch (Exception exception)

{

MessageBox.Show(exception.Message);

}

}

}

**Mozny bug:**  V pripade, ze je otevreny dokument do ktereho chceme zapisovat v jinem programu vyhodi se vyjimka. Ta se da odchytit a zobrazit. Protoze jsme ale v CodeBehindu, musim si v behindu vytvorit metodu

private DataViewModel Model { get; set; }

private void DataView\_OnLoaded(object sender, RoutedEventArgs e)

{

Model = DataContext as DataViewModel;

}

**V Xamlu ji musim definovat:**

Loaded="DataView\_OnLoaded"

## Odchyceni vyjimky a predani do ViewModelu:

private void ExportButton\_OnClick(object sender, RoutedEventArgs e)

{

const string extension = "xls";

var dialog = new SaveFileDialog

{

DefaultExt = extension,

Filter = string.Format("{1} files (.{0})|.{0}|All files (.)|.", extension, "Excel"),

FilterIndex = 1

};

if (dialog.ShowDialog() == true)

{

try

{

using (var stream = dialog.OpenFile())

{

RadGridView.Export(stream,

new GridViewExportOptions

{

Format = ExportFormat.ExcelML,

ShowColumnHeaders = true,

ShowColumnFooters = true,

ShowGroupFooters = false

});

}

}

catch (Exception exception)

{

Model.ShowExportError(exception);

}

}

}

## Bez pouziti CodeBehindu (xls)

public ICommand ExportCommand { get; }

ExportCommand = new RelayCommand(DoExport);

protected void ExportGrid(object source)

{

if (source is MenuItem menuItem)

{

if (menuItem.Parent is ContextMenu parent)

{

var radGrid = parent.PlacementTarget as RadGridView;

const string extension = "xls"; // V tomto formatu to v excelu vyhazuje hlaseni ze format souboru a koncovka se neshoduji. Format je totix .xml

var dialog = new SaveFileDialog

{

DefaultExt = extension,

Filter = string.Format("{1} files (.{0})|.{0}|All files (.)|.", extension, "Excel"),

FilterIndex = 1

};

if (dialog.ShowDialog() == true)

{

try

{

if (radGrid != null && radGrid.FilterDescriptors.Count > 0)

{

if( MessageBox.Show(Localisation.RadGridFiltersAreSet, string.Empty, MessageBoxButton.YesNo, MessageBoxImage.Question) == MessageBoxResult.Yes )

{

radGrid.FilterDescriptors.Clear(); // Grid muze mit setnute filtry. Zeptame se uzivatele, jestli je chce zrusit.

}

}

using (var stream = dialog.OpenFile())

{

radGrid?.Export(stream,

new GridViewExportOptions

{

Format = ExportFormat.ExcelML,

ShowColumnHeaders = true,

ShowColumnFooters = true,

ShowGroupFooters = false

});

}

}

catch (Exception exception)

{

MessageBox.Show(exception.Message);

}

}

}

}

}

**RadGrid musime do ViewModelu predat v commandu pomoci parametru :**

<behaviors:ExtendedRadGridView

x:Name="RadGridView"

<Button

Grid.Column="1"

Width="100"

Margin="2,0"

Command="{Binding Path=ExportCommand}"

CommandParameter="{Binding ElementName=RadGridView}"

Content="{x:Static gui:GuiResources.Export}"

IsEnabled="{Binding Path=ExportCanExecute}"

ToolTip="{x:Static gui:GuiResources.GridExportMessage}"

ToolTipService.ShowOnDisabled="true" />

**Anebo pomoci caliburniho attachu:**

**Zde je definovane contextMenu. Na pridani dalsi polozky staci zkopirovat jeden menuItem, zmenit ikonu a definovat novy caliburni command:**

<MenuItem cal:Message.Attach="[Event Click] = [Action ExportGrid($view)]" Header="{x:Static Localisation:Localisation.Export}" >

<MenuItem.Icon>

<Image Source="../../Resources/Images/Export.ico" Width="16" Height="16"/>

</MenuItem.Icon>

</MenuItem>

**Kliknutim na polozku menu se dostaneme do metody ExportGrid na bazovce, kde jako parametr dostaneme menuItem**

protected void ExportGrid(object source)

{

if (source is MenuItem menuItem)

{

if (menuItem.Parent is ContextMenu parent) // najdeme rodice coz je contexMenu

{

var radGridView = parent.PlacementTarget as RadGridView; // a jeho umisteni, coz je radGridView

}

}

}

**Format exportu je zase xml . Export do xlsx potrebuje dalsi telerikovske knihovny ktere nemame a xls vyhazuje, ze format a koncovka se neshoduji.**

**Export jen SelectedItems:**

Je mozne exportovat jen vybrane radky a to pridanim jednoho radku kodu : Items = radGrid.SelectedItems, do:

using (var stream = dialog.OpenFile())

{

radGrid?.Export(stream,

new GridViewExportOptions

{

Items = radGrid.SelectedItems,

Format = ExportFormat.ExcelML,

ShowColumnHeaders = true,

ShowColumnFooters = true,

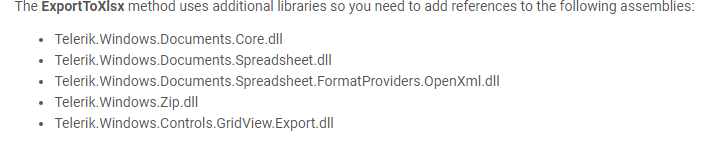
ShowGroupFooters = false

});

}

## Xlsx:

Musi se naimportovat knihovny podle <https://docs.telerik.com/devtools/wpf/controls/radgridview/export/export-formats/export-xlsx>

****

**Higher reference problem - jsou referencovane knihovny které chci pridat natvrdo a pak se hadaji – reseni: nejprve odebrat reference a pak instalovat z balicku**

**Zmenovadlo:**

private void DoExport(object obj)

{

var radGrid = (RadGridView) obj;

const string extension = "xlsx";

var dialog = new SaveFileDialog

{

DefaultExt = extension,

Filter = string.Format("{1} files (.{0})|.{0}|All files (.)|.", extension, "Excel"),

FilterIndex = 1

};

if (dialog.ShowDialog() == true)

{

try

{

using (var stream = dialog.OpenFile())

{

if (radGrid.FilterDescriptors.Count > 0)

{

MessageBox = new MessageBoxViewModel(GuiResources.RadGridFiltersSet, true, false, string.Empty);

if (m\_windowManager.ShowDialog(MessageBox) == true)

{

radGrid.FilterDescriptors.Clear();

}

}

radGrid.ExportToXlsx(stream,

new GridViewDocumentExportOptions

{

ShowColumnFooters = true,

ShowColumnHeaders = true,

ShowGroupFooters = false,

AutoFitColumnsWidth = true,

ExportDefaultStyles = true,

IgnoreCollapsedGroups = false

});

}

}

catch (Exception exception)

{

MessageBox.Show(exception.Message);

}

}

}

**Problem je ze xlsx neumi tak pekne groupovat jako xml ko. Mozna s knihovnou Telerik.Export viz** [**https://docs.telerik.com/devtools/winforms/gridview/exporting-data/spread-export#exporting-grouped-data**](https://docs.telerik.com/devtools/winforms/gridview/exporting-data/spread-export#exporting-grouped-data)

**Spis ale ne..**

## Oprava chybejicich radku pri exportu do Excelu na Ctrl+C Ctrl+V: 61c634066e3e0b1a0c1a93f954723a63418b944a Chce to nastavit ClipboardDataFormat

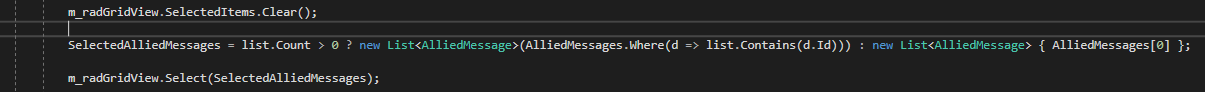
V Pricingu chybely radky na Ctrl + C viz :<https://d.docs.live.net/b22fb0fb09218bf0/Nielsen%20%20prace/Moje%20poznamky%20Nielsen/Telerik%20radgridview%20CTRL%20C%20problem.docx>

# Selected Items

**Predne telerik ma metody na selectnuti items i když je kolekce read only. Pokud mam ve ViewModelu propertu typu RadGridView staci mi zavolat metodu Selecte() a rict co ma byt selectnuto.**

**Normovadlo AlliedMessagesViewModel:**





SelectedItems / Multiselect RadGridView Telerik

Funkcni project je v C:\Users\phlavenka\OneDrive\Projects\RadGridViewBindSelectedItems

Je to projekt od admina z Teleriku. Jejich radGrid jako obvykle nema SelectedItems (nebo ma ale je readOnly takze nejde jednoduse setnout z xaml)

Je potreba vytvorit tridu MultiSelectBehavior ktera pouziva dependency property jako uloziste pro SelectedItemsProperty

Konecne (Spravne reseni)

Nakonec to musel porazit Filip:

[‎4/‎13/‎2018 2:47 PM] Filip Čálek:

multiselect pushnut

upravuj dle libosti;)

[‎4/‎13/‎2018 2:47 PM] Peter Hlavenka:

to si delas srandu

[‎4/‎13/‎2018 2:47 PM] Filip Čálek:

ee. mrkni na to

radgridview tam ma totiz "featuru", ze setovani property nic nedela

ale maj metody **Select a SelectAll**

listBox.Select(selectedItems);

Vytvorime CustomControl podedeny od RadGridView

using System.Collections;

using System.Windows;

using Telerik.Windows.Controls;

namespace MIR.Media.Changing2.Gui.Behaviors

{

public class ExtendedRadGridView : RadGridView

{

public static readonly DependencyProperty BindableSelectedItemsProperty = DependencyProperty.Register(

"BindableSelectedItems", typeof(IList), typeof(ExtendedRadGridView), new PropertyMetadata(default(IList), SelectedItemsChanged));

private static bool m\_selectionChanging;

public IList BindableSelectedItems

{

get => (IList) GetValue(BindableSelectedItemsProperty);

set => SetValue(BindableSelectedItemsProperty, value);

}

// Touto metodou muzeme urcit SelectedItems z ViewModelu

private static void SelectedItemsChanged(DependencyObject dependencyObject, DependencyPropertyChangedEventArgs eventArgs)

{

if (m\_selectionChanging)

{

return;

}

if (dependencyObject is ExtendedRadGridView radGridView)

{

try

{

m\_selectionChanging = true;

var selectedItems = (IList) eventArgs.NewValue;

// Tim ze nas dependency objekt ma predka , ma i kolekci SelectedItems . Vyprazdnime ji.

radGridView.SelectedItems.Clear();

// radgridview tam ma totiz "featuru", ze setovani property nic nedela ale maj metody Select a SelectAll

radGridView.Select(selectedItems);

}

finally

{

m\_selectionChanging = false;

}

}

}

}

}

V Xamlu pouzijeme misto klasicke telerikovske komponenty rozsirenou komponentu:

xmlns:behaviors="clr-namespace:MIR.Media.Changing2.Gui.Behaviors"

<behaviors:ExtendedRadGridView // Z jmenneho prostoru behaviors

x:Name="RadGridView"

Grid.Row="1"

Grid.Column="0"

Margin="0"

AutoExpandGroups="True"

AutoGenerateColumns="False"

BindableSelectedItems="{Binding SelectedItems, Mode=TwoWay}" // Nova dependencyProperty

CanUserFreezeColumns="True"

CanUserResizeColumns="True"

Focusable="False"

GroupPanelBackground="LightBlue"

GroupRenderMode="Flat"

IsReadOnly="True"

IsSynchronizedWithCurrentItem="True"

ItemsSource="{Binding Motivlets}"

RowIndicatorVisibility="Collapsed"

SelectedItem="{Binding SelectedItem}" // SelectedItem potrebujeme tady v setteru budeme nastavovat to, co se ma dostat do kolekce SelectedItems

SelectionMode="Extended" // Nezapomenout Extended Mode

ShowColumnSortIndexes="True">

ViewModel

• Mame kolekci ktera je pro RadGridView nastavena jako ItemsSource:

public BindableCollection<ComposedWrapper> Motivlets

{

get => m\_motivlets;

set

{

m\_motivlets = value;

NotifyOfPropertyChange();

}

}

• Ve ViewModelu mame kolekci SelectedItems , coz musi byt IList():

private IList m\_selectedItems;

public IList SelectedItems

{

get => m\_selectedItems;

set

{

m\_selectedItems = value;

NotifyOfPropertyChange();

}

}

• A mame SelectedItem ktery muze byt jakehokoli typu:

Tady se nastavuje, co se dostane do kolekce SelectedItems

public ComposedWrapper SelectedItem

{

get => m\_selectedItem;

set

{

var test = Motivlets.Skip(15).Take(3); // Musi to byt objekty, ktere se nachazi na kolekci ktera je nastavena jako ItemsSource

SelectedItems = new List<ComposedWrapper>(test); // Dulezite je nepridavat do kolekce itemy, ale vytvorit novy objekt ( jinak se do setteru SelectedItems nedostaneme)

}

}

Predchozi ( Nespravna reseni )

MultiSelectBehavior

using System.Collections;

using System.Collections.Specialized;

using System.Windows;

using System.Windows.Interactivity;

using Telerik.Windows.Controls;

namespace WpfApplication1

{

public class MultiSelectBehavior : Behavior<RadGridView>

{

// Using a DependencyProperty as the backing store for SelectedItemsProperty. This enables animation, styling, binding, etc...

public static readonly DependencyProperty SelectedItemsProperty =

DependencyProperty.Register("SelectedItems", typeof(INotifyCollectionChanged), typeof(MultiSelectBehavior), new PropertyMetadata(OnSelectedItemsPropertyChanged));

private RadGridView Grid => AssociatedObject;

public INotifyCollectionChanged SelectedItems

{

get => (INotifyCollectionChanged) GetValue(SelectedItemsProperty);

set => SetValue(SelectedItemsProperty, value);

}

private static void OnSelectedItemsPropertyChanged(DependencyObject target, DependencyPropertyChangedEventArgs args)

{

var collection = args.NewValue as INotifyCollectionChanged;

if (collection != null)

{

collection.CollectionChanged += ((MultiSelectBehavior) target).ContextSelectedItems\_CollectionChanged;

}

}

protected override void OnAttached()

{

base.OnAttached();

Grid.SelectedItems.CollectionChanged += GridSelectedItems\_CollectionChanged;

}

private void ContextSelectedItems\_CollectionChanged(object sender, NotifyCollectionChangedEventArgs e)

{

UnsubscribeFromEvents();

Transfer(SelectedItems as IList, Grid.SelectedItems);

SubscribeToEvents();

}

private void GridSelectedItems\_CollectionChanged(object sender, NotifyCollectionChangedEventArgs e)

{

UnsubscribeFromEvents();

Transfer(Grid.SelectedItems, SelectedItems as IList);

SubscribeToEvents();

}

private void SubscribeToEvents()

{

Grid.SelectedItems.CollectionChanged += GridSelectedItems\_CollectionChanged;

if (SelectedItems != null)

{

SelectedItems.CollectionChanged += ContextSelectedItems\_CollectionChanged;

}

}

private void UnsubscribeFromEvents()

{

Grid.SelectedItems.CollectionChanged -= GridSelectedItems\_CollectionChanged;

if (SelectedItems != null)

{

SelectedItems.CollectionChanged -= ContextSelectedItems\_CollectionChanged;

}

}

public static void Transfer(IList source, IList target)

{

if (source == null || target == null)

{

return;

}

target.Clear();

foreach (var o in source)

{

target.Add(o);

}

}

}

}

MainWindow.xaml

Zadefinujeme si jmenny prostor

xmlns:i="clr-namespace:System.Windows.Interactivity;assembly=System.Windows.Interactivity"

Pomoci ktereho v gridu ovladame kolekci SelectedItems

<i:Interaction.Behaviors>

<local:MultiSelectBehavior SelectedItems="{Binding SelectedItems, Source={StaticResource context}}" />

</i:Interaction.Behaviors>

Zadefinujeme datacontext

<Window.Resources>

<local:MyDataContext x:Key="context" />

</Window.Resources>

<Window

x:Class="WpfApplication1.MainWindow"

xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"

xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"

xmlns:i="clr-namespace:System.Windows.Interactivity;assembly=System.Windows.Interactivity" // Jmenny prostor

xmlns:local="clr-namespace:WpfApplication1"

xmlns:telerik="http://schemas.telerik.com/2008/xaml/presentation"

Title="MainWindow">

<Window.Resources>

<local:MyDataContext x:Key="context" /> // Datacontext

</Window.Resources>

<Grid

x:Name="LayoutRoot"

Background="White"

DataContext="{StaticResource context}">

<Grid.ColumnDefinitions>

<ColumnDefinition />

<ColumnDefinition Width="200" />

</Grid.ColumnDefinitions>

<telerik:RadGridView

ItemsSource="{Binding Data}"

SelectedItem="{Binding SelectedItem, Mode=TwoWay}"

SelectionMode="Extended"> // Mode

<i:Interaction.Behaviors>

<local:MultiSelectBehavior SelectedItems="{Binding SelectedItems, Source={StaticResource context}}" /> // Ukazeme na kolekci SelectedItems na datacontextu

</i:Interaction.Behaviors>

</telerik:RadGridView>

<StackPanel Grid.Column="1" Orientation="Vertical">

<telerik:RadButton Click="Button\_Click" Content="Clear selected items" />

<TextBlock Text="Selected items:" />

<ListBox DisplayMemberPath="ID" ItemsSource="{Binding SelectedItems}" />

</StackPanel>

</Grid>

</Window>

Na co dat pozor

1) Original projekt ma starsi .net Framework . Nainstaloval jsem proto nuget Telerik.Windows.Diagrams.3.0.0

2) Je treba zadefinovat datacontext na kterem je kolekce SelectedItems ( nema setter) Kolekce se normalne plni, kdekoli v kodu se k ni dostaneme.

public ObservableCollection<ComposedWrapper> SelectedItems => m\_selectedItems ?? (m\_selectedItems = new ObservableCollection<ComposedWrapper>());

3) Pokud datacontext nema defaultni konstruktor je potreba ho najit ancestorem

<i:Interaction.Behaviors>

<behaviors:MultiSelectBehavior SelectedItems="{Binding DataContext.SelectedItems, RelativeSource={RelativeSource FindAncestor, AncestorType=UserControl}}" />

</i:Interaction.Behaviors>

4) Aby bylo mozne notifikovat UI o tom, ze se zmenila kolekce selectedItems, musim mit I propertu Selected Item

SelectedItem="{Binding SelectedItem, Mode=TwoWay}"

public MyObject SelectedItem

{

get

{

return \_SelectedItem;

}

set

{

if (\_SelectedItem != value)

{

\_SelectedItem = value;

OnPropertyChanged("SelectedItem");

}

}

}

Nebo ve zmenovadle to chtelo PropertyChangedEventArgs:

public ComposedWrapper SelectedItem

{

get { return m\_selectedItem; }

set

{

if (m\_selectedItem != value)

{

m\_selectedItem = value;

OnPropertyChanged(new PropertyChangedEventArgs("SelectedItem"));

}

}

}

Oprava od Filipa

V zadani bylo, aby se po kliknuti na motivlet, pridaly o ostatni motivlety ktere jsou na stejnem motivu, na jinych verzich. Ale jen pokud se jedna o ty ktere uzivatel vybral. (Stejne motivletid) Neslo zvyraznit dalsi radky. Filip nechal vyhodit vsechno co jsem pridal navic do tridy MultiSelectBehavior (Dependency property jako selectedDate a Motivlets). Z kolekce SelectedItems na viewModelu udelal BindableCollection, protoze po pridani Add nebo AddRange se ve tride BindableCollection vola Notify a rovnou na UIThreadu.

public BindableCollection<ComposedWrapper> SelectedItems { get; } = new BindableCollection<ComposedWrapper>();

V setru SelectedItem zavolame metodu ktera poresi to, jestli se ma do kolekce SelectedItems pridat jeste jina polozka. (To co jsem predtim resil v metode MultiselectBehavior.Transfer)

Nakonec pouzijeme tridu z Frameworku MultiSelectBehavior

Ta se ale zapisuje jako AttachedProperty a navic je staticka takze je ulozena nekde ve Frameworku a muzeme se k ni dostat pomoci namespacu.

Puvodni zapis:

<i:Interaction.Behaviors>

<behaviors:MultiSelectBehavior SelectedItems="{Binding DataContext.SelectedItems, RelativeSource={RelativeSource FindAncestor, AncestorType=UserControl}}" />

</i:Interaction.Behaviors>

Novy zapis:

<telerik:RadGridView behaviors:MultiSelectBehavior.SynchronizedSelectedItems="{Binding Path=SelectedItems}"

SelectedItems musi ted byt IList

Kdyz kliknu na jednu polozku, dostanu se do setteru SelectedItem.

Tady muzu vytvorit novy objekty typu

public ComposedWrapper SelectedItem

{

get => m\_selectedItem;

set

{

m\_selectedItem = value;

var collection = new BindableCollection<ComposedWrapper>();

collection.Add(m\_selectedItem);

SelectedItems = new BindableCollection<ComposedWrapper>(collection);

Dostanu se tim do setteru SelectedItems

A tim do tridy MultiSelectBehavior. GridSelectedItems\_CollectionChanged(object sender, NotifyCollectionChangedEventArgs e) tady se setne v kolekci SelectedItems zase jen to co je nakliknute.

Kdyz mam Mode MultiSelect , nebo Extended a drzim control, zacinam taky v metode GridSelectedItems\_CollectionChanged(object sender, NotifyCollectionChangedEventArgs e)

# Zascrollovani na predchozi pozici pri refresnuti ItemsSource

## Nejlepsi reseni

<https://www.telerik.com/forums/get-current-row-index>

<https://docs.telerik.com/devtools/wpf/controls/radgridview/columns/how-to/scroll-item>

**Admin – Sprava medii (nascrollovat zpet potrebuju při zmene zalozek)**

* + - **Ve View pridame RadGridu event SelectionChanged a Loaded**

cal:Message.Attach="[Event MouseDoubleClick] = [Action OnDoubleClick($eventArgs)]; [Event SelectionChanged] = [Action SelectionChanged($source)]; [Event Loaded] = [Action Loaded($source)]"

* + - **Ve ViewModelu (GridViewModel v Adminovi) si na SelectionChanged setneme propertu Item**

private T Item { get; set; }

public void SelectionChanged(object sender)

{

RadGridView = sender as RadGridView;

if (RadGridView?.SelectedItem != null)

{

Item = (T) RadGridView?.SelectedItem;

}

}

* + - **A na event Loaded zjistim index selectnuteho radku, nascrolluju na nej a ještě ho v Action() setnu.**

public void Loaded(object sender)

{

RadGridView = sender as RadGridView;

RadGridView?.Focus();

RowIndex = (int)RadGridView?.Items.IndexOf(Item);

RadGridView?.ScrollIndexIntoViewAsync(RowIndex, f =>

{

((GridViewRow)f).IsSelected = true;

}, null);

}

**Synchronni zascrollovani (bez selectnuti itemu )**

RadGridView.BringIndexIntoView(RowIndex);

## Ostatni reseni

Kdyz se zmeni kolekce na kterou je nabindovany ItemsSource gridu, ItemsSource="{Binding AlliedMessages}" , radGrid si nascrolluje na prvni item v kolekci. Nekdy ale chci jen prepsat data, a vratit se na stejne misto kde jsem byl. Priklad : Normovadlo – SelectedAlliedMessagesViewModel.RefreshAlliedMessages.

* Mam ve VM radgridView propertu kterou jsem sem dostal z codeBehindu pres metodu HandleOnViewLoaded Loaded="HandleViewLoaded"
* Zjistim puvodni Vertical offset scrollVieweru predtim nez se mi zmeni kolekce

var scrollViewer = m\_radGridView.ChildrenOfType<GridViewScrollViewer>().FirstOrDefault();

var offset = scrollViewer?.VerticalOffset;

* Zmenim kolekci a pak setnu offset zpet

var scrollViewer = RadGridView.ChildrenOfType<GridViewScrollViewer>().FirstOrDefault();

scrollViewer?.ScrollToVerticalOffset((double)Offset);

Nebo:

(((ScrollViewer)((Decorator)VisualTreeHelper.GetChild(RadGridView, 0)).Child)).ScrollToVerticalOffset((double)Offset);

**Normovadlo (puvodni varianta , vola se v OnActivate()):**

public void BringIntoView(object obj) // obj je selectedItem

{

if (obj == null)

return;

AlliedMessage alliedMessage = (AlliedMessage)obj;

if (m\_messagesListView == null)

return;

List<AlliedMessage> items = m\_messagesListView.Items.Cast<AlliedMessage>().ToList(); //tohle je ItemsSource (m\_messagesListView je UIElement jako napr RadGridView)

AlliedMessage itm = items.FirstOrDefault(i => i.Id == alliedMessage.Id);

if (itm != null)

{

int **indexOfItem** = m\_messagesListView.Items.IndexOf(itm);

if (indexOfItem < 0)

{

m\_messagesListView.ScrollIntoView(obj);

return;

}

//hack

(((ScrollViewer)((Decorator)VisualTreeHelper.GetChild(m\_messagesListView, 0)).Child)).**ScrollToVerticalOffset(indexOfItem);**

}

# Selectnuti itemu na prave tlacitko mysi

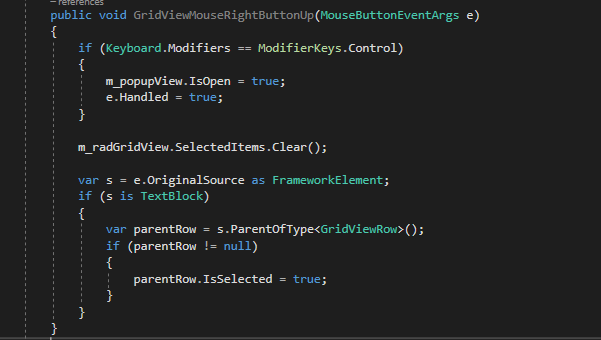
Normovadlo – SelectedAlliedMessagesViewModel.GridViewMouseRightButtonUp(MouseButtonEventArgs e)

V xamlu je pouzity caliburn pomoci ktereho se dostaneme do teto metody a predame mouse event args

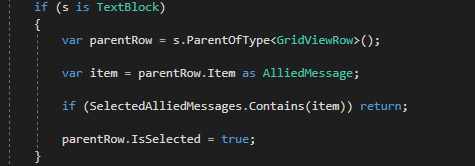
<telerik:RadGridView

Name="AlliedMessagesRadGridView"

cal:Message.Attach=" [Event PreviewMouseRightButtonUp] = [Action GridViewMouseRightButtonUp($eventArgs)]"



Pokud je selectnutych vice itemu tak aby se neodselectovaly :



# Filtered event a reakce na zmenu filtru

Normovadlo, mam ve VM propertu typu radgridView, na kterou napichnu posluchace AlliedMessageViewModel.HandleOnViewLoaded

m\_radGridView = radGridView;

m\_radGridView.Filtered += RadGridFiltered;

