

# NetAdvantage<sup>®</sup> for WPF Release Notes – 12.2 Volume Release - October 2012

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**NETADVANTAGE**  
for WPF



Create electrifying user experiences with next generation WPF controls that deliver the high performance and rich feature set your line-of-business users demand. Visual Studio<sup>®</sup> 2012 and Blend for Visual Studio support streamlines your creation of Windows<sup>®</sup> 7 and Office<sup>®</sup> 2010 style experiences that are immersive and engaging.



## Installation

### Downloading

[Download NetAdvantage for WPF here.](#)

## What's New

The [NetAdvantage for WPF 2012.2](#) release includes the following new features:

- Version-Free Assemblies
- Visual Studio 2012 Support
- XamCalculationManager – Integration with XamDataGrid
- XamDataChart – Multi-Dimensional Data (OLAP Data) support
- XamDataChart – Multi-Touch Support
- XamDataGrid - External Processing of Data
- XamGantt – new control
- XamGeographicMap - Overview Plus Detail Pane
- XamGeographicMap – New Types of Geographic Series
- XamGeographicMap – Data Triangulation and Performance Improvements
- XamGrid – Data Annotations
- XamPivotGrid - Excel-Style Filtering
- XamPivotGrid - Measures respecting folder paths defined on the SSAS server
- XamPivotGrid - Super-Compact Layout

- XamSyntaxEditor – new control
- Syntax Parsing Engine – new library

## Version-Free Assemblies

Starting from the 12.2 release of the NetAdvantage for WPF, all controls and components are shipped as version-free assemblies in addition to versioned assemblies that include current version number. Version-free assemblies are libraries that do not have the version number or framework version identifiers in their assembly names. For example, InfragisticsWPF5.v12.2.dll will read as InfragisticsWPF.dll. The version-free assemblies will always match the latest Common Language Runtime (CLR) version.

## Visual Studio 2012 Support

Now, the NetAdvantage for WPF toolset is compatible with the latest release of Microsoft's Visual Studio 2012 Integrated Development Environment (IDE). This means that your projects can be carried seamlessly into the future with improved Infragistics controls for design-time and theming capabilities. Also, all controls support modern UI icons in the design time dialog.

## XamCalculationManager – Integration with XamDataGrid

Now, the XamCalculationManager support integration with the xamDataGrid control to perform calculations using field values as sources and targets for the computations.

## XamDataChart – Multi-Dimensional Data (OLAP Data) Support

The OlapXAxis of the xamDataChart is specifically designed for visualizing OLAP data. It also enables you to drill-down into the data and choose an axis (columns or rows) whose values the series will be plotted.

## XamDataChart – Multi-Touch Support

Touch gestures are interactions with a touch support screen that enables the end user to navigate and interact with content in the xamDataChart control. In the 2012 Volume 2 release the chart supports stretch, pinch, tap and drag gestures.

## XamDataGrid – External Processing of Data

The xamDataGrid provides the following features:

- Sorting, Filtering and Grouping using ICollectionView. This provides the capability of performing these operations on the ICollectionView data source rather than performing them internally, which normally is performed by the DataPresenter of the control. The xamDataGrid uses ICollectionView's SortDescriptions, GroupDescriptions and Filter properties to perform these operations.
- Manually Sorting, Filtering and Summary calculations. These features provide you with manual mode option to perform the operations externally. When any of these operations are performed through the xamDataGrid UI, the control takes no action due to the manual mode. It allows you to perform these operations on the data source using your custom logic. The manual mode applies to the summary calculations as well, allowing you calculate it and provide the results to the xamDataGrid.
- Summary calculations using LINQ. With this feature the xamDataGrid calculates the summaries on the data source using LINQ.

## XamGantt – new control

The XamGantt control visualizes project's tasks, relationships and dependencies between them. The main purpose of this cross platform control is to provide a user interface similar to the Microsoft Project 2010 for creating project plans, controlling the product management and displaying the project progress over time.

## XamGeographicMap - Overview Plus Detail Pane

Now, the xamGeographicMap control provides an overview of map content using the xamOverviewPlusDetailPane control. This control shows a thumbnail of the world and provides navigation functionalities for the map control.

## XamGeographicMap – New Types of Geographic Series

The xamGeographicMap control now provides the following new types of geographic series:

- GeographicScatterAreaSeries - represents a geographic series that draws a colored surface, in a geographic context, based on a triangulation of longitudinal and latitudinal data with numeric values assigned to each point.
- GeographicContourLineSeries - represents a geographic series that draws colored contour lines, in a geographic context, based on a triangulation of longitudinal and latitudinal data with numeric values assigned to each point.
- GeographicShapeControlSeries - represents a geographic series that draws shapes of geospatial data using the ShapeControl template in a geographic context. This costs some performance in rendering the geospatial series, but adds certain features unique to the Control elements, such as the VisualStateManager.

## XamGeographicMap – Data Triangulation and Performance Improvements

The xamGeographicMap control now provides the TriangulationSource class for creating, loading, and saving triangulation of geographic data to ITF files and thus improving runtime performance of map rendering.

## **XamGrid – Data Annotations**

Data annotations available in xamGrid allow you to apply attributes to your data classes. These annotations are useful for specifying validation rules, determining how data renders, and allowing you to establish relationships between classes.

## **XamPivotGrid - Excel-Style Filtering**

Excel-Style filtering enables users to add value and label filters in xamPivotGrid similar to those in MS Excel PivotTables. It also provides search functionality for the members in row and column hierarchies.

## **XamPivotGrid - Measures respecting folder paths defined on the SSAS server**

Prior to the 12.2 release, the folder structure of the measures in the XamPivotDataSelector control's metadata tree did not match the one defined on the SSAS server. Now, the folder structure of the server is respected when using XmlaDataSource.

## **XamPivotGrid - Super-Compact Layout**

The Super-Compact layout of the pivot grid is an alternative layout of the xamPivotGrid control that is designed for saving horizontal space. Instead of showing each child level of the row hierarchy in header cells placed on the right of their parent header cell (as with the Standard layout), the child-level header cells are placed either beneath or above it. In order to differentiate between levels of the hierarchy, each of them is outset to the right by a specified distance.

## **XamSyntaxEditor – new control**

The XamSyntaxEditor is a powerful text editing control that is used to provide a code editing experience similar to Microsoft's Visual Studio code editor. It is built on top of our new syntax parsing engine which allows you to apply a set of language specific grammatical rules to highlight both language constructs as well as error information if the text does not conform to the syntax rules of the language.

## Syntax Parsing Engine – new library

The syntax parsing engine is a fully functional text parser engine that can be used standalone or with editor controls like the new XamSyntaxEditor. The syntax parsing engine can take an EBNF based language and parse it into its language specific tokens, keywords, and constructs.

## What's Changed

Components	Product Impact	Description
<b>Calculation Manager</b>	Bug Fix	Excel functions for calculating day values return #NUM! errors instead of zero for null values  Notes: Fixed an issue in the Excel library where the SECOND, MINUTE, HOUR, DAY, MONTH, and YEAR functions would return #NUM! errors when given an argument with a null or zero value.
<b>Calculation Manager</b>	Bug Fix	Calculation Manager is not working for GroupBy records at run-time
<b>Calculation Manager</b>	Bug Fix	Calculation Manager does not update value in target after sorting a group by record items
<b>Calculation Manager</b>	Bug Fix	Calculation Manager is not working for child layout
<b>Calculation Manager</b>	Bug Fix	Calculation Manager cannot access inner group by record using Group name
<b>Color Tuner</b>	Bug Fix	Tab navigation is not working in Color Tuner
<b>Color Tuner</b>	Bug Fix	ColorTuner does not check OlapCharts.xaml resource file.
<b>Common</b>	Bug Fix	Some controls' icons have black background instead of transparent or white in VS 2010 Toolbox
<b>Common</b>	Bug Fix	ResourceWasher throws an error when a DependencyObject is an item in a resource dictionary being washed  Notes: Changed the ResourceWasher to add the original items to the new washed dictionary within a



		try/catch for InvalidOperationException because most DependencyObject derived classes cannot be added to another ResourceDictionary.
<b>Common</b>	Bug Fix	WPF CLR4 installer does not contain batch file for building the source code.
<b>XamBarcode</b>	Bug Fix	Memory leak occurs in XamQRCodeBarcode  Notes: Fixed the QRCodeBarcode memory leaks.
<b>XamColorPicker</b>	Bug Fix	Unexpected behavior when dragging XamColorPicker on a touch screen
<b>XamCombo</b>	Bug Fix	Drop down is not closed when XamComboEditor is hosted in ElementHost and the control lost the focus
<b>XamComboEditors</b>	Bug Fix	NullReferenceException occurs when filtering datasource that contains property with null value
<b>XamContextMenu</b>	Bug Fix	User interaction breaks when xamNumericSlider is hosted as a menu item in XamContextMenu
<b>XamContextMenu</b>	Improvement	Inconsistent behavior for placement of ContextMenu between WPF and SL  Notes: Improved positioning logic of the xamMenu for RightToLeft and Right-handed Tablet PC Settings
<b>XamDataChart</b>	Bug Fix	Crosshairs are not displayed when CrosshairVisibility is set to Visible in XAML
<b>XamDataChart</b>	Bug Fix	An error occurs when handling Indicator event in CustomIndicator of the xamDataChart  Notes: Fixed an issue when using custom indicator could throw a null reference exception.
<b>XamDataGrid</b>	Bug Fix	Memory leak occurs when grouping is cleared in XamDataGrid
<b>XamDataGrid</b>	Bug Fix	Down and Up arrow keys navigation focuses CheckBox only for the first time
<b>XamDataGrid</b>	Improvement	Key navigation behaves inconsistently depending on which element of XamDataGrid is in focus  Notes: Added AcceptsArrowKeysInEditMode nullable bool property to ValueEditor to let an editor host (e.g. a xamDataGrid) know whether or not an editor uses the arrow keys while in edit





		mode. The resolved value defaults to true for all editors except the XamCheckEditor. This allows the XamDataGrid to use the arrow keys for cell to cell navigation while a XamCheckEditor is in edit mode. Now the property allows this default behavior to be overridden.
<b>XamDataGrid</b>	Bug Fix	<p>OK button on the filter popup does not close the popup if the XamDataGrid is inside two layers of XamDockManager.</p> <p>Notes: Changed the RecordFilterTreeControl to explicitly focus the FocusedElement of the containing focus scope instead of just calling Focus(null).</p>
<b>XamDataGrid</b>	Bug Fix	<p>Fields appear with default width and then stretch when Width of the FieldSettings is set to Auto.</p> <p>Notes: Changed the VirtualizingDataRecordCellPanel so that it synchronously invalidates its measure when the calculated width of a column in the associated fieldlayout is changed during an autosize operation.</p>
<b>XamDataGrid</b>	Bug Fix	<p>Checkbox in a cell and a header with Japanese text flicker on horizontal scroll</p> <p>Notes: Changed logic in the GridViewPanels to round the scrolling offset to the nearest pixel to avoid sub-pixel shifting for certain cells, e.g. checkboxes in cells. This avoids a shaking effect on the check editors during horizontal scrolling when there are fixed fields present.</p>
<b>XamDataGrid</b>	Bug Fix	<p>Field in the child band is not copied unless a cell in the band is clicked</p> <p>Notes: Changed the DataPresenter copy/paste handling such that it will raise a ClipboardError notification when there are selected fields and the RecordManager associated with the ActiveRecord (or the root RecordManager if the ActiveRecord is null) does not utilize the FieldLayout for which the fields have been selected.</p>
<b>XamDataGrid</b>	Bug Fix	Remove Condition and Toggle buttons of the Custom Filter Selection dialog don't work when



		editing the Operator or Operand columns.
		Notes: Modified the DataGrid's Custom Filter Selection Dialog to enable the Toggle and Remove buttons even when the Condition field is in edit mode on the current active/selected condition.
<b>XamDataGrid</b>	Bug Fix	Unbound column is not refreshed when row is updated and when using row-level update
<b>XamDataGrid</b>	Bug Fix	Cannot select a record from another tab when the record is in view
<b>XamDataPresenter</b>	Bug Fix	IndexOutOfRangeException is thrown when Fields collection is cleared and a filter cell is in edit mode.
<b>XamDataPresenter</b>	Bug Fix	Records count in GroupedRecords is always zero
<b>XamDataPresenter</b>	Bug Fix	Changing the sorting type when there is a grouped field prevents field sorting
<b>XamDataPresenter</b>	Bug Fix	Records are invisible when grouping filtered data.
<b>XamDataPresenter</b>	Bug Fix	Grouped fields cannot be sorted in the Data Presenter
<b>XamDataPresenter</b>	Bug Fix	Summary is incorrectly calculated when using UseLinq mode for string fields
<b>XamDataPresenter</b>	Improvement	Unnecessary calls to OnTimerTick causes performance hit in application
<b>XamDataPresenter</b>	Bug Fix	Custom Filter gets cleared when the Custom dialog has been closed and the right or down arrow key is pressed
<b>XamDataTree</b>	Bug Fix	PropertyChagned event is not raised for the ActiceNode property
<b>XamDataTree</b>	Bug Fix	ArgumentException occurs when opening a Unpinned ContentPane with grid, with RowDefinition Height set to Auto and XamDataTree is added to that grid
<b>XamDateTime</b>	Bug Fix	xamDateTimeEditor displays validation error message box twice
<b>XamDialogWindow</b>	Bug Fix	Modal dialog does not prevent focus of controls that are outside of the DialogWindow via access keys
		Notes: Changed the DialogWindow in WPF to handle the AccessKeyPressed for elements within the same container but not within the XamDialogWindow.
<b>XamDialogWindow</b>	Bug Fix	DialogWindow opens with wrong width and height after maximizing, changing content, and re-opening



		Notes: Changed the xamDialogWindow to store the Width/Height when maximizing/minimizing rather than the ActualWidth/ActualHeight.
<b>XamGeographicMap</b>	Bug Fix	Map view of xamGeographicMap control is shifted to the right when setting WorldRect and then zooming out
<b>XamGeographicMap</b>	Bug Fix	GeographicShapeSeries raises duplicates of SeriesCursorMouseMove events
		Notes: Fixed an issue where the geographic series raised duplicates cursor move events.
<b>XamGeographicMap</b>	Improvement	GeographicShapeSeries with many shapes has low rendering performance
		Notes: Improved the performance of Shape Series for WPF version of XamGeographicMap
<b>XamGrid</b>	Bug Fix	NullReferenceException occurs when calling ExitEditMode in Cell/RowExitingEditMode
<b>XamGrid</b>	Bug Fix	Clicking on the dropdown does not open selection after first attempt
<b>XamGrid</b>	Bug Fix	XamGrid row enters edit mode when AllowEditing is set to Hover and RowHover is set to Cell
<b>XamGrid</b>	Bug Fix	Cannot shift the focus away from a cell that was forced to stay in edit mode
<b>XamGrid</b>	Bug Fix	Memory leak occurs when using conditional formatting and then removing XamGrid from the visual tree without setting the ItemsSource to null
<b>XamGrid</b>	Bug Fix	NullReferenceException occurs when ItemsSource is set to null and the XamGrid gets the focus
<b>XamGrid</b>	Bug Fix	Summary calculations do not update when data is added, removed, or changed
<b>XamGrid</b>	Bug Fix	Cell value becomes null after editing TemplateColumn with a ContentControl bound to whole data.
<b>XamGrid</b>	Bug Fix	FilterMemu buttons in xamGrid control are slightly cut when the Metro theme is applied and there are more than 10000 unique items
<b>XamGrid</b>	Bug Fix	Sort indicators of the header cells are not validated when clearing the grouping using the Clear method of GroupBySettings.GroupByColumns collection
<b>XamGrid</b>	Bug Fix	Headers of the last row disappear when sorting a column inside a GroupColumn



<b>XamPivotGrid</b>	Bug Fix	Cannot drag a dimension from dimension tree using tapping touch gesture in XamPivotGrid
<b>XamPivotGrid</b>	Bug Fix	Expanding data from the top down does not load the data correctly
<b>XamPivotGrid</b>	Bug Fix	Grid do not display data when using int16 measures
<b>XamRibbon</b>	Bug Fix	Tools does not have the DataContext of the control when ResourceWasher is used on XamRibbonWindow and a theme is also set on XamRibbon
<b>XamRibbon</b>	Bug Fix	InvalidOperationException occurs when changing the theme to "Office2k7Blue"
<b>XamSchedule</b>	Bug Fix	Schedule appointment with modified occurrence of deleted series is shown again after scrolling  Notes: Fixed an issue with creation of variances of occurrences of a recurring activity and then modifying the recurrence rules of the activity or deleting the activity. In some cases the UI did not remove the variances, as it should when the root activity is either deleted or its recurrence rules are changed. The changes impact data structures that deal with management of occurrences and variances. UI related code is not impacted.
<b>XamSchedule</b>	Bug Fix	Schedule appointment with modified occurrence is not deleted after modifying the recurrence  Notes: Fixed an issue with creation of variances of occurrences of a recurring activity and then modifying the recurrence rules of the activity or deleting the activity. In some cases the UI did not remove the variances, as it should when the root activity is either deleted or its recurrence rules are changed. The changes impact data structures that deal with management of occurrences and variances. UI related code is not impacted.
<b>XamSchedule</b>	Bug Fix	Editing occurrence in schedule causes duplication of the appointment  Notes: Fixed an issue with creation of variances of occurrences of a recurring activity and then modifying the recurrence rules of the activity or deleting the activity. In some cases the UI did not remove the variances, as it should when the root activity is either deleted or its recurrence rules are changed. The changes impact data structures that deal with management of occurrences and variances. UI related code is not impacted.



<b>XamSchedule</b>	Bug Fix	NullReferenceException occurs in Visual Studio 2010 and 2012 when ListScheduleDataConnect is on the form with CLR 4.5 installed
<b>XamSchedule</b>	Bug Fix	TypelInitializationException occurs when using xamSchedule in Visual Studio 2012  Notes: Refactored the code to eliminate ?: operator usages in a couple of classes because CLR4.5 introduced a known issue having to do with usage of ?: operator in a base( ) call from a constructor. This fix should have minimal side effects.
<b>XamSlider</b>	Bug Fix	InteractionMode "Push" and "Lock" is not working when having 3 or more thumb elements
<b>XamSpellChecker</b>	Bug Fix	Missing background color for a modal dialog in xamSpellChecker with applied Metro theme
<b>XamTabControl</b>	Bug Fix	User control is not at the top of XamTabControl container while Metro theme is applied  Notes: Changed the values of the HorizontalContentAlignment and VerticalContentAlignment setters to "Stretch" in the TabItemEx style
<b>XamTileManager</b>	Bug Fix	Tiles cannot be resized when AllowTileSizing is changed from Synchronized to Individual  Notes: Changed logic in XamTilemanage to ignore previously cached synchronized size after changing AllowTileSizing setting from 'Synchronized' to 'Individual'.
<b>XamTileManager</b>	Bug Fix	Tiles don't render correctly where there is a WindowsFormsHost with a WinForms Custom control in it.  Notes: Changed logic to allow animations to work properly when a XamTile control's content includes an WindowsFormsHost. Based on the limitations of hwnd hosts we can't efficiently animate their size, e.g. when maximizing a tile, but we now animate their position smoothly and the content displays correctly.