RELEASE NOTES

December 2018

Rogue Wave Views®
Version 6

Introduction

These *Release Notes* highlight the changes for the following versions of Rogue Wave Views:

- Views version 6.3 changes
- Views version 6.2.1 changes
- Views version 6.2 changes
- Views version 6.1 changes
- Views version 6.0 changes

Views version 6.3 changes

- Announcements
- New Features
- New Ports
- Updated Features
- Bug Fixes
- Removed Features

Announcements

The following platforms and databases are scheduled to be retired in Views 2019 (7.0). Contact your Rogue Wave account manager or Rogue Wave support if you have any questions.

Windows

- Windows 7, MSVS 2010, x86/x64
- Windows 8, MSVS 2010, x86/x64
- Windows 8.1, MSVS 2010, x86/x64
- Server 2008, MSVS 2010, x86/x64
- Windows 7, MSVS 2012, x86/x64
- Windows 8, MSVS 2012, x86/x64
- Windows 8.1, MSVS 2012, x86/x64
- Server 2008, MSVS 2012, x86/x64

Linux

- RHEL 5, x86/x64
- SUSE 10, x86/x64

UNIX

- Solaris 10, Sun Studio 11, x86/x64
- Solaris 11, Sun Studio 11, x86/x64
- Solaris 11, Sun Studio 11, x86/x64
- Solaris 10, Sun Studio 11, SPARC
- Solaris 11, Sun Studio 11, SPARC
- Solaris 11, Sun Studio 12, SPARC
- HP-UX 11.23, aCC 6.17, Itanium
- HP-UX 11.i, aCC 3.77, PA Risc
- AIX 6.1, xlC 10.1, PowerPC

Databases

- Oracle 11.2
- DB2 9.5
- MySQL 5.6
- Informix
- Sybase 12.5
- OLEDB

New Features

The following new features have been added to Rogue Wave Views version 6.3.

The protected method

`IlvViewFrame::getCursor()` is now exposed to allow applications to modify the cursor appearance when the mouse moves on top of a view frame.

Title bars are easier to customize

The `getTitleBar()` method, added to the `IlvViewFrame` class, can retrieve the `IlvMessageLabel` object that the frame uses to display its menu bar.

Fluent Interface for Palettes

Rogue Wave Views now provides the `IlvPalette::Builder` class that exposes a fluent API, making things far easier to write and understand.

In previous versions, the API for getting new `IlvPalette` objects from the display was cumbersome: If the palette you needed was similar to IlvDisplay's default, you would need to provide more than ten parameters to `IlvDisplay::getPalette()`.

Now with the `IlvPalette::Builder` class, if your application needs a palette where all you care about is the line width you can simply write:

```
IlvPalette* myPalette = IlvPalette::Builder(display).lineWidth(10);
```

New Ports

No ports were added for this release.

Updated Features

- API Updates
- Port Updates
- Other Updates

API Updates

The API was not updated for this release.

Port Updates

No port updates were performed for this release.

Other Updates

No other updates were performed for this release.

Bug Fixes

The following bug fixes have been made:

- VIEWS-13085: `IlvViewFrame` subview is not resized when frame is resized.
- VIEWS-13152: [X11/Xft] Japanese label not properly displayed in an `IlvButton`.
- VIEWS-13155: Hiding a prototype by script prevents interactions on overlapped objects.
- VIEWS-13267: Very long strings caused memory problems in `IlvPrint()`, `IlvFatalError()`, and `IlvWarning()`.
- VIEWS-13268: [X11] Inconsistent behavior of `IlvFont::maxWidth()` when using Xft.
- VIEWS-13300: [X11] `IlvView::iconBitmap()` adds support for Extended Window Manager Hints protocol.
- VIEWS-13334: [Studio] Cannot save a prototype outside of a library.
- VIEWS-13353: Complex polygons in shapefile incorrectly loaded.
- VIEWS-13370: Incorrect geometry of a prototype loaded from an .ilv file.
- VIEWS-13381: `IlvCodeEditor` should not redraw its container when refreshing.
- VIEWS-13387: `IlvCodeEditor` does not change the cursor when leaving.
- VIEWS-13405: Prototypes behave differently in active mode and in an application.
- VIEWS-13416: Prototypes elements are moved when saved.
- VIEWS-13554: [`ivfstudio`] Wrong behavior when adding or moving layers in the Layer Editor.
- VIEWS-13565: IlvGradientSelector panel — infinite loop after deleting color stops.
- VIEWS-13576: The graphic names are not updated properly in IlvGraphic and IlvGraphicNode.
- VIEWS-13635: Memory leak in CSS cache introduced in Views 6.0.
- VIEWS-13761: The file `include/ilviews/panels/grdsel.h` is missing include files for static linkage.
- VIEWS-13796: Maps display incorrectly with WGS84 Ellipsoid.

- VIEWS-13818: [X11] memory leak when enabling Xft.

Removed Features

No features have been removed for this release.

Views version 6.2.1 changes

Rogue Wave Views 6.2.1 is entirely compatible with version 6.2, both in source and binary. You can deploy the Rogue Wave Views 6.2.1 libraries beside existing applications and will immediately benefit from the fixes included in this release, without having to recompile your applications.

Please review the changes in the following sections:

- New Features
- New Ports
- Updated Features
- Bug Fixes
- Removed Features

New Features

No new features have been added for this release.

New Ports

Microsoft Visual Studio 2017 is supported for both 32 and 64-bit architectures.

Updated Features

- API Updates
- Port Updates
- Other Updates

API Updates

The API was not updated for this release.

Port Updates

Rogue Wave Views 6.2.1 provides support for Visual Studio 2017, both in 32 and 64-bits. The names of these new ports are `x86_.net2017_15.0` for the 32-bit version and `x64_.net2017_15.0` for the 64-bit version.

IMPORTANT: In the next major release of Rogue Wave Views the following platforms will be dropped. If you have any questions or concerns, contact your Rogue Wave Account Manager or Rogue Wave support.

- Windows 7
- Windows Server 2008
- Visual Studio 2010 and 2012 dropped from Windows platforms

- Red Hat 5
- SUSE 10
- HP-UX/ PA RISC
- Sun Studio 11 will be dropped from Solaris 10

In addition to the platforms, the following Databases will be dropped in Data Access and Maps version 7.0. If you have any questions or concerns, contact your Rogue Wave Account Manager or Rogue Wave support:

- Oracle version 11.2
- DB2 version 9.5 and 9.7
- MySQL version 5.6
- Sybase version 12.5
- OLEDB will no longer be supported
- Informix will no longer be supported

Other Updates

No other updates were performed for this release.

Bug Fixes

The following bug fixes have been made:

- VIEWS-12080: Motif look and feel does not draw grayed-out gadgets correctly.
- VIEWS-12346: [Xft] XError XRender when closing the 'table' sample in 'gadgets'.
- VIEWS-12401: Compiling on Linux now depends on the predefined macro '__linux' instead of 'linux'. This defines the IL_LINUX_PORT macro.
- VIEWS-12472 and VIEWS-12478: Some gadgets are not drawn correctly when they are set as 'grayed-out'.
- VIEWS-12518: Fixed regression in IlvATHtmlReader.
- VIEWS-12638: The Makefiles generated by Rogue Wave Studio with the Data Access plug-in now explicitly reference the selected database vendor libraries.
- VIEWS-12690: Rogue Wave Studio crashes when inspecting an element in a multiselection.
- VIEWS-12717: On Windows, calling `hide` on a view before `IlvMainLoop` has no effect.
- VIEWS-12929: On Unix, some double-click events may be discarded.
- VIEWS-12979: Rogue Wave Studio sometimes crashes when inspecting a matrix item that contains a bitmap.
- VIEWS-13126: [Unix] Gradient persistence may crash in a multibyte environment.
- VIEWS-13137: Technical release version number removed from generated files to ensure full compatibility with version Rogue Wave Views 6.2.

Removed Features

No features have been removed.

Views version 6.2 changes

- New Features
- New Ports
- Updated Features
- Bug Fixes
- Removed Features

New Features

The following new features have been added to Rogue Wave Views version 6.2:

- ActiveX pre-registration: The Rogue Wave Views installer for Windows now registers the delivered ActiveX at the time of installation. This feature requires that you run the installer from an account with administrative privileges.
- The method `IlString::matches()` was added to perform a simple match of the string and a given pattern.
- Pointer event compression: Added four new methods to `IlvAbstractView`, allowing applications to filter pointer motion events on Unix platforms.

New Ports

Rogue Wave Views 6.2 is officially supported on Windows Server 2012.

Updated Features

- API Updates
- Port Updates
- Other Updates

API Updates

The API was not updated for this release.

Port Updates

No ports were updated for this release.

Other Updates

No other updates were performed for this release.

Bug Fixes

The following bug fixes have been made:

- VIEWS-9308: Memory leak when creating a Bitmap on Windows, in the system memory (not in video memory).
- VIEWS-11159: X Error of failed request: `RenderBadPicture` (invalid picture parameter) may be generated when using Xft fonts.
- VIEWS-11182: `[X11] IlvDisplay::drawWChar()` and `drawIWChar()` do not use the 'underline' font property.
- VIEWS-11498: Studio: The Apply and Close buttons may not be visible in `IlvLayoutInspectorPanel`.
- VIEWS-11510: Events are not handled properly in Controls that are being embedded into Prototype instances.
- VIEWS-11801: Rogue Wave Views ActiveX is not registered at installation time.
- VIEWS-11810: Cannot run Views Studio on RHEL 7 with Gnome 3.
- VIEWS-11875: [Windows] Top views that are created as 'visible' are not properly updated when initially shown.
- VIEWS-11940: A gadget sitting next to an `IlvViewFrame` does not receive the keyboard focus properly.
- VIEWS-11956: [Studio] Code generation breaks if header has empty lines.
- VIEWS-11979: `IlvViewFrame` objects with double-buffering set may not refresh their borders properly if they have child views.
- VIEWS-12073: `IlvGanttChart::ensureVisible()` now moves the view by activity line instead of resource row, ensuring that the specified activity line is visible within the row.
- VIEWS-12104: [Gantt] The `IlvGanttScaleInteractor` is not activated in the Gantt Chart's timescale.
- VIEWS-12116: [Data Access] The scrollbars of the `IliTableGadget` are stuck after double-clicking on the arrow.

Removed Features

No features have been removed.

Views version 6.1 changes

This section highlights the changes for Rogue Wave Views version 6.1:

- New features
- Updated features
- Removed features

New features

This section details the new features for Rogue Wave Views V6.1.

Touch screen support

The basic touch interactions are handled by default by manager views and containers. The following gestures are handled:

- One finger or two fingers pan: translates the content.
- Two fingers pinch/unpinch: unzooms/zooms the content.
- Two fingers rotation: rotates the content.

Text anti-aliasing and scalable fonts with Xft on X Window

On X Window platforms Views can optionally use Xft and FreeType for font rendering.

Features:

- Allows anti-aliasing and translucency (alpha channel) when drawing text.
- Scalable fonts improve the rendering of transformed text in methods `drawTransformedString()`, and in the class `IlvZoomableLabel`.
- Enabling and using Xft requires no addition or modification to the Views API. Font names are returned by the `'fc-list'` command. For example, if the `'fc-list'` command output contains `'Liberation Serif:style=Bold'`, use the font description `"%Liberation Serif-12-B"` to load this font in Views.
- Xft is optional. You can disable this feature by setting the environment variable `'ILVUSEXFT'` or the resource `'UseXft'` to false. By default, the feature is enabled if Xft is installed.
- When Xft is enabled, Views first attempts to load fonts with Xft, based on their name or description. If this fails, Views loads the font using the Xlib; in this case, text rendered using this font does not have anti-aliasing or translucency.

Limitations:

- Views does not ship Xft, so the functionality is only available when the target platform has Xft installed.
- The feature can only be used in 'shared' format, i.e., when the application is linked with Views shared libraries. The functionality is disabled in 'static' format.
- The feature is only available on Linux and Solaris platforms.

Updated features

This section details the updated features for Rogue Wave Views V6.1.

API updates

`IlvManagerViewInteractor::handleEvent()` now returns an `IlBoolean`. All direct or indirect subclasses must change their `handleEvent()` function signature.

The function must return `ilTrue` if the event is consumed and `ilFalse` otherwise.

> ***Note:*** *Please note that because of this API change, you may need to change your code if you override this method.*

Port updates

This section describes new or retired ports for Rogue Wave Views V6.1.

New ports

No new ports are available in this release.

Retired ports

No platform have been retired in this release.

Other updates

No additional updates for this release.

Removed features

No features have been removed in this release.

Views version 6.0 changes

This section highlights the changes for Rogue Wave Views version 6.0:

- New features
- Updated features
- Removed features

New features

This section details the new features for Rogue Wave Views V6.1.

Cascading Style Sheets

The Views look-and-feel capability has been extended with the ability to use cascading style sheets (CSS).

The colors used by Views controls can now be controlled using Styling. An implementation of cascading style sheets allows an application to change the aspect of its interface without a C++ code change.

The behavior of Views matches previous versions if no style sheet is found. A new sample illustrating the use of style sheets is provided in `samples/gadgets/styling`.

Touch Screen Support

Touch screens on Windows systems have been supported since version 5.7.

With version 6.0, support has been added for Linux platforms. This support is only effective when the XWindows server and client on the machine are configured with the extension XInput from release 2.2 at least.

Updated features

With this release, Views supports the following new platforms:

- Microsoft Visual Studio 2015: The two ports (`x86_.net2015_14.0` and `x64_.net2015_14.0`) have been added.

Removed features

The Microsoft Visual Studio 2010 ports (`x86_.net2010_10.0` and `x64_.net2010_10.0`) are deprecated.

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