

PERFORCE

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STINGRAY STUDIO 2022.1 RELEASE NOTES

Stingray® Studio

# ○ Introduction

## In this Document

These release notes contain a summary of new features and enhancements, late-breaking product issues, migration from earlier releases, and bug fixes.

For change logs or other information on previous releases, please contact Technical Support.

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**NOTE >>** Rogue Wave products may contain undocumented interfaces. These interfaces are not supported for general use and may be changed or removed from release to release.

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**NOTE >>** The version of this document in the product distribution is a snapshot at the time the product distribution was created. Additional information may be added after that time because of issues found during distribution testing or after the product is released. To be sure you have the most up-to-date information, see the version of this document on the Perforce web site: <https://help.perforce.com/stingray/>

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# New Features

## Updated Platform Support

Please see Platforms and System Requirements at <https://help.perforce.com/stingray>.

In this version, support was added for current updates **Windows 11** and **Visual Studio 2017, 2019 and 2022**, in 32 or 64 bits.

Testing was done on Windows up to version 22000, Visual Studio up to version 2022 (17.1.1) and .NET Framework version 4.7.2

# Bug Fixes and Enhancements

## Common

- [SRSTUDIO-7499]: fixed crash in DLL when they detached dynamically
- [SRSTUDIO-8782]: libraries and samples were ported on Framework 4.7.2
- [SRSTUDIO-8810]: fixed Installer to avoid try to modify or uninstall previous version

## Grid

- [SRSTUDIO-8584]: Fixed display of celltip for a short text when zoom is set
- [SRSTUDIO-8806]: Fixed sorting issues with date column in Grid when OS uses / as a date separator

## Toolkit

- [SRSTUDIO-8594]: Resolved colliding of regex header file with STL regex header file
- [SRSTUDIO-8873]: fixed crash while opening tiff file for Unicode version of upgraded tiff library

## Foundation

- [SRSTUDIO-8704]: Fixed build error C2666 caused by VS 2019 update 16.9.4

## Grid for .NET

- [SRSTUDIO-8976]: Fixed internal compiler error for build GridControl on Visual Studio 2019, 2022

## Utils

- [SRSTUDIO-8770]: Fixed an Assistant crash while trying to open .sln files when the required VS is not installed on host machine.
- [SRSTUDIO-8792]: fixed vc.bat to work correctly when Stingray is installed in a non-default location
- [SRSTUDIO-8820]: Assistant fixed to avoid close Visual Studio instances opened before it started
- [SRSTUDIO-8980]: Assistant modified to allow build with c++20 language standard on Visual Studio 2019, 2022

## Common Changes

### Regex

As Regular Expressions library is provided with Visual Studio, the Regex library included into the Stingray is deprecated and will be removed in future releases

## Build Wizards

Starting from Stingray 2021.1, shortcuts to Build Wizards have been removed from the Start menu. Wizards are still accessible from the Stingray Assistant. In most cases you do not need to use Wizards. Wizards may still be useful for adding a few rarely used features which were not included into the default build or for custom naming libraries.

## Known Issues

### Project Files

#### Targeted to Windows SDK

We ship .vcxproj files ported to Visual Studio 2017 targeted to Windows SDK 10.0.17763.0 with following line of code:

```
<WindowsTargetPlatformVersion>10.0.17763.0</WindowsTargetPlatformVersion
```

If you are targeting the Windows 8.1 SDK, this line is not needed and should be removed.

For Visual Studio 2019 and 2022, we use a new option to target to the latest installed version of the SDK:

```
<WindowsTargetPlatformVersion>10.0</WindowsTargetPlatformVersion
```

You can re-target C++ projects to another version of the Windows SDK using the Windows SDK setting in Stingray Assistant or by manually editing the .vcproj file and changing the code line above to match the Windows 10 SDK version you would like to target.

For projects which are not makefile-based, you can re-target the Windows SDK version on the project's property pages (**Configuration Properties | General | Windows SDK Version**) or use the "Retarget Projects" option in Visual Studio IDE. Please be aware these options do not work for makefile-based projects used for main Stingray components.

## Targeted to .NET Framework

Stingray projects which use .NET are targeted to .NET Framework 4.7.2.

To set this targeting in shipped MFC samples or other similar projects used with C++\CLI, you need to add the following line of code in the `<PropertyGroup Label="Globals">` of the `*vcxproj` file:

```
<TargetFrameworkVersion>v4.7.2</TargetFrameworkVersion>
```

## Libraries Build Random Error

Sometimes, when you start building a solution for Stingray libraries, the following is displayed in the build log:

```
--- Build started: Project: RWUXTheme, Configuration: Stingray Lib MFC DLL Unicode Release (au) x64 ----  
Error: The operation could not be completed. Unspecified error
```

Usually, it is enough to close and re-open the solution to overcome this error. We recommend in advance build all configurations of RWUXTheme library using Stingray Assistant, then build other libraries

## “Run as Administrator” is needed for Build

To build Stingray components, you should start Visual Studio with the “Run as administrator” option. If you first start Stingray Studio Assistant in administrator mode, launching Visual Studio from Assistant will also launch Visual Studio in administrator mode.

## Parallel Projects Build May Cause Errors

To avoid possible Stingray build errors in Visual Studio, go to **Tools->Options->Projects And Solutions->Build and Run**, and set "maximum number of parallel project builds" to 1.

## Grid Build with ExcelReadWrite Option

Grid make file was modified to ignore ExcelReadWrite files when building with Unicode. In the Grid Build Wizard this option was set checked by default. We strongly recommend you do not run build wizards for Grid and other components until you're sure it is needed for your custom purpose. This improvement does not work for build Grid from command line. If you'll face any problem building from command line, please, contact [techsupport@perforce.com](mailto:techsupport@perforce.com).

## New messages while building Grid

While building Grid with Visual Studio 2022 or some samples, the following spurious message may appear:

"see previous definition of 'function'"

This issue should not impact anything and has been [reported to Microsoft](#).

# Limitations

## Installation

### General Installation Issues

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**NOTE >>** Each Stingray Studio release is a replacement for, not an upgrade to, the previous version. Always perform an installation into a new area, and not into the same install directory as a previous version

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- Documentation location changed  
User Guides are no longer installed into the Docs folder, but instead are provided online. These guides are accessible from the *Documentation* shortcut installed in the Start menu or from the Stingray Assistant tool.
- Uninstall may not remove files and folders which were changed after installation.

## Build

### C++\CLI Issues

With use of the latest C++ language standards, there are some limitations on build with `/clr` compiler option (C++\CLI). This limitation impacts FoundationEx.NET, Grid for .NET and managed build configuration for all other Stingray components.

- **Visual Studio 2017:** *for each version of C++ language standard, setting the `/clr` option works fine without option `/permissive-`, but build with the `/permissive-` compiler option requires to set an additional option `/Zc:twoPhase-`*
- **Visual Studio 2019:** *build with the `/clr` option is not available for `c++latest` (Command Line error D8016 : '`/clr`' and '`/std:c++latest`' command-line options are incompatible); for other versions of C++ language standard, it works fine without option `/permissive-`, but build with the `/permissive-` requires additional option `/Zc:twoPhase-`*

# Stingray Studio Assistant

## Missing links

There are no links in Stingray Studio Assistant to navigate to GridExcelHelper and Grid for .NET:

- <InstallDir>\Src\ GridExcelHelper\*.sln
- <InstallDir>\Samples\Grid\Excel\ExcelReadWrite\_CLI\1stGridS1\_\*.sln
- <InstallDir>\Objective Grid for Microsoft .NET\GridControl\*.sln
- <InstallDir>\Objective Grid for Microsoft .NET\Samples\Samples\*.sln
- <InstallDir>\Objective Grid for Microsoft .NET\Tutorials\Tutorials\*.sln

## Vc.bat

Running vc.bat commands a few times may cause error: "The input line is too long. The syntax of the command is incorrect".

This error is not related to our scripts but is caused by vcvarsall.bat. It repetitively adds the same paths to the PATH variable until the above error is thrown. You can read more about this issue here:

<https://stackoverflow.com/questions/16821784/input-line-is-too-long-error-in-bat-file>

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