

## OSLO Revision History

### Release 19.3

- Update: Fix crash when the '%' character is substituted into an error message in certain situations. Correctly handle %% in the format string for printf, fprintf, and sprintf when it is followed by one or more substitution strings – 7579
- Update: The regression associated with processing %% in fprintf statements also adversely affected the building of the glass and lens databases, making this release a mandatory update – 7574

### Release 19.2

- Update: Fix regression in release 19.1 that causes Check For Updates to fail and lead to a crash
- Update: Fix regression in release 19.1 associated with processing %% in fprintf statements – 7571, 4271
- Update: Fix user-reported issue with Monte Carlo Tolerancing analysis that led to an exception – 7572

### Release 19.1

- New: OSLO is now a 64-bit application – (x64)
- Update: Allow starting of OSLO using file association to lens file – 7302, 7251
- Update: Add support for non-required program arguments
- Update: Properly launch 64-bit Notepad++ – 7557
- Update: Enable '?' to work from spreadsheet – 7193, 7407
- Update: Fix exception when making qbfs[qtypeasphere] with all aspheric coefficients zero – 7555
- Update: Handle errors from DDE commands when attempted in editions other than premium
- Update: Change the user DLL search order to private\bin; adjacent to public\bin
- Update: Update glass data from OHARA
- Update: Update Hikari glass catalog – includes data from Nikon
- Update: Use Unicode characters for license and early visibility strings in the about dialog – 7305

### Release 7.0.2

- Update: Updated OHARA glass catalog
- Update: General improvements to error handling
- Update: Improvements to Check For Updates
- Update: Update message about saving a file from a different version of OSLO
- Update: Fix basic conversion bug from Unicode to multi-byte characters. This would occur when the user's name contained characters that must be represented as multiple bytes. An exception was thrown while processing the ini file when starting OSLO. – 7214

### Release 7.0.1

- Update: Fix intermittent crash/exception that would occur when deleting private glasses
- Update: Print the name of the file being compiled by the message string compiler (cst.exe) when the verbose compiler option (vbse) is turned on

- Update: Improve detection of the loss of the active license when OSLO is running
- Update: Fix bug in Check for Updates that would allow the download of a release that was not supported by the license in use. All users running 7.0.0 should update to this release so OSLO can update properly in the future. – 7194
- Update: Improve the detection of inconsistent amo files and agreement with current ccl

## Release 7.0.0

- New: Added “Check For Updates” capability to automatically check for and download newer releases
- New: Improved licensing using CodeMeter
- Update: Updated glass catalogs
- Update: Asymmetric Aspheres include base conic (OSLO Premium only)
- Update: Improved STEP File Exporter
- Update: Improved ZEMAX importer
- Update: Improved Code V importer