



OLYMPUS Stream 2.3

Release Notes
October 2017

Olympus Stream 2.3 Release Notes

Release Note	Topic	Details
R-2288	Halation removal using MIX light source	<p>OLYMPUS Stream offers an option to remove halation using the MIX light source. The Camera Control tool window contains a special quick access area for this purpose:</p> <p>The software takes images with different rotation angles of the MIX light source segment and calculates minimum, maximum or mean intensity projection. This reduces halations in the image.</p> <p>For all Stream packages with acquisition and MIX Light Source properly configured</p>
R-2280	Acquisition process for MIX light source	<p>OLYMPUS Stream allows the acquisition of a image stack using the MIX light source. The user can select a new automatic process in the Process Manager tool window and defines the segment, brightness and step size of MIX light source:</p> <p>The image stack can be processed with any functions available for time stacks, e.g. projections.</p> <p>For OLYMPUS Stream Motion and Enterprise. It can also be added to OLYMPUS Stream Basic and Essentials using the solution "Automation".</p>
R-2337	Database: Extension of search functionality	<p>The database supports now:</p> <ul style="list-style-type: none"> * Search for parent records based on fields of their children (parent search) * Search of records with the same parent record (siblings search) * Combination of search conditions that should be true within the same record (AND+ operator) * Optional display of parent record name in the table view of the search results <p>For Workgroup and Enterprise database solution (included in Stream Enterprise)</p>
R-2292	Secure File Repository: Support of Windows Server 2016	<p>OLYMPUS Stream Secure File Repository (SFR) can now be installed on Windows Server 2016.</p> <p>Olympus Stream SFR works with Stream Enterprise only</p>
R-2291	Support of Oracle 12	<p>OLYMPUS Stream Enterprise supports now the creation of databases on Oracle 12.</p> <p>Stream Enterprise and Enterprise database Solution</p>
R-2290	Support of Microsoft SQL Server 2016	<p>OLYMPUS Stream supports now the creation of databases on Microsoft SQL Server 2016. The setup DVD still contains SQL Server 2012</p> <p>Stream Enterprise and Enterprise database Solution</p>

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R-2346	Simultaneous use of DP cameras in OLYMPUS Stream	<p>The simultaneous use of DP cameras in OLYMPUS Stream is possible:</p> <p>Usable simultaneously in one device configuration (switching between cameras possible via Camera Control tool window):</p> <p>Usable sequentially in one device configuration (device list needs to be changed, no restart of Stream required): DPx #1 and DPx #2 are usable sequentially in different device configurations:</p> <p>All Stream packages with acquisition</p>
R-2293	Grains Planimetric: Area percentage of second phase	<p>The Materials Solution Grains Planimetric now allows the determination of the area percentage of the second phase in addition to the grain size (for normalization annealed ferrous alloys)</p> <p>Solution Grains Planimetric</p>
R-2340	BX53M: Manual reflected lamp/LED supported in Device List	<p>The following manual reflected lamps/LEDs are supported in the Device List of BX53M microscope frames now:</p> <ul style="list-style-type: none"> * Manual Reflected Mercury Lamp (U-HGLGPS) * Manual Reflected LED (BX3M-PSLED) <p>The settings of the lamps can be used with the confirm and restore device settings functionality.</p> <p>All Stream packages with acquisition</p>
R-2339	Discontinuation of stage controller support	<p>The support of the following stage controllers is discontinued in OLYMPUS Stream 2.3:</p> <ul style="list-style-type: none"> - Ludl Mac 5000 - ITK Corcus - Chuoseiki QT-CM2. <p>Note: These stage controllers cannot be used anymore when updating an existing Stream installation to version 2.3.</p> <p>Impacts OLYMPUS Stream Motion and Enterprise. It also affects OLYMPUS Stream Basic and Essentials using the solution "Automation".</p>
R-2338	Discontinuation of camera support	<p>The support of the following cameras is discontinued in OLYMPUS Stream 2.3:</p> <ul style="list-style-type: none"> - Altra20, SC20 - ColorView I/II/III/IIIu, FView, CC12 - DP20, DP25, DP70, DP71 - Jenoptik C3/CT3/C5. <p>Note: These cameras cannot be used anymore when updating an existing Stream installation to version 2.3.</p> <p>Impacts all Stream packages with acquisition</p>
R-2332	BX53M/MX63: Light Manager can be used in observation methods	<p>It is now possible to use the Light Manager in observation methods of BX53M and MX63.</p> <p>All Stream packages with acquisition</p>

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R-2311	Changed default setting for device dependent white balance	<p>The default setting for the device dependent white balance in the device settings and acquisition settings in changed now to "disabled" (corresponding checkbox is not selected). This change reflects the feedback from the market. Now it is not necessary anymore to perform a new white balance when the magnification or observation method is changed.</p> <p>All Stream packages with acquisition</p>
R-2299	BX53M/GX53: Manual BF/DF Mirror Turret	<p>The new Manual BF/DF Mirror Turret can be selected in the Device List dialog for the industrial microscope frames BX53M and GX53.</p> <p>All Stream packages with acquisition</p>
R-2298	BX53M/GX53/MX63: Option to Define Custom Filter Names	<p>OLYMPUS Stream provides now an option to define custom filter names for the industrial microscope frames BX53M, GX53 and MX63/MX63L.</p> <p>All Stream packages with acquisition</p>
R-2279	Microscope Control tool window: User-defined Quick Access Areas for Device Units	<p>OLYMPUS Stream allows now to define additional quick access areas (QAA) for the display of device units in the Microscope Control tool window. For each group a new quick access area will be created in the Microscope Control tool window. QAA with devices not used in the moment can be closed hence simplifying the User Interface.</p> <p>All Stream packages with acquisition</p>
R-2277	Support of SC180 camera	<p>OLYMPUS Stream (64 bit version only) supports the new SC180 camera.</p> <p>All Stream packages with acquisition</p>
R-2276	Support of new microscope frames MX63 and MX63L	<p>OLYMPUS Stream supports the new semiconductor/FPD/industrial microscope frames MX63 and MX63L:</p> <p>OLYMPUS Stream allows to control all supported coded and motorized components of the new microscope frame. The Light Manager functionality is supported. The device status of coded, motorized and manual device units can be restored from a previously acquired image.</p> <p>All Stream packages with acquisition</p>
R-2275	Support of new microscope frame GX53	<p>OLYMPUS Stream supports the new industrial inverted metallurgical microscope frame GX53:</p> <p>OLYMPUS Stream allows to control all supported coded and motorized components of the new microscope frame. The device status of coded, motorized and manual device units can be restored from a previously acquired image.</p> <p>All Stream packages with acquisition</p>

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R-2349	New 30days demo license key for Stream	There is a new 30 days demo license key for all Stream packages: BE8UF-WARZ7-DHEG2 Please note that Stream 2.3 can only be installed with the new license key. All Stream packages and Solutions
R-2348	Improvement of using 30days demo license for testing solutions	The usage of the 30 days demo license was improved. The 30 days demo license can be used for testing solutions with already purchased package licenses during 30 days. After 30 days the customer will be informed once that the trial period is finished. Afterwards he can use the package without the solution. It is not necessary anymore to reinstall the software. The overall test period of 30 days is not affected by this change. All Stream Solutions
R-2336	Setup: Installation of CodeMeter version 6.40a	The setup of OLYMPUS Stream installs CodeMeter version 6.40a. All Stream packages and Solutions
R-2334	Korean language support	OLYMPUS Stream supports now Korean language. The user interface is localized in Korean. The installation manual and user manual are provided in Korean language. The online help is still in English. All Stream packages and Solutions
R-2282	Extension of Properties for DSX import filter	OLYMPUS Stream imports additional meta data such as acquisition settings from DSX image file format and maps them to the corresponding image properties. All Stream packages (with acquisition and desktop)
R-2281	Extension of Properties for LEXT Import Filter	OLYMPUS Stream imports additional meta data such as acquisition settings from LEXT image file format and maps them to the corresponding image properties. All Stream packages (with acquisition and desktop)
R-2278	Support of OLS 5000 image file format	OLYMPUS Stream supports the OLS 5000 image file format (read-only) OLYMPUS Stream is able to open and process images created by OLS5000 system. It can display color, intensity and height layers of these images and imports also meta data such as image calibration and acquisition settings from the POIR file. There is an options dialog available to define the basic unit of the image and which layer should be used as texture layer: OLYMPUS Stream is also able to display the map image created by the OLS5000 system in one of the image corners: The map image can also be "burned into" the image or extracted as separate image document that can be used in the report. All Stream packages (with acquisition and desktop)

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R-2347	Redesign of drawings	The drawings in OLYMPUS Stream (text fields, lines, rectangles, ellipses, arrows) have been redesigned to remove dependencies from external tools. Note: Drawings on images created with Stream versions before 2.3 are converted into the new format. Drawings created with Stream 2.3 cannot be displayed with older Stream versions.
		All Stream packages (with acquisition and desktop)
R-2342	TIF files are compatible with Open Microscopy Environment (OME-TIFF)	OLYMPUS Stream includes OME-TIFF header when saving files in TIF format. Files can be opened in other applications supporting Open Microscopy Environment. The meta information can be imported as well.
		All Stream packages (with acquisition and desktop)
R-2333	3D surface view: new translation mode	The 3D surface view supports now a new mode "translation with mouse". The translation mode can be used to interactively pan the 3D surface view around.
		Olympus Stream Motion, Enterprise, Desktop, Enterprise Desktop and Solution 3D
R-2289	Improvement of EFI Quality	The quality of EFI images including the height map created with OLYMPUS Stream was improved. The new EFI algorithm "Reflected light (fine)" was introduced. The improvements are available for Automatic EFI, Instant EFI and Offline EFI. The feature improves also the quality of 3D measurements.
		All Stream packages with EFI function, Solution EFI for Stream Basic
R-2345	Fixed an issue in the calculation of orientation of spherical objects	Fixed an issue in the calculation of the orientation of spherical objects in Count and Measure. In general the parameter "Orientation" makes no sense for spherical objects. In the case that the orientation cannot be calculated with a reasonable precision, the character "-" is displayed in the results.
		Solution Count&Measure
R-2341	Fixed an issue when using an image analyzed with Count and Measure in report	Fixed the issue that filter settings were not used in the report for an image analyzed with Count and Measure. Please note that the image must be saved with Stream 2.3 for applying the fix.
		Solution Count&Measure
R-2343	Change of measurement naming	The naming of the measurement used in Measurement&ROI and Count&Measure has been changed : - Center of Gravity in Stream 2.2 is now Center of Mass in Stream 2.3 - Center of Mass in Stream 2.2 is now Center of Mass (weighted) in Stream 2.3
		All Stream packages and Solution Count&Measure

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R-2312	Option to display the range of a parameter	The workbook in OLYMPUS Stream allows now to display also the range of parameter in the statistics area. The range is calculated as the difference between the maximum value and the minimum value of the parameter: All Stream packages and Solution Count&Measure
R-2310	Measurement and ROI: Allow black and white background colors for measurement labels	Fixed the issue in OLYMPUS Stream 2.2 that black or white background color could not be used for measurement labels. This is now again possible. All Stream packages
R-2309	Export to Excel: Save in XLSX format	The export to Excel functionality was improved. The exported workbooks are now saved in XLSX format. This significantly increases the amount of data that can be exported. The old XLS format (used until Stream 2.2) supports 65,536 rows and 256 columns. The new XLSX format supports 1,048,576 rows and 16,384 columns. That means that OLYMPUS Stream 2.3 allows now, for example, to export the results of Count and Measure of more than one million objects. All Stream packages
R-2308	Linear Ruler/Angle Ruler: Unify settings and behavior	The setting page of the Linear Ruler was improved. It allows now to define the same settings as for Angle Ruler. In addition to the settings in Stream 2.2 the following new settings are available also for the Linear Ruler: * Fixed Length * Adjust angle by fixed increments (5 degrees) * Adjust length by fixed increments (length of a tick mark) All Stream packages
R-2307	Grains Planimetric: Option to display grains with the selected fill color in the result image and the report	The Materials Solution "Grains Planimetric" allows now to display the grains with the selected fill color according to their size class in the result image and in the report. This can be activated in the options of "Grains Planimetric" Solution Grains Planimetric
R-2301	Particle Distribution: Optional filter detected particles by one or multiple particle parameters	The Materials Solution Particle Distribution now allows to define a particle filter based on one or multiple particle parameters. By using the particle filter, it is possible to exclude particles from the analysis. As part of the feature the functions for manual editing particles were moved from Image Results page of the wizard to the same page. Solution Particle Distribution

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R-2300	Inclusions Worst Field: Update of Standard	<p>The Materials Solution Inclusions Worst Field support now the reapproved standard ASTM E45-13. The calculations of the results are not changed compared to the discontinued standard ASTM E45-11. Only the year of the standard is changed in the software.</p> <p>Solution Inclusion Worst Field</p>
R-2297	Grains Intercept: Usability Improvements	<p>The usability of the Materials Solution Grains Intercept was improved. The standard can now be selected directly in the Settings page of the wizard. It is not necessary to select in the Options. Numeric edit controls were added to the sliders for "Grain boundary width" and "Noise reduction". This improves reproducibility of the analysis.</p> <p>Solution Grains Intercept</p>
R-2296	Grains Intercept/Grains Planimetric: Update of Standard	<p>The Materials Solutions Grains Intercept and Grains Planimetric support now the reapproved standard ASTM E112-13. The calculation of the grain size is not changed compared to the previous standard ASTM E112-12. Only the year is changed in the software.</p> <p>Solution Grains Intercept and Grains Planimetric</p>
R-2295	Cast Iron: Improvement of Results of Form Classification	<p>The results of the form classification in the Materials Solution Cast Iron are improved. The software now offers additional options to influence the result. In the case of the standard ASTM A247-16a the user can choose an option that there are no graphite particles of form VI present in the sample. In this case corresponding graphite particles are considered as form II.</p> <p>Solution Cast Iron</p>
R-2294	Cast Iron: Update of Standard ASTM A247-16a	<p>The limits of graphite particle sizes classes are changed compared to ASTM A247-10 .</p> <p>The new version of the standard replaces the discontinued version ASTM A247-10.</p> <p>Solution Cast Iron</p>
R-2294	Cast Iron: Update of Standard ASTM E2567-16a	<p>The new version of the standard introduces a default value of the minimum size of graphite particles (10µm) and changes the default value of the minimum shape factor from 0.5 to 0.6.</p> <p>The following additional results are listed in the workbook and report:</p> <ul style="list-style-type: none"> * Minimum size for graphite particles * Minimum shape factor value * Mean shape factor value above size limit in image properties and report <p>The new version of the standard replaces the discontinued versions ASTM E2567-13 and ASTM E2567-11.</p> <p>Solution Cast Iron</p>

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R-2294	Cast Iron: Update of Standard ISO 16112:2017	Flake graphite particles (Form I and II according to EN ISO 945-1) and particles with maximum axis length than 10 µm are excluded from the analysis of nodularity, because these forms are not permitted in the compacted vermicular graphite iron structure. That means for the calculation of percent nodularity the particles of form I and II are also excluded. The new version of the standard replaces the discontinued version ISO 16112:2006. Solution Cast Iron
R-2294	Cast Iron: Update of Standard EN ISO 945-1:2010	Reapproved standard. Only the year of the standard is changed. The new version of the standard replaces the discontinued version EN ISO 945-1:2008. Solution Cast Iron
R-2287	Improvements in Excel Report	Several improvements in the Excel report of OLYMPUS Stream were implemented: * It is possible now to insert a field or field placeholder into merged cell of an Excel sheet * Replacing of table placeholders was improved. The content below the table placeholder is not overwritten anymore when inserting a table which is larger than the existing one. From Olympus Stream Basic
R-2286	Materials Solutions: Create Excel Report	The Materials Solutions in OLYMPUS Stream offer now in addition to the Word report functionality the option to create reports in Microsoft Excel. The user can select a default template or a template he created before. All Material Solutions
R-2285	Count and Measure: Create Excel Report	OLYMPUS Stream allows now the creation of reports in Microsoft Excel directly from Count and Measure. The user can select a template and the data he wants to use in the Excel report. Solution Count&Measure
R-2284	Measurement and ROI: Create Excel Report	OLYMPUS Stream allows now the creation of reports in Microsoft Excel directly from Measurement and ROI. The user can select a template and the data he wants to use in the Excel report: All Stream packages
R-2283	Excel Report Add-In: Improve "Create Report from Template"	The functionality of "Create Report from Template" in the Olympus Report add-in for Microsoft Excel was improved. The user now can select documents (images, workbooks and charts) after choosing the report template: From Olympus Stream Basic

List of Stream 2.2 fixed bugs in Stream 2.3

Bug ID	Occurrence	Impact
132449		In Count & Measure, the nearest neighbor ID is not updated when deleting or splitting the detected object Solution Count & Measure
130237		The color bar is always burned in when saving the image in JPG even when not visible on the UI All Stream packages
128807		When selecting a measurement after pressing ESC, the selection tool on the main toolbar does not work All Stream packages
130218		Hardware autofocus cannot be turned off via handswitch MX61A, BX61M
130193		Error in initialization sequence MX61A
131863		Software hangs up when the U-AFA2M and MX61A are used and no camera is selected in the device list. MX61A, U-AFA2M
133500		Automatic Measurement solution doesn't work properly in routine mode (live is not displayed) Solution Automatic Measurement
131083		Live HDR acquisition time with DP74 is not calculated properly (fast HDR = 2.5 x exposure time, fine HDR = 8.52 x exposure time) DP74
130848		Grains Intercepts solution doesn't work properly when no intercept is detected automatically (adding intercepts doesn't recalculate) Solution Grains Intercept
129400		It is not possible to use the black or white background for measurement labels All Stream packages