



Release history



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1 Release notes 2025

1.1 31.03.2025: Version 2025.1 (3.7.0)

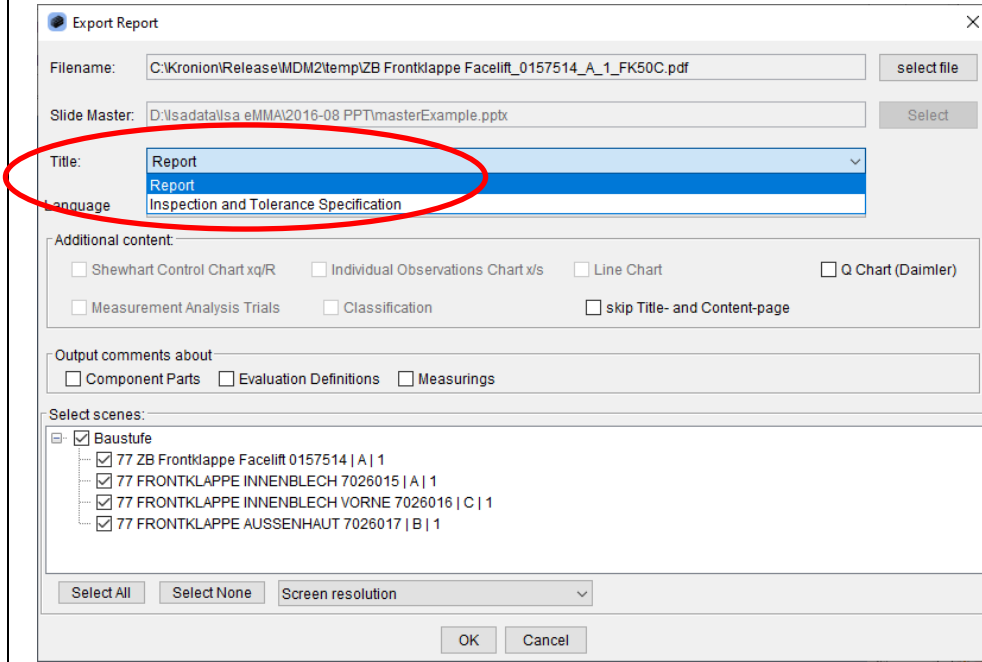
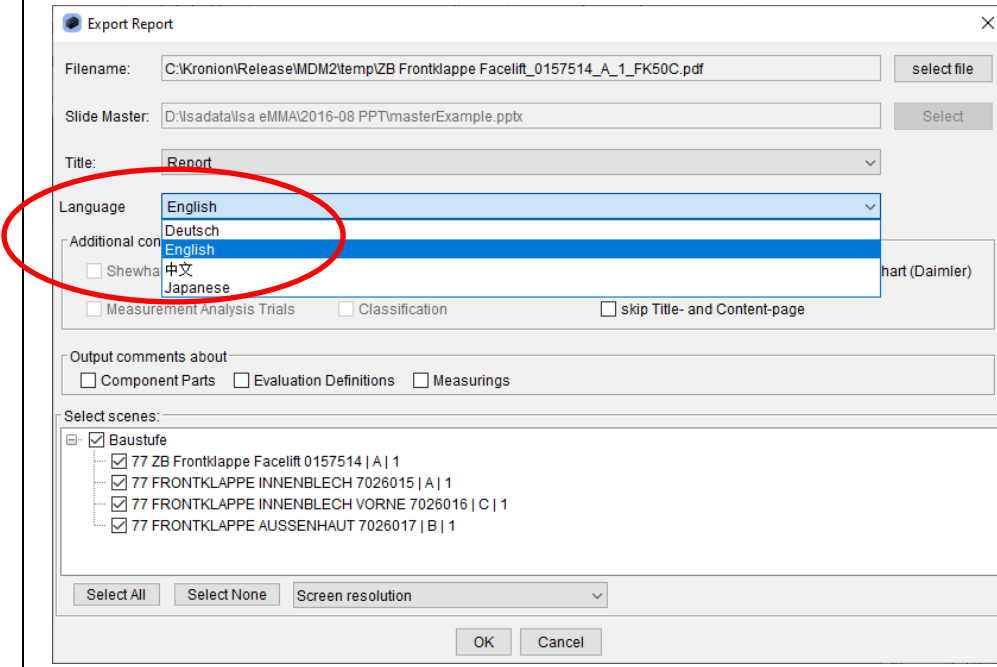
1.1.1 Enhancements

1.1.1.1 eMMA Server/Client

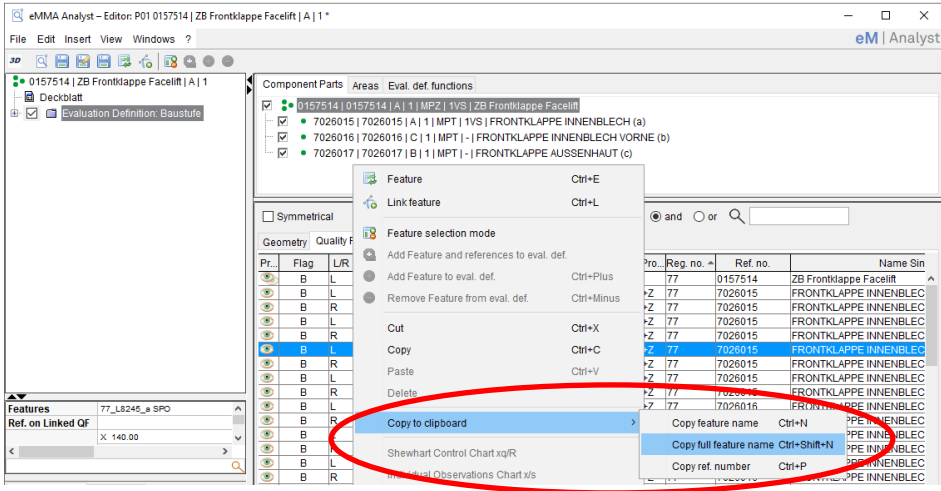
eMMA Server/Client	
Topic	Description
Licence	Display a meaningful message when an EMMA licence has expired (EMMA-6415)
Nexus	<p>Connection of EMMA to Metrology Reporting in Nexus (EMMA-6812)</p>
Teamcenter	Maximum number of hits in document search in Teamcenter browser increased (EMMA-7402)



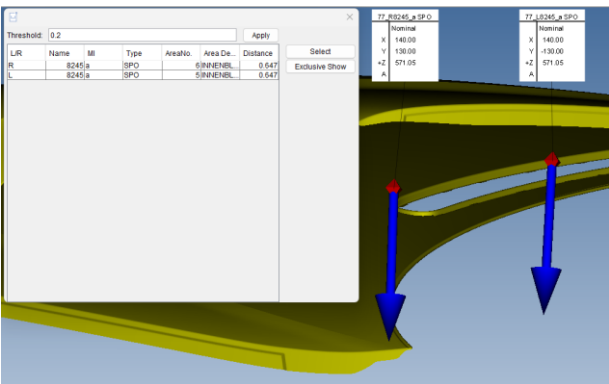
1.1.1.2 eMMA Analyst

eMMA Analyst	
Topic	Description
PDF	<p>The title of a PDF report can be selected as “Measurement Report” or “Inspection and Tolerance Specification” (EMMA-7287)</p>  <p>The screenshot shows the 'Export Report' dialog box with the following fields and options:</p> <ul style="list-style-type: none">Filename: C:\Kronion\Release\MDM2\temp\ZB Frontklappe Facelift_0157514_A_1_FK50C.pdfSlide Master: D:\sadata\sa eMMA\2016-08 PPT\masterExample.pptxTitle: Report (highlighted with a red circle)Language: Inspection and Tolerance SpecificationAdditional content: Shewhart Control Chart xq/R, Individual Observations Chart x/s, Line Chart, Q Chart (Daimler), Measurement Analysis Trials, Classification, skip Title- and Content-pageOutput comments about: Component Parts, Evaluation Definitions, MeasurementsSelect scenes: Baustufe (77 ZB Frontklappe Facelift 0157514 A 1, 77 FRONTKLAPPE INNENBLECH 7026015 A 1, 77 FRONTKLAPPE INNENBLECH VORNE 7026016 C 1, 77 FRONTKLAPPE AUSSENHAUT 7026017 B 1)
PDF	<p>Language for PDF report selectable (EMMA-7335)</p>  <p>The screenshot shows the 'Export Report' dialog box with the following fields and options:</p> <ul style="list-style-type: none">Filename: C:\Kronion\Release\MDM2\temp\ZB Frontklappe Facelift_0157514_A_1_FK50C.pdfSlide Master: D:\sadata\sa eMMA\2016-08 PPT\masterExample.pptxTitle: ReportLanguage: English (highlighted with a red circle)Additional content: Shewhart Control Chart (Daimler), Measurement Analysis Trials, Classification, skip Title- and Content-pageOutput comments about: Component Parts, Evaluation Definitions, MeasurementsSelect scenes: Baustufe (77 ZB Frontklappe Facelift 0157514 A 1, 77 FRONTKLAPPE INNENBLECH 7026015 A 1, 77 FRONTKLAPPE INNENBLECH VORNE 7026016 C 1, 77 FRONTKLAPPE AUSSENHAUT 7026017 B 1)



<p>Feature name</p>	<p>Function to copy full feature name to clipboard (EMMA-7323)</p> 
<p>Line chart</p>	<p>Overlapping of line chart and edit dialogue is prevented (EMMA-7321)</p>

1.1.1.3 eMMA Planner

eMMA Planner																						
Topic	Description																					
<p>Distance</p>	<p>Display of the distance of the features to the nominal geometry (EMMA-7303)</p>  <table border="1" data-bbox="427 1137 1038 1518"> <thead> <tr> <th>LR</th> <th>Name</th> <th>MI</th> <th>Type</th> <th>AreaNo.</th> <th>Area De.</th> <th>Distance</th> </tr> </thead> <tbody> <tr> <td>R</td> <td>32451a</td> <td>SPO</td> <td>SPO</td> <td>SINNEHBL</td> <td></td> <td>0.647</td> </tr> <tr> <td>L</td> <td>32451b</td> <td>SPO</td> <td>SPO</td> <td>SINNEHBL</td> <td></td> <td>0.647</td> </tr> </tbody> </table>	LR	Name	MI	Type	AreaNo.	Area De.	Distance	R	32451a	SPO	SPO	SINNEHBL		0.647	L	32451b	SPO	SPO	SINNEHBL		0.647
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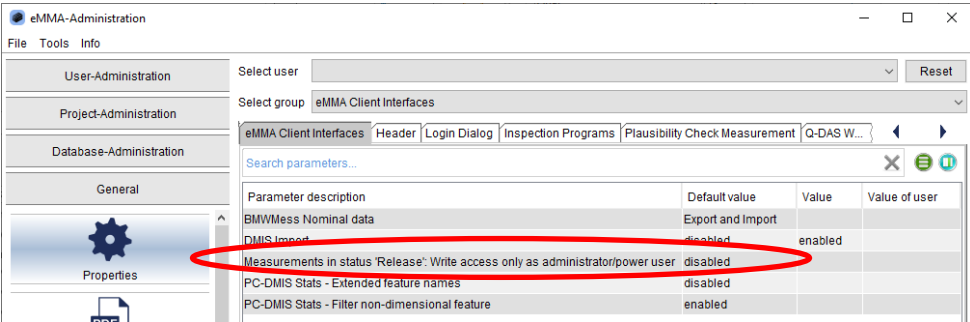
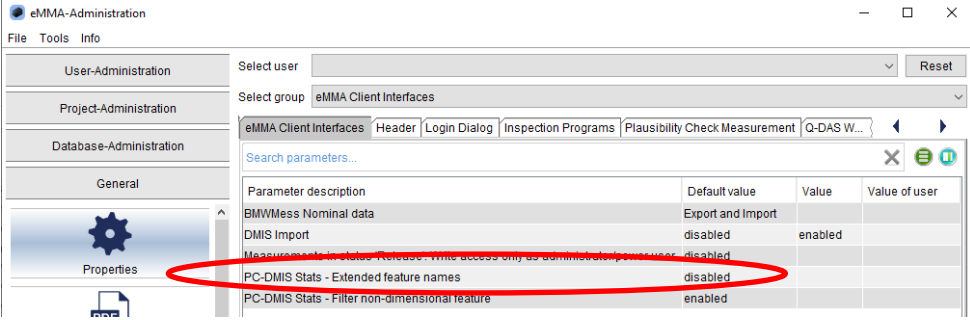
View	<h3>Display of features that are covered by nominal geometry (EMMA-7079)</h3> <p>The screenshot shows the eMMA Planner interface with a 3D model of a part. A context menu is open over the model, and the 'Select Covered Features' option is highlighted with a red circle. The menu also includes options like 'Show referencing features', 'Show referenced features', and 'Invert elements selection'. The background shows a 3D model of a part with various features and dimensions.</p>																																								
Geometry	<h3>Vector graphics display mode also available in Planner (EMMA-7349)</h3> <p>The screenshot shows the eMMA Planner interface with the 'Input' dialog box open. The 'Distance threshold' field is set to 0.2. The dialog has 'OK' and 'Cancel' buttons. The background shows the 'Component Parts' list and the 'Geometry' table.</p> <table border="1"> <thead> <tr> <th>Visible</th> <th>Status</th> <th>Presentation</th> <th>Color</th> <th>Flag</th> <th>Refere...</th> <th>Index</th> <th>Part</th> <th>Alt</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td><input checked="" type="checkbox"/></td> <td>OK</td> <td>Solid</td> <td></td> <td>F</td> <td>7026015</td> <td>C</td> <td>1</td> <td>A</td> <td>FRONTKLAPPE INNENBLECH</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>OK</td> <td>Solid</td> <td></td> <td></td> <td>7026016</td> <td>C</td> <td>1</td> <td>A</td> <td>FRONTKLAPPE INNENBLECH VORNE</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>OK</td> <td>Transparent 10%</td> <td></td> <td></td> <td>7026017</td> <td>B</td> <td>1</td> <td>A</td> <td>FRONTKLAPPE AUSSENHAUT</td> </tr> </tbody> </table>	Visible	Status	Presentation	Color	Flag	Refere...	Index	Part	Alt	Name	<input checked="" type="checkbox"/>	OK	Solid		F	7026015	C	1	A	FRONTKLAPPE INNENBLECH	<input checked="" type="checkbox"/>	OK	Solid			7026016	C	1	A	FRONTKLAPPE INNENBLECH VORNE	<input checked="" type="checkbox"/>	OK	Transparent 10%			7026017	B	1	A	FRONTKLAPPE AUSSENHAUT
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L/R	<p>L/R identifier when creating SYP/SPT features is set according to the y coordinate (EMMA-7353)</p>																																								



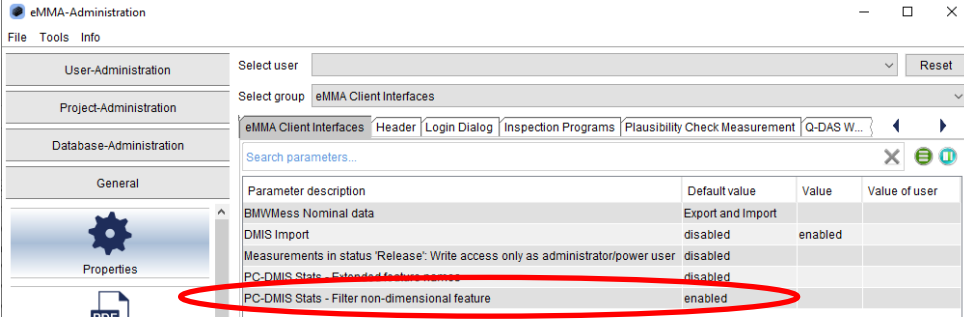
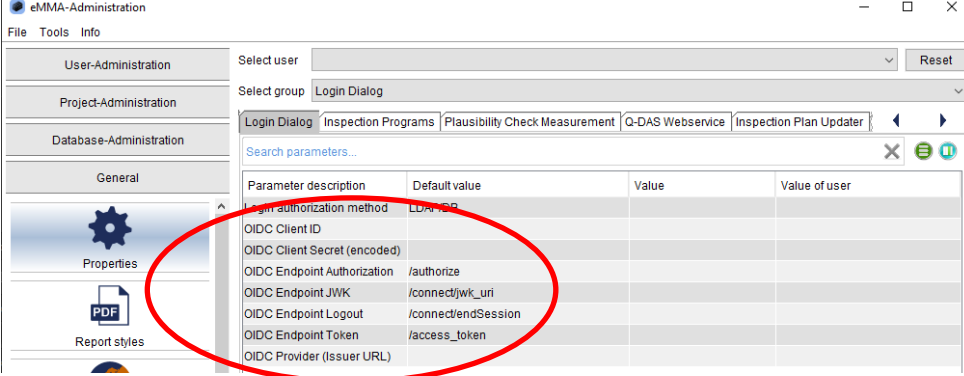
1.1.1.4 eMMA Import/Export

eMMA Import/Export	
Topic	Description
EMMA-CSV	Consistency check of feature position/normal when importing measurement plans via EMMA-CSV (EMMA-6493)
EMMA-CSV	Import/export additional header data fields for measurements via EMMA-CSV (EMMA-7343)
PC-DMIS	Comment on the measurement plan when importing a PC-DMIS Stats file (EMMA-7220)
PC-DMIS	Importing feature comments from PC-DMIS Stats files (EMMA-7312)
DMIS-DMO	Output of out-of-tolerance length/width for RLO/LLO features in DMIS-DMO export (EMMA-7334)
DFQ DMIS-DMO	DFQ export and DMIS DMO export now only take into account features that are also contained in a scene (EMMA-7318) as with the other export formats

1.1.1.5 eMMA Admin Client

eMMA Admin Client	
Topic	Description
Rights	<p>Write rights for measurements in “Release” status only for admin/main users as an option in the admin client (EMMA-7316)</p> 
PC-DMIS	<p>Option in Admin Client for PC-DMIS Stats Import to use extended feature names (EMMA-7252)</p> 



PC-DMIS	<p>Option to enable non-dimensional feature when importing a PC-DMIS Stats file (EMMA-7256)</p>  <p>The screenshot shows the 'eMMA-Administration' window with the 'General' tab selected. The 'PC-DMIS Stats - Filter non-dimensional feature' parameter is highlighted with a red circle. The table below shows the parameter settings:</p> <table border="1"><thead><tr><th>Parameter description</th><th>Default value</th><th>Value</th><th>Value of user</th></tr></thead><tbody><tr><td>BMWMess Nominal data</td><td>Export and Import</td><td></td><td></td></tr><tr><td>DMIS Import</td><td>disabled</td><td>enabled</td><td></td></tr><tr><td>Measurements in status 'Release': Write access only as administrator/power user</td><td>disabled</td><td></td><td></td></tr><tr><td>PC-DMIS Stats - Extended feature names</td><td>disabled</td><td></td><td></td></tr><tr><td>PC-DMIS Stats - Filter non-dimensional feature</td><td>enabled</td><td></td><td></td></tr></tbody></table>	Parameter description	Default value	Value	Value of user	BMWMess Nominal data	Export and Import			DMIS Import	disabled	enabled		Measurements in status 'Release': Write access only as administrator/power user	disabled			PC-DMIS Stats - Extended feature names	disabled			PC-DMIS Stats - Filter non-dimensional feature	enabled														
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PC-DMIS Stats - Extended feature names	disabled																																				
PC-DMIS Stats - Filter non-dimensional feature	enabled																																				
Login	<p>Support for authentication via OIDC in the login dialogue (EMMA-6876)</p>  <p>The screenshot shows the 'eMMA-Administration' window with the 'Login Dialog' tab selected. The 'Login Dialog' configuration table is highlighted with a red circle. The table below shows the configuration details:</p> <table border="1"><thead><tr><th>Parameter description</th><th>Default value</th><th>Value</th><th>Value of user</th></tr></thead><tbody><tr><td>Login authorization method</td><td>LDAP</td><td></td><td></td></tr><tr><td>OIDC Client ID</td><td></td><td></td><td></td></tr><tr><td>OIDC Client Secret (encoded)</td><td></td><td></td><td></td></tr><tr><td>OIDC Endpoint Authorization</td><td>/authorize</td><td></td><td></td></tr><tr><td>OIDC Endpoint JWK</td><td>/connect/jwk_uri</td><td></td><td></td></tr><tr><td>OIDC Endpoint Logout</td><td>/connect/endTimeSession</td><td></td><td></td></tr><tr><td>OIDC Endpoint Token</td><td>/access_token</td><td></td><td></td></tr><tr><td>OIDC Provider (Issuer URL)</td><td></td><td></td><td></td></tr></tbody></table>	Parameter description	Default value	Value	Value of user	Login authorization method	LDAP			OIDC Client ID				OIDC Client Secret (encoded)				OIDC Endpoint Authorization	/authorize			OIDC Endpoint JWK	/connect/jwk_uri			OIDC Endpoint Logout	/connect/endTimeSession			OIDC Endpoint Token	/access_token			OIDC Provider (Issuer URL)			
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OIDC Endpoint Logout	/connect/endTimeSession																																				
OIDC Endpoint Token	/access_token																																				
OIDC Provider (Issuer URL)																																					
ODiN	Simplified ODiN server configuration in the admin client (EMMA-6332)																																				
Plausibility check	Mailing lists for plausibility check optionally depending on measurement supplier (EMMA-7250)																																				



1.1.2 Bug corrections

1.1.2.1 eMMA Server/Client

eMMA Server/Client	
Topic	Description
History	Errors in the history entries when creating a 3D analysis corrected (EMMA-7290)
Inquiry	Inquiry did not show changes to the evaluation direction (EMMA-7372)

1.1.2.2 eMMA Analyst

eMMA Analyst	
Topic	Description
Performance	Slow loading of the classification if we select a specific class in EMMA 3D Analyst with a component having more than 12000 characteristics (EMMA-7062)
Single page mode	Problem selecting features in a single page mode (EMMA-7206)
Template	Missing overview sheet when importing a template (EMMA-7227)
Feature table	Sorting of the feature table is lost (EMMA-7228)
FMK Editor	In the FMK Editor, it is possible to create scenes that do not make sense and are not saved (EMMA-7111)

1.1.2.3 eMMA Import/Export

eMMA Import/Export	
Topic	Description
Holos	Fixed Holos TXT import error when parsing feature names (EMMA-7248)
DMIS-DMO	Error during export of empty direction vectors to DMIS-DMO corrected (EMMA-7266)
PC-DMIS	Error during import of a PC-DMIS Stats measurement corrected (EMMA-7374)
PC-DMIS	Error corrected when importing a PC-DMIS Stats file as a new version (EMMA-7355)
STL	Problem importing STL files received from Shengu Group (EMMA-7387)
eMMA-DX	Measurement comments were not transferred in EMMA-DX (EMMA-7371)



1.1.2.4 eMMA Data Collector

eMMA Data Collector	
Topic	Description
Measurement plan	DataCollector did not detect a measurement plan version already available in EMMA (EMMA-7223)

1.1.2.5 eMMA Admin Client

eMMA Admin Client	
Topic	Description
Manual	Added menu item in Admin Client to open the manual (EMMA-7224)
Display	Highlighting of the selected tab in the General/Properties view improved (EMMA-7305)

1.1.2.6 eMMA Reporter

eMMA Reporter	
Topic	Description
Filter	Project filter corrected for measurements (EMMA-7091)

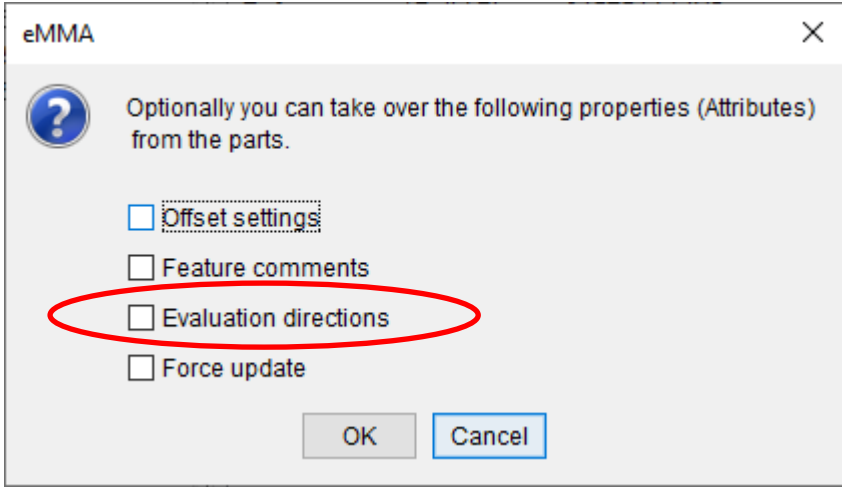


2 Release notes 2024

2.1 30.11.2024: Version 2024.2 (3.6.2)

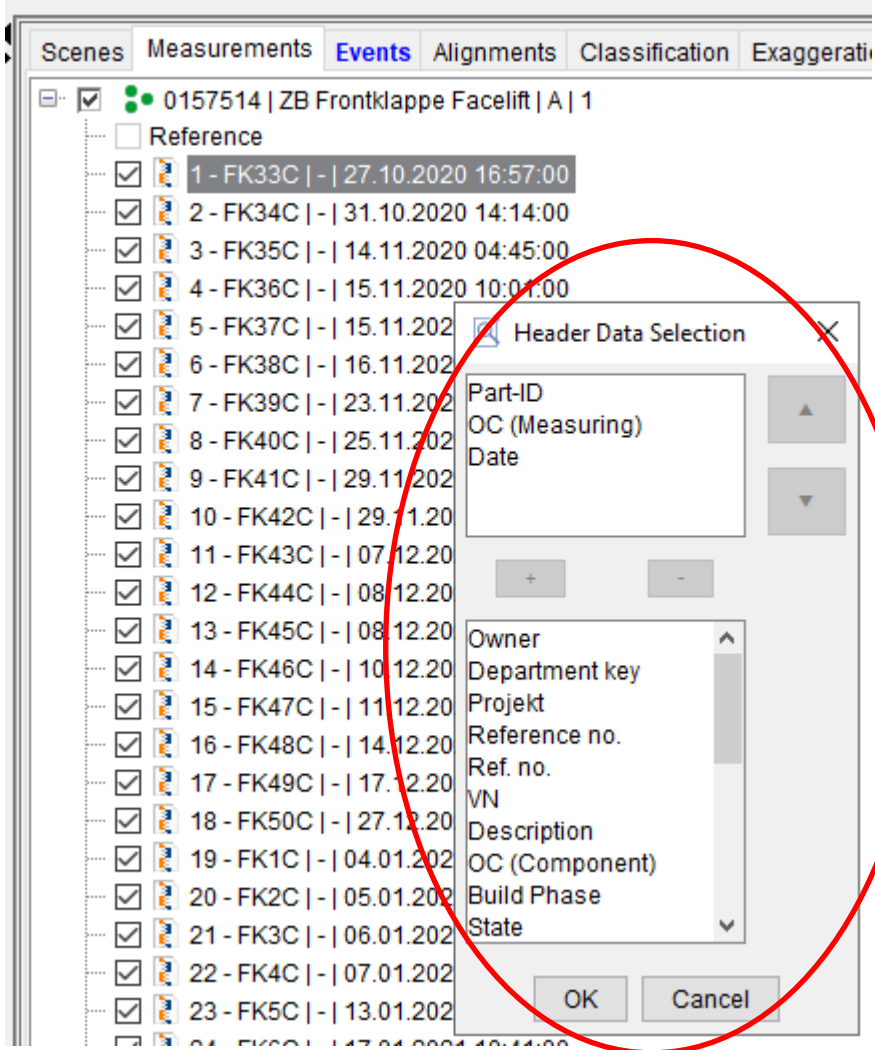
2.1.1 Enhancements

1.1.2.7 eMMA Server/Client

eMMA Server/Client	
Topic	Description
Update assembly	<p>New option for adopting/retaining evaluation directions when updating an assembly component part structure (EMMA-6672):</p> 
Quick search function	Extension of the quick search function regarding sorting of projects and display of the first user (EMMA-7074)
QA	Extension of the "Export QA Sheet" function to include the selection of a QLV and output of the tolerances defined there (EMMA-5507)
QA	Extension of the edit dialogue of a QA for displaying/editing the measurements used in the last calculation (EMMA-7075)
Mirroring	Mirroring of measurement plans with selectable left/right assignment of part numbers (EMMA-7078)

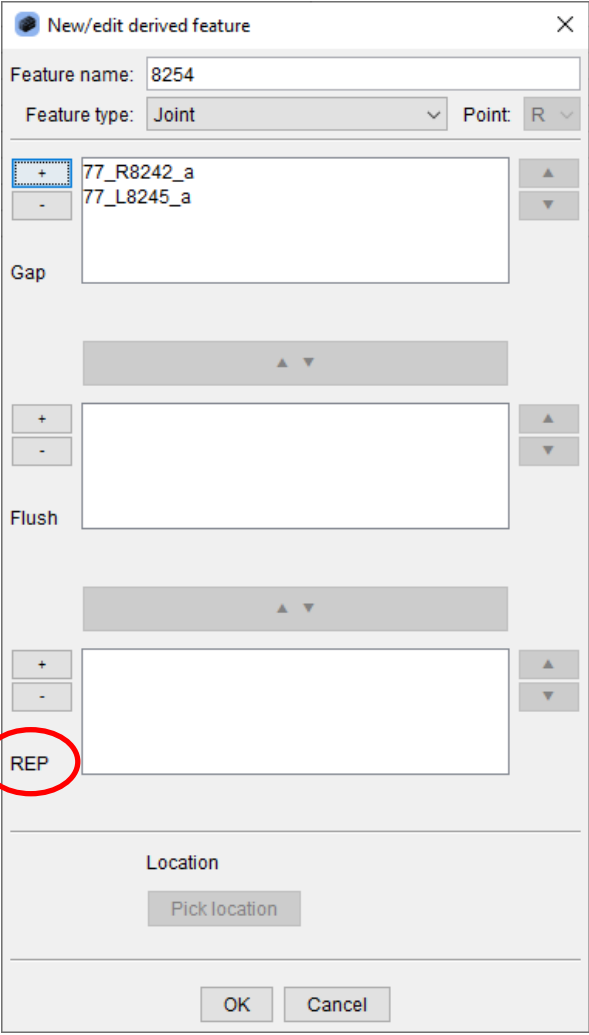


1.1.2.8 eMMA Analyst

eMMA Analyst	
Topic	Description
Linked features	Support for the evaluation of linked features in long-term analyses (EMMA-7017)
Plausibility check	Measurements with failed plausibility check are marked accordingly in the measurement tree (EMMA-7018)
Display distance	The "Display distance" function from the EMMA planner is now also available in the analysis modules (EMMA-7020)
Measurement header data	<p>In the measurement navigation tree, the displayed measurement header data can be configured via a new dialogue:</p>  <p>(EMMA-7021)</p>
Title	The title now shows the current component part (EMMA-7159)
History	Creating/editing a 3D session in the history of a component part (EMMA-7168)



1.1.2.9 eMMA Planner

eMMA Planner	
Topic	Description
Title	The title now shows the current component part (EMMA-7159)
Type of joint	Extension of the Planner function to edit the type of a joint feature (EMMA-7080)
Joint feature	<p>Extension of the joint feature for optional definition of REP points:</p>  <p>(EMMA-7083)</p>
Search filters	Extension of the search filter in the feature table so that it also affects the type and comment (EMMA-7077)



1.1.2.10 eMMA Data Collector

eMMA Data Collector	
Topic	Description
Process Integrations	Optionally, an imported measurement file can now be copied in parallel to another directory for external process integrations (EMMA-7191)

1.1.2.11 Import/Export

Import/Export	
Topic	Description
Joint feature with RAL points	Import/export for joint feature with RAL points via BMW-Ipp-/EMMA-CSV (EMMA-7151)
VW CSV import	Plausibility check of length/width for slotted/rectangular holes during CATIA list/VW CSV import (EMMA-7022)
Type of joint	Output of the type of a joint feature in the BMW Ipp/EMMA CSV file (EMMA-7081)

1.1.2.12 eMMA Admin Client

eMMA Admin Client	
Topic	Description
Inline databases	The database ID of external inline databases is also displayed (EMMA-7105)



1.1.3 Bug corrections

1.1.3.1 eMMA Server/Client

eMMA Server/Client	
Topic	Description
Batch import	The dialogue window for “Batch Import” was not formatted correctly for some font sizes (EMMA-6836)
Feature label position	In PDF reports, the position of the feature label did not match the linked template images for transformed component parts (EMMA-7039)
Automatic PDF Reports	Error processing automatic generation of PDF reports in EMMA Client did not work correctly when using a PostgreSQL database (EMMA-7161)

1.1.3.2 eMMA Analyst

eMMA Analyst	
Topic	Description
Classification per scene	Fixed problem with assigning different classifications per scene (EMMA-7090)
Bar charts	In the bar chart, untoleranced axes are now shown with a grey title in the same way as in the progress graph (EMMA-7148)
Circularity	Evaluation direction for feature type roundness was not saved correctly (EMMA-7110)

1.1.3.3 eMMA Assembler

eMMA Assembler	
Topic	Description
Referenced Features	The “Select referenced features” function is now also available in the assembler (EMMA-7149)

1.1.3.4 eMMA Planner

eMMA Planner	
Topic	Description
GD&T Feature	In the dialogue for creating a new GD&T feature, the Pick Location option did not work correctly (EMMA-7109)
Asymmetrical tolerance	Asymmetric tolerance is now taken into account when rotating the vector of a face point (EMMA-7141)



1.1.3.5 eMMA Import/Export

eMMA Server/Client	
Topic	Description
BMW Ipp/ eMMA CSV	When importing a BMW Ipp/EMMA CSV file, it prevents an area point from being incorrectly imported with 2 references (EMMA-6790)
DMIS-DMO	It was not possible to import distances based on the identical reference feature via DMIS file (EMMA-7163)

1.1.3.6 eMMA Admin Client

eMMA Admin Client	
Topic	Description
Inline databases	Could not delete entries for inline databases in Admin Client (EMMA-7046)

1.1.3.7 eMMA Data Collector

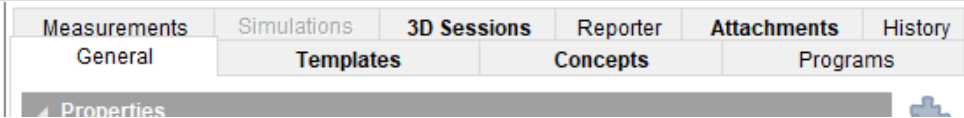
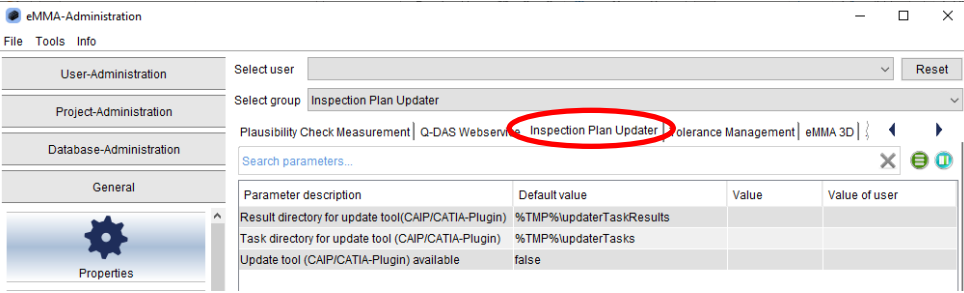
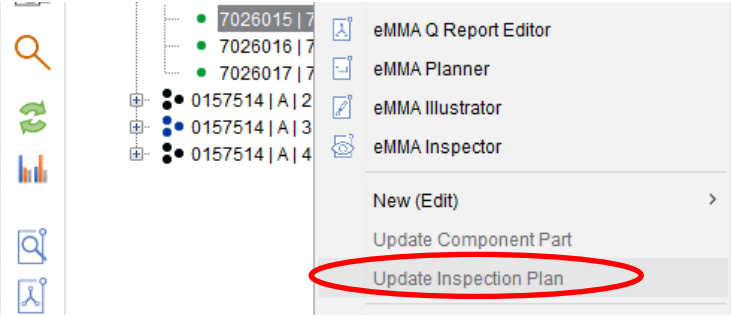
eMMA Data Collector	
Topic	Description
PC-DMIS	Correction when importing measurement header data from a PC-DMIS Stats file (EMMA-7041)



2.2 30.09.2024: Version 2024.2 (3.6.1)

2.2.1 Enhancements

1.1.3.8 eMMA Server/Client

eMMA Server/Client	
Topic	Description
<p>Tabs</p>	<p>The tabs "Templates", "3D Sessions", "Attachments" and "Concepts" in the eMMA client are now highlighted if data sets are available (EMMA-6759)</p> 
<p>Favourite</p>	<p>Favourite nodes can now also be removed via multi-selection (EMMA-6991)</p>
<p>CATIA</p>	<p>New function for automatic measurement plan update via control of a CATIA plug-in for updating the CAD models (EMMA-6669/ EMMA-6670) The input and results folders can be configured in the administrator client to connect the CATIA plug-in:</p>  <p>After activation, the "Update inspection plan" function is then available in the eMMA client:</p>  <p>This creates an order file with the part number and optionally the desired index in the inbox folder. The system then waits with further processing until the MPA tool provides a CSV file in the results folder. The following information is expected in this file: <measurement plan item number>, <designation of measurement plan>, <original index>, <original version>, <nominal index>, <nominal version>, <status>, <error message> Finally, the standard template is copied and updated.</p>



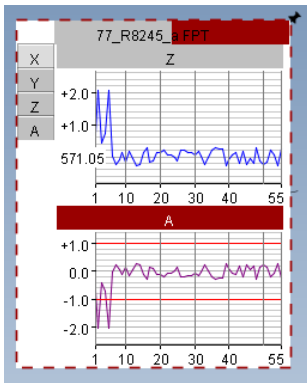
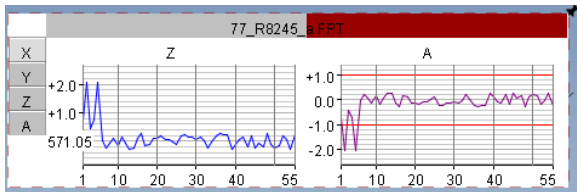
<p>symmetrical features</p>	<p>Output of left and right tolerances for symmetrical features in the PDF catalogues (EMMA-6671)</p> <div style="text-align: center;"> <h2>BMW Group</h2> <h2>Messbericht</h2> <p>1 - A1 S77 B1 AUSRIK</p> <table border="1"> <thead> <tr> <th rowspan="2">Merkmals-Bezeichnung</th> <th rowspan="2">Ausr./Tastr.</th> <th rowspan="2">Sollwerte</th> <th colspan="3">FK1</th> </tr> <tr> <th>Abw.Li.</th> <th>Abw.Re.</th> <th>Abw.Li.</th> </tr> </thead> <tbody> <tr> <td colspan="6">Bereich: 1 AUSRICHPUNKTE</td> </tr> <tr> <td colspan="6">Baustufe (Bauteil): FRONTKLAPPE AUSSENHAUT / 7026017 / B / 1 / MS: 0.75</td> </tr> <tr> <td colspan="6">Toleranzen: X Y Z A 0.28 -0.28 / 0.29 -0.29</td> </tr> <tr> <td colspan="6">QLV: ZB00002 / Ausrichtungspunkt in "Z"</td> </tr> <tr> <td>77_S8200_c</td> <td>X</td> <td>400,00</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>Y</td> <td>-738,00</td> <td></td> <td></td> <td></td> </tr> <tr> <td>FPT / r a</td> <td>-Z</td> <td>555,84</td> <td>0.07</td> <td>-0.07</td> <td></td> </tr> </tbody> </table> </div>	Merkmals-Bezeichnung	Ausr./Tastr.	Sollwerte	FK1			Abw.Li.	Abw.Re.	Abw.Li.	Bereich: 1 AUSRICHPUNKTE						Baustufe (Bauteil): FRONTKLAPPE AUSSENHAUT / 7026017 / B / 1 / MS: 0.75						Toleranzen: X Y Z A 0.28 -0.28 / 0.29 -0.29						QLV: ZB00002 / Ausrichtungspunkt in "Z"						77_S8200_c	X	400,00					Y	-738,00				FPT / r a	-Z	555,84	0.07	-0.07	
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<p>Evaluation report</p>	<p>When editing an evaluation report, the measurement filter can now also be edited for a multi-selection and the output format can be saved (EMMA-6655)</p>																																																			
<p>Evaluation report</p>	<p>Warning message added to the dialogue for defining an evaluation if the template for the measurement plan is missing (EMMA-6974)</p> <div style="border: 1px solid gray; padding: 10px; text-align: center;"> <p> No template is selected for the following inspection plan:</p> <p>0157514 0157514 A 4 MPZ 1VS ZB Frontklappe Facelift</p> <p>Do you really want to continue?</p> <p><input type="button" value="Yes"/> <input type="button" value="No"/></p> </div>																																																			
<p>Update</p>	<p>New options for adopting evaluation axes for spacing and hole patterns when updating a component part (EMMA-6672)</p> <div style="border: 1px solid gray; padding: 10px;"> <p>eMMA ✕</p> <p> Optionally you can take over the following properties (Attributes) from the parts.</p> <p><input type="checkbox"/> Offset settings</p> <p><input type="checkbox"/> Feature comments</p> <p><input type="checkbox"/> Force update</p> <p>Adoption of evaluation directions:</p> <p><input type="checkbox"/> Distance: a, dA and dB</p> <p><input type="checkbox"/> Hole pattern: d, l and b</p> <p style="text-align: center;"><input type="button" value="OK"/> <input type="button" value="Cancel"/></p> </div>																																																			
<p>QLV header</p>	<p>Dialogue for editing the QLV header data has been adapted to allow selection from all locations (EMMA-6674)</p>																																																			



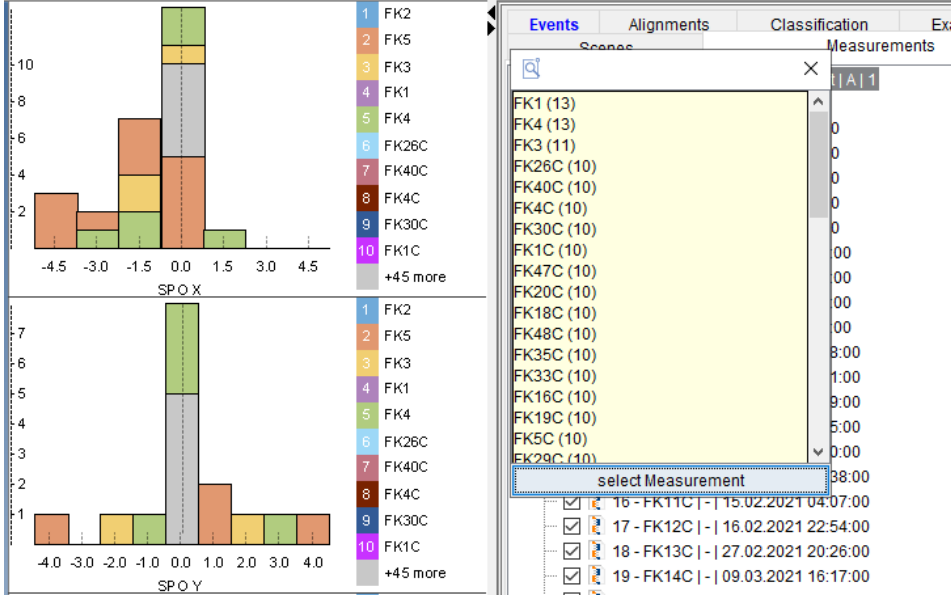
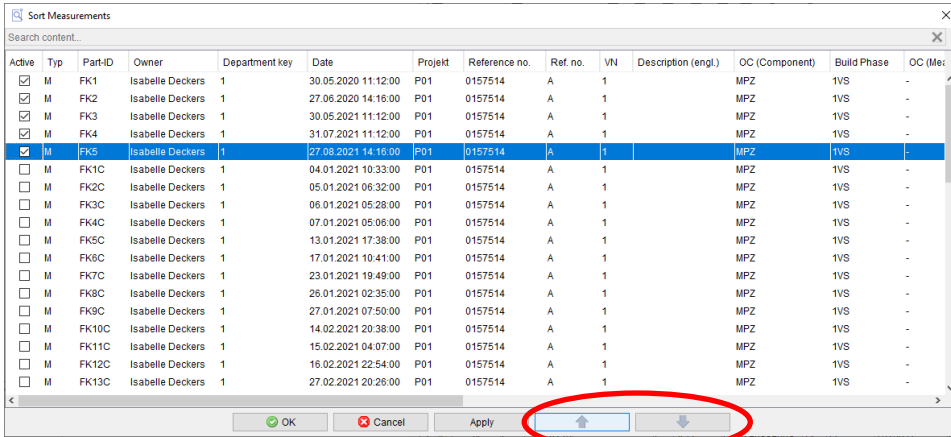
Plausibility check	Verification of area points in category 4 of the plausibility check of measurements independent of evaluation axes (EMMA-6714)
Plausibility check	Listing of locations in search function plausibility check improved (EMMA-6992)
Measurement search	The maximum number of entries in the measurement search table has been increased to 5000 (EMMA-6925)
Performance	Optimisation of performance when calling up and executing evaluation reports (EMMA-6956)
China	Chinese characters (e.g. in the company name) were not displayed correctly on the title page or header/footer in the PDF reports (eMMA Standalone Analyst) (EMMA-6694)
Nexus	First connection of the eMMA client with the Nexus application Metrology-Reporting (EMMA-6812)



1.1.3.9 eMMA Analyst

eMMA Analyst	
Topic	Description
Label	<p>Feature label with individual diagrams per feature axis now with extended settings (EMMA-4531): New options in general settings: Labels can generally be displayed vertically instead of horizontally Labels can be divided into individual diagrams per axis</p> <div style="border: 1px solid #ccc; padding: 10px; background-color: #f9f9f9;"> <p>Other label settings</p> <p>Number of decimal places 2 ▾</p> <p><input type="checkbox"/> Individual scaling of axis per feature</p> <p><input type="checkbox"/> Use time instead of measurement number as x-coord in mode trend chart.</p> <p><input checked="" type="checkbox"/> Move labels to prevent label intersections (only manually positioned labels)</p> <p><input type="checkbox"/> Draw per axis labels vertically</p> <p><input type="checkbox"/> Split Linediagram per axis</p> <p style="text-align: right;">OK Cancel</p> </div> <p>For individually positioned labels (pin mode), you can choose between horizontal and vertical alignment by simply clicking in the title bar of the label:</p> <div style="display: flex; justify-content: space-around;">   </div>
Form&Location feature	Form&Location features are now displayed with an icon in the feature table and feature label (EMMA-6540)
Boxplot	The feature label for the boxplot now supports up to 13 measurement groups (EMMA-6634)
Feature type	The "Create scenes automatically" function now also offers the option of grouping by feature type (EMMA-6659)



<p>Histogram</p>	<p>Extension of the "Histogram" display mode (EMMA-6673): Up to 30 measurements can now be selected, a tooltip appears when a bar is selected and a configurable display of statistical parameters is possible via the settings menu:</p> 																																																																																																																																																																																																																																																								
<p>Shortcuts</p>	<p>The most important functions from the context menu can now also be accessed via keyboard shortcuts (EMMA-6743)</p>																																																																																																																																																																																																																																																								
<p>Trend chart</p>	<p>The tolerances are now also shown in the trend chart for several axes, provided the upper and lower tolerances match (EMMA-6818)</p>																																																																																																																																																																																																																																																								
<p>Trend chart</p>	<p>In the trend chart, a colour with a higher contrast to the white background is now used for the circle diameter, for example, to make it easier to read (EMMA-6957)</p>																																																																																																																																																																																																																																																								
<p>Linked feature</p>	<p>If the deviation cannot be calculated for a linked feature (distance, symmetry), the deviation value from the database is displayed, if available (EMMA-6866/EMMA-6440)</p>																																																																																																																																																																																																																																																								
<p>Standard deviation</p>	<p>The standard deviation is now also displayed if individual measured values are missing in the measurement series (EMMA-6943)</p>																																																																																																																																																																																																																																																								
<p>Measurements</p>	<p>In the dialogue for sorting the measurements, individual entries can now be sorted manually using the arrow buttons (EMMA-6947):</p>  <table border="1" data-bbox="443 1630 1399 1982"> <thead> <tr> <th>Active</th> <th>Typ</th> <th>Part-ID</th> <th>Owner</th> <th>Department key</th> <th>Date</th> <th>Projekt</th> <th>Reference no.</th> <th>Ref. no.</th> <th>VN</th> <th>Description (engl.)</th> <th>OC (Component)</th> <th>Build Phase</th> <th>OC (Me)</th> </tr> </thead> <tbody> <tr><td><input checked="" type="checkbox"/></td><td>M</td><td>FK1</td><td>Isabelle Deckers</td><td>1</td><td>30.05.2020 11:12:00</td><td>P01</td><td>0157514</td><td>A</td><td>1</td><td>MPZ</td><td>1VS</td><td>-</td></tr> <tr><td><input checked="" type="checkbox"/></td><td>M</td><td>FK2</td><td>Isabelle Deckers</td><td>1</td><td>27.06.2020 14:16:00</td><td>P01</td><td>0157514</td><td>A</td><td>1</td><td>MPZ</td><td>1VS</td><td>-</td></tr> <tr><td><input checked="" type="checkbox"/></td><td>M</td><td>FK3</td><td>Isabelle Deckers</td><td>1</td><td>30.05.2021 11:12:00</td><td>P01</td><td>0157514</td><td>A</td><td>1</td><td>MPZ</td><td>1VS</td><td>-</td></tr> <tr><td><input checked="" type="checkbox"/></td><td>M</td><td>FK4</td><td>Isabelle Deckers</td><td>1</td><td>31.07.2021 11:12:00</td><td>P01</td><td>0157514</td><td>A</td><td>1</td><td>MPZ</td><td>1VS</td><td>-</td></tr> <tr><td><input checked="" type="checkbox"/></td><td>M</td><td>FK5</td><td>Isabelle Deckers</td><td>1</td><td>27.08.2021 14:16:00</td><td>P01</td><td>0157514</td><td>A</td><td>1</td><td>MPZ</td><td>1VS</td><td>-</td></tr> <tr><td><input type="checkbox"/></td><td>M</td><td>FK1C</td><td>Isabelle Deckers</td><td>1</td><td>04.01.2021 10:33:00</td><td>P01</td><td>0157514</td><td>A</td><td>1</td><td>MPZ</td><td>1VS</td><td>-</td></tr> <tr><td><input type="checkbox"/></td><td>M</td><td>FK2C</td><td>Isabelle Deckers</td><td>1</td><td>05.01.2021 06:32:00</td><td>P01</td><td>0157514</td><td>A</td><td>1</td><td>MPZ</td><td>1VS</td><td>-</td></tr> <tr><td><input type="checkbox"/></td><td>M</td><td>FK3C</td><td>Isabelle Deckers</td><td>1</td><td>06.01.2021 05:28:00</td><td>P01</td><td>0157514</td><td>A</td><td>1</td><td>MPZ</td><td>1VS</td><td>-</td></tr> <tr><td><input type="checkbox"/></td><td>M</td><td>FK4C</td><td>Isabelle Deckers</td><td>1</td><td>07.01.2021 05:06:00</td><td>P01</td><td>0157514</td><td>A</td><td>1</td><td>MPZ</td><td>1VS</td><td>-</td></tr> <tr><td><input type="checkbox"/></td><td>M</td><td>FK5C</td><td>Isabelle Deckers</td><td>1</td><td>13.01.2021 17:38:00</td><td>P01</td><td>0157514</td><td>A</td><td>1</td><td>MPZ</td><td>1VS</td><td>-</td></tr> <tr><td><input type="checkbox"/></td><td>M</td><td>FK6C</td><td>Isabelle Deckers</td><td>1</td><td>17.01.2021 10:41:00</td><td>P01</td><td>0157514</td><td>A</td><td>1</td><td>MPZ</td><td>1VS</td><td>-</td></tr> <tr><td><input type="checkbox"/></td><td>M</td><td>FK7C</td><td>Isabelle Deckers</td><td>1</td><td>23.01.2021 19:49:00</td><td>P01</td><td>0157514</td><td>A</td><td>1</td><td>MPZ</td><td>1VS</td><td>-</td></tr> <tr><td><input type="checkbox"/></td><td>M</td><td>FK8C</td><td>Isabelle Deckers</td><td>1</td><td>26.01.2021 02:35:00</td><td>P01</td><td>0157514</td><td>A</td><td>1</td><td>MPZ</td><td>1VS</td><td>-</td></tr> <tr><td><input type="checkbox"/></td><td>M</td><td>FK9C</td><td>Isabelle Deckers</td><td>1</td><td>27.01.2021 07:50:00</td><td>P01</td><td>0157514</td><td>A</td><td>1</td><td>MPZ</td><td>1VS</td><td>-</td></tr> <tr><td><input type="checkbox"/></td><td>M</td><td>FK10C</td><td>Isabelle Deckers</td><td>1</td><td>14.02.2021 20:38:00</td><td>P01</td><td>0157514</td><td>A</td><td>1</td><td>MPZ</td><td>1VS</td><td>-</td></tr> <tr><td><input type="checkbox"/></td><td>M</td><td>FK11C</td><td>Isabelle Deckers</td><td>1</td><td>15.02.2021 04:07:00</td><td>P01</td><td>0157514</td><td>A</td><td>1</td><td>MPZ</td><td>1VS</td><td>-</td></tr> <tr><td><input type="checkbox"/></td><td>M</td><td>FK12C</td><td>Isabelle Deckers</td><td>1</td><td>16.02.2021 22:54:00</td><td>P01</td><td>0157514</td><td>A</td><td>1</td><td>MPZ</td><td>1VS</td><td>-</td></tr> <tr><td><input type="checkbox"/></td><td>M</td><td>FK13C</td><td>Isabelle Deckers</td><td>1</td><td>27.02.2021 20:26:00</td><td>P01</td><td>0157514</td><td>A</td><td>1</td><td>MPZ</td><td>1VS</td><td>-</td></tr> </tbody> </table>	Active	Typ	Part-ID	Owner	Department key	Date	Projekt	Reference no.	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<input type="checkbox"/>	M	FK7C	Isabelle Deckers	1	23.01.2021 19:49:00	P01	0157514	A	1	MPZ	1VS	-																																																																																																																																																																																																																																													
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<input type="checkbox"/>	M	FK9C	Isabelle Deckers	1	27.01.2021 07:50:00	P01	0157514	A	1	MPZ	1VS	-																																																																																																																																																																																																																																													
<input type="checkbox"/>	M	FK10C	Isabelle Deckers	1	14.02.2021 20:38:00	P01	0157514	A	1	MPZ	1VS	-																																																																																																																																																																																																																																													
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<input type="checkbox"/>	M	FK12C	Isabelle Deckers	1	16.02.2021 22:54:00	P01	0157514	A	1	MPZ	1VS	-																																																																																																																																																																																																																																													
<input type="checkbox"/>	M	FK13C	Isabelle Deckers	1	27.02.2021 20:26:00	P01	0157514	A	1	MPZ	1VS	-																																																																																																																																																																																																																																													



E3D file	The setting for fixed measurements is now also saved in the E3D file (EMMA-6732)
E3D file	Different classifications can now be assigned per scene and saved in the E3D file (EMMA-6810)

1.1.3.10 eMMA Planner

eMMA Planner	
Topic	Description
Rename feature	When checking that the name is unique when renaming a feature, the page ID is now also taken into account (EMMA-6684)
Assembly feature	For features that have been transferred from the individual part to the assembly, it is no longer possible to edit the nominal data in the assembly (EMMA-6856)

1.1.3.11 eMMA Illustrator

eMMA Illustrator	
Topic	Description
Display	The two display options for geometries "Edges" and "Triangles and edges" are now also saved in the Illustrator scene (EMMA-6861)

1.1.3.12 eMMA Data Collector

eMMA Data Collector	
Topic	Description
Error files	If import jobs in the DataCollector fail, the error files can now also be sent by e-mail (EMMA-6737)
ViLma import	Improved processing of ".meta" files for ViLma import (EMMA-6760)



1.1.3.13 Import/Export

Import/Export	
Topic	Description
Export	When exporting the measurement plan, the export path is created by eMMA if it does not yet exist (EMMA-6421)
Perceptron	The measurement import of a file from Perceptron now also supports the variant from Seat (EMMA-6667)
JSON	Support for importing measurement plans and measurements from JSON files from Metrology-Reporting (EMMA-6710)
CSV	Adaptation of the processing of L/R identifiers when importing CSV files from Porsche (EMMA-6772)
CSV	When importing measurement plans via eMMA-CSV, linked features can now be added without the references having to be included in the file again (EMMA-6668)
CSV	New option when importing a VW/Catia list CSV file to ignore an L/R identifier in the feature name (EMMA-6900)
PC-DMIS	When importing a PC-DMIS stats file, the "Alignment" commands are now also taken into account (EMMA-6841)
DMIS	Support for importing DMIS files with assignment of tolerances via non-unique identifiers (EMMA-6858)
DMIS-DMO	Improved log entries when importing a DMIS DMO file (EMMA-6711)
DMIS-DMO	New option when exporting a DMIS DMO file to support Porsche header data (EMMA-6926)



1.1.4 Bug corrections

1.1.4.1 eMMA Server/Client

eMMA Server/Client	
Topic	Description
Linked features	Fixed cancellation when creating PDF reports in connection with linked features where not all references have been measured (EMMA-5969)
PDF report	The 3D labels were missing in the PDF reports for position features (EMMA-6006)
History	Missing entries in the grouping of the change history are now summarised under "Other" (EMMA-6709)
Search	The extended component part search did not switch correctly to a different context when jumping to a corresponding component part (EMMA-6733)
Plausibility check	Protocol of the measurement plausibility check corrected by no longer including unlisted categories in the total number (EMMA-6966)

1.1.4.2 eMMA Analyst

eMMA Analyst	
Topic	Description
Trend chart	Cp/Cpk values were not always displayed correctly in the trend chart for shape feature (EMMA-4592)
3D view	Selection of the view plane by clicking on the cube of the axis display in 3D view was no longer possible (Java 11) (EMMA-6258)
PDF report	Corrected scaling of the bars of a deviation classification in a PDF report with a 4K screen resolution (EMMA-6716)
Sphere	Missing display of the tolerances of a feature of type sphere corrected (EMMA-6774/EMMA-6779)
Trend numerical	Incorrect scaling of the feature label in "Trend numerical" if no measurement has been selected, corrected (EMMA-6780)
Bar chart	Incorrect colouring of the title bar in the "Bar chart" feature label when deviations are displayed instead of measured values has been fixed (EMMA-6815/EMMA-6828)
Angles	Fixed incorrect cancellation when opening measurement plans containing angles formed from symmetry points (EMMA-6819)
PDF report	Incorrect positioning of fixed feature labels in the PDF output corrected (EMMA-6700)
FMK	Incorrect assignment of lower and upper tolerance when transferring tolerances from a FMK to the measurement plan corrected (EMMA-6835)



1.1.4.3 eMMA Assembler

eMMA Inspector	
Topic	Description
Session	Fixed incorrect cancellation when opening an assembler session (EMMA-6806)

1.1.4.4 eMMA Import/Export

eMMA Import/Export	
Topic	Description
eMMA-CSV	The German translation was missing in the options for eMMA-CSV export (EMMA-6486)
DMIS DMO	Improvement of warning and error messages when importing a DMIS DMO file (EMMA-6712)
DMIS DMO	When exporting to a DMIS-DMO file, a measurement must now always be selected (EMMA-6843)
DMO	Problems with DMO measurement import of mirrored features fixed (EMMA-6980)
DMIS DMO	When importing a DMIS DMO file, the radius is now correctly adopted as the circle diameter for an ARC feature (EMMA-6730)
DMIS DMO	Improved handling of length/width when importing a DMIS DMO file (EMMA-6600)

1.1.4.5 eMMA Admin Client

eMMA Admin Client	
Topic	Description
Internationalisation	Missing internationalisation in the configuration of PDF catalogues added (EMMA-6680)
Internationalisation	Missing internationalisation added for "orientations towards production" (EMMA-6727)

1.1.4.6 eMMA Data Collector

eMMA Data Collector	
Topic	Description
DMIS-DMO	Added recognition of "%%" in the file name as separator for the header data when importing DMIS-DMO files (EMMA-6726)



1.1.4.7 eMMA Reporter

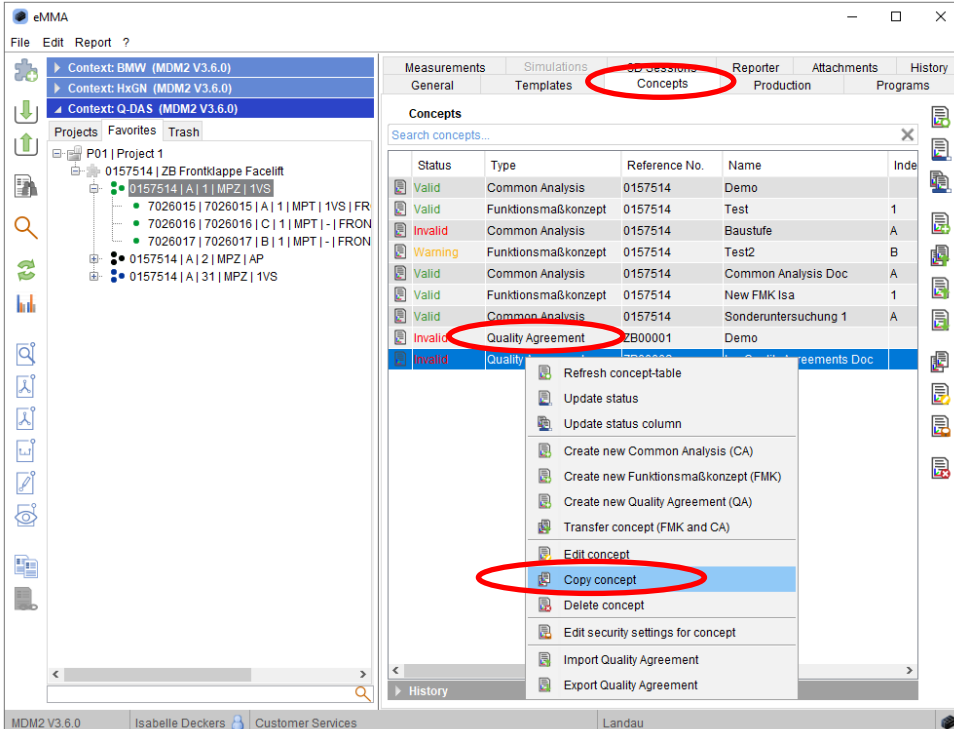
eMMA Reporter	
Topic	Description
Payara 5	Incorrect deployment under Payara 5 corrected (EMMA-6588)
Q-View	Incomplete Q-View calculation corrected (EMMA-6611)
Q-View	Revision of Q-View creation to optimise runtimes (EMMA-6767)



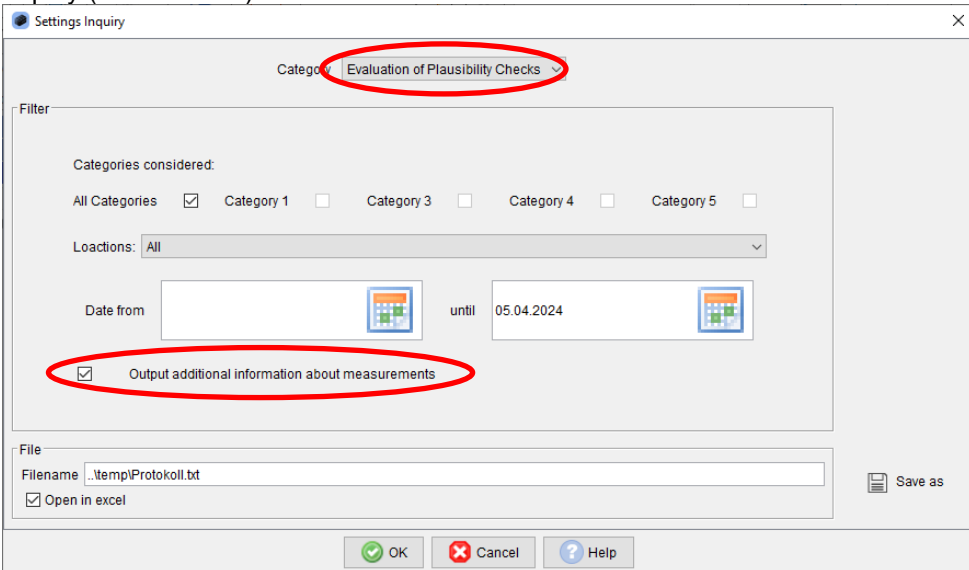
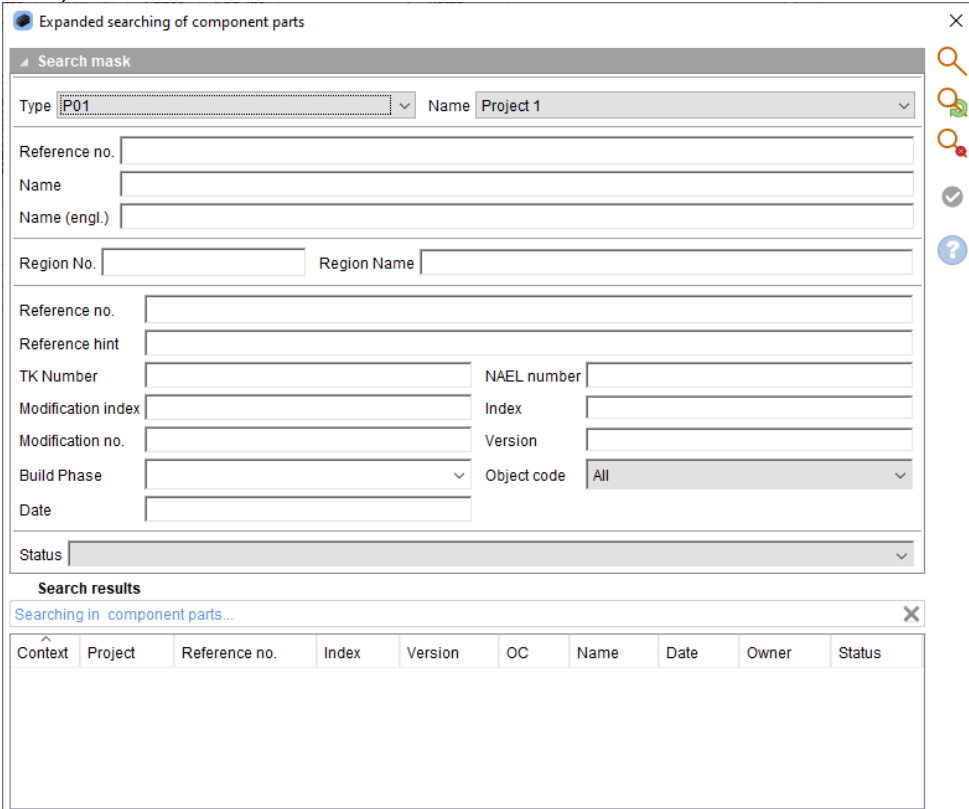
2.3 28.03.2024: Version 2024.1 (3.6.0)

2.3.1 Enhancements

1.1.4.8 eMMA Server/Client

eMMA Server/Client	
Topic	Description
Teamcenter	Extension of Teamcenter interface with "Saved Variant Rules" (EMMA-6269)
Quality agreements	New function for copying quality agreements (EMMA-5486)  <p>The screenshot shows the eMMA application window with a tree view on the left and a 'Concepts' table on the right. A context menu is open over a 'Quality Agreement' entry in the table. The 'Copy concept' option is highlighted and circled in red. Other options in the menu include 'Edit concept', 'Delete concept', and 'Export Quality Agreement'. The table has columns for Status, Type, Reference No., Name, and Index. The 'Quality Agreement' entry has a status of 'Invalid' and a reference number of 'ZB00001'.</p>



<p>Inquiry</p>	<p>Output of all header data for measurements in the "Plausibility check evaluation" inquiry (EMMA-6075)</p> 
<p>Search</p>	<p>Extended component search function now ignores upper/lower case (EMMA-6076)</p> 



Plausibility check

Inconsistent colour coding in the job control window during measurement plausibility check corrected (EMMA-6086)

The screenshot shows the JobControl window with a table of jobs. The table has columns for 'Categorie', 'Name', 'Starting time', 'Finish time', and 'Status'. The first row is highlighted in red, and the second row is highlighted in blue. The remaining rows are in black. Below the table are buttons for 'Show Logfile', 'Show Logfile sorted', and 'Remove Job'. A 'Logfile:' label is present above a large empty text area.

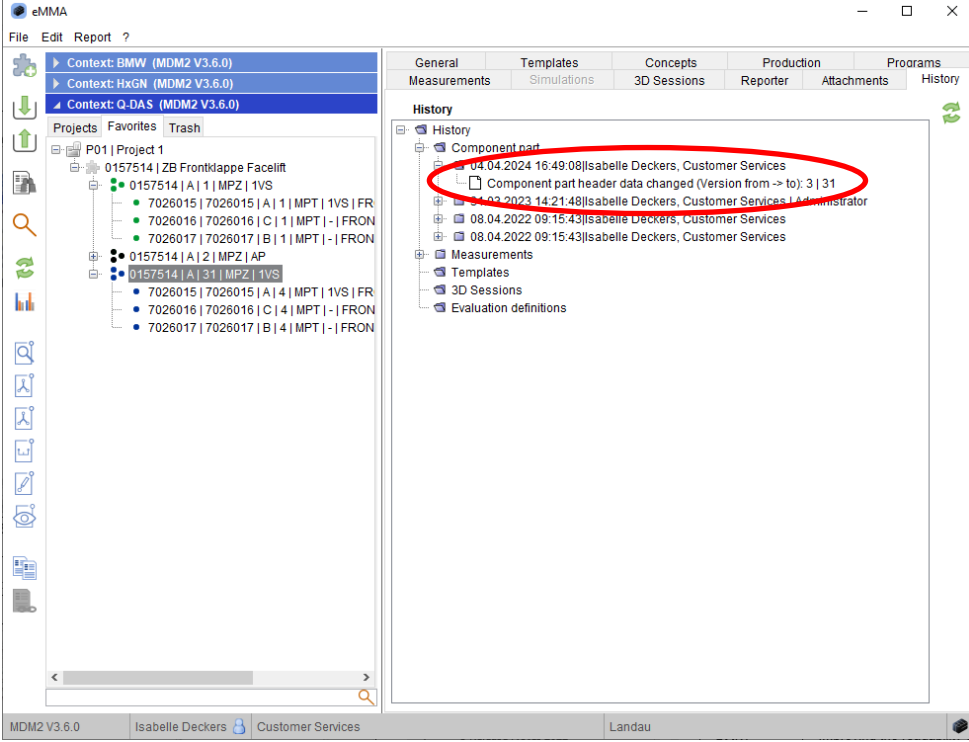
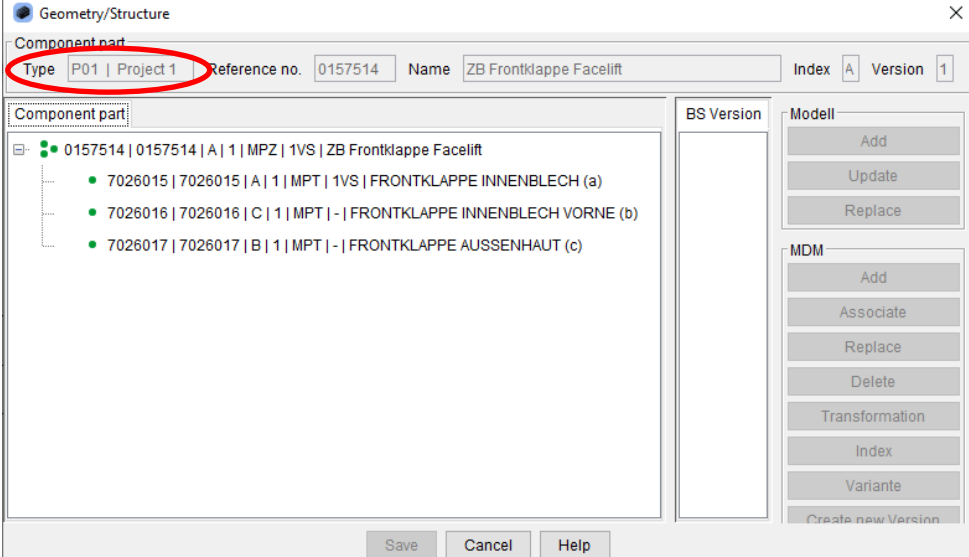
Categorie	Name	Starting time	Finish time	Status
Measurement Check	FK1C 04.01.2007 10:33:00	12.04.2024 14:16:56	12.04.2024 14:16:58	Terminated with errors
Measurement Check		12.04.2024 14:16:58		Running
Measurement Check				Waiting
Measurement Check				Waiting
Measurement Check				Waiting
Measurement Check				Waiting

History

Grouping of the change history in the eMMA client by category (EMMA-6331)

The screenshot shows the eMMA client interface. The 'History' tab is selected in the top right. The main area displays a tree view of change history. The 'Component part' and 'Measurements' categories are circled in red. The 'History' tab is also circled in red. The bottom status bar shows 'MDM2 V3.6.0', 'Isabelle Deckers', 'Customer Services', and 'Landau'.



<p>History</p>	<p>An entry is now made in the history when editing header data for component parts from the status Reconciliation (EMMA-6138)</p> 
<p>User rights</p>	<p>Checking user rights when making changes to the component part master data (EMMA-6187)</p>
<p>Web report</p>	<p>Improving the readability of the measurement overview when creating/editing a web report (EMMA-6231)</p>
<p>Type of project</p>	<p>Type of project in the dialogue header has been extended by the name of the project (EMMA-6325)</p> 



Production

New dialogue available via new "Production" tab for managing alignment systems for measurement plan and production system (EMMA-6205)

The screenshot shows the eMMA software interface. The top menu bar includes 'File', 'Edit', and 'Report'. Below it, there are tabs for 'Measurements', 'Simulations', '3D Sessions', 'Reports', 'Attachments', and 'History'. The 'Reports' tab is active, and within it, the 'Production' sub-tab is highlighted with a red circle. The main area is titled 'Alignments' and contains a search bar with the text 'Filtering alignment systems to production equipment...'. Below the search bar is a table with the following data:

Status	Reference no. (FMK)	Name (FMK)	Index (FMK)	Function (FMK)
✓	0157514	Demo		Funktion 1

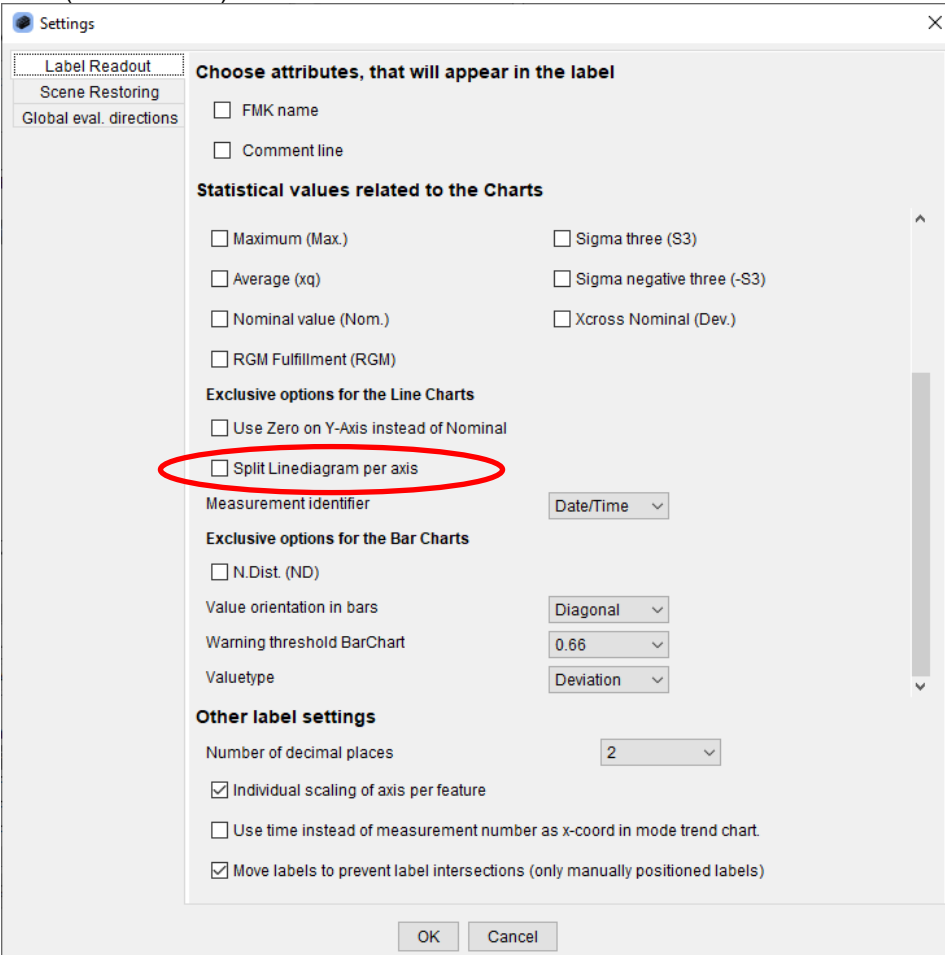
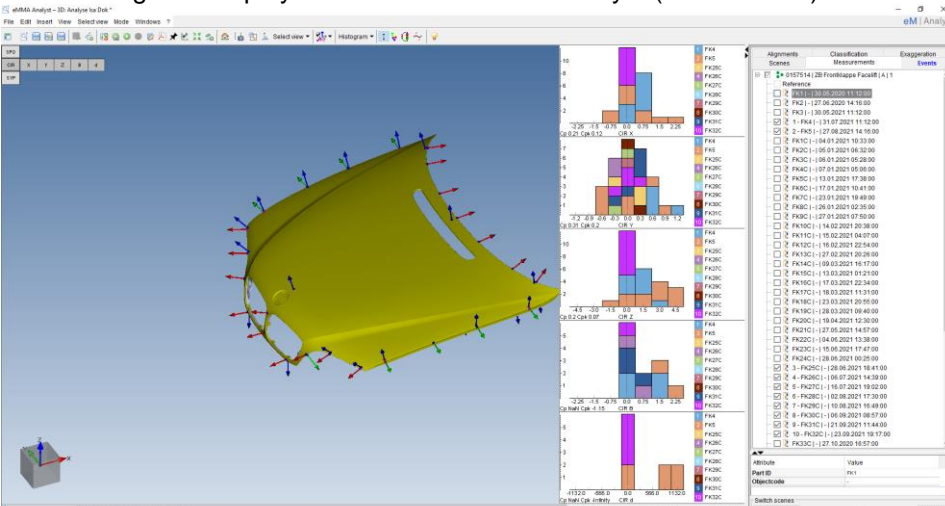
The left sidebar shows a project tree with 'Context: BMW (MDM2 V3.6.0)', 'Context: HXGN (MDM2 V3.6.0)', and 'Context: Q-DAS (MDM2 V3.6.0)'. Under 'Context: Q-DAS', there is a 'Project 1' folder containing several alignment systems, including '0157514 | ZB Frontklappe Facelift' and its sub-items.



1.1.4.9 eMMA Analyst

eMMA Analyst	
Topic	Description
Measurement	<p>Transfer of the sorting of the measurements from the measurement selection dialogue (EMMA-4079)</p> <p>The screenshot shows the 'Measuring(s)' dialog box. It includes a 'Measurementfilter' section with fields for Type (P01 Project 1), Ref. no. (0157514), Index (A), Version (1), Name (engl.), Part ID, Objectcode (All), Build Phase, Status, Measurement Set, Status (All), Date from, Date until, Order No., Stock Receipt / TK N..., Factory (All), Production Equipm..., Supplier, Production State (All), Variant, Measurement type (Measuring points), and Inspection Resource. Below the filter is a 'Group' section with radio buttons for 'Own', 'Group', and 'All'. At the bottom, there are two tables: 'Available' and 'Selected'. The 'Selected' table has columns: Database, Typ, Part-ID, Owner, Department key, Date, Projekt, Reference ..., and Ref. The 'Date' column header in the 'Selected' table is circled in red.</p>
Template	<p>Consideration of the template structure (nodes) when importing a template into a 3D session (EMMA-5413)</p>

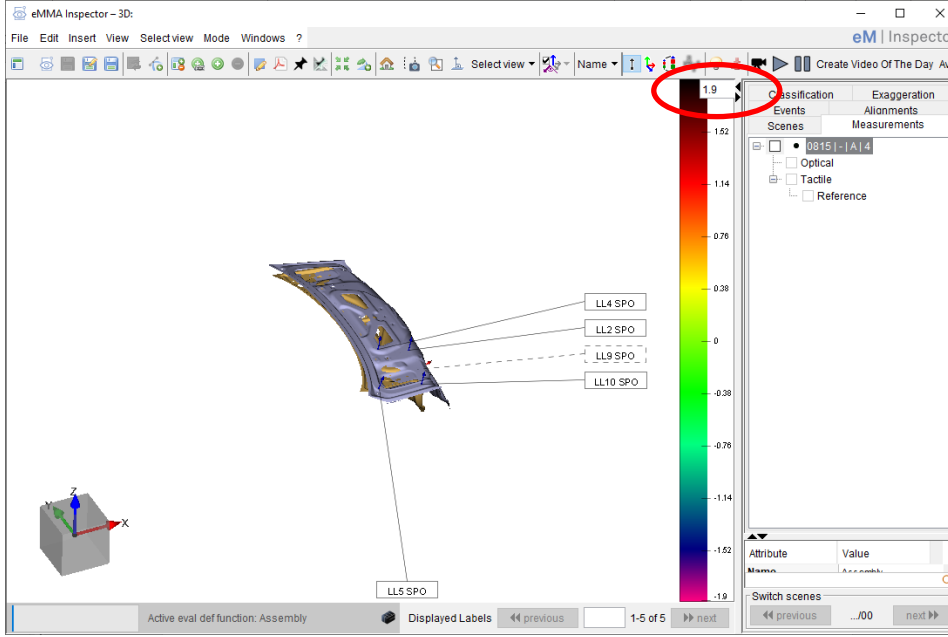


<p>Settings</p>	<p>Added new option in the settings that splits line chart per axis into one label per axis. (EMMA-5428)</p>  <p>The screenshot shows the 'Settings' dialog box with the following sections:</p> <ul style="list-style-type: none">Label Readout<ul style="list-style-type: none">Scene RestoringGlobal eval. directionsChoose attributes, that will appear in the label<ul style="list-style-type: none"><input type="checkbox"/> FMK name<input type="checkbox"/> Comment lineStatistical values related to the Charts<ul style="list-style-type: none"><input type="checkbox"/> Maximum (Max.)<input type="checkbox"/> Average (xq)<input type="checkbox"/> Nominal value (Nom.)<input type="checkbox"/> RGM Fulfillment (RGM)<input type="checkbox"/> Sigma three (S3)<input type="checkbox"/> Sigma negative three (-S3)<input type="checkbox"/> Xcross Nominal (Dev.)Exclusive options for the Line Charts<ul style="list-style-type: none"><input type="checkbox"/> Use Zero on Y-Axis instead of Nominal<input checked="" type="checkbox"/> Split Linediagram per axisMeasurement identifier<ul style="list-style-type: none">Date/TimeExclusive options for the Bar Charts<ul style="list-style-type: none"><input type="checkbox"/> N.Dist. (ND)Value orientation in bars<ul style="list-style-type: none">DiagonalWarning threshold BarChart<ul style="list-style-type: none">0.66Valuetype<ul style="list-style-type: none">DeviationOther label settings<ul style="list-style-type: none">Number of decimal places: 2<input checked="" type="checkbox"/> Individual scaling of axis per feature<input type="checkbox"/> Use time instead of measurement number as x-coord in mode trend chart.<input checked="" type="checkbox"/> Move labels to prevent label intersections (only manually positioned labels) <p>Buttons: OK, Cancel</p>
<p>Measurement</p>	<p>Measurements that are assigned to the same component part but to a project other than the selected one can now also be loaded (EMMA-6148)</p>
<p>Histogram</p>	<p>New "Histogram" display mode available in 3D-Analyst (EMMA-6180)</p>  <p>The screenshot shows the 3D-Analyst software interface. A 3D model of a yellow part is displayed on the left. On the right, a histogram is overlaid on the model, showing the distribution of data points. The histogram has multiple bars of different colors (purple, blue, green, orange, red) representing different categories. The x-axis is labeled 'x' and the y-axis is labeled 'y'. The histogram is titled 'Histogram' and has a legend on the right side. The legend lists various measurement points (FMK) and their corresponding values. The software interface includes a menu bar, a toolbar, and a list of measurements on the right side.</p>



Prediction	The time series prediction option now also supports the Odyssey library (EMMA-6254)
Line chart	The tab with the evaluation direction A for area points is now pre-assigned in the line chart (EMMA-6457)
Display	The two additional display options "Edges" and "Triangles and edges" for the geometries have been added (EMMA-6508)
Link features	Direct display of the warning message in the link dialogue of features (EMMA-6542)
Bar chart	The labelling of the bar chart label has been internationalised (EMMA-6586)

1.1.4.10 eMMA Inspector

eMMA Inspector	
Topic	Description
Legend	<p>The maximum limit value of the optical legend can now also be entered directly by clicking on the colour legend (EMMA-6385)</p> 
Video of the day	In the "Video of the day", only the measurement numbers are now displayed due to lack of space (EMMA-6386)
Display	When displaying the actual networks, these are now displayed in full white by default (EMMA-6387)



1.1.4.11 eMMA Assembler

eMMA Assembler	
Topic	Description
Distance	Distances created for a functional area are now also displayed in the higher-level function analysis (EMMA-5431)
ODiN feature	Newly created ODiN features are no longer preselected in single page mode (EMMA-5589)
ODiN feature	Warning message when creating an ODiN feature if this would be on the "back" (EMMA-6346)
ODiN feature	Highly optimised memory structure when adopting ODiN feature in the measurement plan (EMMA-6373)
Nominal	Several nominal networks can now be displayed simultaneously (EMMA-6374)
ODiN feature	Tactile measurements of the ODiN feature derived from optical measurements are now marked with a new icon (EMMA-6376)
ODiN feature	The creation of ODiN features has been greatly accelerated by optimised memory structures (EMMA-6507)

1.1.4.12 eMMA Planner

eMMA Planner	
Topic	Description
Joint feature	The type of a joint feature is now displayed in the "Edit feature" dialogue together with the nominal data (EMMA-6271)
Shape & position feature	There is now a separate function for creating/editing shape & position features in the context menu (EMMA-4519)
Shape & position feature	The X, Y, Z coordinates of shape & position features can now be edited (EMMA-6035)
Link feature	The creation of a link feature can now also be cancelled in the tolerance entry dialogue (EMMA-6347)
Attribute	Attribute inheritance through feature selection from the individual part to the assembly (EMMA-6361)

1.1.4.13 eMMA Data Collector

eMMA Data Collector	
Topic	Description
Plausibility check	The configuration of the optional plausibility check for measurements has been extended so that the individual check categories can be activated/deactivated. A category has also been added to check for out-of-tolerance features (simple alarm monitoring) (EMMA-6289)



1.1.4.14 Import/Export

Import/Export	
Topic	Description
DFD/DFQ	For Q-DAS DFD/DFQ files from the GOM system, the trim points were not completely imported (EMMA-6137)
Import	The "Import measurements (batch)" function now also has an option for importing measurements with the same part ID and date (EMMA-6139)
Flush gap	Improved import/export for joint features to distinguish between different gap/flush definitions (EMMA-6432)
CATIA CSV	The import of a measurement plan with ambiguous features from a CATIA CSV file is now prevented (EMMA-6537)
I++	New service function in I++ for querying the need to align a measurement (EMMA-6202)
I++	New service function in I++ for calculating the alignment of a measurement (EMMA-6203)
I++	The timestamp of the last call to the eMMA I++DMS interface is saved in the eMMA MDM database (EMMA-6160)

1.1.4.15 eMMA Admin Client

eMMA Admin Client	
Topic	Description
EMiL	Support for EMiL inline databases on PostgreSQL (EMMA-6064)
User	Label in the configuration dialogue for editing the parameter values to differentiate whether valid for all users or only the selected user (EMMA-6567)

1.1.4.16 eMMA Reporter

eMMA Reporter	
Topic	Description
Q-View	New display of the status of the last Q-View calculation (EMMA-6218)
Q-View	Detailed logging of the Q-View calculation in the log files (EMMA-6365)
Restarting	When restarting, any database lock that may have been set is automatically cancelled (EMMA-6220)



1.1.5 Bug corrections

1.1.5.1 eMMA Server/Client

eMMA Server/Client	
Topic	Description
Mirrored	Error when revising mirrored measurement plans of different projects fixed (EMMA-4102)
New feature	Consideration of attribute inheritance in assemblies when inserting new features (EMMA-5952)
Transfer	Error when transferring a 3D analysis from one project to another corrected (EMMA-6060)
Calculation	Corrected difference in orientation calculation between PDF report and 3D analysis (EMMA-6178)
Measurement	Incorrect value for the production facilities filter in the static measurement search corrected (EMMA-6240)
Quality Agreement	Missing display of Quality agreement usage in Form I and functional analysis FMK corrected (EMMA-6286)
Update	The transformation of a CAD model could no longer be reset in the update dialogue (EMMA-6288)
Measurement	In the measurement selection dialogue, some table headings were difficult to read (EMMA-6367)
FMK import	Error during FMK import of an .out file with 4-2-1 alignment corrected (EMMA-6393)
Measurement	Error that user could not edit measurements despite authorisation corrected (EMMA-6395)
Distance	Error in the signed calculation of distances in the statistical comparison evaluation corrected (EMMA-6429)
Q chart	Incorrect display of Q chart (Daimler) when selecting optical measurements corrected (EMMA-6505)
EMiL	Error in database query when searching for EMiL measurements corrected (EMMA-6238)

1.1.5.2 eMMA Analyst

eMMA Analyst	
Topic	Description
Shape & position feature	Incorrect display of evaluation axes for shape & position features corrected (EMMA-4867)
Label	Incorrect lines in labels of non-measured features corrected (EMMA-6327)
AWD feature	Fixed an error when creating a PDF report in connection with multi-level linked AWD feature (EMMA-6358)
E3D file	Error when loading/saving an E3D file with Chinese feature names corrected (EMMA-6431)



AWD-function	Auxiliary features (line, level) are now also automatically transferred to an AWD function (EMMA-6438)
Measurement	Fixed measurements in the measurement tree remain in their position even if new measurements are reloaded (EMMA-6601)

1.1.5.3 eMMA Inspector

eMMA Inspector	
Topic	Description
Label	Graphic labels containing a graphic in PNG format could not be saved in a 3D session (EMMA-6419)

1.1.5.4 eMMA Planner

eMMA Planner	
Topic	Description
Feature	The individual feature selection for transfer from individual part measurement plan could not be activated (EMMA-6237)

1.1.5.5 eMMA Correlation

eMMA Correlation	
Topic	Description
Colouring	Corrected error in the colouring of the correlation results (offset, range) in the feature table (EMMA-6162)

1.1.5.6 eMMA Import/Export

eMMA Import/Export	
Topic	Description
Holos	Error when importing a Holos TXT file corrected (EMMA-6190)
CSV file	Error when importing an evaluation report from CSV file with character encoding BOM corrected (EMMA-6263)
DMIS-DMO file	Error when importing a DMIS-DMO file corrected (EMMA-6442)
CSV file	Error when exporting an evaluation report as a CSV file corrected (EMMA-6459)
Web report	Incorrect warning when exporting mirrored images to a web report corrected (EMMA-6502)
DMIS file	Error when importing a flatness from its DMIS file corrected (EMMA-6338)
PC-DMIS stats	Incorrect evaluation direction when importing a PC-DMIS stats file corrected (EMMA-6437)



1.1.5.7 eMMA Data Collector

eMMA Data Collector	
Topic	Description
Error	Error handling corrected for orders that ran into errors (EMMA-3622, EMMA-3715)

1.1.5.8 eMMA Reporter

eMMA Reporter	
Topic	Description
Measurement	Incorrect measurement filter for virtually derived measurement plans corrected (EMMA-5563)
Measurement	Fixed a problem with the display of measurements in the reporter with the "Grouping S/A" filter (EMMA-6383)
Measurement	Measurements with the wrong object code were taken into account with the "Grouping S/A" filter (EMMA-6398, EMMA-6407)
Measurement	Filtered out measurements were displayed incorrectly in the history diagram as "incorrect measurements" (EMMA-6417)
Measurement	Adaptation of the "S/A grouping" filter for the use case "Evaluation of an overall result in the AWK reporter from two summarised (disjoint) individual measurements" (EMMA-6463)
Line diagram	Problem in line diagram with distances and symmetries caused by incorrect handling of deviation values from eMiL database fixed (EMMA-6380)
Line diagram	Incorrect scaling of the line diagram corrected (EMMA-6422)
Line diagram	When updating the line diagram with newly imported measurements, the line was not updated correctly (EMMA-6454)
Line diagram	Search for measurements by date Corrected in the line diagram of a feature (EMMA-6605)
FMK deviation	Error in the FMK deviation calculation for inherited evaluation definitions corrected (EMMA-6443)
eMiL	Fixed incorrect measurement search in eMiL databases (EMMA-6495)
Memory	Optimisation of memory usage to avoid crashes (EMMA-6500)

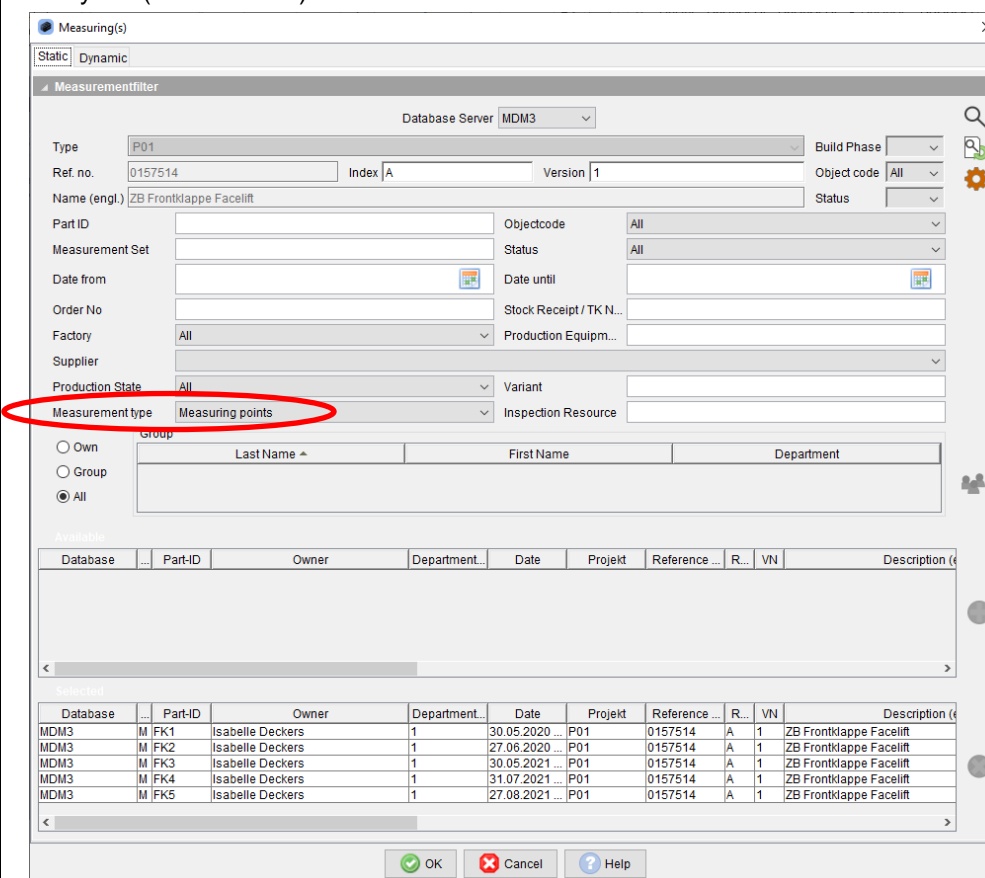


2 Release notes 2023

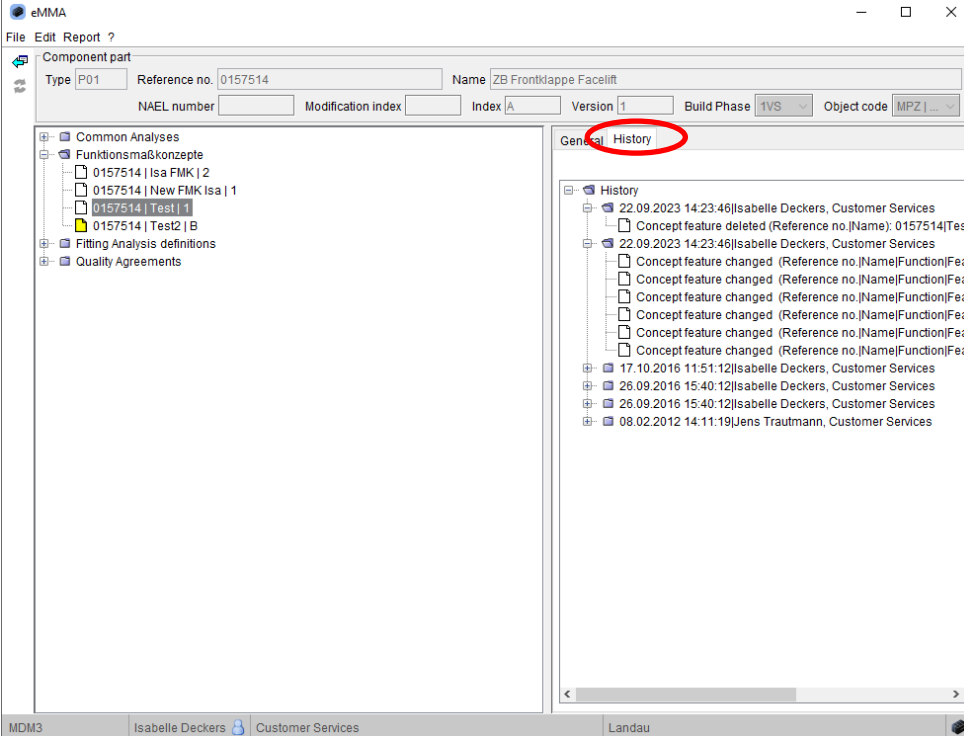
2.4 29.09.2023: Version 3.5.1

2.4.1 Enhancements

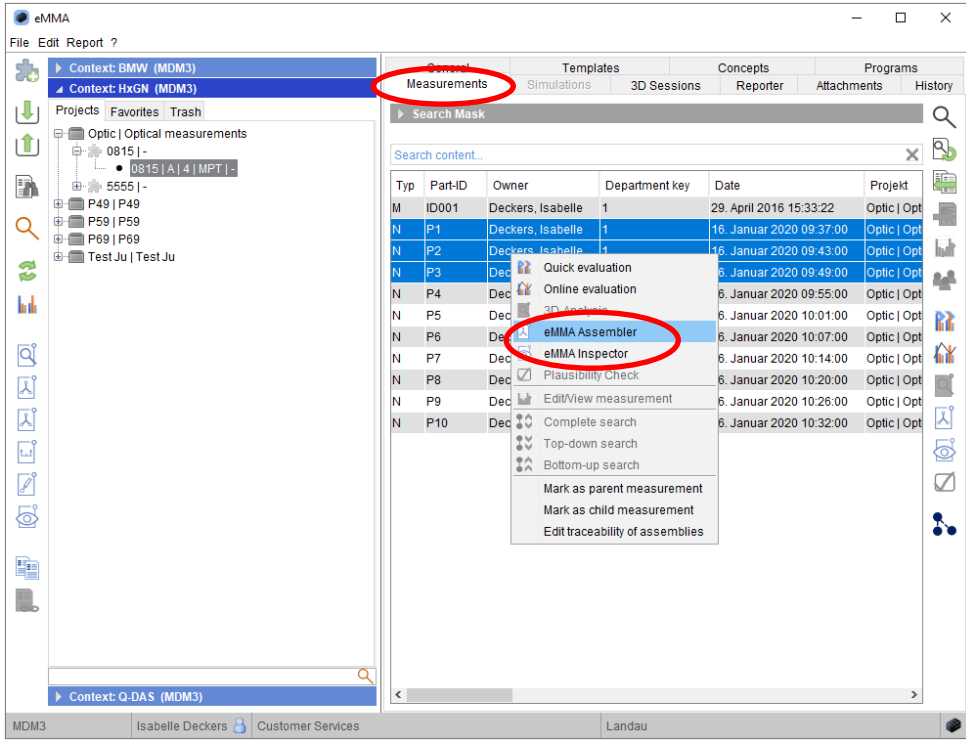
2.1.1.1 eMMA Server/Client

eMMA Server/Client	
Topic	Description
Measurement filter	<p>Default measurement filter "Measuring points" for evaluation reports and 3D analyses (EMMA-5855)</p> 
Alignment point	Additional output/evaluation of alignment points in PDF report Bar chart (EMMA-5398)
Evaluation definition	Recalculation of tolerances of an evaluation definition according to CpK nominal value only for tolerances with which nominal value is not reached (EMMA-5172)



<p>Evaluation definition</p>	<p>History entries for logging changes to an evaluation definition (EMMA-5902)</p> 
<p>Quality agreement</p>	<p>Output of QLV tolerances in PDF reports even without selected measurements (EMMA-4117)</p>
<p>Quality agreement</p>	<p>Additional restriction of a valid QLV to vehicle derivatives (EMMA-5397)</p>
<p>Quality agreement</p>	<p>Import of a QLV from CSV file (EMMA-5879)</p>
<p>Quality agreement</p>	<p>Export of a QLV as CSV file (EMMA-5880)</p>
<p>Quality agreement</p>	<p>Export of a template for QLVs as a CSV file (EMMA-5863)</p>

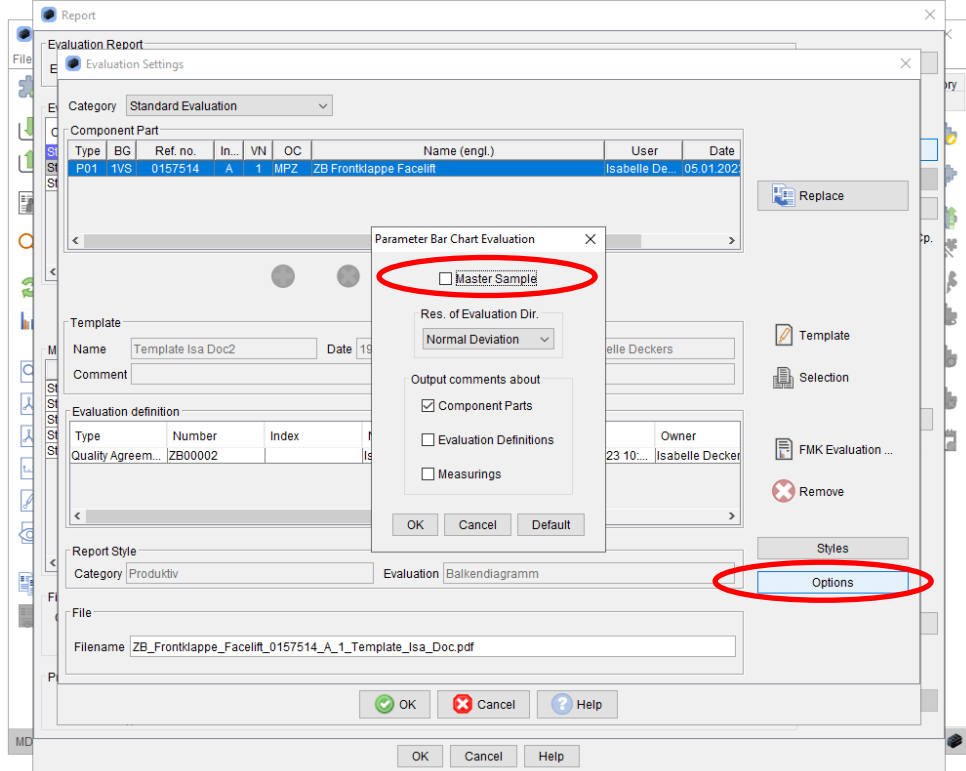


<p>Optical measurement</p>	<p>Open selected optical measurement directly in the Inspector/Assembler from the eMMA Client (EMMA-5662)</p>  <table border="1" data-bbox="813 548 1356 817"><thead><tr><th>Typ</th><th>Part-ID</th><th>Owner</th><th>Department key</th><th>Date</th><th>Projekt</th></tr></thead><tbody><tr><td>M</td><td>ID001</td><td>Deckers, Isabelle</td><td>1</td><td>29. April 2016 15:33:22</td><td>Optic Opt</td></tr><tr><td>N</td><td>P1</td><td>Deckers, Isabelle</td><td>1</td><td>16. Januar 2020 09:37:00</td><td>Optic Opt</td></tr><tr><td>N</td><td>P2</td><td>Deckers, Isabelle</td><td>1</td><td>16. Januar 2020 09:43:00</td><td>Optic Opt</td></tr><tr><td>N</td><td>P3</td><td>Dec</td><td></td><td>6. Januar 2020 09:49:00</td><td>Optic Opt</td></tr><tr><td>N</td><td>P4</td><td>Dec</td><td></td><td>6. Januar 2020 09:55:00</td><td>Optic Opt</td></tr><tr><td>N</td><td>P5</td><td>Dec</td><td></td><td>6. Januar 2020 10:01:00</td><td>Optic Opt</td></tr><tr><td>N</td><td>P6</td><td>Dec</td><td></td><td>6. Januar 2020 10:07:00</td><td>Optic Opt</td></tr><tr><td>N</td><td>P7</td><td>Dec</td><td></td><td>6. Januar 2020 10:14:00</td><td>Optic Opt</td></tr><tr><td>N</td><td>P8</td><td>Dec</td><td></td><td>6. Januar 2020 10:20:00</td><td>Optic Opt</td></tr><tr><td>N</td><td>P9</td><td>Dec</td><td></td><td>6. Januar 2020 10:26:00</td><td>Optic Opt</td></tr><tr><td>N</td><td>P10</td><td>Dec</td><td></td><td>6. Januar 2020 10:32:00</td><td>Optic Opt</td></tr></tbody></table>	Typ	Part-ID	Owner	Department key	Date	Projekt	M	ID001	Deckers, Isabelle	1	29. April 2016 15:33:22	Optic Opt	N	P1	Deckers, Isabelle	1	16. Januar 2020 09:37:00	Optic Opt	N	P2	Deckers, Isabelle	1	16. Januar 2020 09:43:00	Optic Opt	N	P3	Dec		6. Januar 2020 09:49:00	Optic Opt	N	P4	Dec		6. Januar 2020 09:55:00	Optic Opt	N	P5	Dec		6. Januar 2020 10:01:00	Optic Opt	N	P6	Dec		6. Januar 2020 10:07:00	Optic Opt	N	P7	Dec		6. Januar 2020 10:14:00	Optic Opt	N	P8	Dec		6. Januar 2020 10:20:00	Optic Opt	N	P9	Dec		6. Januar 2020 10:26:00	Optic Opt	N	P10	Dec		6. Januar 2020 10:32:00	Optic Opt
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<p>Optical measurement</p>	<p>Selection of optical measurements in export dialogue for tactile measurement data is suppressed (EMMA-5726)</p>																																																																								
<p>Optical measurement</p>	<p>Optical measurement during plausibility check for tactile measurements are suppressed (EMMA-5727)</p>																																																																								
<p>Databases</p>	<p>Distributed measurement search across all databases (MDM and inline) (EMMA-5805)</p>																																																																								



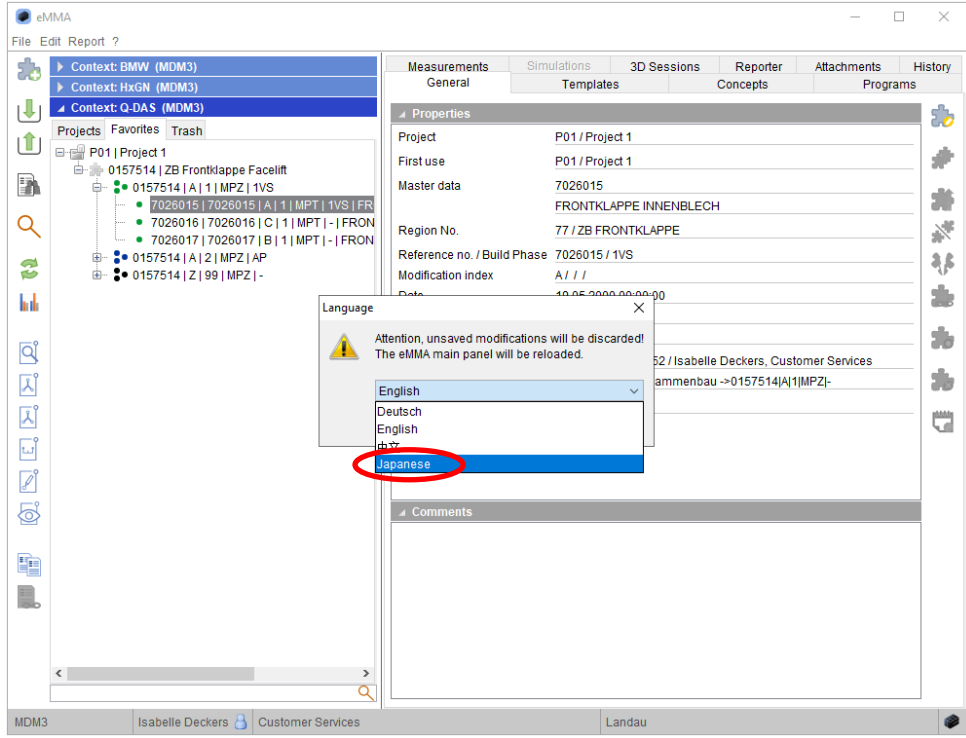
Master sample

Consideration of the last master sample measurement from the EMIL measurement data network (EMMA-5275)



Language

Language support of the user interface in Japanese (EMMA-5649)

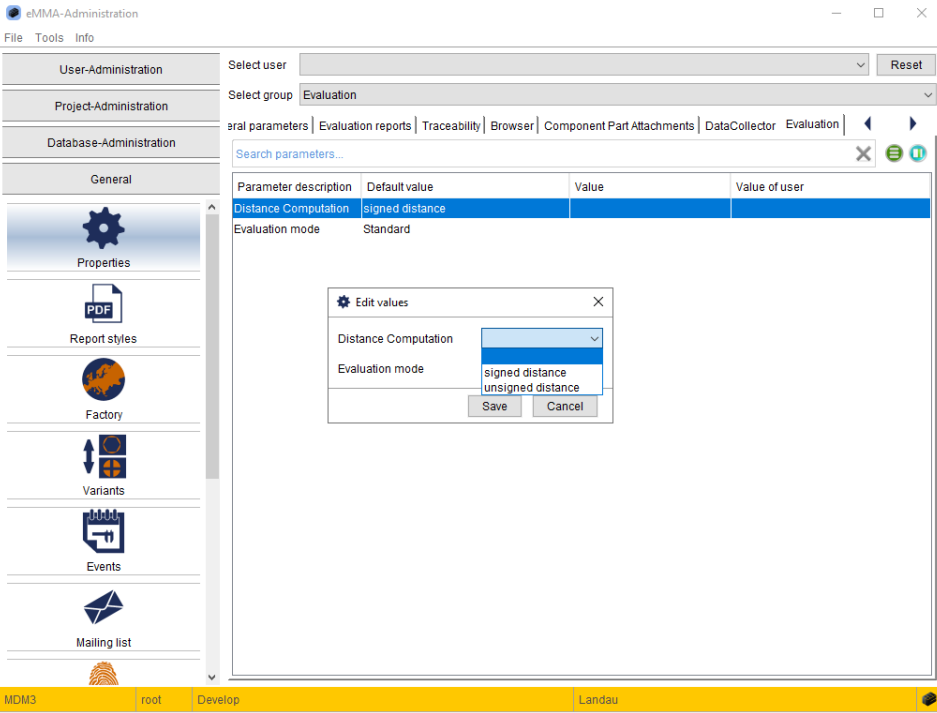


Java

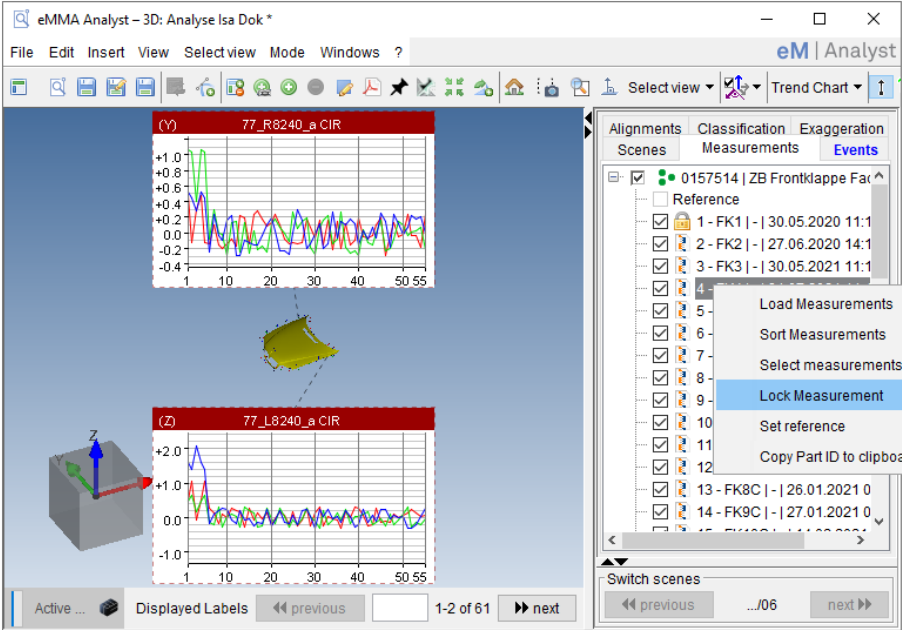
Support for Java OpenJDK 11 (EMMA-2737)



2.1.1.2 eMMA Analyst

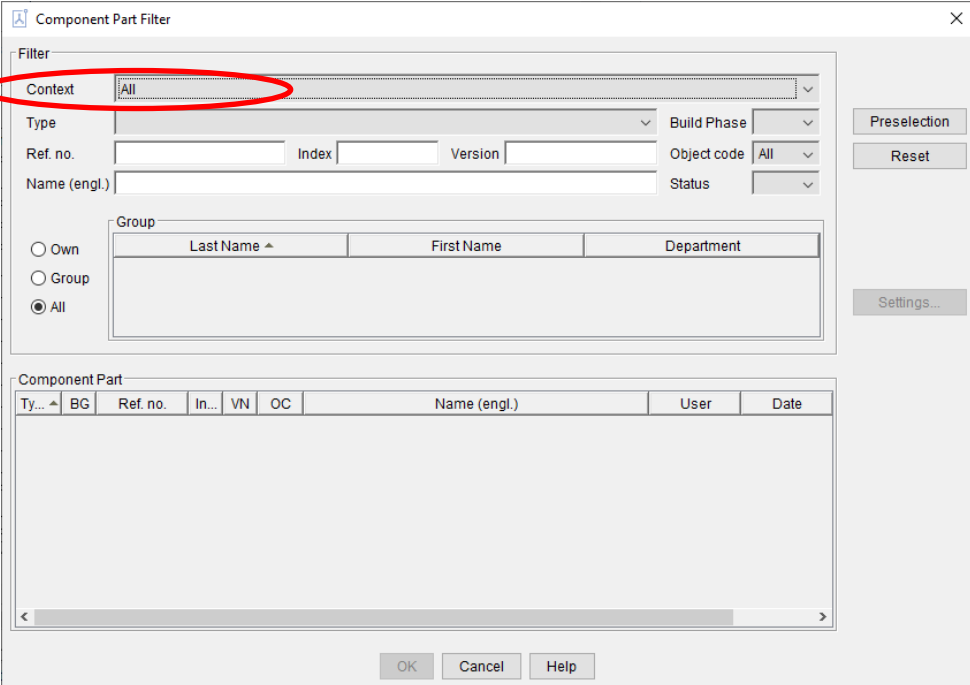
eMMA Analyst	
Topic	Description
Feature table	Update display of Cp/CpK values in feature table (EMMA-5917)
Distance	Improvement of the 3D representation of a distance feature (EMMA-5829)
Distance	<p>Configuration for calculating the distances as "Signed distance (BMW)" and "Unsigned distance" (EMMA-4661)</p> 
Distance	Form features can now also be formed from AWD distances (EMMA-2678)
Area points	Colour coding of non-tolerated surface points in grey (EMMA-5934)



Measurements	<p>Fixing measurements at the top of the navigation tree for measurements for easier comparison (EMMA-5067)</p>  <p>The screenshot shows the eMMA Analyst interface. It features a 3D model of a part with two line charts overlaid: one for the Y-axis (77_R8240_a CIR) and one for the Z-axis (77_L8240_a CIR). A context menu is open over the navigation tree, with 'Lock Measurement' selected. The navigation tree lists various measurement points (FK1-FK14) with their respective dates. The interface includes a menu bar (File, Edit, Insert, View, Select view, Mode, Windows), a toolbar, and a status bar at the bottom.</p>
Ray chart	Representation in the ray chart also of X,Y,Z deviations at surface points (EMMA-5068)
Bar chart	Optimised display of the bar chart for setting "Measured value" (EMMA-5071)
Watermark	Configurable watermarks for the PDF reports (EMMA-4236)
Optical measurement	Suppress loading of optical measurement data in 3D-Analyst (EMMA-5728)
TSAF	Visualisation of outliers and breaks in the line charts of the TSAF forecast (EMMA-4049)
TSAF	Adjustment for better setting of the time span of the TSAF forecast (EMMA-4243)
TSAF	Line chart of the TSAF forecast also in the PDF report (EMMA-5713)



2.1.1.3 eMMA Assembler

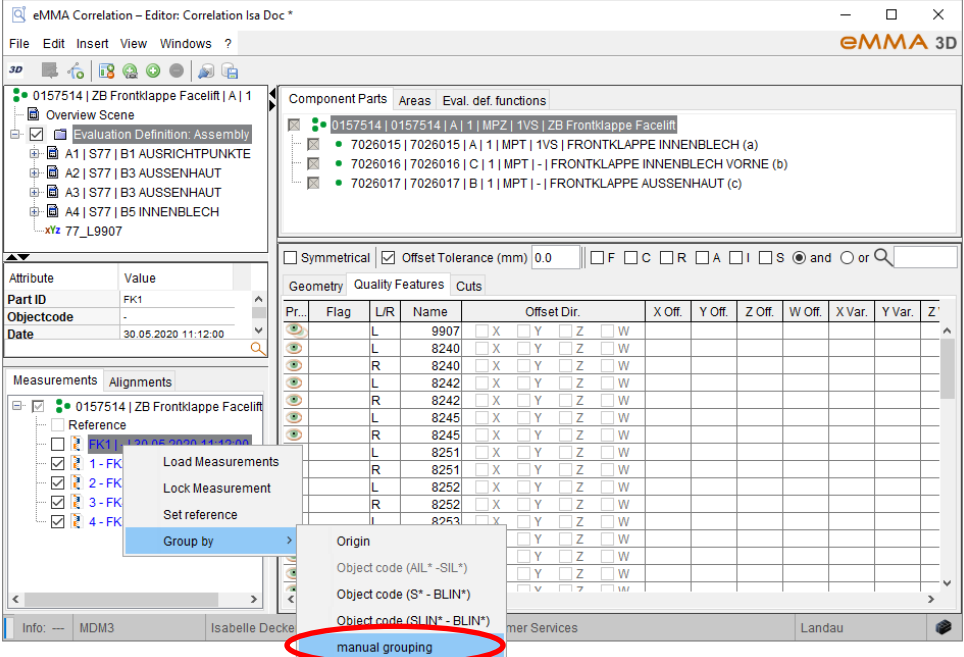
eMMA Assembler	
Topic	Description
3D display	3D representation of the plane and line type features (EMMA-5016)
Filter	<p>Additional filter by context when searching for component parts to add (EMMA-5436)</p> 

2.1.1.4 eMMA Planner

eMMA Planner	
Topic	Description
Decimal places	Consideration of the setting for 2/3 decimal places in all columns of the feature table (EMMA-5395)



2.1.1.5 eMMA Correlation

eMMA Correlation																																																																																																																																																																																																																																																																			
Topic	Description																																																																																																																																																																																																																																																																		
Measurements	<p>Extension of eMMA correlation for grouping reference and inline measurements (EMMA-5294)</p>  <p>The screenshot shows the 'eMMA Correlation - Editor: Correlation Isa Doc' window. The 'Measurements' pane on the left shows a tree view of measurements for '0157514 ZB Frontklappe Facelift A 1'. A context menu is open over the '1 - FK' measurement, with 'Group by' selected. A sub-menu is visible with 'manual grouping' circled in red. The 'Geometry' table below shows various measurements with their flags and offsets.</p> <table border="1"> <thead> <tr> <th>Pr.</th> <th>Flag</th> <th>L/R</th> <th>Name</th> <th>Offset Dir.</th> <th>X Off.</th> <th>Y Off.</th> <th>Z Off.</th> <th>W Off.</th> <th>X Var.</th> <th>Y Var.</th> <th>Z'</th> </tr> </thead> <tbody> <tr><td></td><td></td><td>L</td><td>9907</td><td>X Y Z W</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td>L</td><td>8240</td><td>X Y Z W</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td>R</td><td>8240</td><td>X Y Z W</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td>L</td><td>8242</td><td>X Y Z W</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td>R</td><td>8242</td><td>X Y Z W</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td>L</td><td>8245</td><td>X Y Z W</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td>R</td><td>8245</td><td>X Y Z W</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td>L</td><td>8251</td><td>X Y Z W</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td>R</td><td>8251</td><td>X Y Z W</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td>L</td><td>8252</td><td>X Y Z W</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td>R</td><td>8252</td><td>X Y Z W</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td>L</td><td>8253</td><td>X Y Z W</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td>R</td><td>8253</td><td>X Y Z W</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table> <p>The 'Correlation manual dialog' window is also shown, displaying a table of correlation data:</p> <table border="1"> <thead> <tr> <th>Active</th> <th>Type</th> <th>Part-ID</th> <th>Owner</th> <th>Department key</th> <th>Date</th> <th>Projekt</th> <th>Reference no.</th> <th>Ref. no.</th> <th>VN</th> <th>Description (engl.)</th> <th>OC (Component)</th> <th>Build Phase</th> <th>OC (Measuring)</th> <th>State</th> </tr> </thead> <tbody> <tr><td><input type="checkbox"/></td><td>M</td><td>FK1</td><td>Isabelle Deckers</td><td>1</td><td>30.05.2020 11:12:00</td><td>P01</td><td>0157514</td><td>A</td><td>1</td><td>ZB Frontklappe Facelift</td><td>MPZ</td><td>1VS</td><td>-</td><td></td></tr> <tr><td><input type="checkbox"/></td><td>M</td><td>FK2</td><td>Isabelle Deckers</td><td>1</td><td>27.06.2020 14:16:00</td><td>P01</td><td>0157514</td><td>A</td><td>1</td><td>ZB Frontklappe Facelift</td><td>MPZ</td><td>1VS</td><td>-</td><td></td></tr> <tr><td><input type="checkbox"/></td><td>M</td><td>FK3</td><td>Isabelle Deckers</td><td>1</td><td>30.05.2021 11:12:00</td><td>P01</td><td>0157514</td><td>A</td><td>1</td><td>ZB Frontklappe Facelift</td><td>MPZ</td><td>1VS</td><td>-</td><td></td></tr> <tr><td><input type="checkbox"/></td><td>M</td><td>FK4</td><td>Isabelle Deckers</td><td>1</td><td>31.07.2021 11:12:00</td><td>P01</td><td>0157514</td><td>A</td><td>1</td><td>ZB Frontklappe Facelift</td><td>MPZ</td><td>1VS</td><td>-</td><td></td></tr> <tr><td><input type="checkbox"/></td><td>M</td><td>FK5</td><td>Isabelle Deckers</td><td>1</td><td>27.08.2021 14:16:00</td><td>P01</td><td>0157514</td><td>A</td><td>1</td><td>ZB Frontklappe Facelift</td><td>MPZ</td><td>1VS</td><td>-</td><td></td></tr> </tbody> </table>	Pr.	Flag	L/R	Name	Offset Dir.	X Off.	Y Off.	Z Off.	W Off.	X Var.	Y Var.	Z'			L	9907	X Y Z W										L	8240	X Y Z W										R	8240	X Y Z W										L	8242	X Y Z W										R	8242	X Y Z W										L	8245	X Y Z W										R	8245	X Y Z W										L	8251	X Y Z W										R	8251	X Y Z W										L	8252	X Y Z W										R	8252	X Y Z W										L	8253	X Y Z W										R	8253	X Y Z W								Active	Type	Part-ID	Owner	Department key	Date	Projekt	Reference no.	Ref. no.	VN	Description (engl.)	OC (Component)	Build Phase	OC (Measuring)	State	<input type="checkbox"/>	M	FK1	Isabelle Deckers	1	30.05.2020 11:12:00	P01	0157514	A	1	ZB Frontklappe Facelift	MPZ	1VS	-		<input type="checkbox"/>	M	FK2	Isabelle Deckers	1	27.06.2020 14:16:00	P01	0157514	A	1	ZB Frontklappe Facelift	MPZ	1VS	-		<input type="checkbox"/>	M	FK3	Isabelle Deckers	1	30.05.2021 11:12:00	P01	0157514	A	1	ZB Frontklappe Facelift	MPZ	1VS	-		<input type="checkbox"/>	M	FK4	Isabelle Deckers	1	31.07.2021 11:12:00	P01	0157514	A	1	ZB Frontklappe Facelift	MPZ	1VS	-		<input type="checkbox"/>	M	FK5	Isabelle Deckers	1	27.08.2021 14:16:00	P01	0157514	A	1	ZB Frontklappe Facelift	MPZ	1VS	-	
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2.1.1.6 eMMA Data Collector

eMMA Data Collector	
Topic	Description
Measurement plan	Automated import of new measurement plan versions (EMMA-5570)
Optical measurement	Do not consider optical measurement data in the search for plausibility check (EMMA-5860)

2.1.1.7 Import/Export

Import/Export	
Topic	Description
Inspire	Support of the CSV import format from Inspire (EMMA-4218)
Generic Feature	Support of measurement data of generic features in CSV and DFQ import (EMMA-5738)
Export	Export dialogue allows "single selection" of features now also without selected template (EMMA-5782)
DMIS DMO	During DMIS DMO import, the header data field K1303 for the location is now supported (EMMA-5795)
Symmetry features	Support for linked symmetry features with wrong L/R identifier in CSV import (EMMA-5853)
DFQ and CSV import	New option "Part ID + measurement date" in DFQ and CSV import for uniqueness of measurement records (EMMA-5651)
I++	Extension of the I++.interface for exporting a CSV file considering variants (EMMA-5396)
I++	Extension of the I++.interface for exporting evaluation reports in CSV format (EMMA-5399)



2.1.1.8 eMMA Admin Client

eMMA Admin Client																																											
Topic	Description																																										
Supplier	<p>Configuration of supplier licences in the eMMA AdminClient (EMMA-5392)</p> <p>The screenshot shows the eMMA-Administration interface. On the left, there is a navigation pane with 'Licenses' selected. The main area displays a table of licenses:</p> <table border="1"> <thead> <tr> <th>License</th> <th>Assigned</th> <th>Available</th> </tr> </thead> <tbody> <tr><td>MDM Admin</td><td>15</td><td>Unlimited</td></tr> <tr><td>eMMA Planner</td><td>15</td><td>Unlimited</td></tr> <tr><td>eMMA PDF Analyst</td><td>15</td><td>Unlimited</td></tr> <tr><td>eMMA 3D Analyst</td><td>15</td><td>Unlimited</td></tr> <tr><td>eMMA 3D Correlation</td><td>15</td><td>Unlimited</td></tr> <tr><td>eMMA Illustrator</td><td>15</td><td>Unlimited</td></tr> <tr><td>eMMA Supplier</td><td>1</td><td>Unlimited</td></tr> <tr><td>eMMA Inspector</td><td>16</td><td>Unlimited</td></tr> <tr><td>eMMA Assembler</td><td>16</td><td>Unlimited</td></tr> <tr><td>eMMA Statistics</td><td>0</td><td>Unlimited</td></tr> <tr><td>eMMA TSAF</td><td>0</td><td>1</td></tr> <tr><td>eMMA Fusion Monitor</td><td>0</td><td>0</td></tr> <tr><td>eMMA Fusion Dashboard</td><td>0</td><td>0</td></tr> </tbody> </table> <p>Below the license table, there are two sections for user management:</p> <ul style="list-style-type: none"> Users without license: A table listing users without licenses. The 'Supplier Group (external)' user is highlighted with a red circle. Users with license: A table listing users with licenses. 	License	Assigned	Available	MDM Admin	15	Unlimited	eMMA Planner	15	Unlimited	eMMA PDF Analyst	15	Unlimited	eMMA 3D Analyst	15	Unlimited	eMMA 3D Correlation	15	Unlimited	eMMA Illustrator	15	Unlimited	eMMA Supplier	1	Unlimited	eMMA Inspector	16	Unlimited	eMMA Assembler	16	Unlimited	eMMA Statistics	0	Unlimited	eMMA TSAF	0	1	eMMA Fusion Monitor	0	0	eMMA Fusion Dashboard	0	0
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eMMA Assembler	16	Unlimited																																									
eMMA Statistics	0	Unlimited																																									
eMMA TSAF	0	1																																									
eMMA Fusion Monitor	0	0																																									
eMMA Fusion Dashboard	0	0																																									
Language	Chinese and Japanese language support in eMMA AdminClient (EMMA-5602)																																										



2.1.2 Bug corrections

2.1.2.1 eMMA Server/Client

eMMA Server/Client	
Topic	Description
Measurements	Warning dialogue when creating a new measurement if part ID, date and time are not unique (EMMA-3821)
Distance	Distance feature between surface point and plane are shown in PDF (EMMA-4886)
Distance	Deviation calculation of distances corrected (EMMA-5569)
Evaluation report	Long loading times when editing an evaluation report corrected (EMMA-5743)
PDF	Automatic PDF report generation based on a 3D session corrected (EMMA-5591)
B-axis	Output of the B axis in the PDF reports only if set as evaluation direction (EMMA-5858)
Export	Corrected permission check when exporting a web report (EMMA-4941)
Export	When exporting a web report, a warning is displayed if pictures are missing (EMMA-5518)
Export	Erroneous warning message when exporting a web report based on an evaluation definition with alignment corrected (EMMA-5674)
CSV file	Warning message when opening a CSV file with Excel corrected (EMMA-5932)
Template	Opening a template with the eMMA illustrator fixed (EMMA-5646)
Database	Fixed error when reading large database queries (EMMA-5814)
FMK	Abort in the output of aligned values in the statistical comparison evaluation (deviation classification FVC) when using special characters corrected (EMMA-5986)
FMK	Menu item "Apply" in the "Evaluation definitions" dialogue only for special examinations and FVC (EMMA-6003)



2.1.2.2 eMMA Analyst

eMMA Analyst	
Topic	Description
B-axis	In the deviation classification, the B-axis was incorrectly counted, even if not set as the evaluation direction (EMMA-4270)
TSAF	Missing tolerance lines in line chart of TSAF forecast corrected (EMMA-5466)
Measurements	Automatic activation of dynamically loaded measurements when opening a 3D session (EMMA-5588)
Generic Feature	Fixed an error when starting the 3D-Analyst with a measurement plan containing generic feature types (EMMA-5603)
Shape feature	Incorrect display of evaluation axes for shape feature corrected (EMMA-5844)
Daimler QZ diagram	Error when opening the dialogue for displaying the Daimler QZ diagram fixed (EMMA-5859)
PC-DMIS	Error corrected when importing a PC-DMIS XML file into the Standalone 3D Analyst (EMMA-5648)

2.1.2.3 eMMA Inspector

eMMA Inspector	
Topic	Description
STL	Fixed an error when importing an STL file into the Standalone Inspector (EMMA-5759)

2.1.2.4 eMMA Assembler

eMMA Assembler	
Topic	Description
ODiN feature	Error corrected when transferring ODiN feature to the measurement plan (EMMA-5740)
Export	Error corrected when exporting an assembler report to eMMA Reporter (EMMA-5762)

2.1.2.5 eMMA Data Collector

eMMA Data Collector	
Topic	Description
Plausibility check	Completely empty measurement files were not detected by the measurement plausibility check (EMMA-5462)



2.1.2.6 eMMA Import/Export

eMMA Import/Export	
Topic	Description
Distance	Import of linked distances in component part structures via an eMMA CSV file corrected (EMMA-5935)
DMIS-DMO	Error when importing a measurement via DMIS-DMO format corrected (EMMA-5673)
DFQ	Error when importing a measurement via DFQ format corrected (EMMA-5658)
Perceptron-IPN	Component part selection in import dialogue of Perceptron IPN files corrected (EMMA-5574)
BMW measurement nominal	Abort during import of a BMW measurement nominal file, caused by letters in the part number, corrected (EMMA-4198)
eMMA-CSV	Error in mapping of feature names when importing measurements in eMMA-CSV format corrected (EMMA-5559)
CSV, DFQ	Option for simplified feature names in CSV and DFQ export corrected (EMMA-4124)
I++	Error corrected when querying a comparison evaluation via the I++ DMS interface (EMMA-5641)

2.1.2.7 eMMA Admin Client

eMMA Admin Client	
Topic	Description
Translation	Wrong/missing translation corrected (EMMA-5796)

2.1.2.8 eMMA Reporter

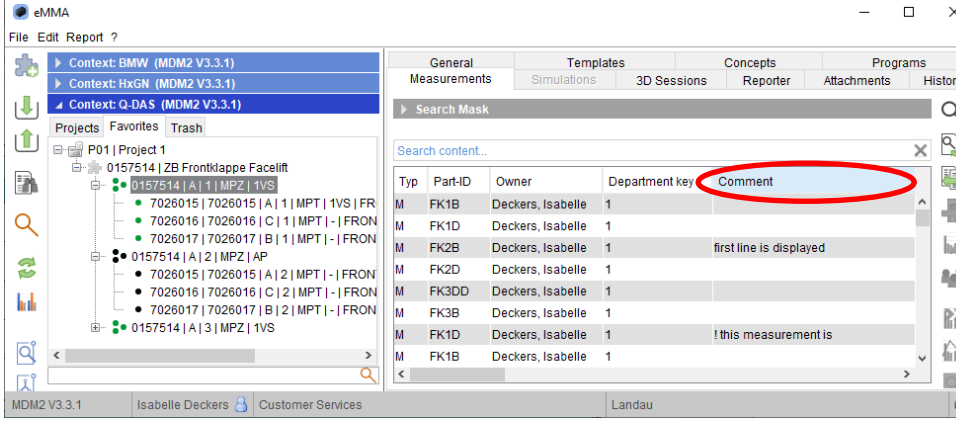
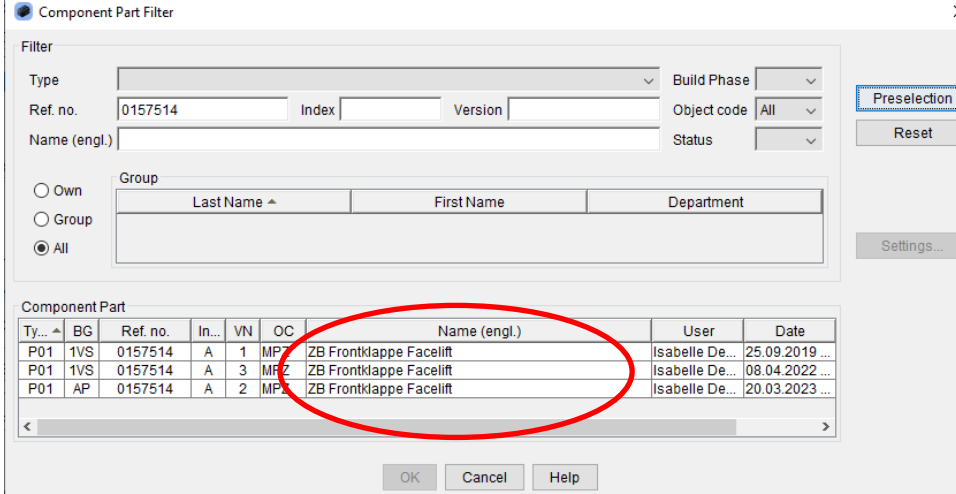
eMMA Reporter	
Topic	Description
Distance	Incorrect display of distances in the web reporter corrected (EMMA-5564)
Measurement results	Missing display of measurement results for right-split measurement plans corrected (EMMA-5566)
RGM	Missing display of RGM diagrams corrected (EMMA-5634)



2.2 31.03.2023: Version 3.5.0

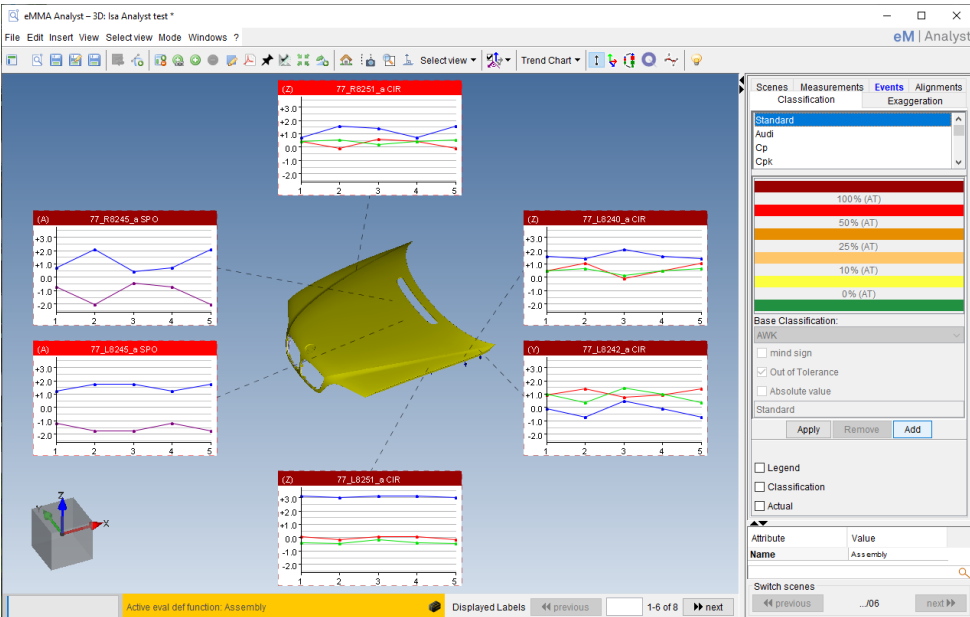
2.2.1 Enhancements

2.2.1.1 eMMA Server/Client

eMMA Server/Client	
Topic	Description
Measurements	<p>In the search/selection table for measurements in the eMMA client, a column for the first row of the comment of the measurement was added (EMMA-5404)</p> 
Component parts	<p>Search tables for component parts now show the general if the name is missing English language designation (EMMA-5406).</p> 
Compare	<p>In the Inquiry to compare two component part versions, changes in the normal direction and length/width for hole patterns are now also logged (EMMA-5400)</p>
Distance	<p>Distances referencing a plane are now drawn in the preview and PDF reports (EMMA-4437)</p>



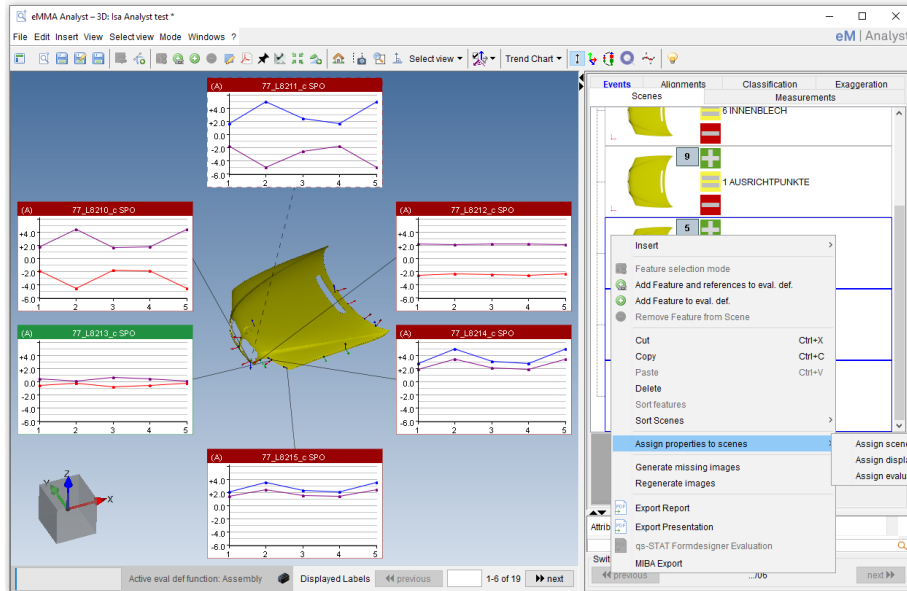
2.2.1.2 eMMA Analyst

eMMA Analyst	
Topic	Description
Classification	<p>Administrators/main users can now save newly created classifications tactile/optical in database for all users (EMMA-2262)</p>  <p>The screenshot displays the eMMA Analyst interface. In the center is a 3D model of a yellow car part. Surrounding it are six trend charts, each showing data points over five iterations. The charts are labeled: (L) 77_R6251_a CIR, (R) 77_L6240_a CIR, (A) 77_R6245_a SPID, (A) 77_L6245_a SPID, (L) 77_L6251_a CIR, and (R) 77_L6242_a CIR. On the right side, there is a 'Classification' settings panel with a list of attributes (Standard, Audi, Cp, Cpk) and a color-coded scale for 'AT' (100%, 50%, 25%, 10%, 0%). Below this, there are checkboxes for 'mind sign', 'Out of Tolerance', and 'Absolute value'. At the bottom of the screenshot, a dialog box titled 'Store changes in database?' is open, asking if the user wants to store the classification in the database for all users. The dialog includes a question mark icon, the text 'Do you want to store the classification in the database to make it accessible to all users? (Yes: stores the classification in database and session; No: stores classification in session only.)', and 'Yes' and 'No' buttons.</p>



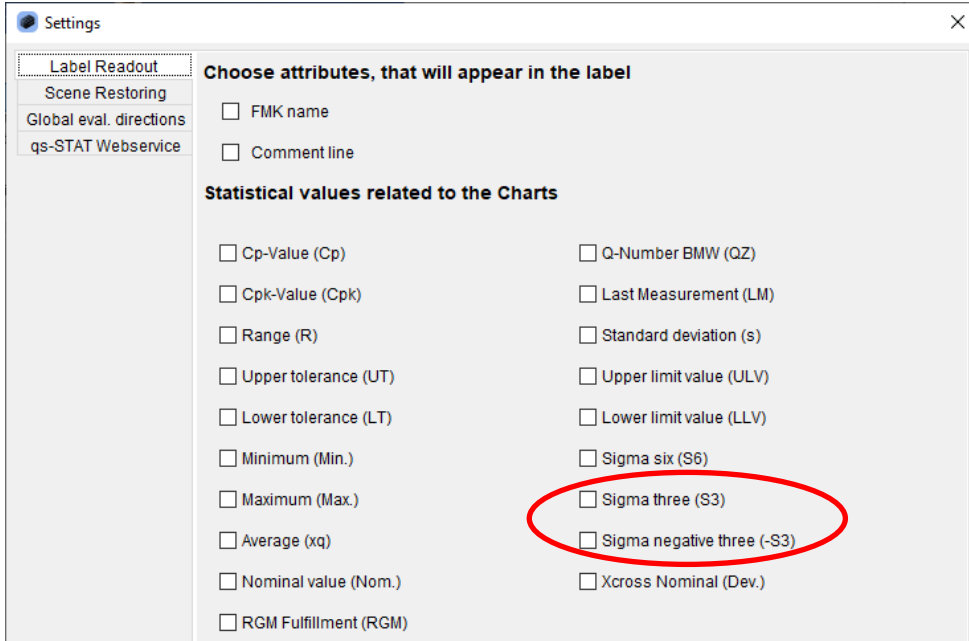
Scenes

Additional properties such as display mode and evaluation direction can now also be adopted for several selected scenes (EMMA-4122)

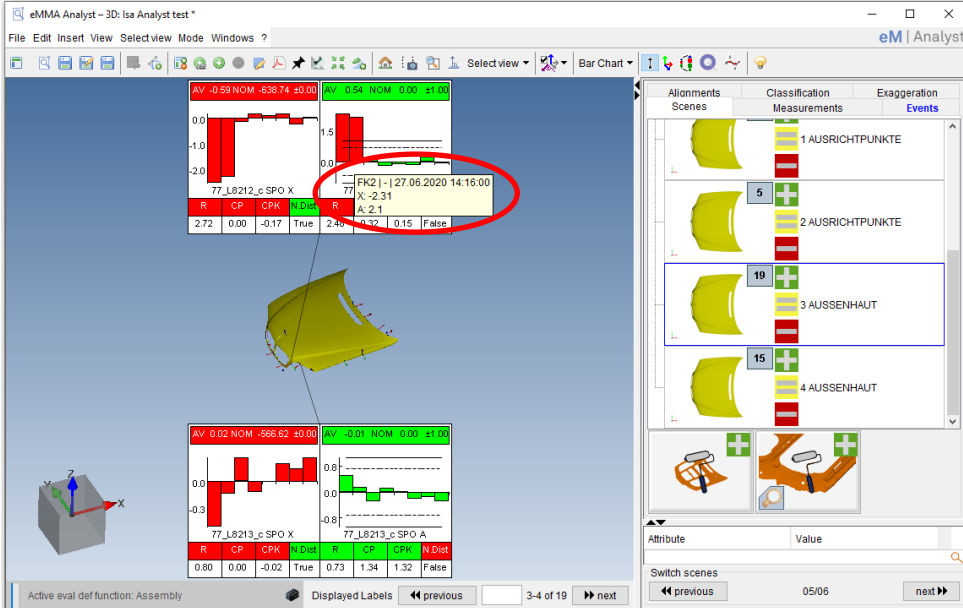
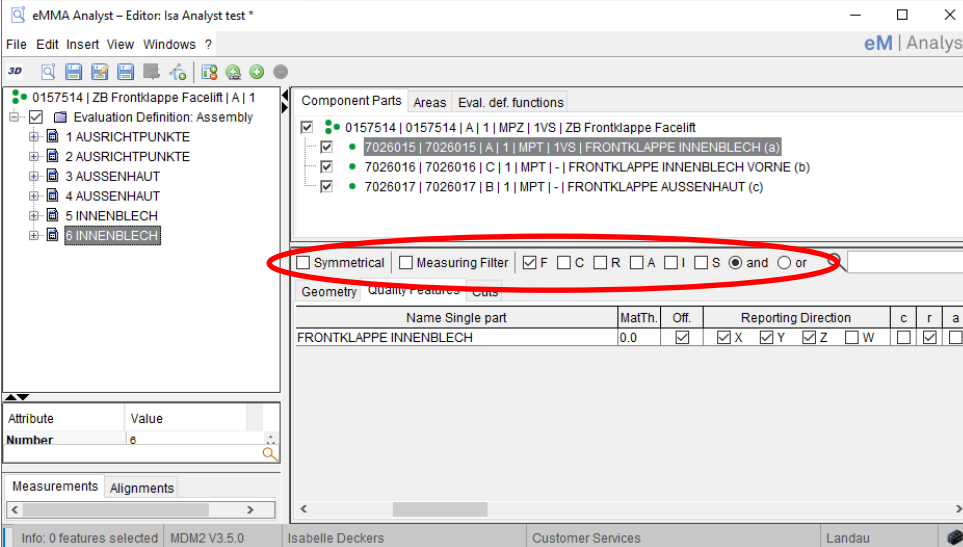


Sigma 3

New option to show -3/3 sigma in trend chart (EMMA-4391)

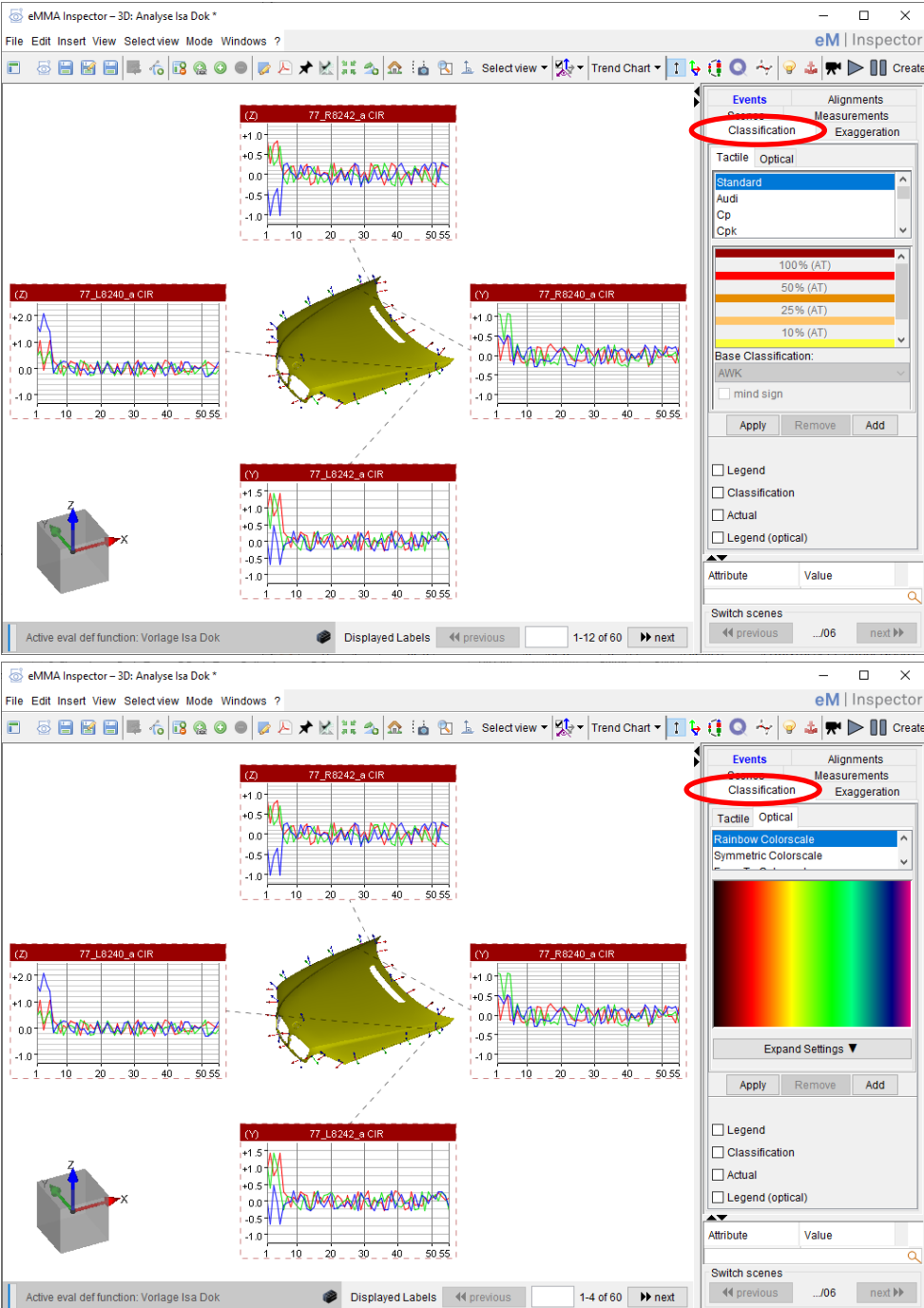




<p>Bar chart</p>	<p>Information about the measurement as tooltip in bar chart label (EMMA-4530)</p> 
<p>Session</p>	<p>The current filter setting in the feature table is saved in the current session (EMMA-4534)</p> 
<p>Single page mode</p>	<p>Optimisation in single page mode: a single click on a feature only highlights it. Only a click with the CTRL key pressed selects it (EMMA-4872).</p>
<p>Single page mode</p>	<p>Optimisation in single page mode: the ESC key resets the feature selection (EMMA-5149)</p>
<p>Angle</p>	<p>Improved the display of angle feature in 3D geometry (EMMA-5407)</p>
<p>Distance</p>	<p>Improved the display of selected distance features in the 3D geometry (EMMA-5408)</p>



2.2.1.3 eMMA Inspector

eMMA Inspector	
Topic	Description
Classification	<p>Operation of setting classifications tactile/optical improved (EMMA-5054)</p>  <p>The screenshot displays the eMMA Inspector interface for 'Analyse Isa Dok'. It features a central 3D model of a part with four surrounding line graphs showing cross-sections (Z and Y) for different points (77_R8242_a CIR and 77_L8240_a CIR). A right-hand sidebar contains a 'Classification' panel with tabs for 'Tactile' and 'Optical'. The 'Tactile' tab is active, showing a list of classification levels: Standard, Audi, Cp, Cpk, 100% (AT), 50% (AT), 25% (AT), and 10% (AT). The 'Optical' tab shows a 'Rainbow Colorscale' and a 'Symmetric Colorscale'. The 'Classification' menu item in the top right is circled in red. The bottom status bar indicates 'Active eval def function: Vorlage Isa Dok' and 'Displayed Labels' with navigation buttons.</p>
CAD geometry	Conversion of CAD geometry optimised: two independent conversion steps for visualisation and optical nominal geometry (EMMA-4302)
JT models	Support of JT models version 10.6 (EMMA-5125)



2.2.1.4 eMMA Assembler

eMMA Assembler	
Topic	Description
Default tolerances	The default tolerances for newly created ODIN features can be stored in the administration client under the name "ODIN Standard" as a tolerance class (EMMA-4996).
ODIN Feature	Alphanumeric characters may now be used in the name of a newly created ODIN feature (EMMA-5086).
ODIN Feature	ODIN feature can now also be generated directly on the optical nominal geometry without measurement data (EMMA-5257)
Nominal geometry	Default colour for optical nominal geometries is now light grey (EMMA-5254)
Video-Of-The-Day	Quality of the "Video-Of-The-Day" improved (EMMA-5255)
Video-Of-The-Day	File name for "Video-Of-The-Day" is generated from measurement plan metadata (EMMA-5256)

2.2.1.5 eMMA Data Collector

eMMA Data Collector	
Topic	Description
Log file	The user data from the database are now used in the contact data in the log file (EMMA-4931).
Configuration	The property "SingleFileFilterTypes" in the configuration file "DataCollector.properties" can now be used to configure a filter for the file extensions to be considered during import (EMMA-5087)
PC-DMIS	Support of the native PC-DMIS format DataPageStats-XML for automatic measurement import (EMMA-5128)

2.2.1.6 Import/Export

Import/Export	
Topic	Description
GD&T tolerances	As part of the support of GD&T tolerances, the position tolerance is now also supported (EMMA-3643)
DMIS-Import	Improvement of the DMIS import dialogue (EMMA-5144)
PC-DMIS	Support of the native PC-DMIS format DataPageStats-XML for the import of measurement plans and measurements (PC-DMIS) (EMMA-4688)



2.2.1.7 eMMA Admin Client

eMMA Admin Client	
Topic	Description
Policies	Multiple assignment of policies in the admin client is now prevented (EMMA-2258)
History	The history for certificate changes has been improved. (EMMA-5211)



2.2.2 Bug corrections

2.2.2.1 eMMA Server/Client

eMMA Server/Client	
Topic	Description
Deviation classification	Same calculation of deviation classification for PDF reports and 3D Analyst (EMMA-4223)
AWD templates	Problem with replacing inherited AWD templates in evaluation reports corrected (EMMA-5077)
Component part	Error in the search for component part versions corrected (EMMA-5094)
Component part	Display of the original component part for virtually executed component parts corrected (EMMA-5203)
Component part	Sorting of vehicle projects in the dialogue for the division of component part structures (EMMA-5210)
Component part	Deletion of the link of a virtual component part structure from a project corrected (EMMA-5243)
Mirroring	Consideration of mirrored parts when creating the nominal geometry corrected (EMMA-5259)
PDF report	Error corrected when creating an automated PDF report from a 3D Analyst session (EMMA-5267)
PDF report	Error in PDF reports for long-term evaluations corrected (EMMA-5372)
Comparison evaluation	Error in repeated creation of a statistical comparison evaluation corrected (EMMA-5271)
Evaluation report	Error in the automatic generation of an evaluation report corrected (EMMA-5314)

2.2.2.2 eMMA Analyst

eMMA Analyst	
Topic	Description
PDF report	Consideration of the lead dimensions in the PDF reports corrected (EMMA-4979)
PDF report	Corrected different output in PDF report mode for display in 3D (EMMA-5365)
Trend chart	The trend chart detail label can now correctly display up to 30 deviations (EMMA-5129)
Trend-Chart	Consistent use of the set font size in the trend chart detail label (EMMA-5131)
Evaluations	Incorrect evaluations in 3D Analyst with measurements across component parts corrected (EMMA-5371)
Feature table	Error in the shaded display of the feature table in feature selection mode corrected (EMMA-5415)
E3D format	Support of cylinder features when saving to E3D format (EMMA-4100)



2.2.2.3 eMMA Inspector

eMMA Inspector	
Topic	Description
Single page mode	Handling of ODiN features in single page mode corrected (EMMA-5147)
Bar chart	Bar chart display improved when no measurement is selected (EMMA-5213)
Colour scales	Fixed problems with displaying user defined colour scales with larger fonts (EMMA-5266)

2.2.2.4 eMMA Assembler

eMMA Assembler	
Topic	Description
Component part version	Activation of the optical or nominal geometry during query of a component part version improved (EMMA-4788)
ODiN feature	Optimisation of memory consumption for ODiN feature generation (EMMA-5085)

2.2.2.5 eMMA Planner

eMMA Planner	
Topic	Description
IPT feature	Creation of an intersection feature (IPT) in eMMA Planner corrected (EMMA-5273)
Angle	Error at the creation of angle feature corrected (EMMA-5426)

2.2.2.6 eMMA Import/Export

eMMA Import/Export	
Topic	Description
DMIS-DMO-Export	Missing deviations length/width for oblong/rectangular holes Corrected in DMIS DMO export (EMMA-5185)
eMMA CSV	Output of deviations from form feature in export of an eMMA CSV file corrected (EMMA-5093)
eMMA CSV	Error during import of an eMMA-CSV file with not set evaluation directions of a feature corrected (EMMA-5091)
DFQ-Format	Error fixed when exporting to DFQ format (EMMA-5361)



2.2.2.7 eMMA Admin Client

eMMA Admin Client	
Topic	Description
Start	Fixed error when starting the eMMA Admin Client (EMMA-5095)

2.2.2.8 eMMA Reporter

eMMA Reporter	
Topic	Description
Event	Search dialogue for events improved (EMMA-4183)
Component part analysis	Display of a component part analysis corrected (EMMA-4915)