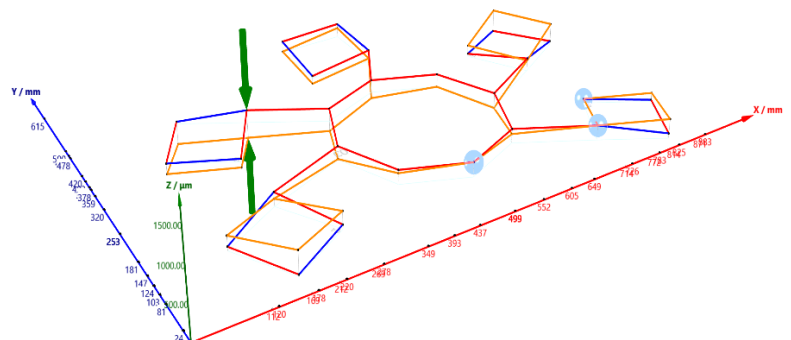
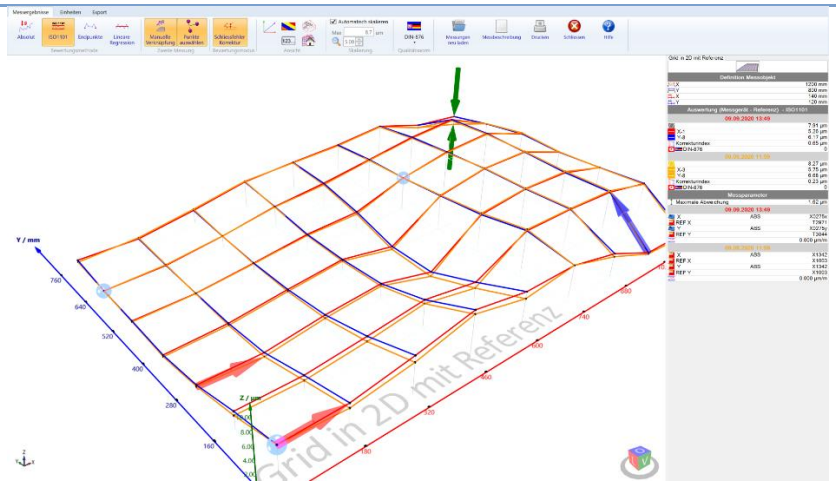


Release Notes

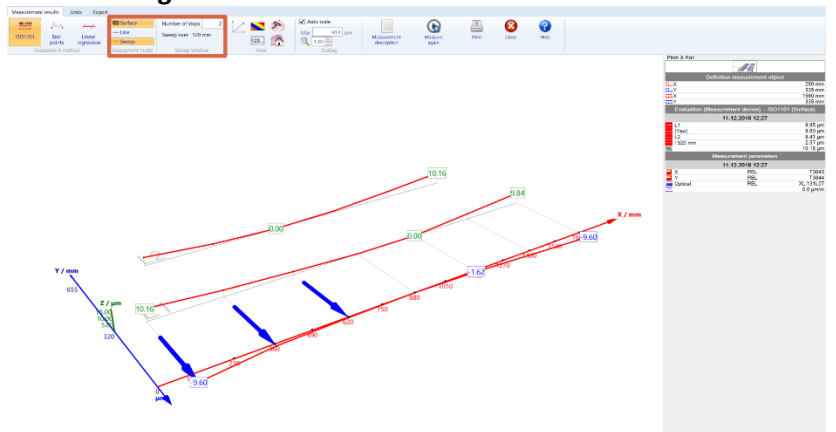
wylersPEC

Version	Release Date	Release Notes
2.3.3.0	2021.11.19	<ul style="list-style-type: none"> • Bug fixes in Report Editor • Bug fix in Endpoint calculation for figure Line with twist 2D • Bug fix in Linear regression for partial grid • Bug fix in module 11: partial grids can be compared • Bug fix for figures Grid and UJack: length unit inch will be used correctly • Updated help manual
2.3.2.0	2021.10.07	<ul style="list-style-type: none"> • Bug fix in WyBus dll • Corrected calculation in Inch for grid proposal • Bug fix in Absolute assessment • General bug fixes and GUI improvements
2.3.1.0	2021.09.22	<ul style="list-style-type: none"> • Bug fixes for partial grid: If steps are not measured, then they are marked as 'not defined' in report editor and in CSV export • Bug fix in report editor for line with twist 2D • Bug fix: Colored heights will be shown in report editor if selected in result tab • General bug fixes and GUI improvements
2.3.0.0	2021.08.30	<ul style="list-style-type: none"> • Implemented modul 11: TREND Trend analysis of two measurement figures of same type and same parameters





- Implemented sweep window to determine segment straightness for modul 6

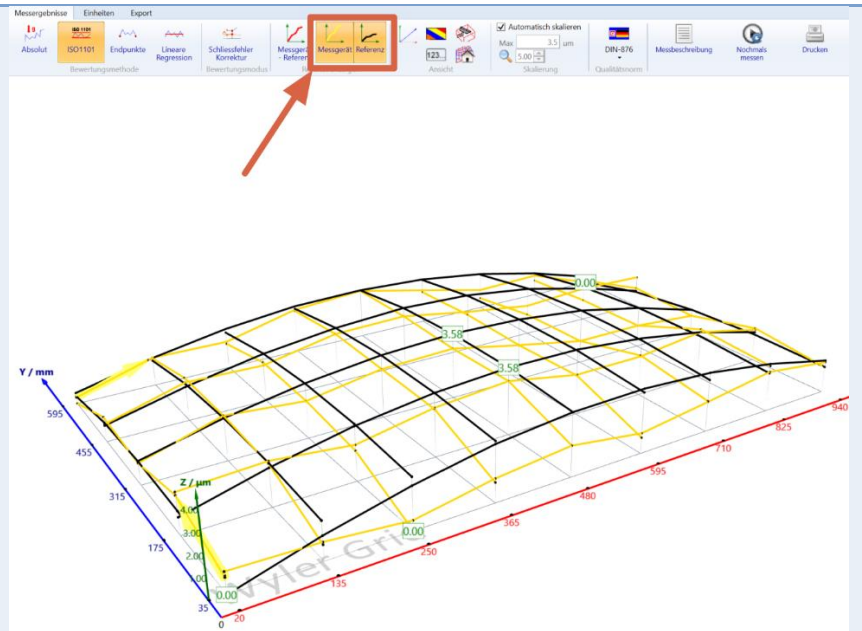


- Implemented norm ASME-B89.3.7 for figure UJack
- Updated help
- General bug fixes and GUI improvements

2.2.2.0

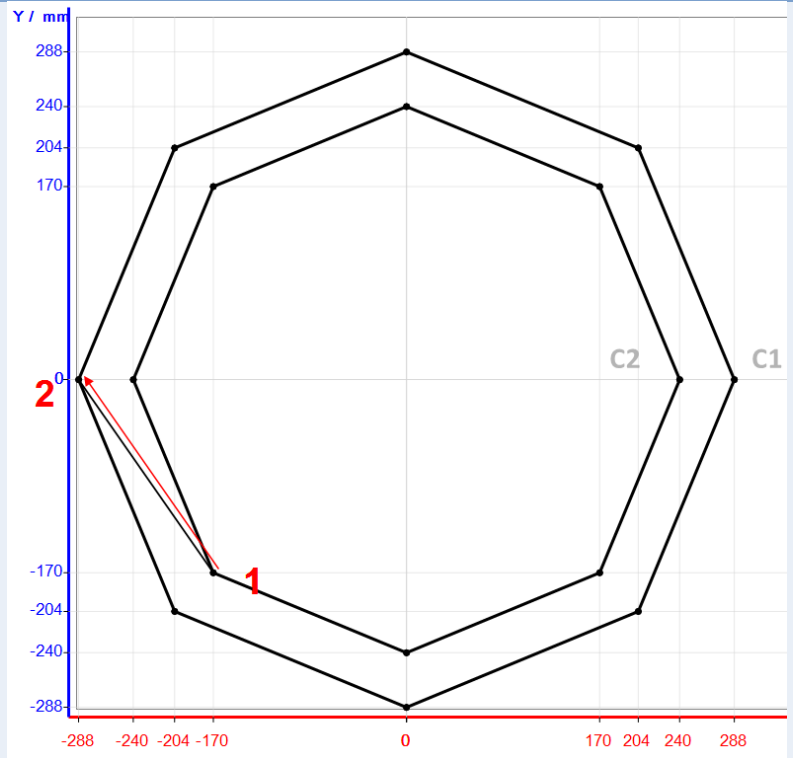
2021.07.02

- **New feature: Splitting result display**
The following options are available for visualizing the result:
 1. Measurement device – Reference device
 2. Measurement device
 3. Reference device

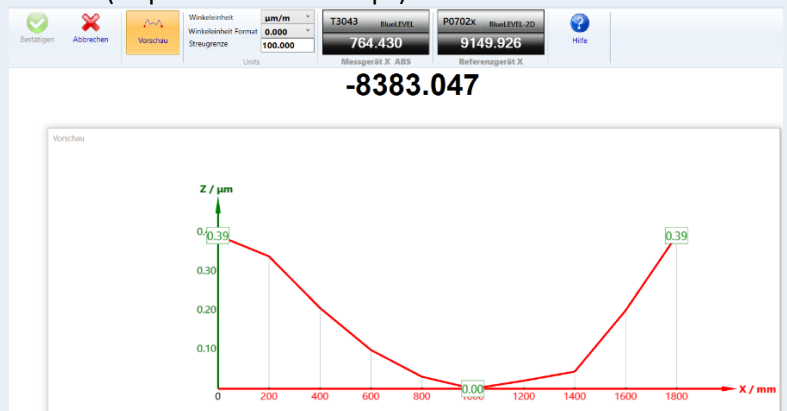


- Coplanarity implemented for module 10: Coplanarity between grids and circles can be determined with global reference
- Figure 5-2 (Circle with twist) can now be measured with global reference
- Bug fix: Parallelism & angular error correctly compensated for figure 3-6 (Parallels Vertical Opposite Inner)
- Grid proposal window is now stretchable
- Updated help
- General bug fixes and GUI improvements

2.2.1.0	2021.05.26	<ul style="list-style-type: none"> • Bug fix: Reference correctly compensated for multi-axis grid measurement • Bug fix: Coplanarity measurement can be performed with terminal input
2.2.0.0	2021.05.20	<ul style="list-style-type: none"> • New feature: coplanarity between two concentric circles (figure 5.3) and up to 6 surfaces (module 9) (details in wylersPEC Help)



- New feature: Line preview for current measurement available after each measured step evaluated by endpoint method (requires at least 2 steps)



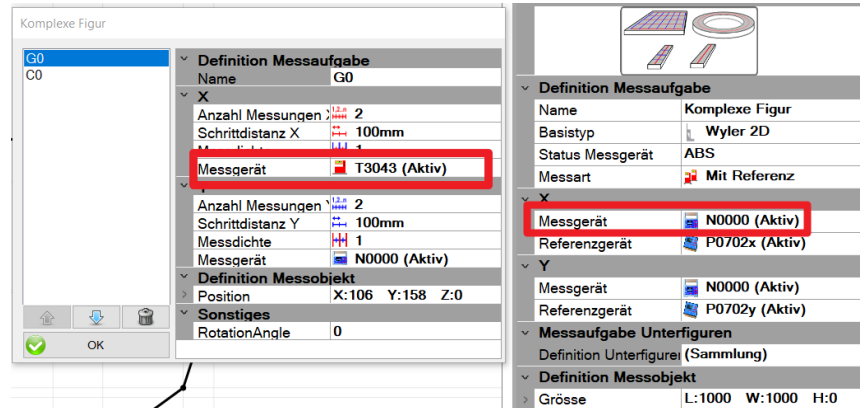
- New feature: for figure line with twist (figure 2.1), it is possible to only measure the twist (Set 'Measure Longitudinal Line' to false)
- New feature: for parallel lines with twist (figures 2.2, 2.3, 2.4), the measurement order can be changed if a global reference is used (if 'Measure Subfigures first' is true, then we measure all subfigures first, otherwise all longitudinal lines first followed by all transversal lines)
- Improvements in stable angle calculation
- Bug fix: global reference correctly compensated
- Bug fix: lines with twist with multiple steps are correctly lifted in assessment

- improved zoom factor for resulting figure
- General GUI improvements

2.1.10.0

2021.04.07

- New feature for complex figures: Measurement devices can be different for each subfigure

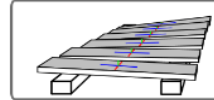


- New feature: implemented global 2D reference for figures 'Circle' and 'Two Circles'
- Improved connection to measurement devices
- New variables in Measurement Description: Temperature Top Begin / End, Temperature Bottom Begin / End, Humidity Begin / End
- Bug fix: fixed grid measurement with 2D measurement device
- Bug fix: evaluated line with twist with odd step lengths is displayed correctly
- Modification in CSV Export: user can select output format for length unit & angle unit in configuration & export settings
- Improvements for Processed Data CSV Export for module 8
- General bug fixes and GUI improvements

2.1.5.0

2021.01.22

- New feature: Mix of measurement device & terminal input (& inactive for module 8)



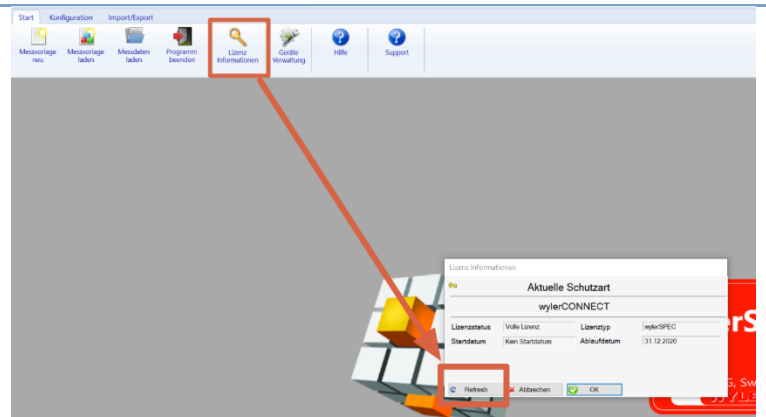
Definition Messaufgabe	
Name	Nicken & Rollen
Basistyp	Wyler 2D
Gieren messen	Ja
Status Messgerät	ABS
Messart	Mit Referenz
Einzel-/Multi-Achsenmessung	Multi-Achsenmessung
X	
Start Position	0mm
Schrittdistanz längs	200mm
End Position	1000mm
Anzahl Messungen	6
Messgerät	T3043 (Aktiv)
Referenzgerät	REF X (Aktiv)
Y	
Messgerät	Y (Aktiv)
Referenzgerät	Inaktiv (Aktiv)
Gieren	
Optisches Messgerät	Laser (Aktiv)

- Bug fixes and improvements in module 3
- Modifications in Support dialog
- Modification in CSV Export: data is formatted using the angle/length unit settings from the configuration
- Corrections in report editor
- General bug fixes and GUI improvements

2.1.4.0	2020.12.02	<ul style="list-style-type: none"> • Bug fix: Measurement description can be modified • Standard deviation for multiple angular error + parallelism error measurements (also available for report) • GUI corrections
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2.1.3.0	2020.11.30	<ul style="list-style-type: none"> • Improvements for figure 'Angle Normal with Twist' • Standard deviation for multiple reversal measurements (also available for report) • For module 8: Additional options for CSV export: <ol style="list-style-type: none"> 1. shift first angle to zero 2. difference to previous angle • Correction in quality norm calculation • Bug fix: location of grid can be modified in module 9 + 10 • Bug fix: step density in both directions available for module 9 • Increased maximum value for step density • General bug fixes + GUI corrections
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2.1.2.0	2020.10.08	<ul style="list-style-type: none"> • New feature: wylerCONNECT can be plugged-in after the software has been started (click 'License Information' → 'Refresh')
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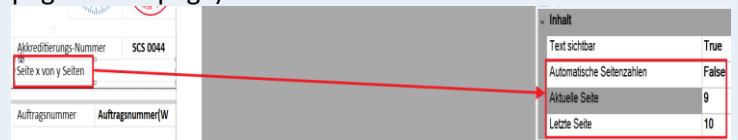


- Bug fix: when remeasuring figure Measuring Beam, the previous values for Object length, width and height will be used again
- Bug fix: corrected location of REF surface for figures 'Measuring Beam' and 'Measuring Beam with Fixed Support Points'
- Bug fix: corrected resulting visualization for figure 'Line with Twist' for a large number of measurement points
- Bug fix: corrected resulting visualization for figure 'Pitch and Roll' → angle is limited between -45° and 45°
- Bug fix: module 10 works again with Grid as subfigure
- GUI improvements for figure 3-4 'Angle Normal with Twist' including new layout image
- Renamed 'wylersABOUT' to 'Support', including small GUI changes

2.1.1.0

2020.08.28

- New feature: Current and last page number of report editor can be set by user (program counts automatically from current page to last page)

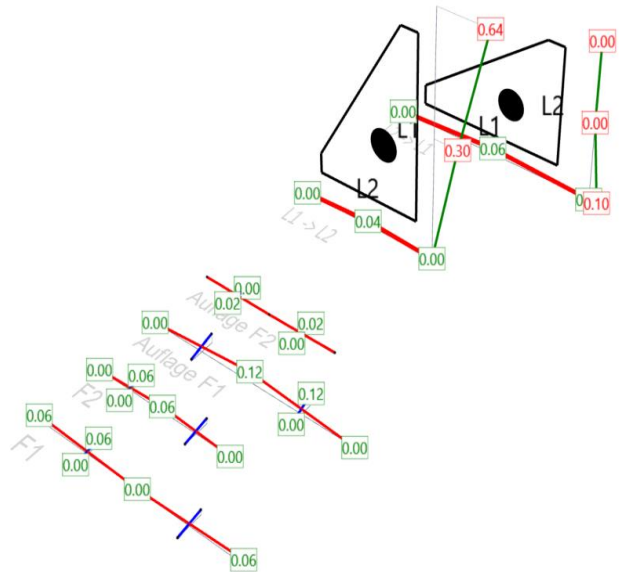


- Object length, width and height as well as grid proposal can be modified in the property grid for figures Grid and UJack
- Bug fix: assessments for module 8 work again
- Bug fix: device search only performed on selected serial ports

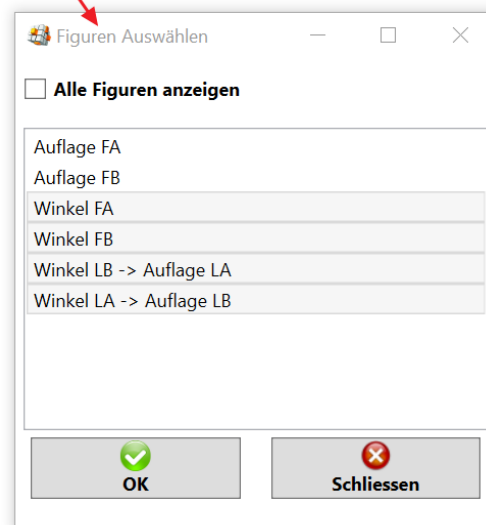
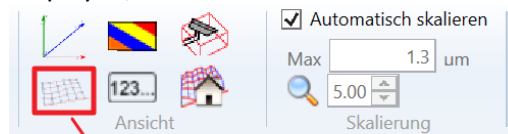
2.1.0.0

2020.08.21

- **Integrated wylersLEVEL, wylersLEVEL Frame, wylersCLINO and wylersCLINO Frame in wylersSPEC**
- Figure 3-4 'Angle Normal with Twist' implemented: Possibility to measure support surfaces as well as length and height sides of the angle (including change of location)



- New feature: For figures, containing subfigures, the user has the possibility to select which subfigure should be displayed/hidden in the result as well as for the report printer



- Standard deviation calculation for multiple angular error corrections (module 3)
- Bug fix: When merging 2 databases, the reports will be merged as well
- Bug fix: Cancelling device search works again
- Bug fix: for existing measurements of figures 'Measuring Beam' and 'Measuring Beam with fixed support points', the correct values of Object Length, Object Width and Object Height will be displayed in the result and are also used when remeasuring the figure
- Updated Japanese translations

		<ul style="list-style-type: none"> • General bug fixes and GUI improvements
2.0.4.0	2020.06.11	<ul style="list-style-type: none"> • Improved Report Editor: All measurement results from the database (values and images) are separately available in the report editor • Read-only flag can be set for each report: Report cannot be edited if the flag is set • Report Editor Font can be changed in the configuration tab: all reports, which are not Read-only, will be converted to the selected font • Bug fixes for module 2-10 Measuring Beam with fixed support points • GUI improvements for module 3 • Redesign Device Management window • Redesign wylerABOUT dialog • Bug fix in Reversal Measurement • Bug fix in module 4: grid line will be shown/hidden after mouse click
2.0.3.0	2020.03.06	<ul style="list-style-type: none"> • Module 2-10 Measuring Beam with Fixed Support Points implemented: Distance between support points can be entered by the user • Bug fixes and GUI improvements in module Measuring Beam • Additional information in measurement assessment for figures Measuring Beam and Measuring Beam with fixed support points • Bessel points and support points are characterized by circles • Config files from latest release will be copied to the new release • Bug fix: LEVELMETER2000 and BlueMETER recognized in wylerSPEC • Bug fix: Autocollimator shown in measurement assessment • Fix in wylerABOUT: Scrollbar automatically visible if needed
2.0.2.0	2020.02.13	<ul style="list-style-type: none"> • Bug fix in Installer. Old software version will be removed and replaced by the new one. • Bug fix: Assessment help absolute values corrected for extracted line of complex figure • Bug fix in Measurement beam figure: length, width and height can be changed correctly
2.0.1.0	2020.01.31	<ul style="list-style-type: none"> • Bug fix in wylerABOUT: if Outlook is not installed, prompt message box to the user. • Bug fixes for the figure Measuring Beam • GUI improvements • Screen resolution up to 3840 x 2160 with scaling factors up to 200% supported

2.0.0.0	2020.01.24	<ul style="list-style-type: none"> • wylerSPEC – from this version on ONLY Windows 10 supported • wylerCONNECT integration in wylerSPEC • Improved Device Management window with available and known measurement devices and corresponding device states (active/not active) • GUI improvements • Show/Hide coordinate system or specific axis and/or axis labels of measurement result figure • wylerABOUT integration in wylerSPEC, for better debug purposes (including wylerLICENSE tool for license management) • Robust Config file handling • Screen resolution up to 3840 x 2160 with scaling factors up to 150% supported • Assessment help added for extracted line of a complex figure • Bug fix: Export of line to CSV file • Bug fix: Endpoint calculation for twist lines corrected • Bug fix: Measurement Values can be printed in Landscape & Portrait Report
wylerSPEC – from this version on ONLY Windows 10 supported		
1.2.3.457	2019.04.01	<ul style="list-style-type: none"> • Bug fixes • Module Measuring Beam implemented
1.1.6.352	2018.04.09	<ul style="list-style-type: none"> • Module 10 implemented (Creating own figures) • Bug fixes
1.1.5.342	2018.02.07	<ul style="list-style-type: none"> • Improved report designer • Bug fixes
1.1.4.304	2017.11.09	<ul style="list-style-type: none"> • Problems caused by operation system regional settings fixed
1.1.3.301	2017.11.02	<ul style="list-style-type: none"> • Animated reversal measurement guidance • Selection of report printing language • New figures: Line and parallels with twist supported for BlueLEVEL-2D measurement • Grids (Module 9): BlueLEVEL-2D supported for measurement • Pitch & Roll redesign of measurement definition layout • Pitch & Roll absolute view of result possible • Grid marking of the line with the maximum deviation • Implementation of templates for measurement description • Minor bugs fixed
1.1.2.271	2017.06.08	<ul style="list-style-type: none"> • Implementation of wylerSOFT info center • Language corrections • Redesign of old icons • Improvement of filter selection setting possibilities for loading measurements • Implementation of autocollimator (Möller Wedel Elcomat 3000) • Indication of lines with maximum deviation for grid and line

		with twist
		<ul style="list-style-type: none"> • Minor bugs fixed
1.1.1.248	2017.03.16	<ul style="list-style-type: none"> • Polish language implemented • Minor bugs fixed
1.1.0.240	2017.03.10	<ul style="list-style-type: none"> • New figures (spindle and table) • New languages added (Thai, Chinese simplified and traditional) • Remember last setup for each figure type • Minor bugs fixed
1.0.1.222	2017.02.24	<ul style="list-style-type: none"> • Bug fix import / export country specific issues solved • Problem report printing solved • Graphical guidance improved • Minor bugs fixed
1.0.0.195	2017.01.18	<ul style="list-style-type: none"> • Initial Release