Changes / Corrections DIMA

Version 2.9 Build 2 (2021-12-22)

– Revision of the calculation in the lower range AB EBV U1, U2 and U3 due to new interpretation of the 2020 edition.

– New method kValuesMaxZonesStr for report generator

– Correction Bug 2707: No language selection for server licensing (server error)

– Correction Bug 2706: Floating point division by zero when determining support heights for z-value

– Correction Bug 2705: Wrong output bz-b with three possible vehicle widths

– Various corrections (data set filter error, Eo Ea, ...)

Version 2.9 Build 1 (2021-10-31)

– Implementation of the reduction calculation according to EN 15273-2 Edition 2013+A1:2016

– Conversion of reduction calculation of guiding cross-section to formulas for sections between bogie centres or end wheelsets respectively

– Internet access to current version information now with secure connection via SSH

– Possibility of displaying the project name in the project title

– Miscellaneous corrections & Housekeeping (Conversion project test, filter handling, scrollbar for project memo, message on RTF save error, TranslateGauge…)

Version 2.7 Build 3 (2020-03-09)

– New manual calculation formula settings for passenger coaches and traction units: Regard transom clearance and Regard vehicle body deflection

– Display of numerical values now according to DIN 461 or DIN 1313

– Bugfixing 2658: No output of DIMA version in template report

– Bugfixing 2659: Incorrect calculation of z-values near the rollcenter height

– Bugfixing 2660: Incorrect calculation of negative vehicle reduction values

– Bugfixing when checking the license server connection: Prevention of empty IP field with selected license server

– Miscellaneous corrections (Bogie deflection help, …)

Version 2.7 Build 2 (2019-08-01)

– Bugfixing 2578: Misleading representation of the elastic line (database "Vehicle body")

– Miscellaneous corrections (English program help, …)

Version 2.7 Build 1 (2019-05-01)

– Implementation calculation according to EN 15273-2:2013 annex G (French gauge FR 3.3)

– Implementation calculation of passive body tilting systems

– New: Check for changed database records during project loading

– Supplement: Saving of style and color information of the reference profile in the "Cross-section" evaluation dialog

– Bugfixing: Correction of missing values in the upper range if exceeded

– Bugfixing: Addition of missing standard compliant running tread distance when calculating gauges according to GOST- Linien T, Tc and Tpr, 1-T

- Bugfixing: Function "Turn vehicle body" now also swaps hinge point heights at front and rear end
- Bugfixing: Deleting the last section just scanned is no longer possible
- Revision of the variable wordings in the English program help
- Miscellaneous corrections (decimal separator, password problem, …)

Version 2.6 Build 7 (2018-04-15)

- Bugfixing: No output of reference profile height & wrong k values (BUG 2183)
- Bugfixing: Incorrect calculation of hump shunting in non-active position of rail brakes according to EN 15273-2:2013 (BUG 2232)
- Bugfixing: Error calculating width difference on horizontal gauge lines (BUG 2233)
- Revision of report output at vehicle point (option "Output values for vehicle width")
- Miscellaneous corrections

Version 2.6 Build 6 (2018-02-14)

- Bugfixing: Access violation on reduction calculation (BUG 2148)

Version 2.6 Build 5 (2018-02-02)

- Installation of the functionality "Turn vehicle body" in database "Vehicle body"
- Bugfixing: Incorrect calculation of pantograph reduction for tilting trains according to UIC 505-1 and EN 15273-2 Annex A
- Bugfixing: Incorrect calculation of lower condition 5 for coaches according to EN and UIC (BUG 1864)
- Bugfixing: Incorrect display of running gear eccentricities in the main module dimensions dialog (BUG 1867)
- Bugfixing: No output of a vehicle height for upper horizontal (BUG 2046)
- Bugfixing: Possibility of calculating erroneous k-values in zone C during evaluation at the vehicle point (BUG 2059)
- Bugfixing: Incorrect calculation according to EN 15273-2:2013 Annex L.2 (DE2) (Bug 2145)
- Bugfixing: Incorrect changing of tilting system datasets to project-own
- Correction of calculation according to EN 15273-2: passing over marshalling humps and rail brakes in non-active position (EN 15273-2:2013 A.3.4.1.5, Paragraph 2) - Correct consideration for passenger and freight cars
- Miscellaneous corrections (Error b2 ≤ 0, …)

Version 2.6 Build 4 (2017-05-24)

- Implementation of internet-query for new program versions
- Adding of version number in license generation and XML project file
- Implementation STEP supporting point search "Maximum permissible width error"
- New manual calculation formula setting for EN 15273: Consideration UB3
- Implementation of possibility of taking over of the heights for new calculation points for all existing calculation points
- Correction of calculation according to EN 15273-2: passing over marshalling humps and rail brakes in non-active position (EN 15273-2:2013 A.3.4.1.5, Paragraph 2)
- Bugfixing: No calculation of lowering for convex and concave vertical curves for AB-EBV meter gauge (value EV1 low) (BUG 528)

- Correction of output of setting EV1 low for non-standard compliant reference profiles
- Correction of reduction calculation of values for vehicle width at widths with reduction value and k from a lower condition
- Correction of output of calculation height values for cross sections with the same X but in different articulated train-set modules
- Correction of displayed color-box for cross-sampling without CROSSSAMP switch
- Correction no resetting calculation method when selecting / deselecting a project-own reference profile
- Correction of behavior of markings when inputting vertices for a project-own reference profile
- Correction of calculation of articulated trainset predeflection for the calculation approach "Maximum module predeflection (incl. s-curve)"
- Reworking sorting algorithms (Sort_OutEinschrItem_HUp, ...): Quick exit for the same items
- Reworking Sampling: Positions of the sampling bars are conserved during window changes
- Revision of appearance of sampling dialogs in cross section graphic
- Miscellaneous corrections (Rounding bz-b, Identifier, absurd Yes-No-Cancel, …)

Version 2.6 Build 3 (2016-04-05)

- Extensive revision of the English-speaking program help
- Bugfixing: No consideration of calculation parameter „Suspension displacements down to stops" (BUG 526)
- Bugfixing: Tilting system projects aren't loaded correctly (BUG 527)
- Correction of calculation of z value for two axle wagons (UIC 505-1, 10th edition 2006, Pt. 7.2.5.1 or EN 15273-2:2013, Annex A.3.10.1)
- Correction of no result output failure for pantograph calculation according to AB-EBV meter gauge and according to EN Annex L.4 when deselecting result output of normal reduction calculation
- Correction of unneeded height input for definition of calculation positions for pantograph calculation according to AB-EBV standard gauge
- Correction of list index error when calculate reference profile B according to AB-EBV meter gauge
- Correction floating point error in vehicle end geometry graphics
- Correction STEP-Output control
  - o Access violation, when only output 3D envelope from construction gauge for non-insulated live parts on vehicle roof is selected
  - o False display of entry fields for 3D envelope from construction gauge for non-insulated live parts on vehicle roof
  - o False output of 3D envelope from construction gauge for non-insulated live parts on vehicle roof, when pantograph calculation is possible but not selected and output of 3D envelope from construction gauge for non-insulated live parts on vehicle roof already carried out once
- Correction editable database-datasets of vehicle body or running gears(s) after end of analysis
- Correction of error in database "reference profile": Changes at vertices, which are carried out after a change of the calculation method will not be written into the database
- Miscellaneous corrections (Rounding bz-b, …)

Version 2.6 Build 2 (2015-12-09)

- Bugfixing: Wrong construction gauge for non-insulated live parts on roof for rated operating voltage of 25 kV in the general report (BUG 524 & BUG 525)

- Revision of general report: output of construction gauge for non-insulated live parts on roof now for all rated operating voltages with clearance for pantograph and clearance for live parts on roof at maximum reference profile height ($h_{R,max}$)

- Miscellaneous corrections

Version 2.6 Build 1 (2015-10-30)

- Implementation of floating licensing via license server

- Implementation of absolute gauging of pantographs according to EN 15273-2:2013, Annex L.4

- Implementation of export / import of calculation positions in dialogue "Report elements"

- Extensive revision of the German-speaking program help

- Bugfixing: Error creating design gauge (BUG 513)

- Bugfixing: Error checking closed chain dimensioning LP - LWk - A - GSv - SLv (floating-point zero, BUG 516)

- Bugfixing: Access violation when calculating wagon train set (BUG 517)

- Bugfixing: False fade in / fade out of calculation parameters „ Suspension displacement down to stops" (BUG 518)

- Bugfixing: List index error while building STEP-file (BUG 519)

- Bugfixing: False calculation of lowering for wagons with transom play in range outside of guiding sections (BUG 520)

- Bugfixing: Change of projection calculation for reference profiles B for wagon carrier trucks according to AB EBV in small curve radii (R > 150 m) and above H + 50 mm (BUG 521)

- Bugfixing: Floating point error in reduction calculation at vehicle width and wide vehicle width (BUG 522)

- Bugfixing: Installation of cancel-query for dialogue "report elements" when changes took place (BUG 523)

- Miscellaneous corrections

Version 2.5 Build 4 (2015-06-12)

- Bugfixing: Error creating design gauge (BUG 513)

- Bugfixing: Error checking dimension chain LP - LWk - A - GSv – SLv (BUG 516)

- Bugfixing: Access violation when calculating wagon trainset (BUG 517)

- Bugfixing: Faulty show /hide of calculation parameter „Suspension displacement down to stops" (BUG 518)

- Bugfixing: List index error while creating STEP-file (BUG 519)

- Miscellaneous corrections

Version 2.5 Build 3 (2015-01-22)

- Corrections in calculation methods according to "AB-EBV Normal" and "AB-EBV Spezial" (Fundamental correspondence to calculation method according to UIC 505-1 / EBO, Correction of Suitability for hump shunting for U1-lines)

- Changes in calculation von z value: only consideration of lateral height reduction because of rolling origin.

- Bugfixing: Problems calculating vertical displacements in lower range for articulated trainsets (BUG 498)

- Bugfixing: Error in correction of secondary spring deflection values for freight wagon articulated trainsets (BUG 499)

- Bugfixing: Correction no pantograph calculation according to EBO (BUG 509)

- Bugfixing: Correction infinite loop while range check in project definition (BUG 512)

- Possibility of education version licensing

- Miscellaneous corrections

Version 2.5 Build 2 (2014-05-12)

- Implementation of changes of EN 15273-2 edition 2013

- New calculation method "EBO": Consideration of lower condition 3 and calculation of pantograph reduction according to EBO only for this calculation method

- Miscellaneous corrections

Version 2.5 Build 1 (2014-04-25)

- Implementation of calculation according to AB-EBV

- Possibility of report output of downward/upward vertical deflections (k / hs values) and valid widths for vehicle point (verification at vehicle point)

- Revision of database dialogs

- Automatic update of database scheme (with backup & logging) if necessary

- Automatic creation of STEP filenames at standard export path

- Bugfixing: Error transfering calculation positions (BUG 231)

- Bugfixing: Report contains multiple identical lines (BUG 270)

- Bugfixing: False reduction values for GA- and GB-profiles according to UIC 506 (BUG 386)

- Bugfixing: Incorrect representation of describing memotext in input dialogs

- Revision of height section sampling incl. sample dialog

- Adjustment of bogie displacement calculation to TGL 32439-01 (November 1981): Approach of secondary lateral play for considered curve radius

- Adjustment/modification of output of k/hs-values

- Miscellaneous corrections

Version 2.4 Build 5 (2012-60-22)

- Implementation of a new calculation parameter in project definition under "Considered formula parts" inclusive help entry for explanation.

- Bugfixing: comparison vehicle width – permissible width (BUG 200)

- Bugfixing: translation of vehicle construction gauge to design gauge (BUG 205)

- Bugfixing: Translation error in project test

- Miscellaneous corrections