

What's New in V2013.3 ?

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Utils

- General
 - Added [Dtk_Node](#) SubType handling for Virtual [Dtk_Node](#).
 - Added [Dtk_NodeConnector::GetReasonLink](#) - and ReasonCategory - to distinguish 2 Connectors pointing on same element but for different reasons.
 - Added [Dtk_API::GetFileReaderType](#): Independant method to get DtkReaderType associated to File
- Tessellation
 - Added a method to disable 'duplicates faces' suppress during tessellation. 'Duplicates faces' suppress is enabled by default. You can disable it with void [set_tesselationSuppressDuplicateFace\(Dtk_bool inBval\)](#)

Readers

- Acis
 - Added support for new attributes
 - Best support of some attributes
 - Fixed some cases of bad colors
 - Fixed some cases of corrupts loops
 - Fixed some cases of periodic curve
 - Fixed some cases of spherical surface
 - Best support of loft and net surface
- Catia V5
 - Added the R23 support (called CATIA V5-6R2013).
 - Added DTK_TYPE_FDT_ANNOTATION_SET SubType to AnnotationSet Virtual [Dtk_Node](#).
 - Added BlankedStatus to FdtType [Dtk_Node](#). It was previously - and it's still - stored directly into [Dtk_Fdt](#).
 - Removed deprecated functions using old dtk_fdt structures.
- Catia V6
 - Stored DTK_TYPE_FDT_ANNOTATION_SET SubType to AnnotationSet Virtual [Dtk_Node](#) and BlankedStatus to FdtType [Dtk_Node](#).

- Cerec
 - Change method to read bloc, before for each data bloc we have only one mesh, now we create one mesh per submesh

- Inventor
 - Added support for Inventor 2014 (parts and assemblies)
 - Fixed a crash with some assemblies (File version 2011)
 - Best support of visibility with assemblies (File version 2010 updated to 2012)
 - Best support of Sheet Metal Parts
 - Added several cases of loft surface
 - Fixed an assembly decoding bugs (File version 9 SP2 updated to 9 SP4)
 - Best support of offset and sweep surfaces

- Proe (Creo Parametric)
 - Improvement of the Dimension reading and processing
 - Model Display reading
 - Default height text fixed
 - Improvement for the reading of old version of Proe Files
 - Better processing of the quilt visibility
 - Bug Fixing

- Solidedge
 - General improvement
 - Reduce memory used

- Solidworks
 - General improvement
 - Correct assembly feature multi-level
 - Reduce memory used

- Step
 - Better memory use (especially the iniial peak on reading)
 - Improvements in UV computation
 - More modular architecture
 - Reading isolated ORIENTED_CLOSED_SHELL
 - DEGENERATE_TOROIDAL_SURFACE : if quasi-sphere, gives a revolution on arc of circle (better for computation)
 - No longer use of GetConfigFdtDomain in the step reader to control reading of FDT (only stepr:ModeReadFDT applies)
 - Filling the list "Pointing Connectors to a Component"
 - Reading External Element Reference to Connector with Path
 - Semantic FDT : reading TOLERANCE_ZONE, tolerance with DEFINED_UNIT
 - Debug in reading construction geometries (were previously duplicated)

- Unigraphics
 - General improvement
 - Fixed binary problem
 - Fixed instance hidden statut

- Fixed body hidden statut
 - Fixed instance statut used only by drawing
 - Fixed metadata problem
 - Added linked entity on PMI
 - Added missing entities (Annot_TitleBlock for drawing , SKETCH_new_sketch for PMI).
 - Added DTK_TYPE_FDT_ANNOTATION_SET SubType to Virtual [Dtk_Node](#).
 - Added DTK_TYPE_FEATURE subtype to Virtual [Dtk_Node](#).
 - Added [Dtk_NodeConnector::GetReasonLink](#) for PMI to PMI association
 - Added layer on Dtk_AxisSystemPtr information
 - Reduce memory used
- XmtReader (PSKERNEL based Parasolid Reader):
 - General improvement

Writers

- Parasolid
 - Added function to transmit entities in memory to the result file (AddIds(...))
=> see sample project or Specific Writer section in Dtk_API.chm.
 - Added option to write files as binaries files.
- Pdf 3D
 - First release of the SDK.
- Step
 - Compact writing of nurbs and colors is now the default
 - (according to ModelItemName) IDs of curves in wireframe can be written
 - Writing infinite geometries (construction geometries) visible or not (as designated by a connector)
 - Error messages in log file when a geometric link (from of FDT ..) could not be written
 - PMI in assembly : better separation of PMI among parts, of links from PMI to same Component or another one
 - PMI in assembly : writing Connector with Path to External Element Reference (monolithic file only)
 - Support of duplicated original ID (info->GetId), when involved in a link (Connector) all items are now listed
 - Geometric links of PMI : Dtk_Fdt->GeometricalLink no longer used when use of [Dtk_NodeConnector](#) is active
 - Geometric link of PMI now accepts infinite geometry or axis system
 - Geometry of FDT : better distinction of Leader curve
 - Geometry of FDT : removed remaining memory leaks