



PRODUCT RELEASE ANNOUNCEMENT

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| Product Category | Publish 3D |
| Product Group | JT for 3D PDF |
| Release Version | 19.4 |

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| Document Type | Product Release Announcement |
| Status | Released |
| Revision | 2.0 |
| Author | Product Manager |
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History

| Revision | Update Information |
|----------|---------------------------|
| 1.0 | Initial Release |
| 2.0 | Updated for 02 CD release |

Product Codes

| Product Code | Product Description |
|---------------------|-----------------------------------|
| JTPDF-U1 | JT -> 3D PDF On Demand processing |

Supported Application Revisions

The following application revisions have been qualified with this release

| Application | Revision |
|--------------|-----------------|
| Adobe Reader | Adobe Reader XI |

Supporting API's

The following supporting API support is used

| Application | Revision |
|-------------|------------------------------------|
| 3D PDF API | HOOPS Exchange Publish 2016 (v9.1) |
| JTOpen | JTK8.5 |

Supported Operating Systems

The following operating systems have been qualified with this release

| Operating System | Qualification Status |
|------------------|-------------------------------|
| Windows 7 64bit | Qualified and fully supported |



Distribution Media

CD images of the latest release are available from the following download sites.

| Product Code | URL for CD image download |
|--------------------------|---|
| JTPDF-U1 | cdCAD_19.4_JTPDF_WIN.02.zip |
| Unified Interface | cdCAD_19.4_UI_WIN.01.zip |



New Features / Enhancements

The following new features or enhancements have been introduced with this release

| Ref ID | New Feature / Enhancement Description |
|--------|---|
| 1 | <i>PDF API Update:</i> Use of HOOPS v9.1 API |
| 2 | <i>JT Open API Update:</i> Use of JTK v8.5.0.1 API |
| 3 | <i>Home Button View:</i> 3DPDF Write option 'add_home_button' adds a single additional view that can be referenced by Javascript buttons. |
| 4 | <i>Exploded Views:</i> Added general support for exploded views. |
| 5 | <i>Flat to Screen Annotations:</i> 3DPDF Write option 'fts_no_leader' to prevent leader lines being processed and output as 3D when marked as flat to screen. |
| 6 | <i>Associated PMI:</i> Improved the handling of PMI -> Solid highlighting. |
| 7 | <i>PMI Visibility:</i> Added 3DPDF Write option 'invisible_wf_pmi' to allow the visibility state to be honoured. |
| 8 | <i>Improved support for Attribute Information:</i> Any attributes added by Theorem wil now be omitted by default. 3dPDF write option 'keep_ts_attrs' added to re-enable. |
| 9 | <i>Rendering of Default Views:</i> New 3DPDF Write option 'no_default_view' added to stop a default view being honoured but allow for render mode to work correctly due to a limitation (see 'Known Limitations and Restrictions' below). |
| 10 | <i>JT Validation:</i> The JT Validation tool can now be specified without an output file. |
| 11 | <i>Processing Subnode Data:</i> JT Read improvements to the efficiency of reading subnode data when there are a large number of nodes. JT Read argument 'spec_tree' added. |
| 12 | <i>PLMXML Data Read Improvement:</i> When an API error is returned the process will continue to run and try to complete rather than terminate. |
| 13 | <i>Motion Data Support:</i> JT Read argument 'motion_file' added where a supplied ".vfm" file can be used to read in motion data. |



Known Limitations and Restrictions

The following limitations and restrictions have been identified during final testing prior to release

| Ref ID | Limitations and Restrictions |
|--------|--|
| 1 | <i>Help Shortcut:</i> The Help short-cut point to <install_dir>\help.html. This redirects to the latest help on the web site at http://www.theorem.com/Documentation There is, however, no short-cut to the help shipped on the CD, which can be accessed at: <install_dir>\Guides\JT_3DPDF_index.htm |
| 2 | <i>PMI Flipping:</i> PDF does not support flipped PMI |
| 3 | <i>PMI to PMI Annotations:</i> PDF does not support linked PMI |
| 4 | <i>Unified Interface Export:</i> When exporting from the Unified Interface, the output name uses the top level assembly name by default, regardless of selection. This can be overridden via the <i>Translator Options->Confirmation</i> panel |
| 5 | <i>Unified Interface Viewer:</i> The Unified Interface Viewer does not display PMI at the assembly level |
| 6 | <i>Unified Interface Viewer:</i> There is no option to export the entire assembly from the Viewer, when nothing is selected |
| 7 | <i>PDF Default View:</i> If a default view is set along and any render mode other than Solid is configured then the render mode will not be honoured. |



Resolved Support Calls

The following list of Support Calls are resolved with this release

| Support Call ID | Brief Description |
|-----------------|--|
| CAS-02436 | <i>Detail naming:</i> Correct error when modifying the names of details to be unique. When comparing a detail name with the existing names a match was found with any part of the name when it should have been checking from the beginning only. |
| CAS-02462 | <i>PMI Associations:</i> Changes to allow association between PMI and tessellated bodies using a "null" brep. |
| CAS-02483 | <i>PMI Filtering:</i> Added filtering of PMI via PMI types supplied in a file. New command line: <code>'pmi_filter_file <filter file name>'</code> |
| CAS-02486 | <i>PMI Associations:</i> Update and fix for associated edges and face ids that were unique in an assembly context. |
| CAS-02502 | <i>General Processing:</i> When reading a rotation matrix for an Occurrence transform, the matrix needs transposing before processing. |
| CAS-02547 | Added new command line argument "xref_type". When run in conjunction with struct_read, this changes any external references in the GCO file to the type specified, by changing any REFASSYNAME and REFASSTYPE attributes. This change is aimed at JT->3DPDF - The JT read leg will read a PLMXML file with referenced JT files and replace the references to .PRC files that exist in the same location as the JT files. The 3DPDF write leg will then process the GCO file and import the referenced PRC files. |
| CAS-02616 | <i>Zoom Level Update:</i> New 3DPDF Write command <code>'landscape_page'</code> option to correct zoom issues when data is in landscape layout. |
| CAS-02620 | <i>Node Name Processing:</i> Added the ability to sanitize node names, specifically for use with the UI to remove '/' characters that are interpreted as folder delimiters. Two new 3DPDF Write arguments <code>'sanitize_chars <chars>'</code> and <code>'replace_char <c>'</code> have been added |
| CAS-02656 | <i>PMI Association Highlighting:</i> Added option <code>'no_cross_highlighting'</code> which disables PMI-GEOM highlighting. |
| CAS-02659 | <i>Processing of 2D Curves:</i> New 3DPDF Write argument added <code>'use_2D_curves'</code> which allows data to be processed |
| CAS-02660 | <i>View Naming:</i> New 3DPDF Write option added <code>'view_part_name'</code> option which uses the part name in the view names to help identify the views when selected in PDF. |
| CAS-02701 | <i>Multi Transform Processing:</i> Allow for nodes with more than one transform attached. An assembly stored in metres and containing millimetre parts contained two transforms on the nodes referencing the millimetre parts. The first positioned the node and the second scaled the node. This modification combines all the transforms on each node so will also cope with more complicated combinations. |
| CAS-02706 | <i>CompoundRep Element Processing:</i> Updated, previously the assumption was made that only one relevant external reference would be found in a set of CompoundReps, so the external reference was added to the assembly node. Now each CompoundRep with a valid external reference will produce a node under the assembly node. |



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| CAS-02727 | <i>General Processing:</i> Fixed crash where code assumed that the number of faces referenced by an edge was always 2, where in the case where a face had been invalidated, it was 1. |
| CAS-02729 | <i>PLMXML Processing:</i> When processing a PLMXML assembly, each JT file referenced by the PLMXML file is read and processed. Previously, if there was a clash of naming between two of the JT files, then an error was reported by the toolkit. |
| CAS-02755 | <i>Wireframe Output:</i> Wireframe with no colour set was not being displayed in views. |
| CAS-02826 | <i>Surface Processing:</i> Prevent surfaces from being extrapolated by a large amount by limiting the extrapolation to a maximum of one surface extent. |
| CAS-02834 | <i>View Processing:</i> Updated 3D PDF template button 'print all views' - had issue when there were '.' (dots) in view names. |
| CAS-02842 | <i>View Processing:</i> Bug fix in fix up code, which regroups data such that when the advanced option ' <i>view_geom_filter 15</i> ' is used the views respond quickly when swapping between them. |

