



## Document - CS257684

### Document Information

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### Document Details

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| <b>Title</b>       | About Augmented Reality and ThingMark publishing capabilities starting in Creo Parametric 4.0 M010                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b> | <ul style="list-style-type: none"> <li>About Augmented Reality and ThingMark publishing capabilities starting in Creo Parametric 4.0 M010</li> <li>How to quickly publish augmented reality experiences from Creo for use with the ThingWorx View app</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Applies To</b>  | <ul style="list-style-type: none"> <li>Creo Parametric Creo 4.0 M010</li> <li>ThingWorx View app on on <a href="#">Apple iTunes store</a>, <a href="#">Android Google Play store</a>, and <a href="#">Microsoft Store</a></li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Cause</b>       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Resolution</b>  | <ul style="list-style-type: none"> <li><b>Starting in Creo Parametric 4.0 M010 it is possible to publish an out of the box augmented reality experience of any CAD model for free</b></li> <li><b>Workflow</b> <ol style="list-style-type: none"> <li><b>Open</b> a model in Creo Parametric M010 or later</li> <li>Select <b>Tools &gt; Add ThingMark</b> from the <b>Augmented Reality</b> group</li> <li>Place the ThingMark as desired           <ul style="list-style-type: none"> <li><b>On Floor</b> <ul style="list-style-type: none"> <li>Use model orientations (Front, Top, Right, etc.)</li> </ul> </li> <li><b>On Model</b> <ul style="list-style-type: none"> <li><b>Attach to</b> some model reference and define <b>Side ref1</b> and <b>Side ref2</b></li> </ul> </li> <li><b>Advanced</b> <ul style="list-style-type: none"> <li><b>Place manually</b> with Creo constraints or place using a <b>Component Interface</b></li> </ul> </li> <li><b>Note:</b> the scale of the ThingMark will determine how large the model appears in the augmented reality experience</li> </ul> </li> <li>Select the ThingMark from the Footer in the model tree</li> <li>Select <b>Publish Model</b> from the <b>Augmented Reality</b> group in the ribbon under the <b>Tools</b> tab           <ul style="list-style-type: none"> <li>Enter a unique <b>Model Name</b> when publishing to avoid undesired overwriting of an experience with the same name</li> </ul> </li> <li>Set the <b>Viewable quality</b> as desired (Low, Medium, High) &gt; click <b>OK</b> <ul style="list-style-type: none"> <li>The first time you publish a model you will have to enter your PTC.com account credentials</li> <li>Higher <b>Viewable quality</b> takes longer to publish, and downloads more data during the AR experience using the Thingworx View app</li> </ul> </li> <li>A message appears stating           <ul style="list-style-type: none"> <li><i>Publish Succeeded. Publishing of Augmented Reality Experience Model is successful</i></li> </ul> </li> <li>Click <b>Close</b></li> <li>Click <b>Print ThingMark</b> or <b>Share ThingMark</b> to either print or send an email to share your ThingMark image with others</li> <li>Open the ThingWorx View app and scan your ThingMark to access the experiences associated with that ThingMark           <ul style="list-style-type: none"> <li><a href="#">ThingWorx View app</a> on Apple iOS iTunes store</li> <li><a href="#">ThingWorx View app</a> on Android Google Play store</li> <li><a href="#">ThingWorx View app</a> on Microsoft Store (Windows 10)</li> </ul> </li> <li>Each experience allows the user to <b>Zoom/Scale, Rotate</b> (about Y axis of default CSYS), and set <b>Transparency</b></li> </ol> </li> </ul> |

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|                | <ul style="list-style-type: none"> <li>• <b>Config.pro options</b> <ul style="list-style-type: none"> <li>• <b>ar_publish</b> <ul style="list-style-type: none"> <li>• default value is yes; no will gray out the command (in case admins want to disable this functionality through config.sup)</li> </ul> </li> <li>• <b>ar_server</b> <ul style="list-style-type: none"> <li>• can be used to point Creo to user's personal experience server</li> </ul> </li> </ul> </li> <li>• <b>Details</b> <ul style="list-style-type: none"> <li>• A unique ThingMark will be generated for the user upon their first publishing</li> <li>• Each user can have 5 experiences published at any time <ul style="list-style-type: none"> <li>• Publishing the next experience will <b>replace</b> the oldest experience published from that account</li> <li>• Publishing another experience with the same name will <b>replace</b> the original</li> <li>• Each experience has a 6 month shelf life and will <b>expire</b> after that</li> </ul> </li> <li>• Each experience the user publishes is tied to their unique ThingMark</li> <li>• Sharing your ThingMark with others will give them access to any experience currently published</li> <li>• There are no options to manage the published experiences</li> <li>• <b>ThingWorx Studio</b> allows for more control and customization (such as publishing explode states, cross sections, animations, etc.) <ul style="list-style-type: none"> <li>• eSupport: <a href="#">ThingWorx Studio product tab</a></li> <li>• Community: <a href="#">ThingWorx Studio Community</a></li> </ul> </li> </ul> </li> </ul> |
| <b>Related</b> | <ul style="list-style-type: none"> <li>• <a href="#">Which new capabilities or enhancements are planned for Creo Parametric 4.0 M010 and M020</a></li> <li>• <a href="#">Creo Parametric 4.0 M010 exits when attempting to resume a Thingmark in a generic when the Thingmark was placed in one of the generic's instances</a></li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

## SPR Information

### Related Documents

| Type | Number | Status | Description |
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