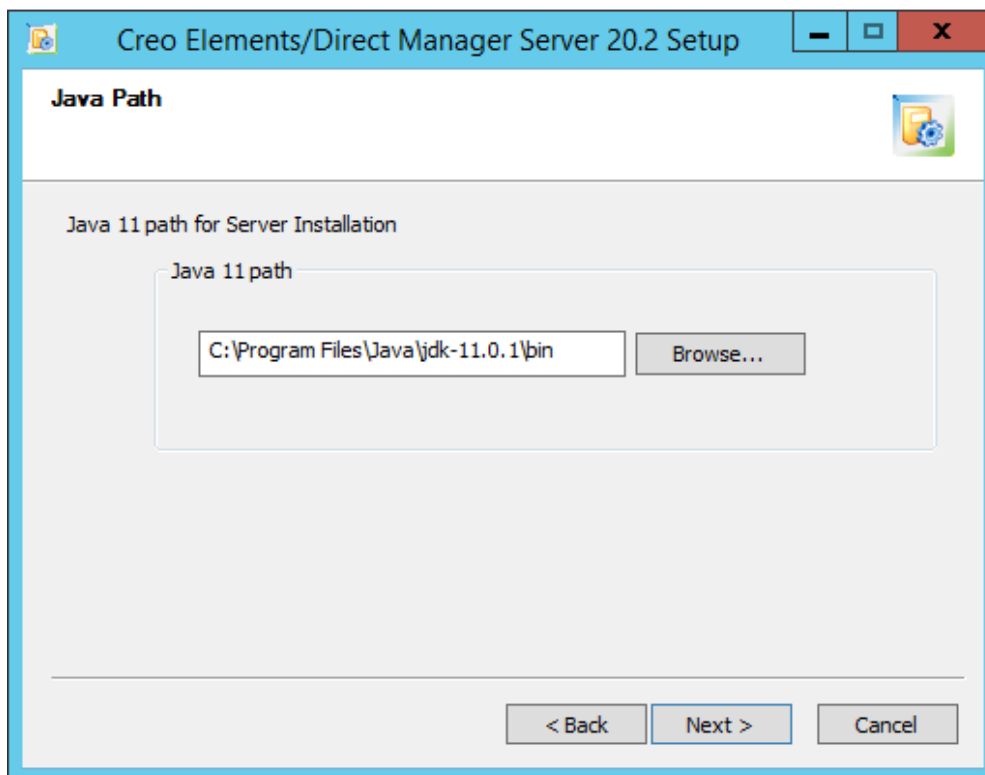# Fixes and Enhancements
Creo Elements/Direct® Model Manager and Drawing Manager 20.3

Please find below the list of fixes and enhancements - as of March 19th, 2020 - that have been implemented for Creo Elements/Direct Model Manager / Drawing Manager 20.3.

Java 11 Support with 20.2 onwards:

When you install Creo Elements/Direct Manager Server 20.2 / Creo Elements/Direct Model Manager 20.2 / Creo Elements/Direct Drawing Manager 20.2 or beyond, a **valid** version of Java 11 must be available on your computer. See this link for more information.

The Java 11 path that you specify during installation (server and client) **must include the bin folder**. For example, C:\Program Files\Java\jdk-11.0.1\bin.

Note: PTC uses Java 11.0.6 for development and testing.

Web Services Usage:

For correct operation of Web Services, you must add mmweb to the URL paths as shown in the following example:

Web Services

Endpoint	Information
Service Name: {http://systinet.com/wsdl/com/osm/webservices/server/}OSMService Port Name: {http://systinet.com/wsdl/com/osm/webservices/server/}OSMService	Address: http://vkarn2ll:8580/mmweb/OSMService WSDL: http://vkarn2ll:8580/mmweb/OSMService?wsdl Implementation class: com.osm.webservices.legacy.OSMService
Service Name: {http://systinet.com/xsd/SchemaTypes/}FileService Port Name: {http://systinet.com/xsd/SchemaTypes/}FileService	Address: http://vkarn2ll:8580/mmweb/FileService WSDL: http://vkarn2ll:8580/mmweb/FileService?wsdl Implementation class: com.osm.webservices.legacy.FileService
Service Name: {http://ws.osm.com/}QueryService Port Name: {http://ws.osm.com/}QueryService	Address: http://vkarn2ll:8580/mmweb/QueryService WSDL: http://vkarn2ll:8580/mmweb/QueryService?wsdl Implementation class: com.osm.ws.QueryService
Service Name: {http://ws.osm.com/}UpdateService Port Name: {http://ws.osm.com/}UpdateService	Address: http://vkarn2ll:8580/mmweb/UpdateService WSDL: http://vkarn2ll:8580/mmweb/UpdateService?wsdl Implementation class: com.osm.ws.UpdateService

ID	Description	Module	Release
8227716	Client window always screen size as soon as wmproperties.lst exists in Creo Elements/Direct Model Manager 20.2	Base Functionality - Model Manager	Model Manager - Drawing Manager 20.3.0.0
8244650	Java Services Manager does not start. File javaPathClient.txt that is referred in runsm.bat is missing in installation directory	Base Functionality - Model Manager	Model Manager - Drawing Manager 20.3.0.0
2814823	Configuring the ConsolidatedBomTableColumnModel section with clear tag causes WMException at Flattened BOM generating.	BOM Editor	Model Manager - Drawing Manager 20.3.0.0
8264741	De-installing Model Manager 20.1 (32bit) and installing Model Manager 20.2 (64bit) loses the connection	Installation - Model Manager	Model Manager - Drawing Manager 20.3.1.0
7956928	MM_64-bit_Model Manager window does not fit/maximize on laptop and 4k monitor.	Model Manager	Model Manager - Drawing Manager 20.3.1.0
7961424	The option to check / uncheck JAVA File Server in the installer should be greyed out, if there is only JAVA based FS.	Model Manager	Model Manager - Drawing Manager 20.3.0.0
7984584	Workflow symbols are shown in thin lines as compare to earlier release.	Model Manager	Model Manager - Drawing Manager 20.3.1.0
7984852	MM_20.2F000-Platform support page need to be updated.	Model Manager	Model Manager - Drawing Manager 20.3.1.0
8033672	Large number of ".hprof" files accumulated in the Model Manager log folder while loading	Model Manager	Model Manager - Drawing Manager

			20.3.1.0
8048726	Manager server Java services window does not open up from Start Menu.	Model Manager	Model Manager - Drawing Manager 20.3.0.0
8090634	User is unable to see icon symbol in web client.	Model Manager	Model Manager - Drawing Manager 20.3.0.0
8174678	One additional blank window open-up while assigning a part to Drawing in Drafting.	Model Manager	Model Manager - Drawing Manager 20.3.0.0
8717375	After stopping "java service" from windows task Manager, all MM java services should be stopped. Now all services are showing as Started.	Model Manager	Model Manager - Drawing Manager 20.3.0.0
9593991	Model Manager java selection window does not pick Java 11.* versions automatically.	Model Manager	Model Manager - Drawing Manager 20.3.0.0
9881768	Unable to see attribute folders in the "Assign Data Directory" window.	Model Manager	Model Manager - Drawing Manager 20.3.0.0
8419759	Assembly SD file child SYSID is not in sync from 20.2-F000 pb_pub output when compared with Modeling	Model Manager WBM Extraction	Model Manager - Drawing Manager 20.3.0.0
8341159	Model Manager 20.2 web client does not report icons correctly	Web Services	Model Manager - Drawing Manager 20.3.1.0
8825892	QueryService URL was changed in 20.1.1	Web Services	Model Manager - Drawing Manager 20.3.0.0
9600886	The Model Manager Java Services Manager is limited to 5 Jettyslaves - further services cannot be controlled through the Java Services Manager	Web Services	Model Manager - Drawing Manager 20.3.0.0
9899139	Opening page http://model manager server:8580/OSMService does not open	Web Services	Model Manager - Drawing Manager 20.3.0.0