



# The *3dxtools* productivity toolset for 3DEXPERIENCE

DesignRule's *3dxtools* productivity toolset significantly reduces the implementation time of the 3DEXPERIENCE platform. By delivering pre-built and configurable OOTB++ enhancements to the standard 3DEXPERIENCE, *3dxtools* results in faster implementations and higher returns on PLM investments; *3dxtools* also enables companies to build their own business solutions with no coding, increasing its value and ROI to the business. *3dxtools* is essential for a successful 3DEXPERIENCE plan

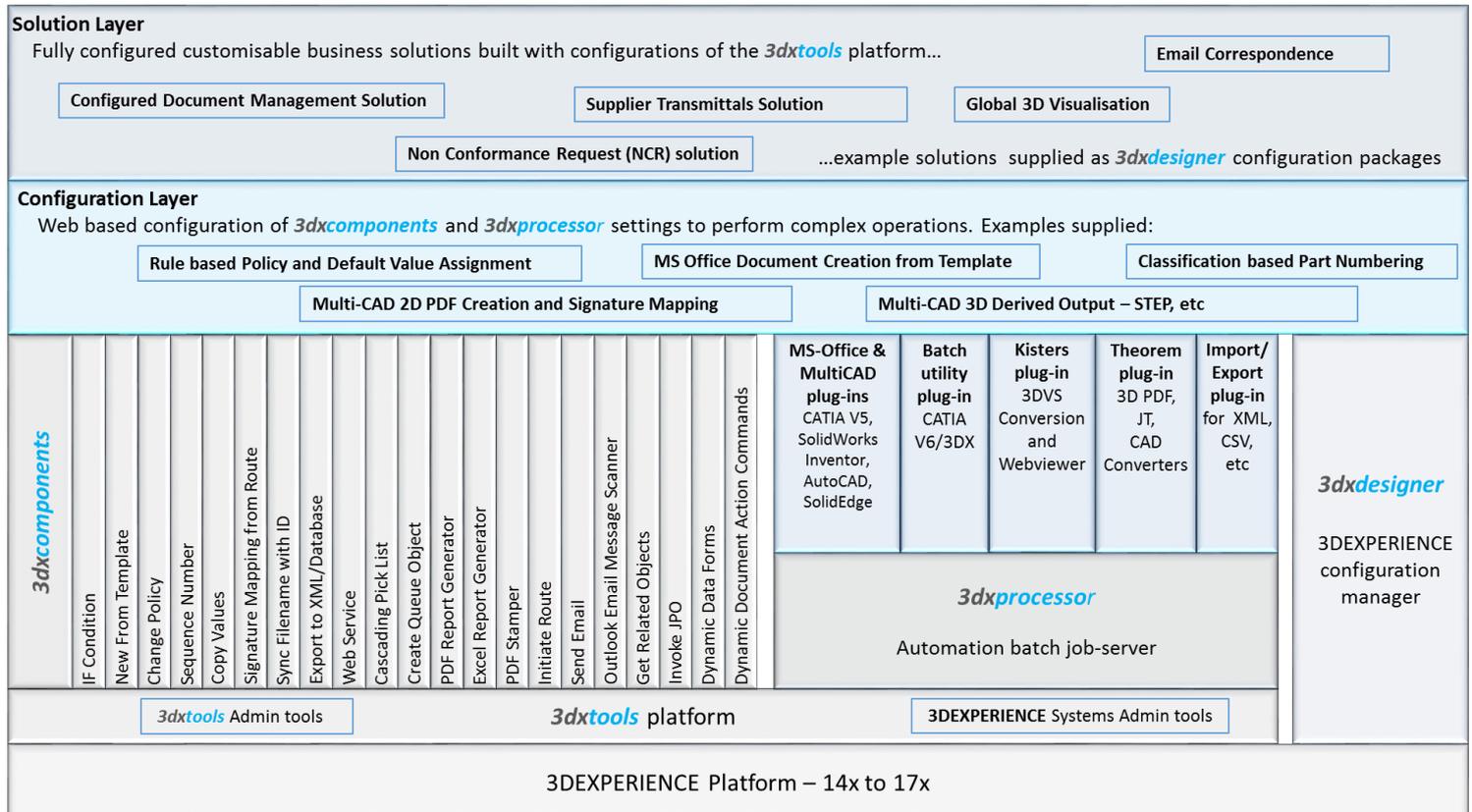
Gaps exist between what users require and what OOTB (out-of-the-box) 3DEXPERIENCE functionality provides. Implementation teams need to evaluate the impact of customisation on upgradeability, interoperability and implementation time. Customisation makes implementations and upgrades significantly longer and more expensive, adding unnecessary risk and can causing projects to get delayed.

During 15+ years of implementing PLM, Design Rule found that most organizations require common changes to OOTB PLM solutions like 3DEXPERIENCE so we developed the *3dxtools* architecture for customers who want both an OOTB solution **and** to have it fully optimised for their business. *3dxtools*, and its equivalents for SmarTeam and ENOVIA V6, are used worldwide by many small and large companies. *3dxtools* enables individual enhancements to be componentised, and built up into company wide business solutions without customisation or coding, while streamlining 3DEXPERIENCE implementation and upgrades. *3dxtools* not only closes the gap between requested and OOTB 3DEXPERIENCE functionality, but also reduces the time and costs required to investigate the impact of each change, leading to faster and lower risk implementations, while eliminating the costs of customisation services.

*3dxtools* customers include:



DesignRule's *3dxtools* architecture is designed with the flexibility to allow customers to implement, deploy and upgrade in the way they want, at the speed they want and at the granularity they want; typically reducing the man-time for implementation by up to 50%



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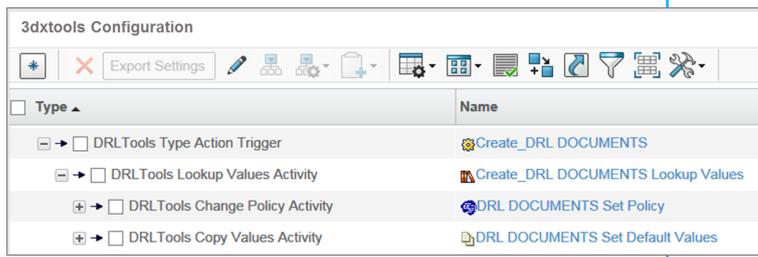
# 3dxtools overview

*3dxtools* is designed to be easy to set-up and maintain and uses the standard 3DEXPERIENCE Administration Settings and UI. *3dxtools* are composed of *3dxcomponents* and *3dxprocessor* modules, with the *3dxdesigner* providing *3dxtools* and 3DEXPERIENCE configuration management for deployment

## 3dxcomponents

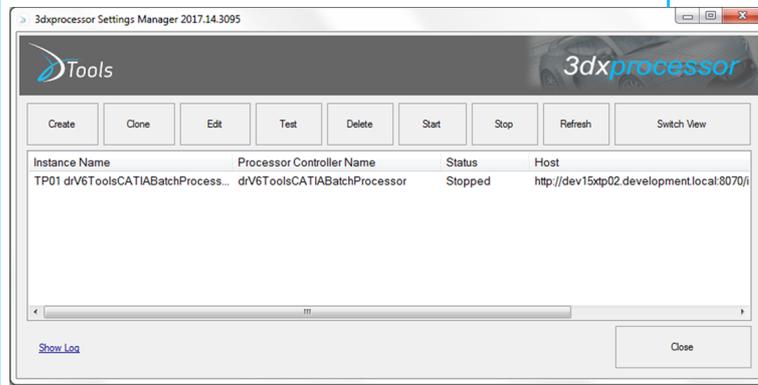
*3dxcomponents* use a single JPO method to connect event triggers in 3DEXPERIENCE. When this JPO fires it uses the 'event name' (i.e. create, check in, modify) and the 'type name' to search and find a corresponding 3dxcomponent Trigger Object. If it finds one of these objects it will then run all dependant *3dxcomponents* objects below it.

*3dxcomponents* objects themselves can be further linked to dependant sub-activities allowing you to control and trigger a chain of complex actions from one event



## 3dxprocessor

The *3dxprocessor* is a general multi-purpose server side job processing platform designed to handle any offline task created by *3dxcomponents* required by an 3DEXPERIENCE implementation (i.e. PDF view file generation, or CAD derived output). The server runs as an unattended windows service on a separate server with configuration and management handled through the 3DEXPERIENCE standard UI.



## 3dxtools systems requirements

- Prerequisites as 3DEXPERIENCE R2014x or later, inc. Web Services.
- CAD/MS-Office applications as supported by 3DEXPERIENCE at Release and SP level.

## 3dxtools are available through our global partners:

- North America      Inceptra [www.inceptra.com](http://www.inceptra.com)
- Europe                Visiativ [www.visiativ-solutions.com](http://www.visiativ-solutions.com)

## About Design Rule

As a Dassault Systemes PLM Partner since 1999, our greatest commitment is to our customer's success - 'we never let a customer fail'. We have a global reputation for the highest technical competency and for delivering innovative, cost effective and rapidly implemented PLM tools and solutions. Our strategic partnerships with industry leaders in the UK and globally enable us to provide a single point of contact for implementation of global PLM solutions that truly improve our customers productivity and profitability.

## Configurations & Solutions

When a number of *3dxcomponents* are configured together that build a complex process or automation, these are called **Configurations**. Like the individual *3dxcomponents* settings, these **Configurations** can be exported as xml and imported to a different 3DEXPERIENCE environment using *3dxdesigner*. A number of **Configurations** are delivered out of the box which can be used or adapted

**Solutions** are supersets of **Configurations** and typically have been built to deliver a business solution. A number of **Solutions** are delivered out of the box which can be used or adapted, including:

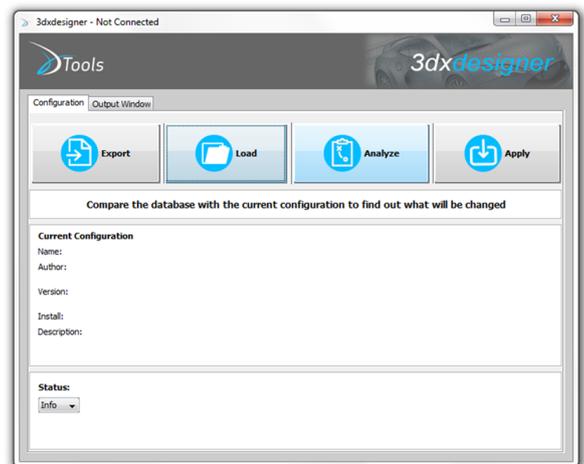
- Configurable Document Management
- Supplier Transmittals
- Project Correspondence, including emails

Like the individual *3dxcomponents* settings, these **Solutions** can be exported as xml and imported to a different 3DEXPERIENCE environment using *3dxdesigner*.

## 3dxdesigner

The *3dxdesigner* application allows administrators a simpler approach to creating & life-cycle-managing *3dxtools* and 3DEXPERIENCE configurations to deploy in an 3DEXPERIENCE implementation. The configurations are saved to a readable, coherent XML file. This means that a configuration can be created and/or modified simply by creating or modifying existing xml files.

The *3dxdesigner* application allows a user to export a configuration to xml files from the 3DEXPERIENCE system, load xml files into the application to compare the saved configuration with the configuration in the database, and import an xml configuration into another 3DEXPERIENCE system. The *3dxdesigner* application also allows a user to select which administrative objects the user wishes to export.



The *3dxdesigner* application is built using a modular approach on the Netbeans Developer Platform. This provides an extendible platform for further 3rd party development.

## Key Benefits

- Simple and easy to use interface.
- Analysis tool to compare current configuration with one in the database.
- Simple export and import capabilities.
- Selection of admin objects that can be loaded