



Understanding, Using and Automating Model States

Save Time and Space

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Michael Grant, Project Engineer

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35 years in special machine design and the finishing industry.

The past 23 years I have enjoyed using Autodesk Inventor to solve problems.

I'm passionate about automation.

I love to share what I do with others.

I love when others share their knowledge with me.

It is my privilege to share Autodesk's New Model State feature with you today!

What do YOU need to know

- Strong Knowledge of Autodesk Inventor
- Basic Knowledge of iLogic and API

What ARE we going to talk about

- How to automate Autodesk Inventor New Model States
- Setting up the create a new model state rule
- Setting up the Assembly Drawing Rule

What are we NOT going to talk about

- Vault
- How iLogic works

Learning Objectives

- Learn how to automatically create a new model state from the assembly.
- Learn how to, with few parameters, create new Model States for all the assemblies and parts.
- Learn how automated rules will also generate the drawings, SAT, PDF, and DXF files needed to complete the job.
- Receive all the code to be successful in your new journey with Model States.

Model State API

ModelState.Copy

We create a new model state by making a copy of the [Primary] model state. This copies the current parameter values from that state.

ModelState.Activate

PartComponentDefinition.FactoryDocument

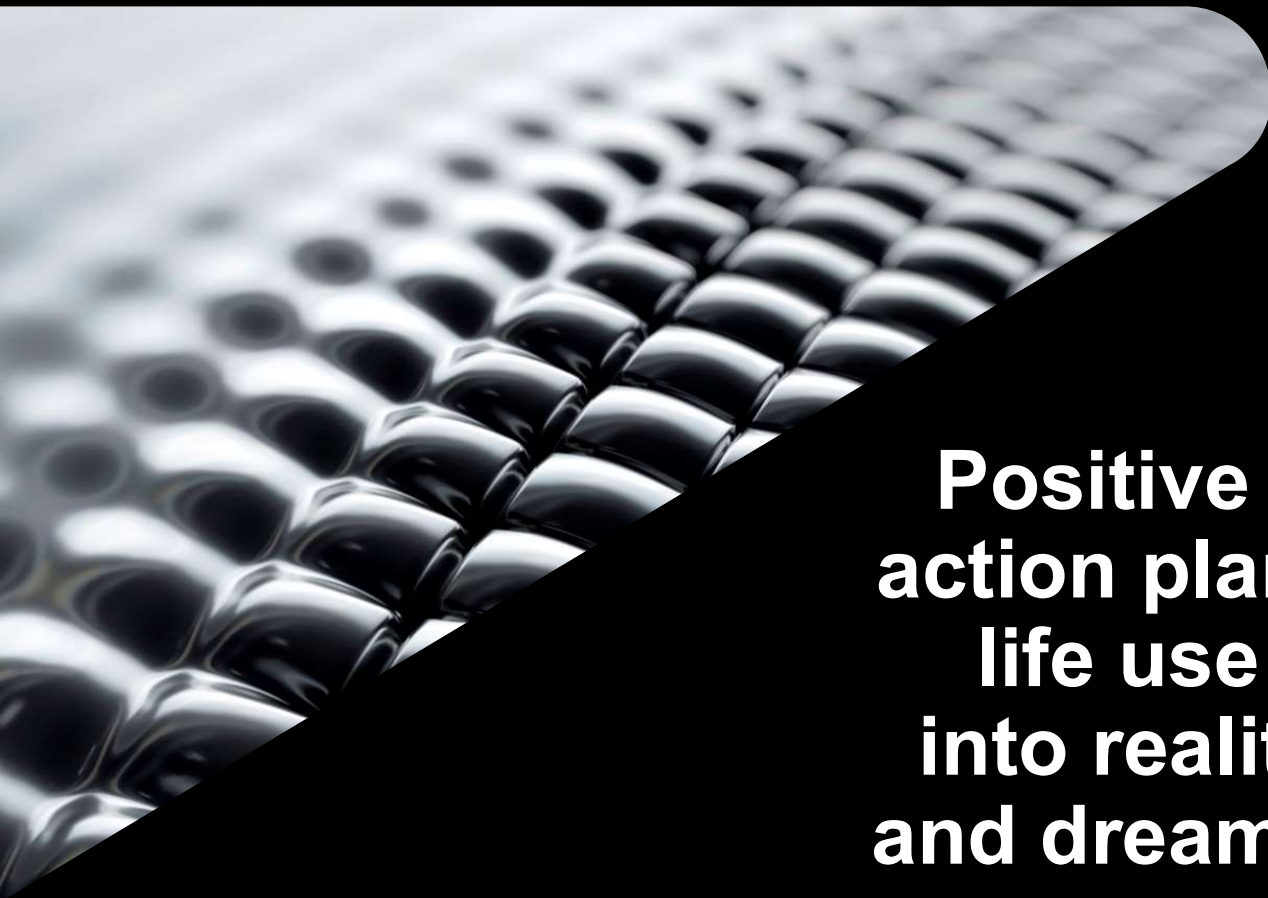
We use this within an assembly rule to get the factory document of the part. Required to create a new model state.

iLogic

ThisDoc.ActiveModelState

Component.ActiveModelState

These provide a one-line method to activate a model state or get the name of the active model state. The same operation can be done with the API, but it requires more code.

A close-up, black and white photograph of a textured surface, possibly a metal mesh or a woven fabric, with a grid of raised, rounded squares. The texture is highly detailed and occupies the left side of the image.

**Positive self-direction is the
action plan that all winners in
life use to turn imagination
into reality, fantasy into fact,
and dreams into actual goals.**



Please remember to fill out your class reviews, it really does help all the AU speakers deliver a great speech

Q&A

- Don't forget to download the work sheet and data set!
- Let me know how Model State is working for you. Find me on [Mike Grant | LinkedIn](#)
- Thank you for joining me today!
- Positive thinkers get positive results because they are not afraid of problems by KHB

So, let us know what you think, and have a great time here at AU 2022



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