MA1451: Autodesk® Configurator 360™

Making It Easy to Create Web and Mobile Catalogs of Configurable Products

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Class summary

Autodesk Configurator 360, a new software as a service (SaaS) offering, makes it absurdly easy to publish configurable models to an online catalog. Your sales teams, distributors, and customers can then configure, visualize, and request a quote for a product through a web browser or a mobile device. This class provides an overview of the steps required to publish catalogs and illustrates the process with some examples.

Key learning objectives

At the end of this class, you will be able to:

Put configurable models on the web!

- Create appropriate content for a catalog
- Use Configurator 360 to create the catalog
- Use Configurator 360 to connect sales and engineering
- Describe other workflows supported by Configurator 360

Today's Schedule

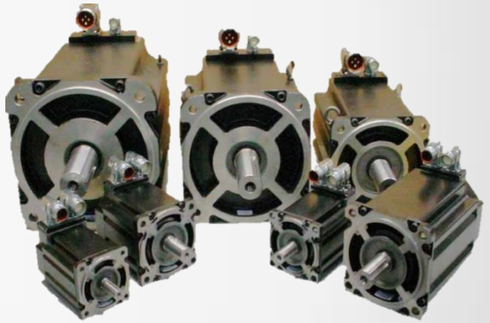
- Really quick overview of Configurator 360 functionality
- Why Configurator 360 is absurdly easy
  - The "one-minute demo"
  - Overview of Configurator 360 functionality
- Comparison of configuration technologies:
  - iParts/iAssembly (simple test box)
  - iLogic (brewing rack, playground structure)
  - ETO (overhead crane and walkway roof)

Configurator 360
Really Quick Overview

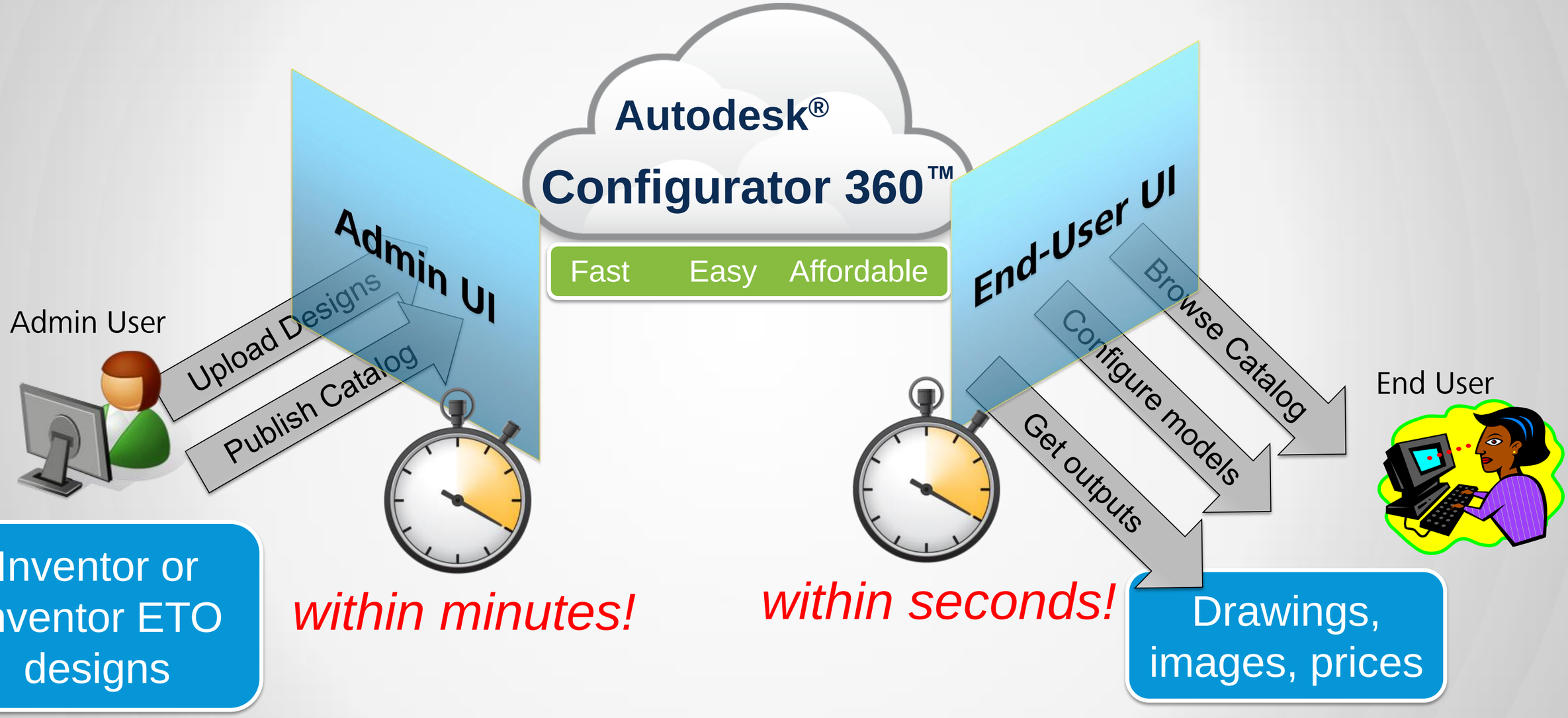
Autodesk® Configurator 360™

Online catalog of configurable products

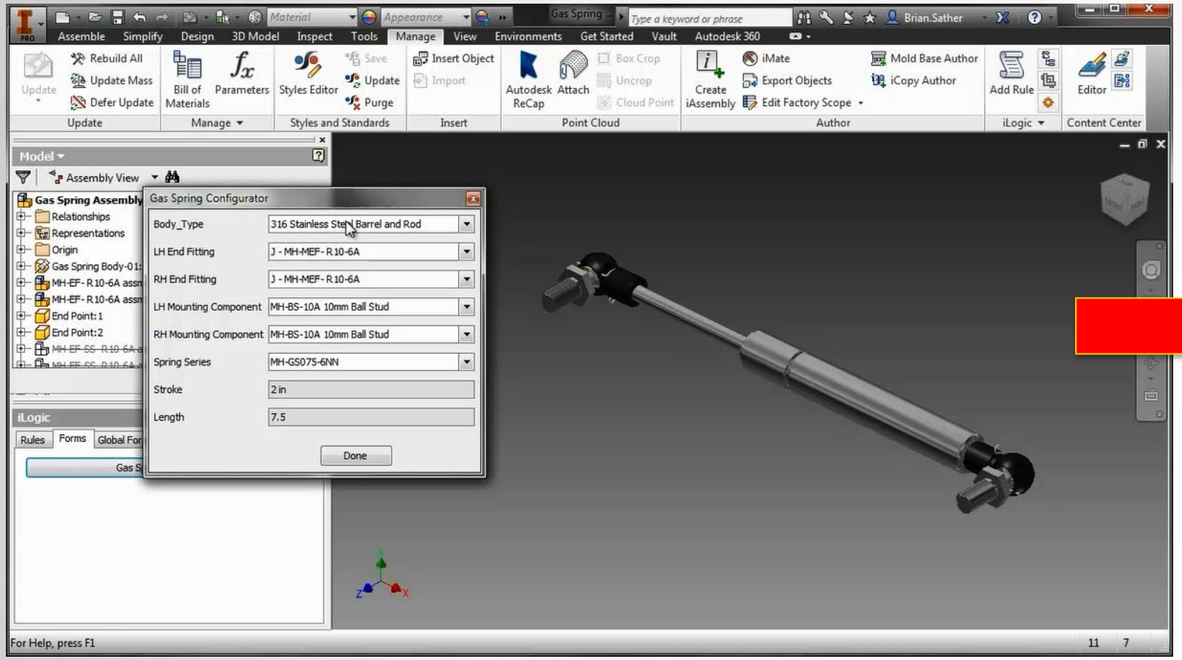
- Publish branded catalogs of customizable products
- Configure products online or through mobile device
- Download configured models or send for quote



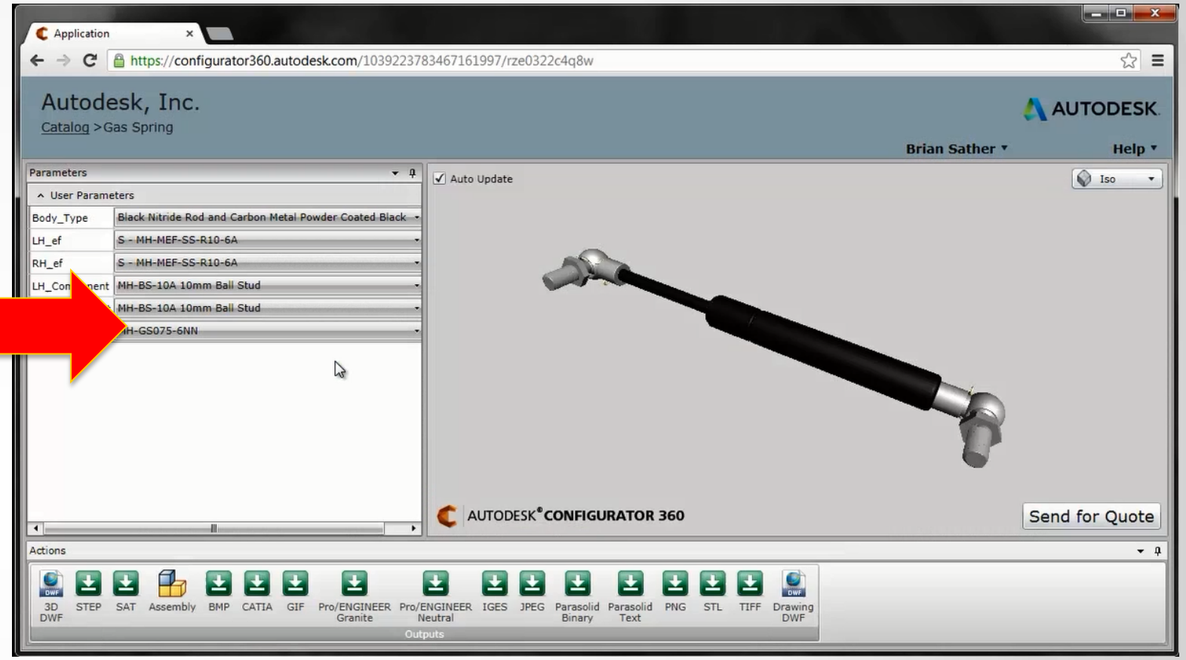
Online Configurator Made Easy



From Desktop to Web/Mobile in Minutes



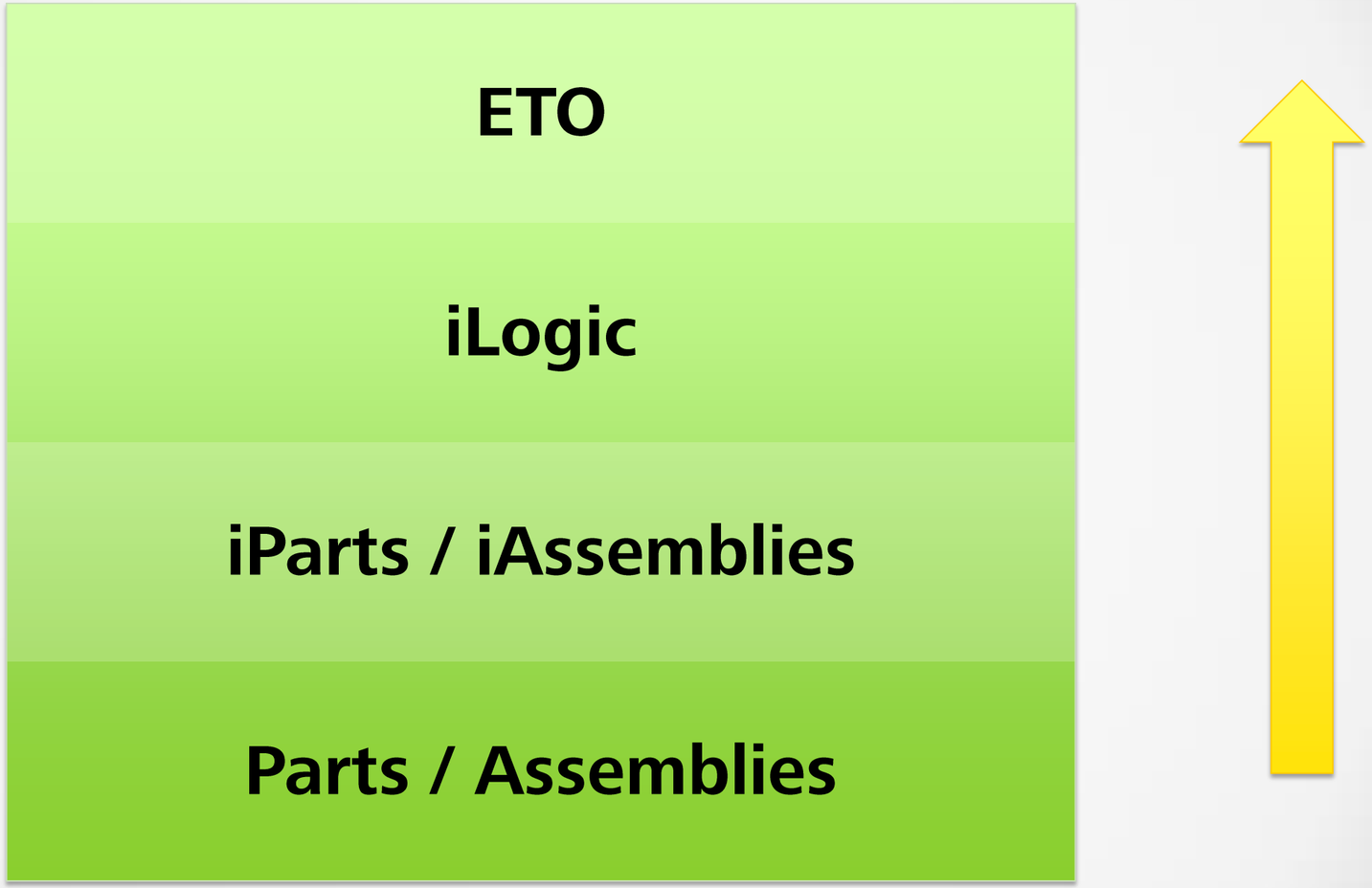
Inventor / Inventor ETO



Configurator 360

- No product downloads! Sign in online and start creating a catalog for your Inventor or Inventor ETO models

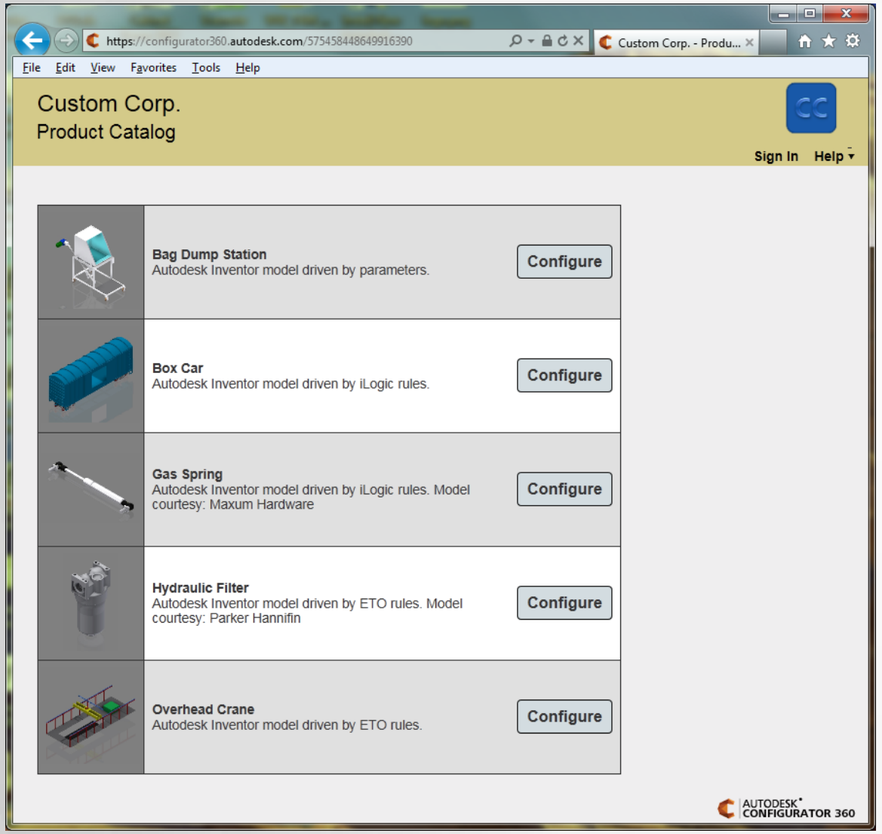
Supported Configurations



A catalog can be a mix of all these!

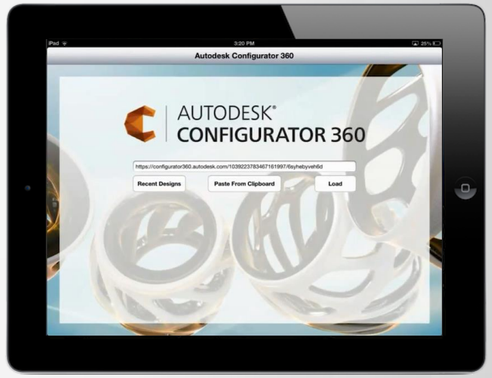
Easily Accessible

- Create a branded catalog



Catalog URL

Web

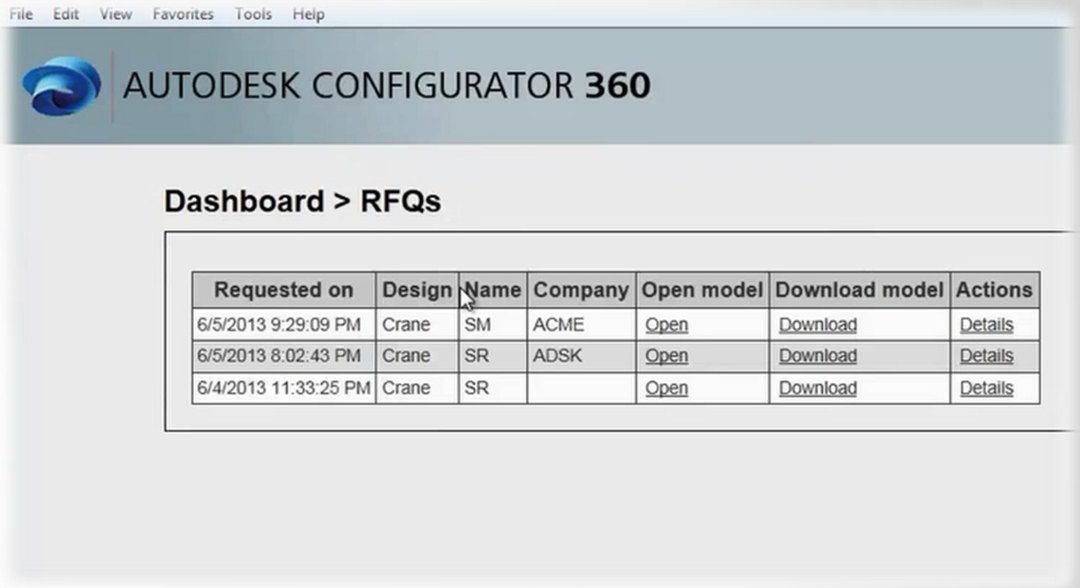


iPad® app

- Easily share the catalog with Sales Reps or DIRECTLY with your customers

Downloads and RFQs

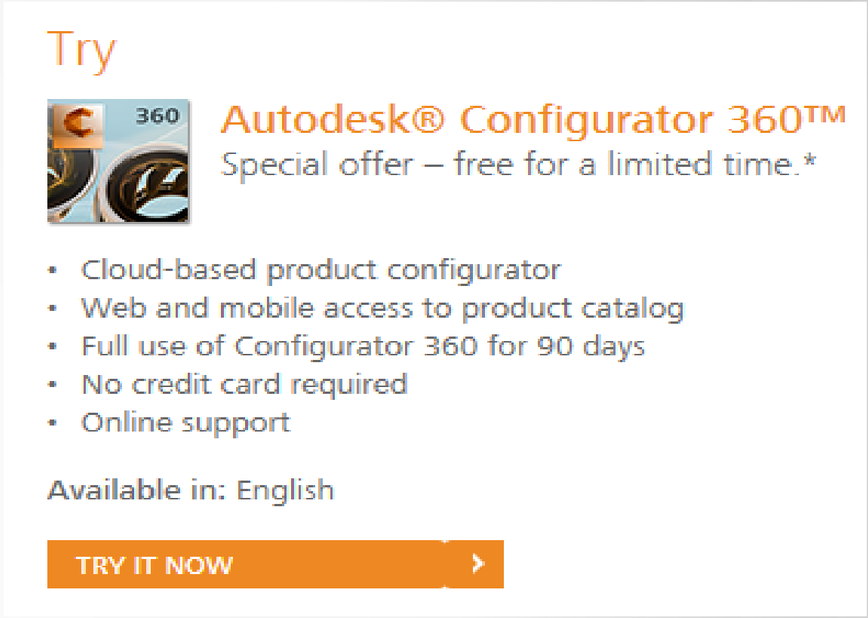
Inventor IGES STEP DWF™
RFA™ CATIA® V5 SAT STL
JT™ Parasolid® Binary/Text
Pro/Engineer® Granite/Neutral
Images(BMP / JPEG / GIF / TIFF)



- Save designs in many CAD formats or as high-resolution images
- Get notifications for RFQs, access them from a Dashboard View

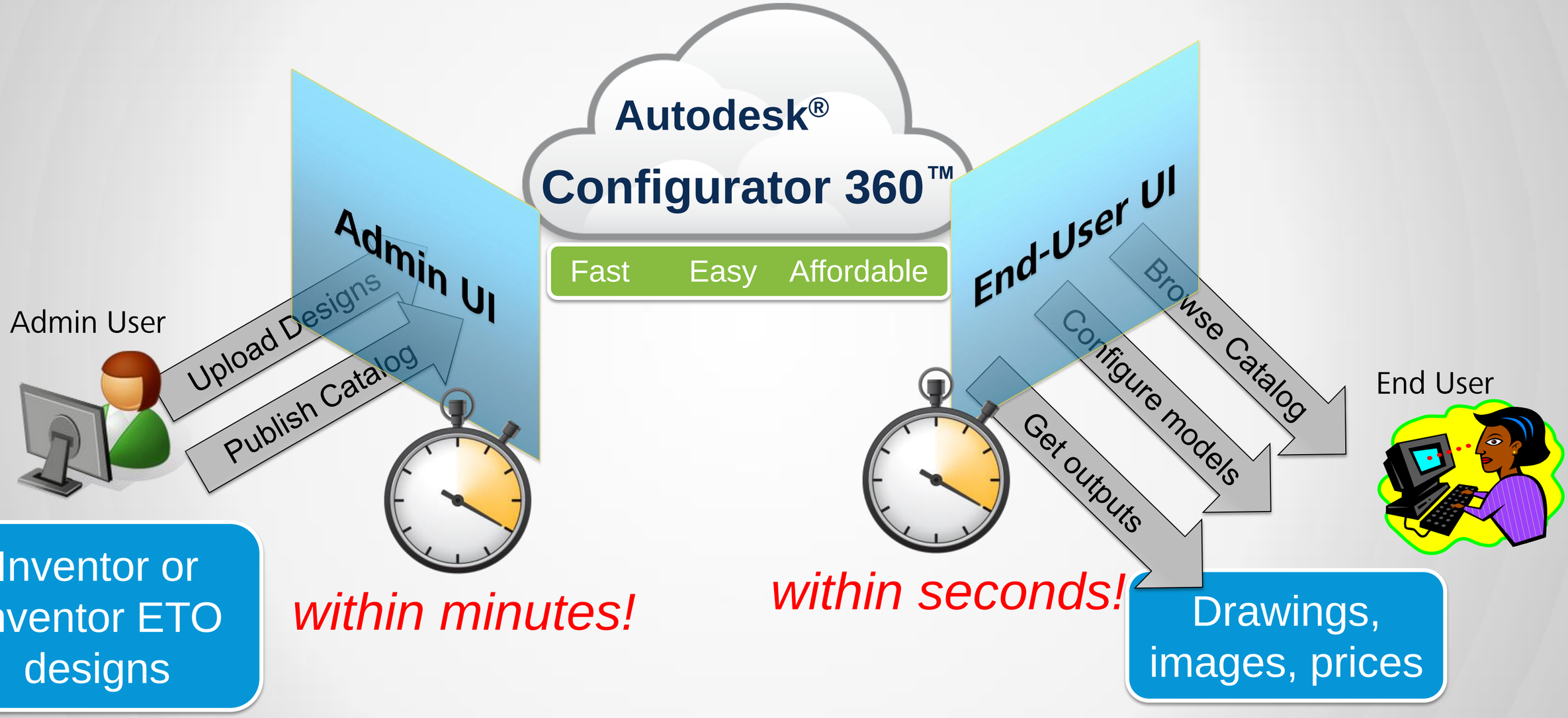
Trials

- 90-day free trial
- Visit either of these links to get started
  - http://www.autodesk.com/products/autodesk-configurator-360/overview
  - **https://configurator360.autodesk.com/**
- Zero download, zero install. Just upload Inventor files.



Configurator 360
Publishing a Simple IPT File

Two Personas



The "one-minute demo"

Live or canned?

Anatomy of Configurator 360

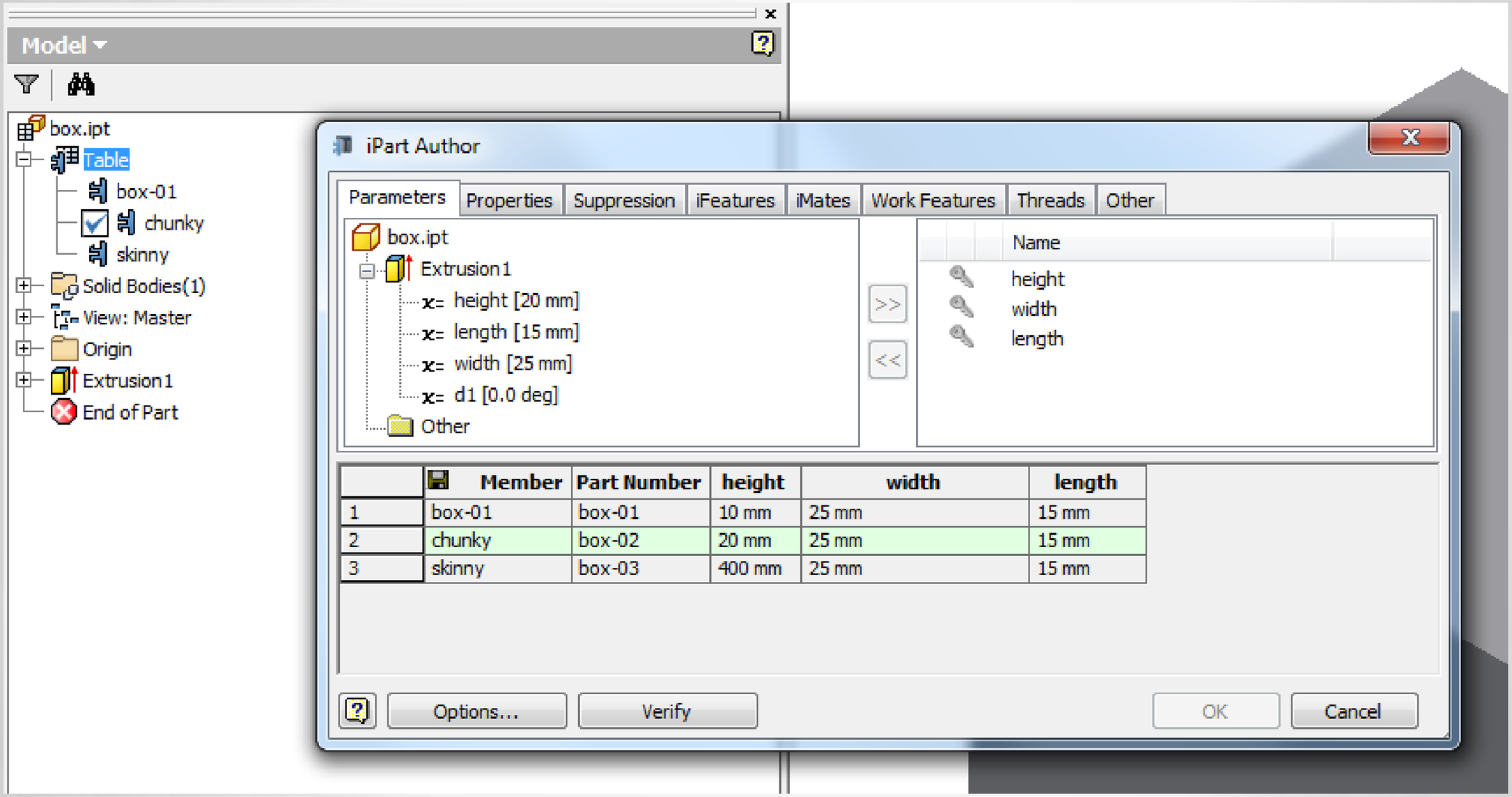
Live or canned?

iParts on Configurator 360
(and iAssemblies)

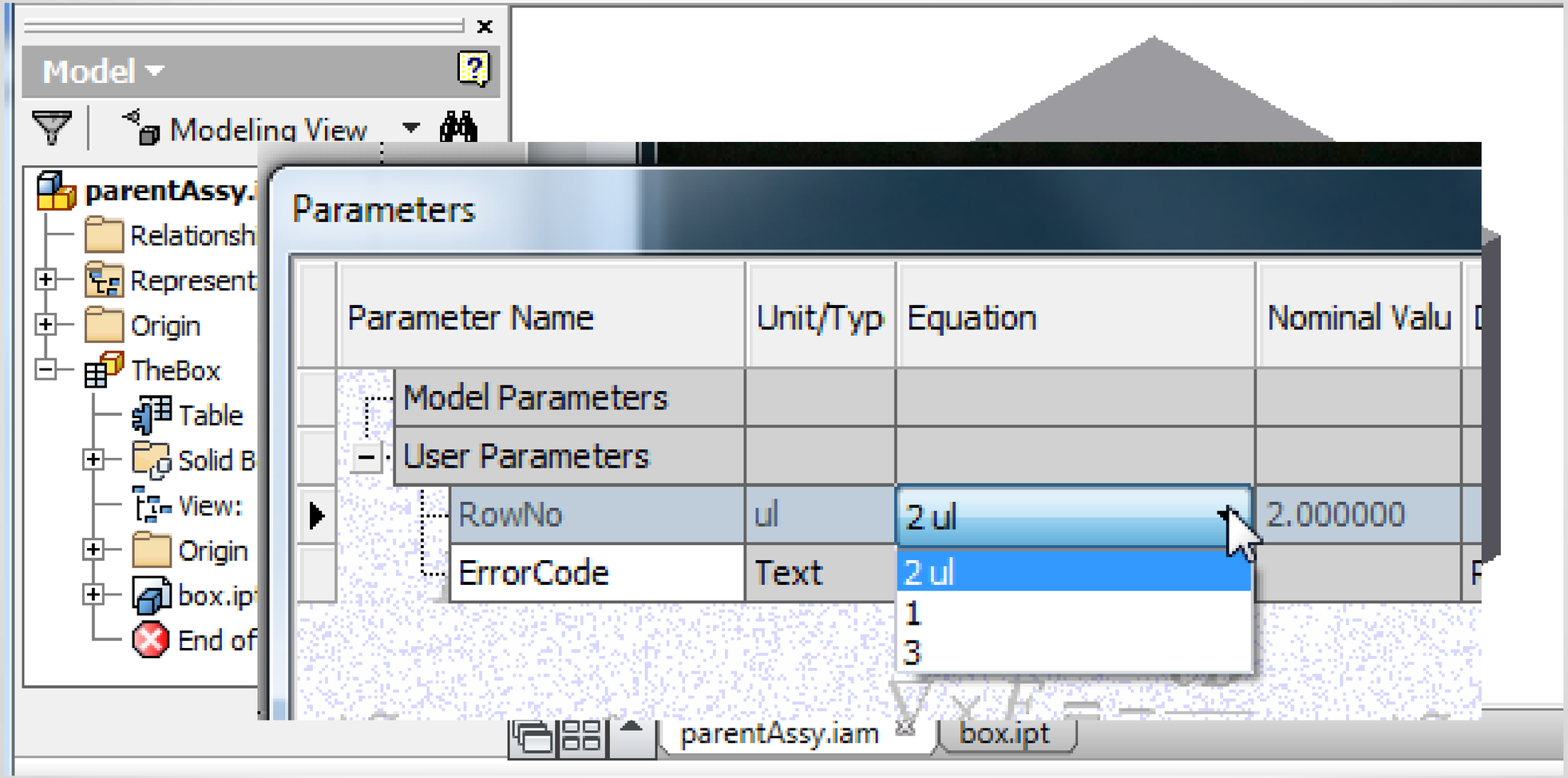
Typical iPart Characteristics
(and iAssemblies)

- Table-driven, no complex rules
- All configurations known in advance (typically)
- Must be wrapped in IAM

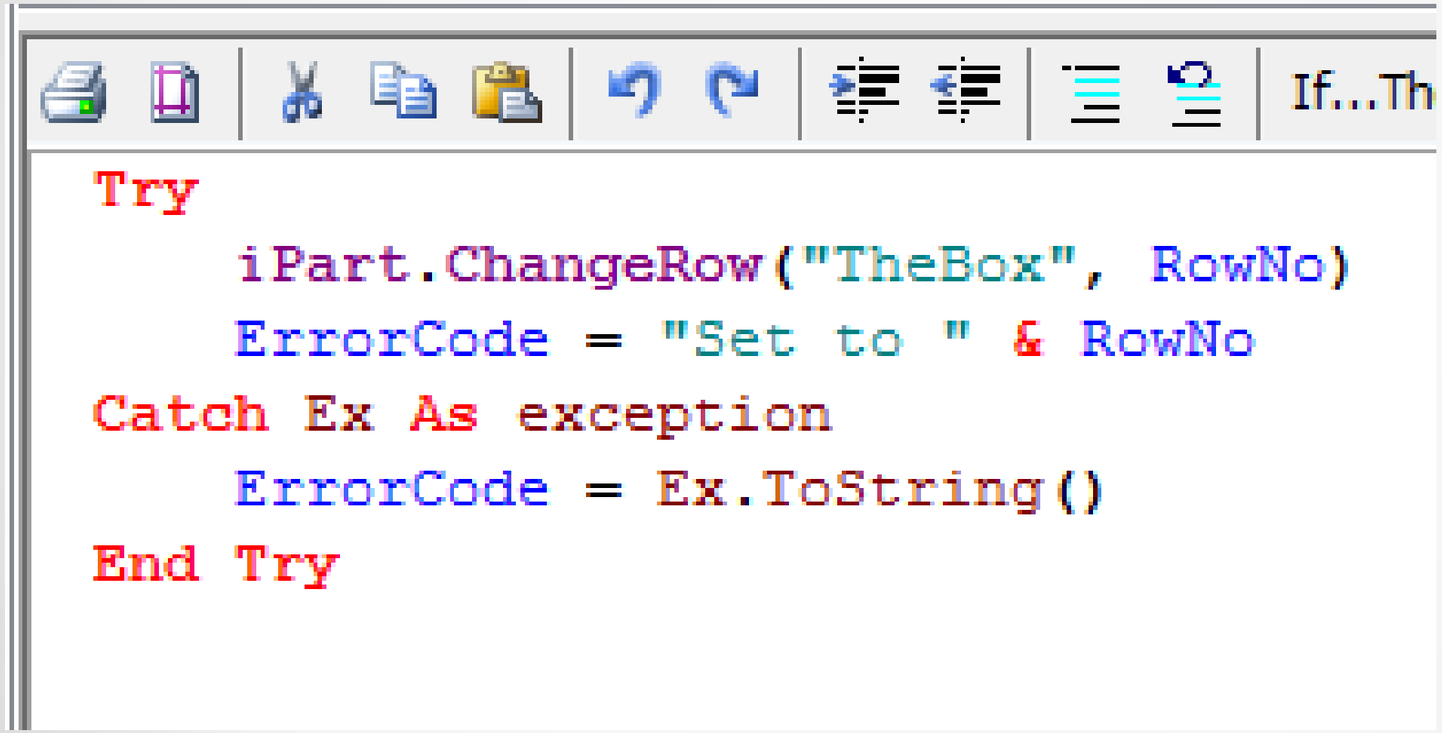
Simple iPart Factory



“Wrapper” Assembly



Simple iLogic “Driver” Rule



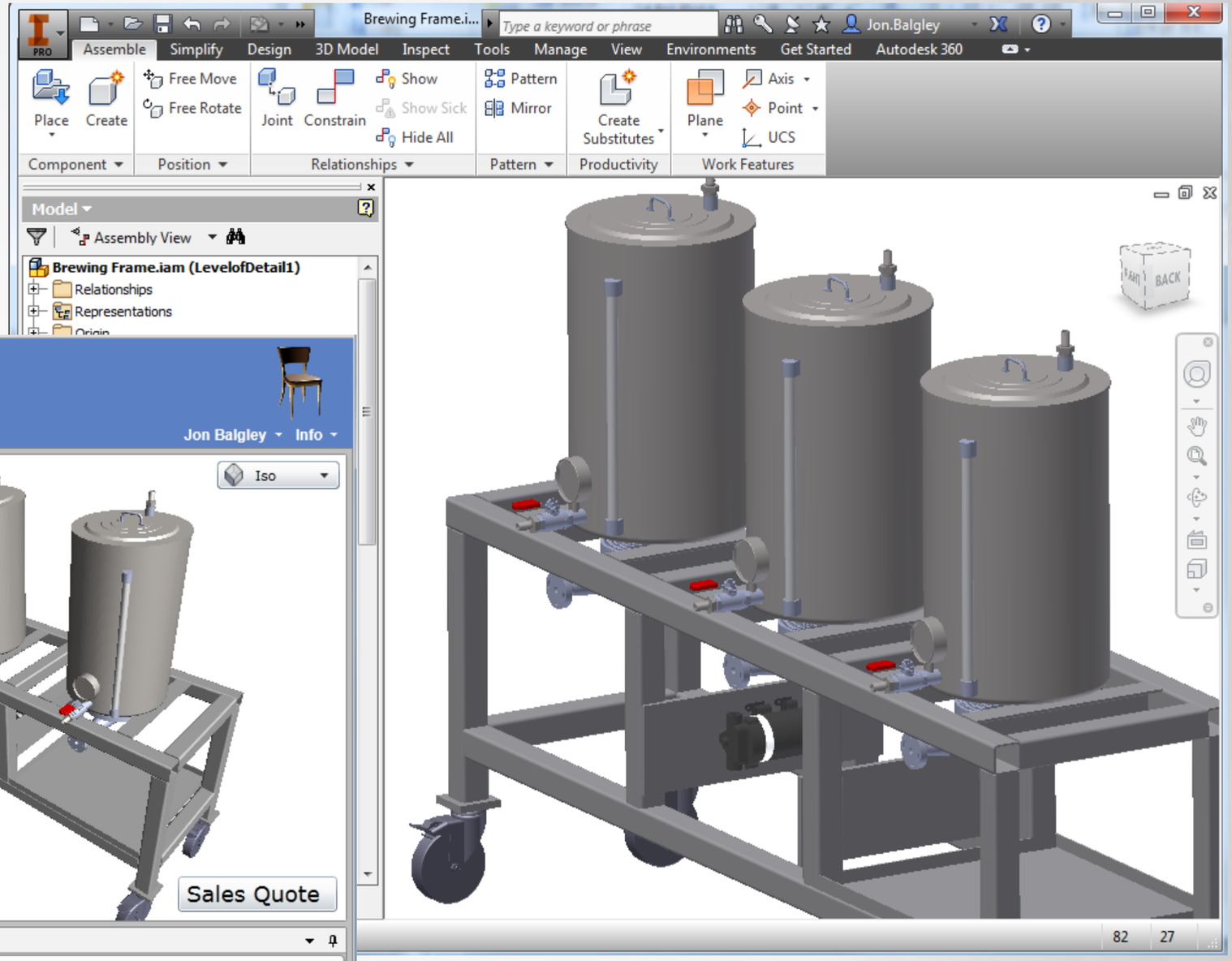
“Box” demo

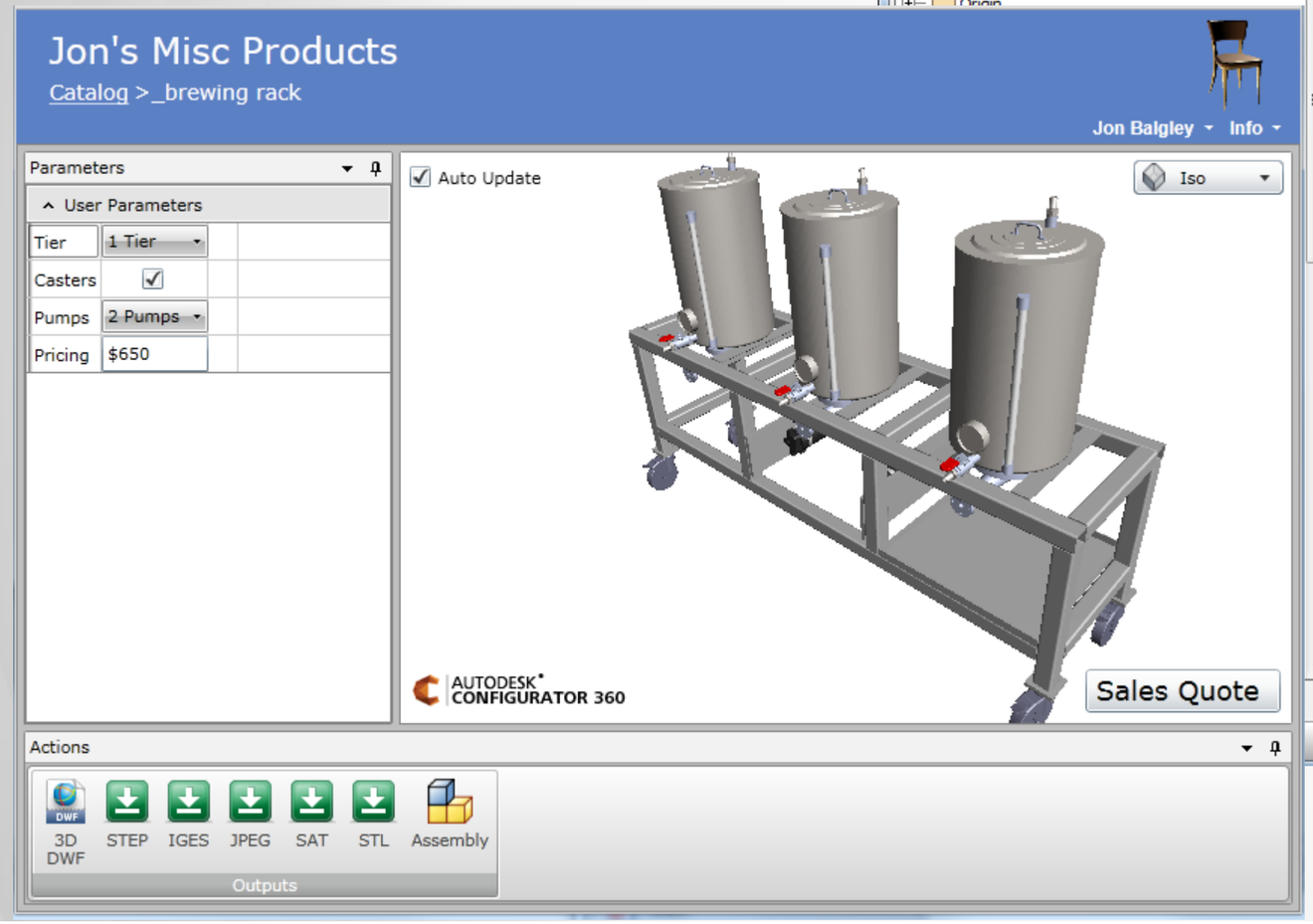
Using (More) iLogic

Typical iLogic Characteristics

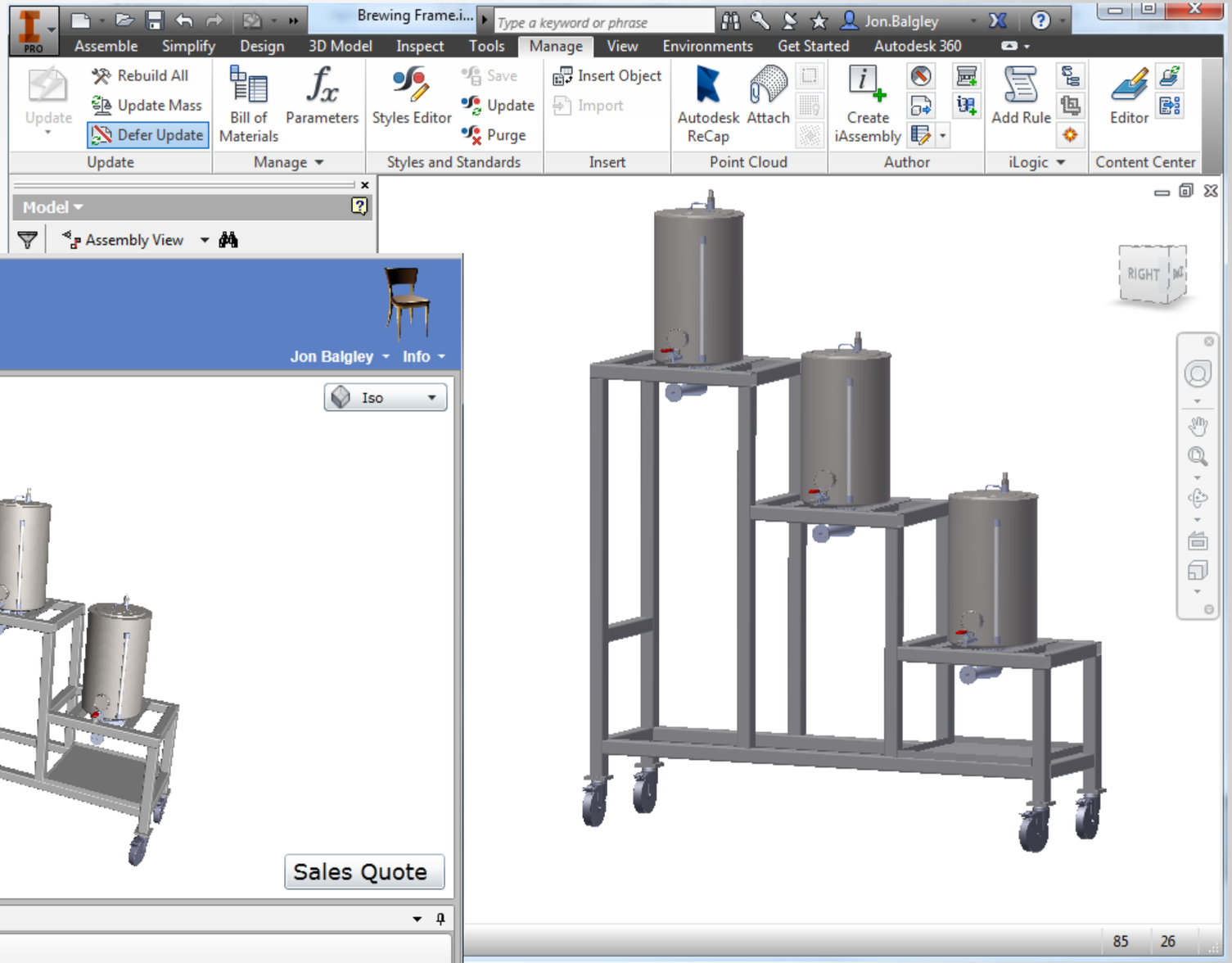
- Driving more things from parameters
- Higher-level parameters driving lower-level parameters
- Simple drawing automation
- Simple assembly variations

Brewing Rack

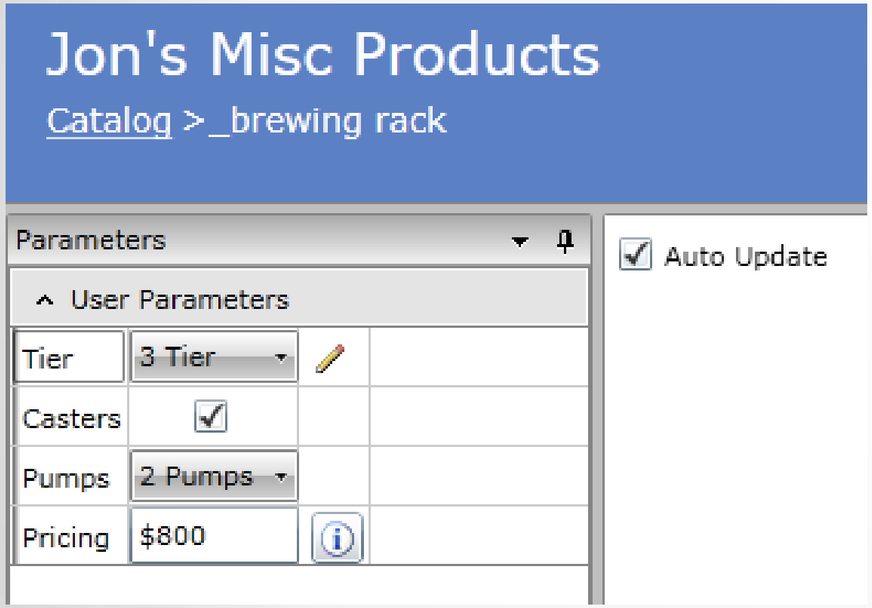


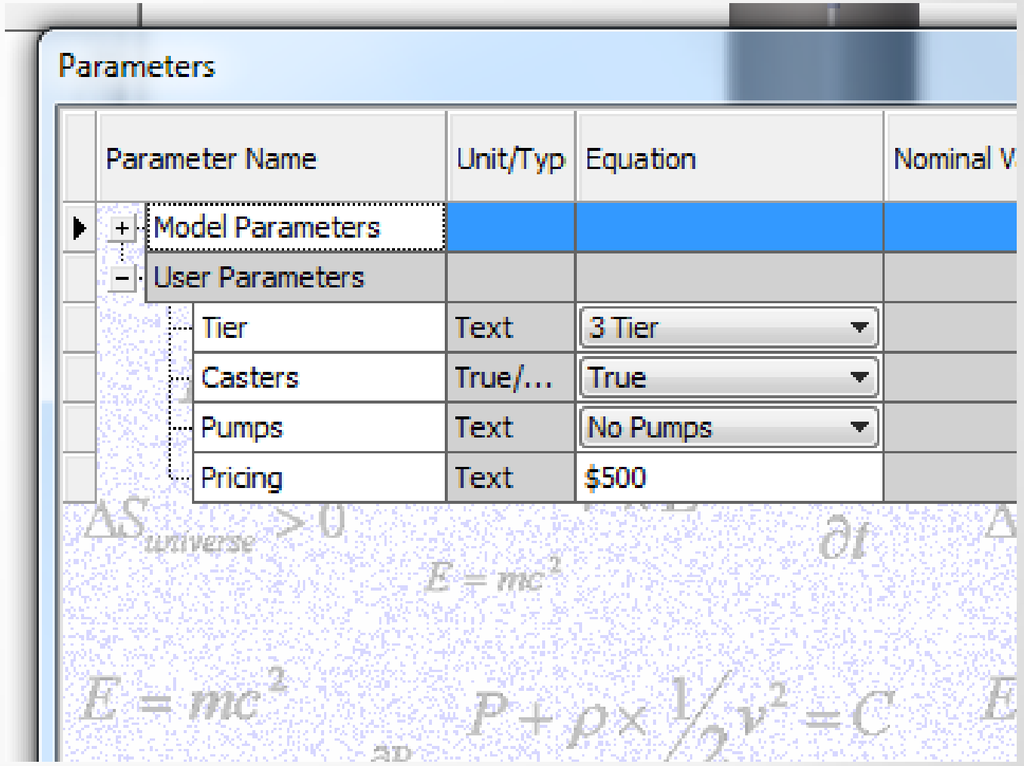


Brewing Rack



Brewing Rack





Brewing Rack Rules

Lower Tube Front - Back:1
Lower Tube Front - Back:2

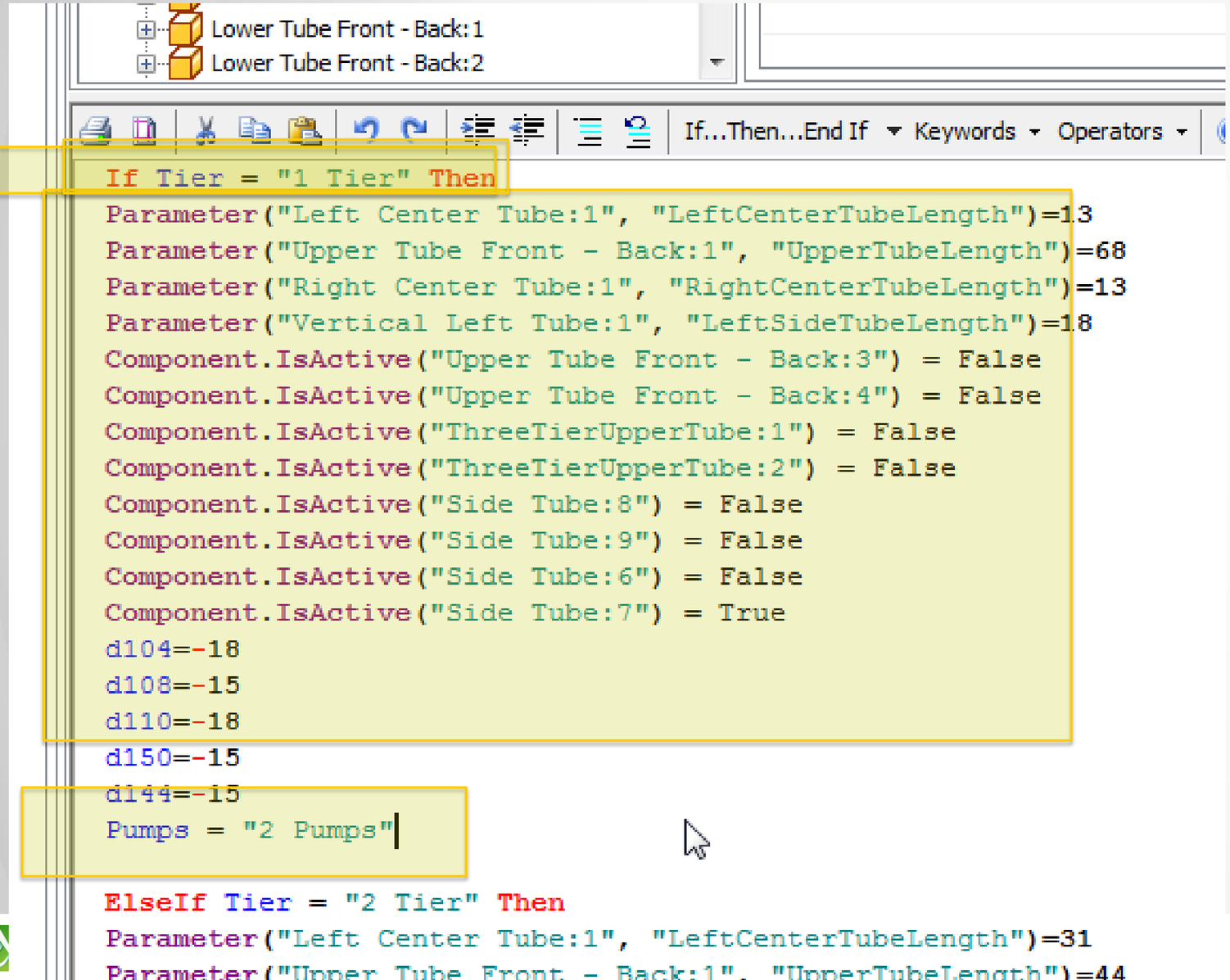
If...Then...End If ▾ Keywords ▾ Operators ▾

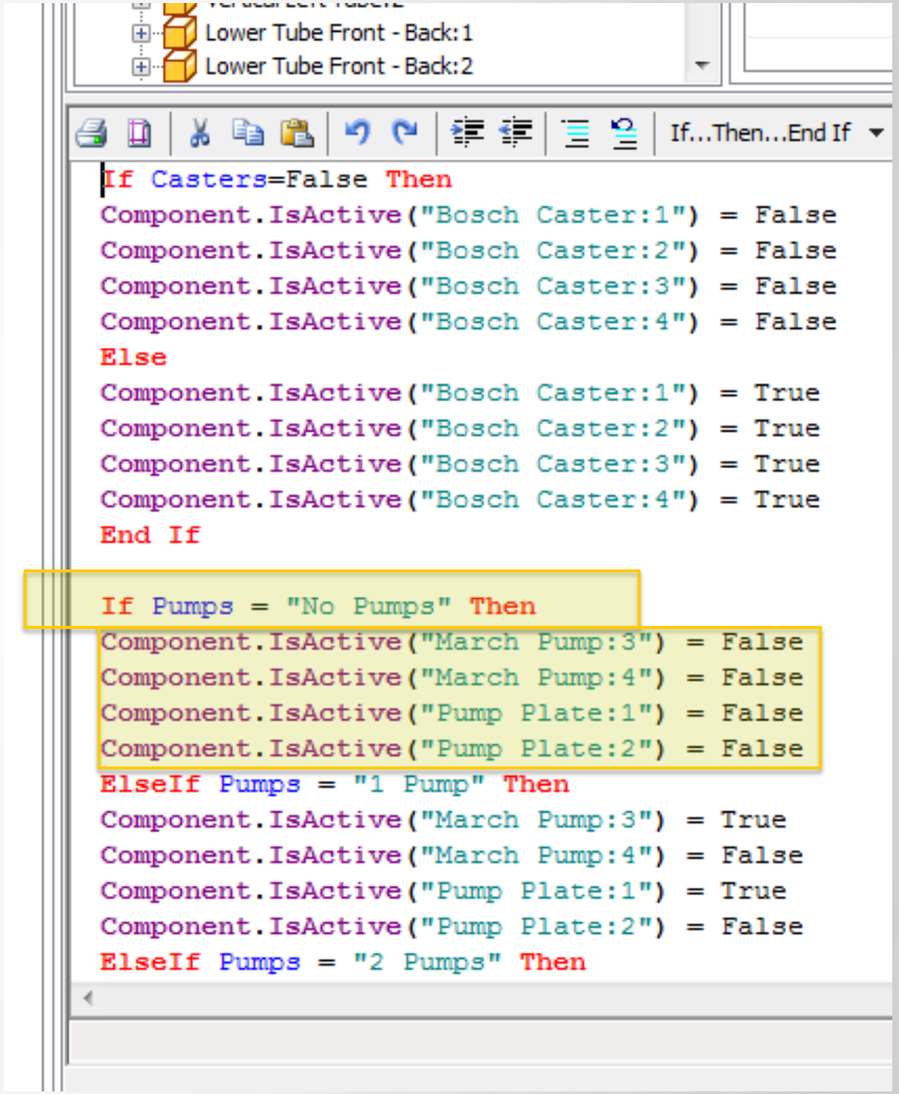
```
If Tier = "1 Tier" Then
Parameter("Left Center Tube:1", "LeftCenterTubeLength")=13
Parameter("Upper Tube Front - Back:1", "UpperTubeLength")=68
Parameter("Right Center Tube:1", "RightCenterTubeLength")=13
Parameter("Vertical Left Tube:1", "LeftSideTubeLength")=18
Component.IsActive("Upper Tube Front - Back:3") = False
Component.IsActive("Upper Tube Front - Back:4") = False
Component.IsActive("ThreeTierUpperTube:1") = False
Component.IsActive("ThreeTierUpperTube:2") = False
Component.IsActive("Side Tube:8") = False
Component.IsActive("Side Tube:9") = False
Component.IsActive("Side Tube:6") = False
Component.IsActive("Side Tube:7") = True
d104=-18
d108=-15
d110=-18
d150=-15
d144=-15
Pumps = "2 Pumps"

ElseIf Tier = "2 Tier" Then
Parameter("Left Center Tube:1", "LeftCenterTubeLength")=31
Parameter("Upper Tube Front - Back:1", "UpperTubeLength")=44
```

Lower Tube Front - Back:1
Lower Tube Front - Back:2

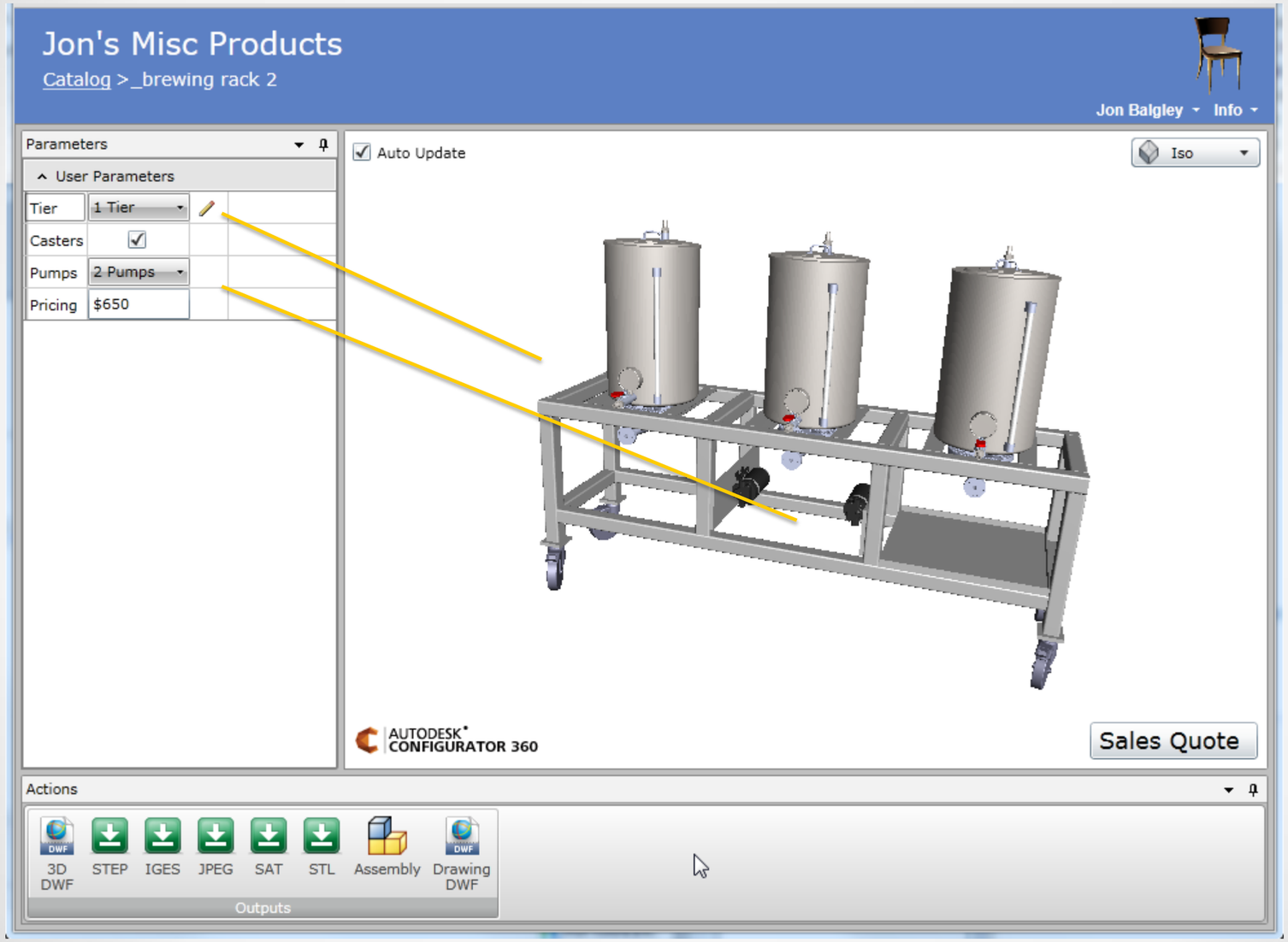
If...Then...End If

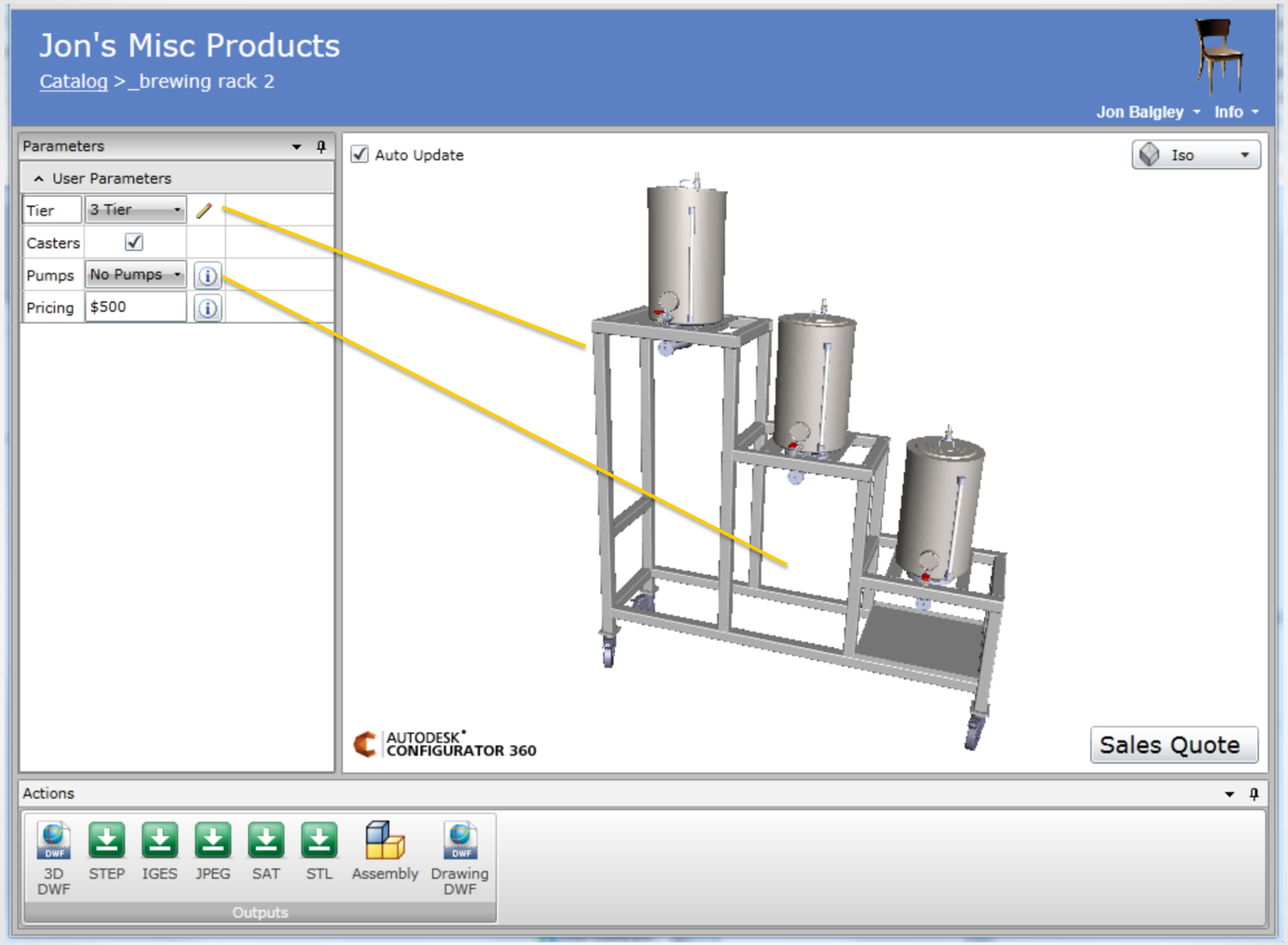




```
If Casters=False Then
Component.IsActive("Bosch Caster:1") = False
Component.IsActive("Bosch Caster:2") = False
Component.IsActive("Bosch Caster:3") = False
Component.IsActive("Bosch Caster:4") = False
Else
Component.IsActive("Bosch Caster:1") = True
Component.IsActive("Bosch Caster:2") = True
Component.IsActive("Bosch Caster:3") = True
Component.IsActive("Bosch Caster:4") = True
End If

If Pumps = "No Pumps" Then
Component.IsActive("March Pump:3") = False
Component.IsActive("March Pump:4") = False
Component.IsActive("Pump Plate:1") = False
Component.IsActive("Pump Plate:2") = False
ElseIf Pumps = "1 Pump" Then
Component.IsActive("March Pump:3") = True
Component.IsActive("March Pump:4") = False
Component.IsActive("Pump Plate:1") = True
Component.IsActive("Pump Plate:2") = False
ElseIf Pumps = "2 Pumps" Then
```


Jon's Misc Products
Catalog >_brewing rack 2
Jon Balgley
Info
Parameters
User Parameters
Tier
1 Tier
Casters
Pumps
2 Pumps
Pricing
$650
Auto Update
Iso
AUTODESK CONFIGURATOR 360
Sales Quote
Actions
3D DWF
STEP
IGES
JPEG
SAT
STL
Assembly
Drawing DWF
Outputs


Jon's Misc Products
Catalog > _brewing rack 2
Jon Balgley
Info
Parameters
User Parameters
Tier
3 Tier
Casters
Pumps
No Pumps
Pricing
$500
Auto Update
Iso
AUTODESK CONFIGURATOR 360
Sales Quote
Actions
3D DWF
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JPEG
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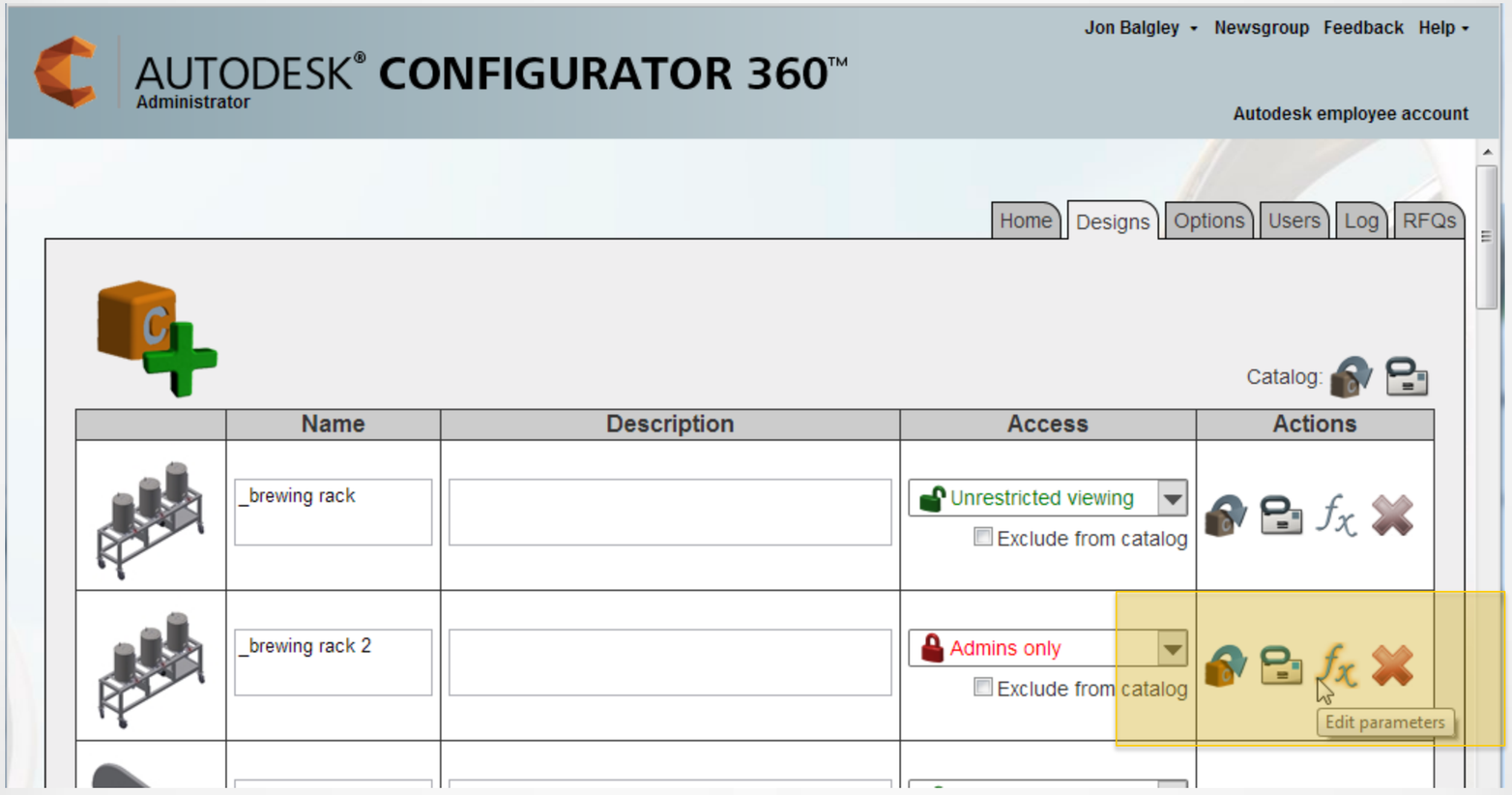
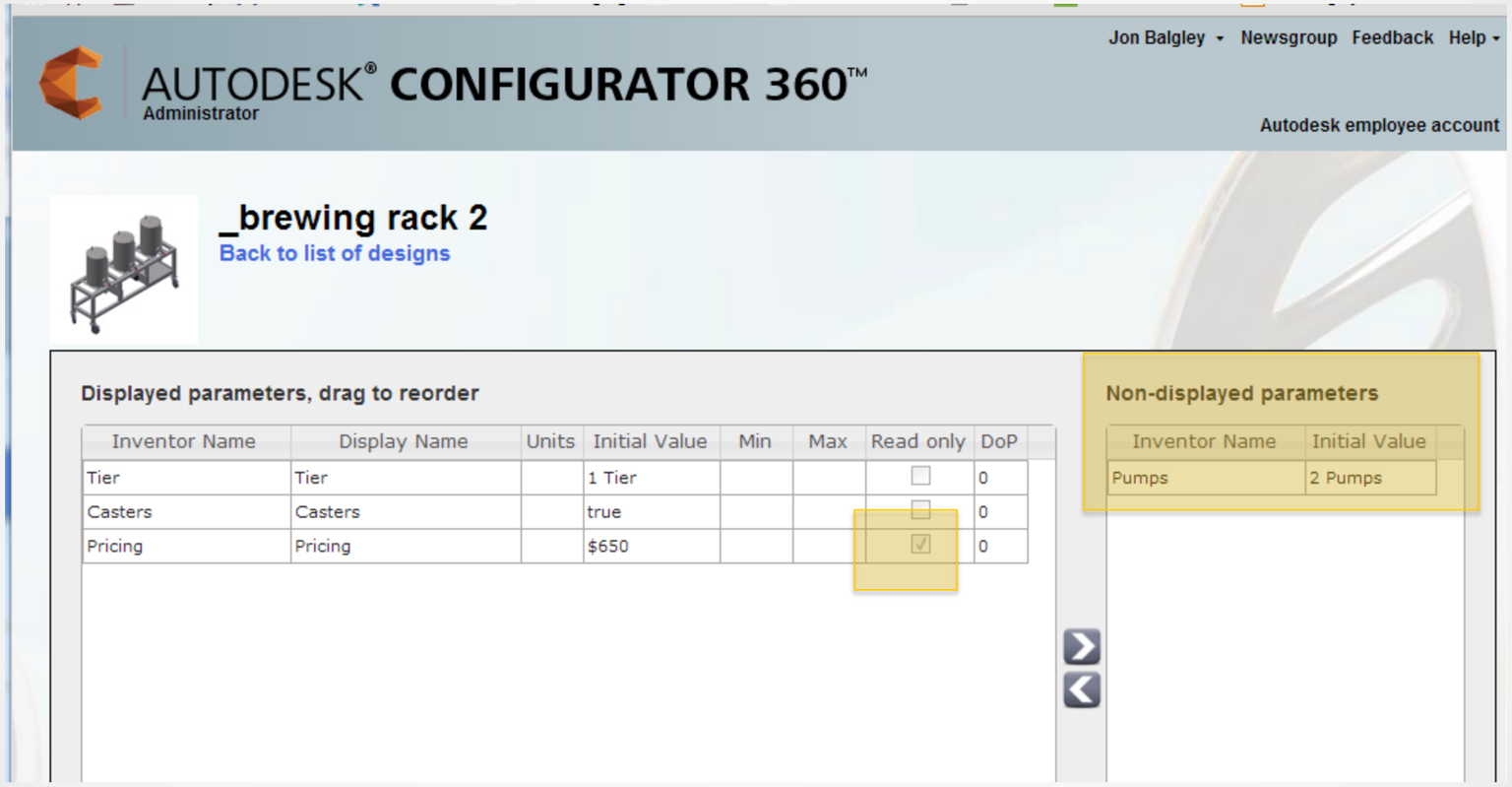
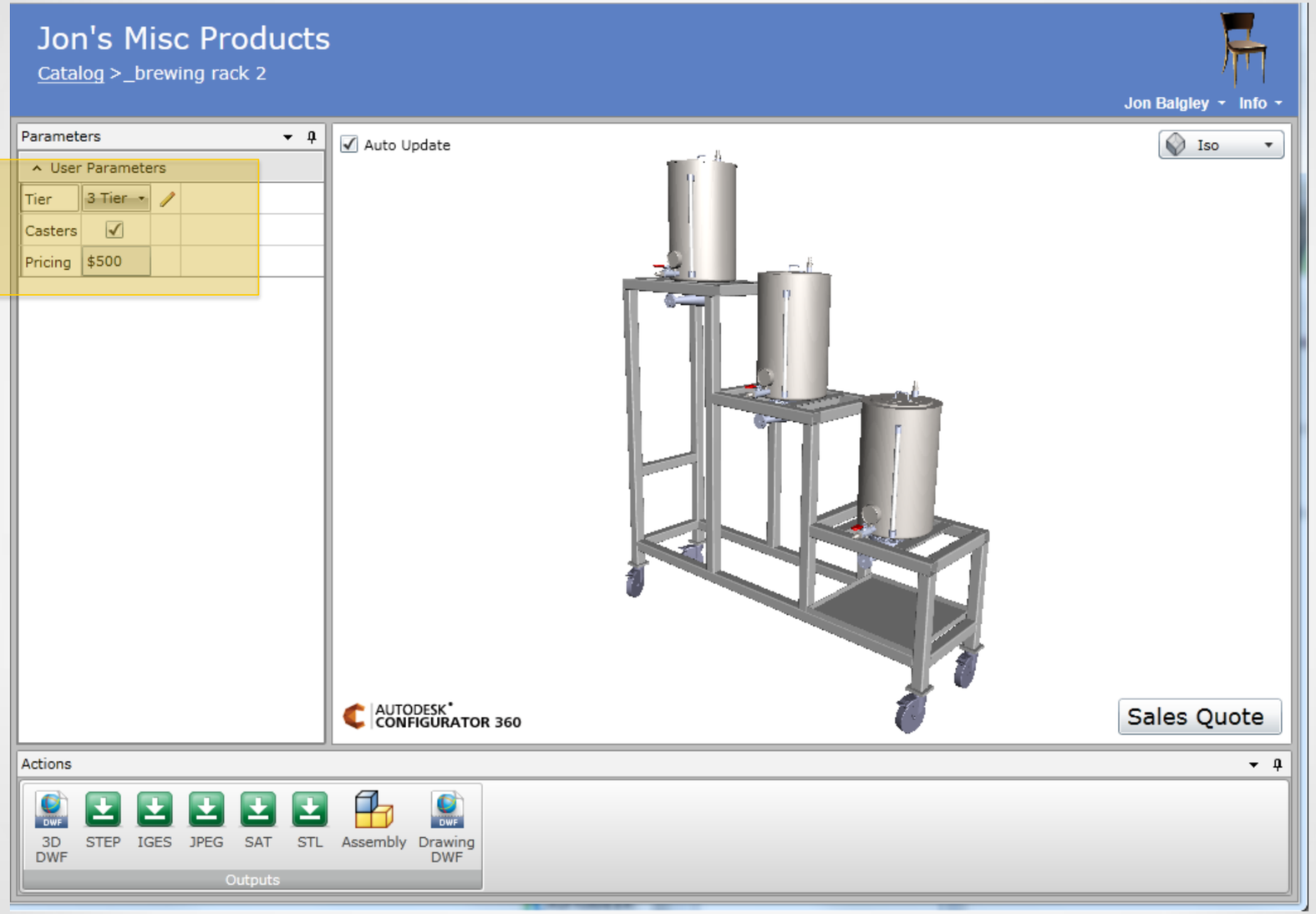
Assembly
Drawing DWF
Outputs


AUTODESK® CONFIGURATOR 360™
Administrator
Jon Balgley
Newsgroup
Feedback
Help
Autodesk employee account
Home
Designs
Options
Users
Log
RFQs
Catalog:
Name
Description
Access
Actions
_brewing rack
Unrestricted viewing
Exclude from catalog
_brewing rack 2
Admins only
Exclude from catalog
Edit parameters


AUTODESK® CONFIGURATOR 360™
Administrator
Jon Balgley
Newsgroup
Feedback
Help
Autodesk employee account
_brewing rack 2
Back to list of designs
Displayed parameters, drag to reorder
Inventor Name
Display Name
Units
Initial Value
Min
Max
Read only
DoP
Tier
Tier
1 Tier
0
Casters
Casters
true
0
Pricing
Pricing
$650
0
Non-displayed parameters
Inventor Name
Initial Value
Pumps
2 Pumps


Jon's Misc Products
Catalog > _brewing rack 2
Jon Balgley
Info
Parameters
User Parameters
Tier
3 Tier
Casters
Pricing
$500
Auto Update
Iso
AUTODESK CONFIGURATOR 360
Sales Quote
Actions
3D DWF
STEP
IGES
JPEG
SAT
STL
Assembly
Drawing DWF
Outputs

Playground Structure

- Many parameters and components changed
- Uses a few iParts
- Borderline ETO candidate

Bad Models for Configurator 360

- Too much detail
- Too many components
- Modeling errors

- Restricted features
  - Message Boxes, etc
  - Addins
  - Pathnames
  - Etc

Using Inventor ETO

Characteristics of ETO

- ETO is a separate product
- ETO is for larger-scale and/or more complex automation,
- “Creating new content” (on the fly)
- Proposal documents
- Complex/dynamic drawings
- ETO rules are easier to maintain than iLogic rules
- ETO designs manage Configurator 360 UI
  - Parameters
  - Model pane
  - Error/warning/info messages

Overhead Crane

- Relatively simple model for ETO (borderline iLogic-friendly)
  - [This is a simplified “demo” model – real model would be much more complex … and appropriate]
- Many more components and relationships compared to brewing frame

Walkway Roof

- Lots of dynamically-created parts
- Many more components and relationships compared to brewing frame and crane

Configurator 360: Summary

- Deploy configurable models
  - On the web
  - On iPad
- Deployment is absurdly easy
- 4 configuration technologies (parameters, iParts/iAssy, iLogic, ETO)

configurator360.autodesk.com

Or: **absurdlyeasy.com** !!!

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