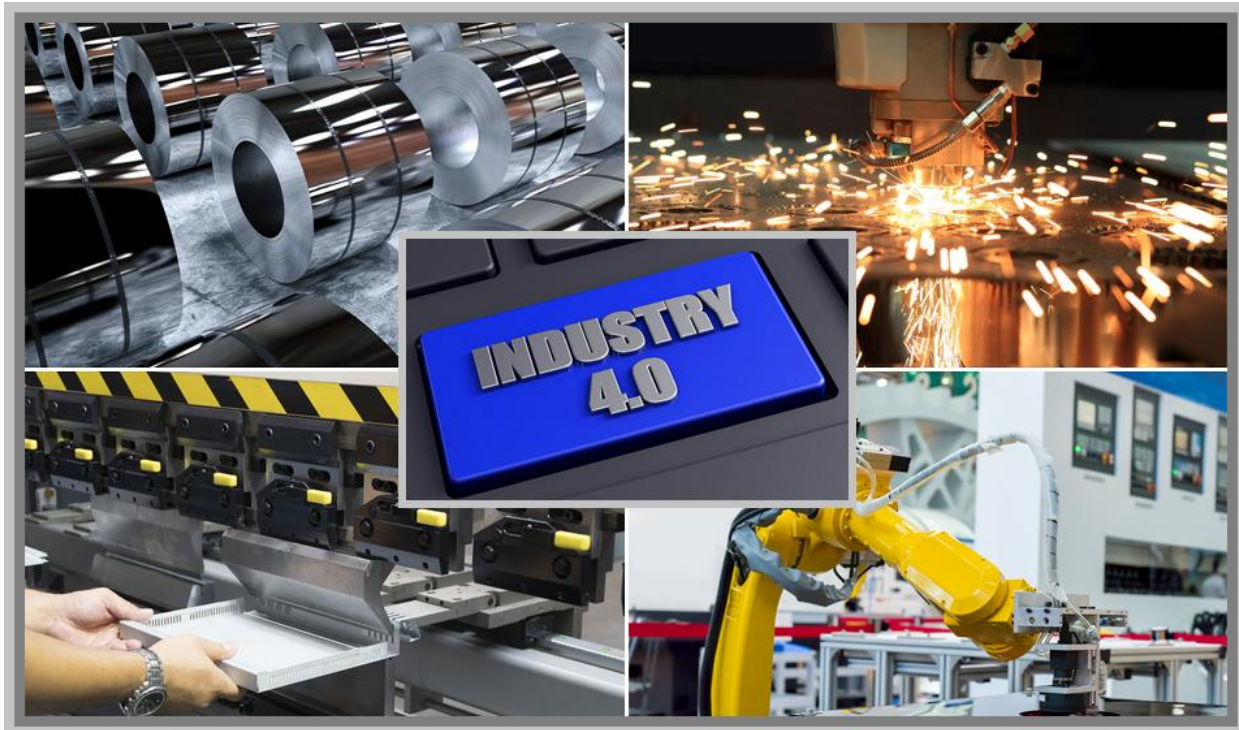




Global Edge® Engineering Assistant



Workflow #: 6 – Product Configuration **(Configure Cabinet, Process & Test)**

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Demo Section 6: Configuration Workflow

Global Edge Engineering Assistant provides Configuration Workflow capabilities that includes **"Configure Cabinet, Process and Test"** to illustrate the configuration of a sheet metal cabinet assembly driving the resizing, renumbering, and testing of each configured component.

- **6.1 – Automated Product Configuration**
- **6.2 – Automated Part / Assembly Resizing**

Configuration Workflow illustrates **"Automated Product Configuration"** capabilities including the automated renumbering and resizing of 3D CAD model files.

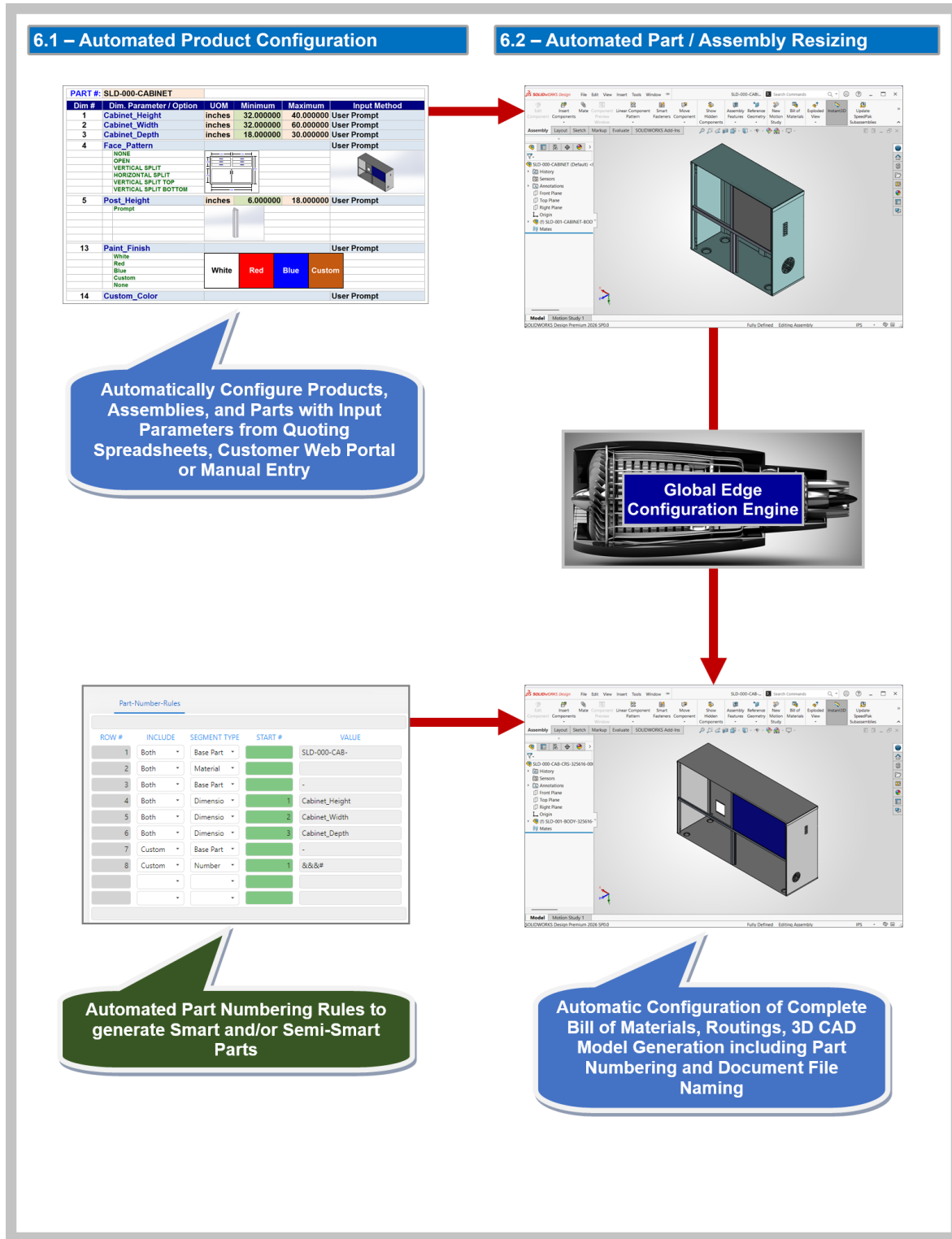
Step 6.1: Includes **"Automated Product Configuration"** with innovative **"Plug & Play"** capabilities that automate the manual configuration and renumbering of configurable SolidWorks parts and assemblies.

Step 6.2: Includes the illustration of **"Automated Part / Assembly Resizing"** of SolidWorks CAD models.

Workflow #: 6	SLD-000-CABINET		SLD-000-CABINET.sldasm	P	
Workflow #: 6	SLD-001-CABINET-BODY		SLD-001-CABINET-BODY.sldasm	A	
Workflow #: 6	SLD-002-CABINET-BODY-WRAP	Thickness: 0.04800 - Bend Radius: 0.050	SLD-002-CABINET-BODY-WRAP.sldprt	C	CRS
Workflow #: 6	SLD-003-CABINET-BOTTOM	Thickness: 0.04800 - Bend Radius: 0.050	SLD-003-CABINET-BOTTOM.sldprt	C	CRS
Workflow #: 6	SLD-004-CABINET-TOP	Thickness: 0.04800 - Bend Radius: 0.050	SLD-004-CABINET-TOP.sldprt	C	CRS
Workflow #: 6	SLD-005-CAB-FILL-OP			O	
Workflow #: 6	SLD-015-FILL-PANEL	Thickness: 0.04800 - Bend Radius: 0.050	SLD-015-FILL-PANEL.sldprt	C	CRS
Workflow #: 6	SLD-016-HORZ-DIVIDER		SLD-016-HORZ-DIVIDER.sldprt	C	5052-H32
Workflow #: 6	SLD-017-SPINE-CENTER	Thickness: 0.04800 - Bend Radius: 0.050	SLD-017-SPINE-CENTER.sldprt	C	CRS
Workflow #: 6	SLD-018-SPINE-CORNER-LT	Thickness: 0.04800 - Bend Radius: 0.050	SLD-018-SPINE-CORNER-LT.sldprt	C	CRS
Workflow #: 6	SLD-019-SPINE-CORNER-RT	Thickness: 0.04800 - Bend Radius: 0.050	SLD-019-SPINE-CORNER-RT.sldprt	C	CRS
Workflow #: 6	SLD-020-VERT-DIVIDER-BOT		SLD-020-VERT-DIVIDER-BOT.sldprt	C	5052-H32
Workflow #: 6	SLD-021-VERT-DIVIDER-TOP		SLD-021-VERT-DIVIDER-TOP.sldprt	C	5052-H32
Workflow #: 6	SLD-022-SHELF		SLD-022-SHELF.sldprt	C	CRS
Workflow #: 6	SLD-023-BACK		SLD-023-BACK.sldprt	C	CRS
Workflow #: 6	SLD-042-PAINT-OPT			O	
Workflow #: 6	SLD-046-STOCK-OPT			O	

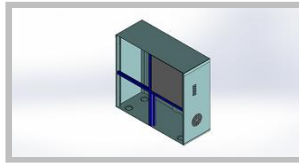
Workflow #: 6 - Configure Cabinet, Process & Test (Configuration Workflow Diagram)

This workflow scenario includes the configuration of a sheet metal cabinet assembly driving the resizing, renumbering, and testing of each configured component.

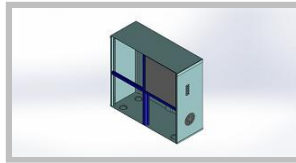


Template CAD Drawings

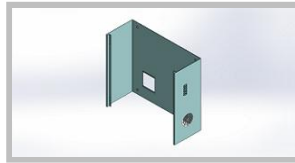
The following are the BOM and CAD part numbers for the Utility Cabinet:



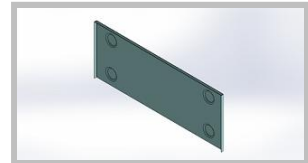
SLD-000-CABINET
UTILITY CABINET



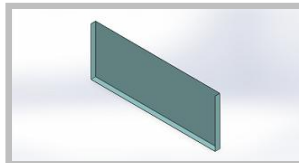
SLD-001-CABINET-BODY
CABINET BODY



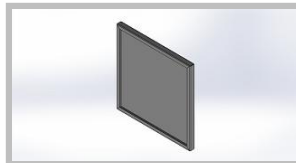
SLD-002-CABINET-BODY-WRAP
CABINET BODY WRAP



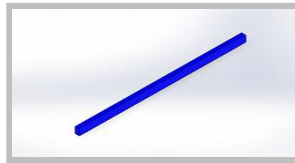
SLD-003-CABINET-BOTTOM
CABINET BODY WRAP



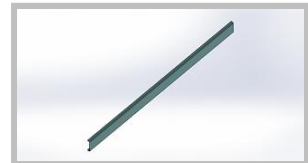
SLD-004-CABINET-TOP
CABINET BODY TOP



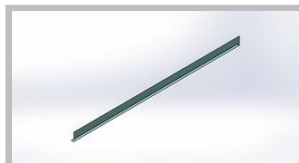
SLD-015-FILL-PANEL
CABINET FILL PANEL



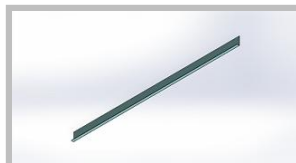
SLD-016-HORZ-DIVIDER
CABINET HORIZONTAL DIVIDER



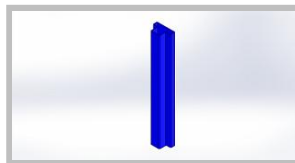
SLD-017-SPINE-CENTER
CABINET SPINE - CENTER



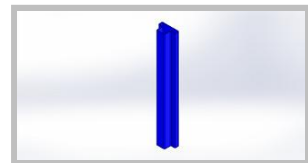
SLD-018-SPINE-CORNER-LT
CABINET SPINE - CORNER - LEFT



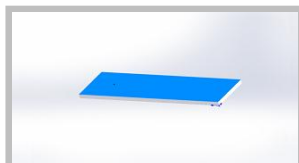
SLD-019-SPINE-CORNER-RT
CABINET SPINE - CORNER - RIGHT



SLD-020-VERT-DIVIDER-BOT
CABINET VERTICAL DIVIDER - BOTTOM



SLD-021-VERT-DIVIDER-TOP
CABINET VERTICAL DIVIDER - TOP



SLD-022-SHELF
SHELF



SLD-023-BACK
REMOVABLE BACK

6.1 – Automated Product Configuration

These steps illustrate bill of materials management and product configuration.

Workflow Steps

GE-06.1-Avatar-A.mp4

Select the **“Engineering”** option on the **Global Edge** main menu followed by selecting the **“BOM / Product Configuration”** option on the Engineering Management menu.

1. Select the **“Engineering”** option on the **Global Edge** main menu:



2. Select the **“BOM / Product Configuration”** option on the Engineering Management menu:

The screenshot displays the 'BILL OF MATERIALS: Global Edge Windows Demo Server' application. The main window is titled 'Part-Master' and contains a form for entering part information. The form is organized into several sections:

- Part Identification:** Fields for PART #, REV #, TYPE, PART UOM, LIST, ALIAS OF, ORIGIN, and MFR. PART # is highlighted in green.
- Category and Material:** Fields for CATEGORY, STYLE, MATERIAL, and MFR. PART #.
- Costs:** Fields for PROCESS COST, COMPONENT COST, MFR. SET-UP COST, ONE TIME CHARGE, STANDARD PART COST, QUOTE PART COST, ROLL-UP COST, and ROLL-UP DATE. PROCESS COST, COMPONENT COST, and QUOTE PART COST are highlighted in green.
- Other Fields:** SERIAL, STATUS, SHIP WEIGHT, REBUILT, PART ADDED, TRANSFER, and MODIFIED.

A sidebar menu on the right side of the window lists various options: PART, Add, Find, Next, Previous, Goto, Update, BOM, WhereUsed, reVisions, Mfr-Test, document, Configurator, workQueue, Options, Long, RollUp, category, print, Delete, and QUIT. The 'BOM' option is highlighted in blue.

GE-06.1-Avatar-B.mp4

Select the **“Find > Part”** option and retrieve part number **“SLD-000-CABINET”**, which will display the following part menu options.

3. Select the **“Find > Part”** option and retrieve **PART #: “SLD-000-CABINET”** which will display the following part menu options:

The screenshot shows the 'Part-Master' form in the 'BILL OF MATERIALS: Global Edge Windows Demo Server' application. The form displays details for the part 'SLD-000-CABINET', which is a 'UTILITY CABINET'. Key fields include: PART #: SLD-000-CABINET, REV #: (blank), TYPE: Product, MST: Yes, PART UOM: EA, LIST: \$0.00, ALIAS OF: (blank), ORIGIN: Manufactured, MFR. PART #: (blank), MFR: LDC Manufacturing, CATEGORY: CAB, CUBINET, STYLE: UTL, UTILITY, MATERIAL: (blank), SERIAL: None, STATUS: Active, SHIP WEIGHT: 0.0 lbs, REBUILT: No, PART ADDED: 03/01/2026, TRANSFER: Hold, MODIFIED: 03/01/2026, COST QTY: 1.0000, STANDARD PART COST: \$0.0000, QUOTE PART COST: \$0.0000, ROLL-UP COST: \$0.0000, ROLL-UP DATE: (blank), PROCESS COST: \$0.0000, MFR. SET-UP COST: \$35.25, COMPONENT COST: \$0.0000, ONE TIME CHARGE: \$0.00, and CAD PART FILE NAME: SLD-000-CABINET.aldasm. A 3D model of the cabinet is shown at the bottom left. A sidebar on the right contains a 'PART' menu with options: Add, Find, Next, Previous, Goto, Update, BOM, WhereUsed, reVisions, Mfr-Test, document, Configurator, workQueue, Options, Long, RollUp, category, print, Delete, and QUIT.

GE-06.1-Avatar-C.mp4

The part that was retrieved is referred to as a Master Configuration Part Number or could be referred to as a template part number. For this Master Configuration Part Number, configuration rules were defined for each of the configurable parts in the CAD model assembly. This also includes the definition of part numbering rules that are applied to each configured part including each assembly part number. In our demonstration illustration, we will have manual user input of the cabinet parameters such as height, width and depth of the cabinet.

The **Global Edge** Configuration Engine can automatically input parameter values from either an existing sales configurator, quoting spreadsheet, or a customer web portal. In such a scenario, the **Global Edge** Configuration Engine can run in the background without human intervention.

GE-06.1-Avatar-D.mp4

To start execution of the Configurator, select the **“Configurator > Run”** option followed by the **“New > No”** option to display the following screen form.

4. Select **“Configurator > Run”** option followed by the **“New > No”** option to display the following screen form:

The screenshot shows a web-based application window titled "BILL OF MATERIALS: Global Edge Windows Demo Server". The interface includes a sidebar menu on the left with "MAIN MENU" and "Bill of Materials". The main content area is titled "Part-Number" and contains a form for "Update New Part Description". The form fields are as follows:

- PART #: TEMP-LDC-000001
- REV #: [empty]
- TYPE: Product (dropdown menu)
- STATUS: Active (dropdown menu)
- CATEGORY: [empty]
- STYLE: [empty]
- MATERIAL: [empty]
- Serial #: 2027

At the bottom left of the form area, there is a "COPY" button. On the right side of the form, there are "OK" and "Cancel" buttons.

Configurator Prompts

The following are the 14 dimensions / parameters that were defined for the SolidWorks Utility Cabinet and will appear as the configurator executes for user input:

- **DIM. #1: Cabinet_Height** TYPE: Number UOM: inches Min: 32.000 Max: 40.000 Interval: 0.001
- **DIM. #2: Cabinet_Width** TYPE: Number UOM: inches Min: 32.000 Max: 60.000 Interval: 0.001
- **DIM. #3: Cabinet_Depth** TYPE: Number UOM: inches Min: 18.000 Max: 30.000 Interval: 0.001
- **DIM. #4: Face_Pattern** TYPE: Character
 - Options
 - NONE
 - OPEN
 - VERTICAL SPLIT
 - HORIZONTAL SPLIT
 - VERTICAL SPLIT TOP
 - VERTICAL SPLIT BOTTOM
- **DIM. #5: Post_Height** TYPE: Number UOM: inches Min: 6.000 Max: 18.000 Interval: 0.001
- **DIM. #6: Bottom_Post_Height** TYPE: Number UOM: inches Min: 6.000 Max: 18.000 Interval: 0.001
- **DIM. #7: Fill_Panel?** TYPE: Character
 - Options
 - No
 - Yes
- **DIM. #8: Removable_Back?** TYPE: Character
 - Options
 - No
 - Yes
- **DIM. #9: Include_Shelf?** TYPE: Character
 - Options
 - No
 - Yes
- **DIM. #10: Include_Drawer?** TYPE: Character
 - Options
 - No
 - Yes
- **DIM. #11: Include_Door?** TYPE: Character
 - Options
 - No
 - Yes
- **DIM. #12: Material** TYPE: Character
 - Options
 - Carbon
 - 304 Stainless
 - 316 Stainless
- **DIM. #13: Material_Thickness** TYPE: Character
 - Options
 - 14 Gauge (0.074000)
 - 18 Gauge (0.048000)
 - 20 Gauge (0.036000)
- **DIM. #14: Paint_Finish** TYPE: Character
 - Options
 - White
 - Red
 - Blue
 - Custom
 - None

5. After selecting “OK”, select the “Yes” option to start the execution of the Configurator:

The screenshot shows the 'Configurator-Parameter-input' window in the Global Edge Windows Demo Server. The window has a sidebar on the left with 'MAIN MENU' and 'Bill of Materials'. The main area contains several input fields and a table. At the top, there are buttons for 'OK' and 'Cancel'. The input fields include 'Enter Dimension Value:', 'MASTER CONFIGURATION PART #:' (TEMP-LDC-000001), 'SUB-COMPONENT PART #:', 'PARAM #:' (1), 'PARAMETER:' (Cabinet_Height), 'UOM:' (Inches), 'ENTER PARAMETER NUMBER VALUE:', 'ENTER FEET/INCHES:' (0), 'INTERVAL:' (0.001000), 'MIN:' (32.0000), 'MAX:' (40.0000), 'ENTER PARAMETER TEXT VALUE:', and 'ENTER COMPONENT QUANTITY:'. Below these is a table with columns '#', 'Parameter Option', and 'Parameter Option Description'. At the bottom, there is a table with columns 'Param. #', 'Parameter', 'Parameter Value', and 'UOM'. The table contains one row with '1', 'Cabinet_Height', and 'Inches'. The bottom left corner shows 'CFG1'.

Param. #	Parameter	Parameter Value	UOM
1	Cabinet_Height		Inches

GE-06.1-Avatar-E.mp4

Select **“OK”**, then select **“Yes”** which will display the following screen form to begin the process of entering configuration parameters. Enter **“Cabinet Height”**, **“Cabinet Width”**, and **“Cabinet Depth”** within the allowable limits displayed to the right of each prompt.

6. Enter **“Cabinet_Height”**, **“Cabinet_Width”**, and **“Cabinet_Depth”** when prompted:

The screenshot shows the 'Configurator-Parameter-input' window. The top section contains fields for 'MASTER CONFIGURATION PART #' (TEMP-LDC-000001) and 'SUB-COMPONENT PART #' (UTILITY CABINET). Below this, the 'PARAMETER' section is active, showing 'Cabinet_Depth' with a value of 24. The 'ENTER PARAMETER NUMBER VALUE:' field is set to 24, and the 'ENTER FEET/INCHES:' field is set to 0. The 'ENTER PARAMETER TEXT VALUE:' field is empty. The 'ENTER COMPONENT QUANTITY:' field is set to 1. The 'UOM' is 'Inches'. The 'INTERVAL' is 0.001000. The 'MIN' is 18.000 and the 'MAX' is 30.000. Below the parameter input, there is a table for 'Parameter Option' and 'Parameter Option Description'. At the bottom, a table lists the parameters: 'Cabinet_Height' (36.000000), 'Cabinet_Width' (48.000000), and 'Cabinet_Depth' (24.000000), all with a UOM of 'Inches'.

Param. #	Parameter	Parameter Value	UOM
1	Cabinet_Height	36.000000	Inches
2	Cabinet_Width	48.000000	Inches
3	Cabinet_Depth	24.000000	Inches

GE-06.1-Avatar-F.mp4

The next Configurator Prompt is to select a **“Face Pattern”** which allows for the selection of various cabinet face patterns comprised of drawers, doors and fill panels. We will bypass these selections in our illustration and select **“None”**, which is followed by entering a **“Post Height”**.

7. Select **“Face_Pattern”** and select **“NONE”** when prompted:

Configurator-Parameter-input

Select Option for Face_Pattern:

MASTER CONFIGURATION PART #: TEMP-LDC-000001 UTILITY CABINET

SUB-COMPONENT PART #:

PARAM # 4 PARAMETER: Face_Pattern UOM: inches Enter Component Description:

ENTER PARAMETER NUMBER VALUE: INTERVAL: 0.001000 MIN: 18.000 MAX: 30.000

ENTER FEET/INCHES: 0 MIN. FEET/IN: MAX. FEET/IN:

ENTER PARAMETER TEXT VALUE:

ENTER COMPONENT QUANTITY: QTY. UOM:

#	Parameter Option	Parameter Option Description
1	NONE	
2	OPEN	
3	VERTICAL SPLIT	
4	HORIZONTAL SPLIT	
5	VERTICAL SPLIT TOP	

Param. #	Parameter	Parameter Value	UOM
1	Cabinet_Height	36.000000	inches
2	Cabinet_Width	48.000000	inches
3	Cabinet_Depth	28.000000	inches
4	Face_Pattern		

8. Enter a **“Post_Height”** of **“12”** when prompted:

Configurator-Parameter-input

Enter Dimension Value:

MASTER CONFIGURATION PART #: TEMP-LDC-000001 UTILITY CABINET

SUB-COMPONENT PART #:

PARAM # 5 PARAMETER: Post_Height UOM: inches

ENTER PARAMETER NUMBER VALUE: 12 INTERVAL: 0.001000 MIN: 6.00000 MAX: 18.000

ENTER FEET/INCHES: 0 MIN. FEET/IN: MAX. FEET/IN:

ENTER PARAMETER TEXT VALUE:

ENTER COMPONENT QUANTITY: QTY. UOM:

#	Parameter Option	Parameter Option Description
1		
2		
3		
4		

Param. #	Parameter	Parameter Value	UOM
1	Cabinet_Height	36.000000	inches
2	Cabinet_Width	48.000000	inches
3	Cabinet_Depth	28.000000	inches
4	Face_Pattern	NONE	
5	Post_Height	12	inches

GE-06.1-Avatar-G.mp4

With the next set of Configurator Prompts that include **“Fill Panel”**, **“Removable Back”**, **“Include Shelf”**, and **“Include Drawer”**, we will answer **“No”** to each of these prompts in our illustration.

9. When prompted for **“Fill_Panel?”**, answer **“No”**.
10. When prompted for **“Removable_Back?”**, answer **“No”**.
11. When prompted for **“Include_Shelf?”**, answer **“No”**.
12. When prompted for **“Include_Drawer?”**, answer **“No”**.

GE-06.1-Avatar-H.mp4

The next Configurator Prompt provides a selection of available **“Materials”** for the cabinet to choose from. This is followed by a list of available **“Material Thicknesses”** for the **“Material”** selected.

13. When prompted for a **“Material”** select from one of the available options.

Configurator-Parameter-input

Select Option for Material:

MASTER CONFIGURATION PART #: TEMP-LDC-000001 UTILITY CABINET

SUB-COMPONENT PART #:

PARAM #: 12 PARAMETER: Material UOM: Inches

ENTER PARAMETER NUMBER VALUE: INTERVAL: 0.001000 MIN: 6.0000 MAX: 18.000

ENTER FEET/INCHES: 0 MIN. FEET/IN: MAX. FEET/IN:

ENTER PARAMETER TEXT VALUE:

ENTER COMPONENT QUANTITY: QTY. UOM:

#	Parameter Option	Parameter Option Description
1	Carbon	
2	304-2B Stainless	
3	304-4 Stainless	
4	316-2B Stainless	

Param. #	Parameter	Parameter Value	UOM
2	Cabinet_Width	48.000000	inches
3	Cabinet_Depth	28.000000	inches
4	Face_Pattern	NONE	
5	Post_Height	12.000000	inches
6	Bottom_Post_Height		inches
7	Fill_Panel?	No	
8	Removable_Back?	No	
9	Include_Shelf?	No	

14. When prompted for a **“Material_Thickness”** select from one of the available options.

BILL OF MATERIALS: Global Edge Windows Demo Server

Applications BILL OF MATERIALS: Global Edge Windows Demo Server

MAIN MENU

Bill of Materials

Configurator-Parameter-input

Select Option for Material_Thickness:

MASTER CONFIGURATION PART #: TEMP-LDC-000001 UTILITY CABINET

SUB-COMPONENT PART #:

PARAM #: 13 PARAMETER: Material_Thickness UOM: inches

ENTER PARAMETER NUMBER VALUE: INTERVAL: 0.001000 MIN: 6.00000 MAX: 18.0000

ENTER FEET/INCHES: 0 MIN. FEET/IN: MAX. FEET/IN:

ENTER PARAMETER TEXT VALUE:

ENTER COMPONENT QUANTITY: QTY. UOM:

#	Parameter Option	Parameter Option Description
1	0.075000	14 Gauge (0.075000)
2	0.048000	18 Gauge (0.048000)
3	0.036000	20 Gauge (0.036000)

Param. #	Parameter	Parameter Value	UOM
2	Cabinet_Width	48.000000	inches
3	Cabinet_Depth	28.000000	inches
4	Face_Pattern	NONE	
5	Post_Height	12.000000	inches
6	Bottom_Post_Height		inches
7	Fill_Panel?	No	
8	Removable_Back?	No	
9	Include_Shelf?	No	

CFG1

OK Cancel FG-Image

GE-06.1-Avatar-I.mp4

The last Configurator Prompt includes selection of a **“Paint Finish”** for the cabinet. When the configuration execution is completed, the following menu options are displayed.

15. When prompted for **“Paint_Finish”** select from one of the available options.

Configurator-Parameter-Input

Select Option for Paint_Finish:

MASTER CONFIGURATION PART #: TEMP-LDC-000001 UTILITY CABINET

SUB-COMPONENT PART #:

PARAM #: 14 PARAMETER: Paint_Finish UOM: inches

ENTER PARAMETER NUMBER VALUE: INTERVAL: 0.001000 MIN: 6.0000 MAX: 18.000

ENTER FEET/INCHES: MIN. FEET/IN: MAX. FEET/IN:

ENTER PARAMETER TEXT VALUE:

ENTER COMPONENT QUANTITY: QTY. UOM:

#	Parameter Option	Parameter Option Description
2	Red	Red
3	Blue	Blue
4	Custom	Custom
5	None	None

Param. #	Parameter	Parameter Value	UOM
2	Cabinet_Width	48.000000	inches
3	Cabinet_Depth	28.000000	inches
4	Face_Pattern	NONE	
5	Post_Height	12.000000	inches
6	Bottom_Post_Height		inches
7	Fill_Panel?	No	
8	Removable_Back?	No	
9	Include_Shelf?	No	

16. When the Configurator completes execution, the following screen form and menu options are displayed:

Configurator-Parameter-Input

MASTER CONFIGURATION PART #: SLD-000-CAB-CRS-364828-0002 UTILITY CABINET

SUB-COMPONENT PART #: CRS COLD ROLLED STEEL

PARAM #: 4 PARAMETER: Material UOM: inches

ENTER PARAMETER NUMBER VALUE: INTERVAL: 0.048000 MIN: MAX:

ENTER FEET/INCHES: MIN. FEET/IN: MAX. FEET/IN:

ENTER PARAMETER TEXT VALUE: Carbon

ENTER COMPONENT QUANTITY: QTY. UOM:

#	Parameter Option	Parameter Option Description

Param. #	Parameter	Parameter Value	UOM

Complete

BOM

Documents

Routing

QUIT

GE-06.1-Avatar-J.mp4

The menu option **“BOM”** will display the top-level part number of the configuration that was generated. You can access a full bill of materials listing, multiple levels in the **“BOM”** section of the software.

17. Select **“BOM”** option to display the following:

LINE	PART NUMBER	DESCRIPTION	QTY. REQUIRED	UOM
1	SLD-001-BODY-364828-0001	CABINET BODY	1.0000	EA
2	SLD-045-PAINT-BLUE-0001	POWDER PAINT, BLUE	4.4227	lbs

FOUND: 2 COMPONENTS
BOM

GE-06.1-Avatar-K.mp4

Select **"CANCEL"** and select the **"Routing"** option to display the routing steps that were generated for the top-level assembly. You can access routings that were generated for each of the sub-assembly components in the **"Routing"** section of the software.

18. Select **"Cancel"**, the select **"Routing"** option to display the following:

BILL OF MATERIALS: Global Edge Windows Demo Server

Applications BILL OF MATERIALS: Global Edge Windows Demo Server

MAIN MENU

Bill of Materials

Routing

PART #: SLD-000-CAB-CRS-364828-0002 UTILITY CABINET

ROUTE #: 1 OF: 1 DESCRIPTION: CABINET ASSEMBLY & INSPECTION PRG OPTIMIZATION: None

TYPE: Standard ROUTE SOURCE: WORK QUEUE REBUILD: No OPTIMIZATION QTY: 1.000000

LOCATION LEVEL: None

DEPT #:

W.C. #:

ASSET #:

SET-UP COST: \$12.5000

PROCESS COST: \$16.6670

COMPONENT COST: \$428.6995

TOTAL COST: \$445.37

ROLL-UP DATE: 02/20/2026

SEQ #	ROUTING	ROUTING DESCRIPTION	TYPE	SET UP COST	PROC. COST	MACH.#	MACH.REF	TRANS #
1	ASSEMBLY	Assembly Operation	Process	\$12.50	\$16.6670	1021	ASSM-1021	795

ROUND 1 SEQUENCE

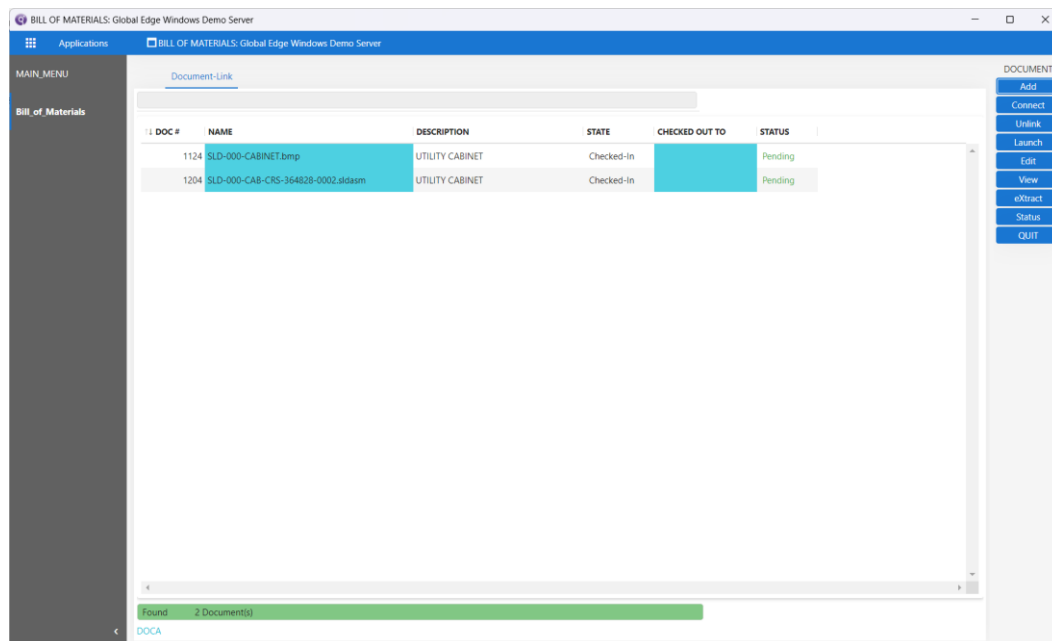
BO10

ROUTING View QUIT

GE-06.1-Avatar-L.mp4

Select **“QUIT”** and select the **“Documents”** option to display the top-level document name that was generated to reflect the new cabinet configuration just produced. Section six point two of our illustration will show launching a Template SolidWorks CAD model for the configured cabinet and resizing and renumbering each part to match the configuration that was just generated.

19. Select **“Cancel”**, then select **“Documents”** option to display the following:



The screenshot shows a web application window titled "BILL OF MATERIALS: Global Edge Windows Demo Server". The interface includes a sidebar with "MAIN MENU" and "Bill_of_Materials", a top navigation bar with "Applications" and "BILL OF MATERIALS: Global Edge Windows Demo Server", and a "DOCUMENT" panel on the right with buttons: Add, Connect, Unlink, Launch, Edit, View, eExtract, Status, and QUIT. The main area displays a "Document-Link" table with the following data:

DOC #	NAME	DESCRIPTION	STATE	CHECKED OUT TO	STATUS
1124	SLD-000-CABINET.bmp	UTILITY CABINET	Checked-In		Pending
1204	SLD-000-CAB-CRS-364828-0002.sldasm	UTILITY CABINET	Checked-In		Pending

At the bottom, a green bar indicates "Found 2 Document(s)" and a "DOCA" button is visible.

6.2 – Automated Part / Assembly Resizing

These steps illustrate document management and automated CAD model generation.

Workflow Steps

GE-06.2-Avatar-A.mp4

After running a configuration for the sheet metal cabinet, return to the PART menu. Select **“Find > Configurations”** to access the configured cabinet.

20. Return to **“Part-Master”** menu and select **“Find > Configurations”** option and find newly configured cabinet assembly:

The screenshot displays the 'Part-Master' form within the 'BILL OF MATERIALS: Global Edge Windows Demo Server' application. The form is organized into several sections for data entry and viewing.

Part Information:

- PART #: SLD-000-CAB-CRS-364828-0002
- REV #: (blank)
- TYPE: Product
- PART UOM: EA
- LIST: (blank)
- ALIAS OF: SLD-000-CABINET
- ORIGIN: Manufactured
- MFR. PART #: (blank)
- CATEGORY: CAB
- STYLE: UTL
- MATERIAL: CRS

Utility Cabinet Details:

- UTILITY CABINET
- Serial #: 2027
- MFR: LDC Manufacturing
- SERIAL: None
- SHIP WEIGHT: 92.0847 lbs
- STATUS: Active
- REBUILT: Yes

Costs and Dates:

- PROCESS COST: \$16.6670
- COMPONENT COST: \$428.6995
- MFR. SET-UP COST: \$12.50
- ONE TIME CHARGE: \$0.00
- PART ADDED: 02/20/2026
- MODIFIED: 02/20/2026
- TRANSFER: (blank)
- COST QTY: 1.0000
- STANDARD PART COST: \$457.8665
- QUOTE PART COST: \$457.8665
- ROLL-UP COST: \$457.8665
- ROLL-UP DATE: 02/20/2026

CAD Part File Name:

- CAD PART FILE NAME: (blank)

3D Model:

- A 3D model of the cabinet assembly is displayed in the bottom left corner.

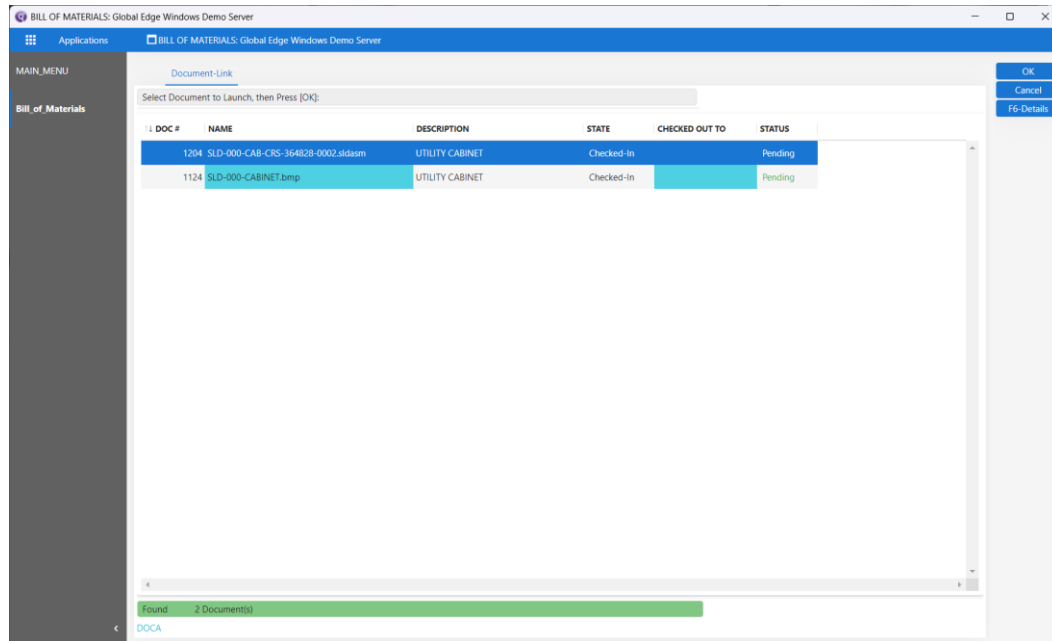
Navigation Buttons:

- On the right side, there is a vertical column of buttons: Add, Find, Next, Previous, Goto, Update, BOM, WhereUsed, reVisions, Mfr-Test, documEnt, Configurator, workQueue, Options, Long, RollUp, category, print, Delete, and QUIT.

GE-06.2-Avatar-B.mp4

Select the **“Document”** option to display the following screen form and menu options. This will display the SolidWorks assembly file that was copied from the original SolidWorks template CAD file.

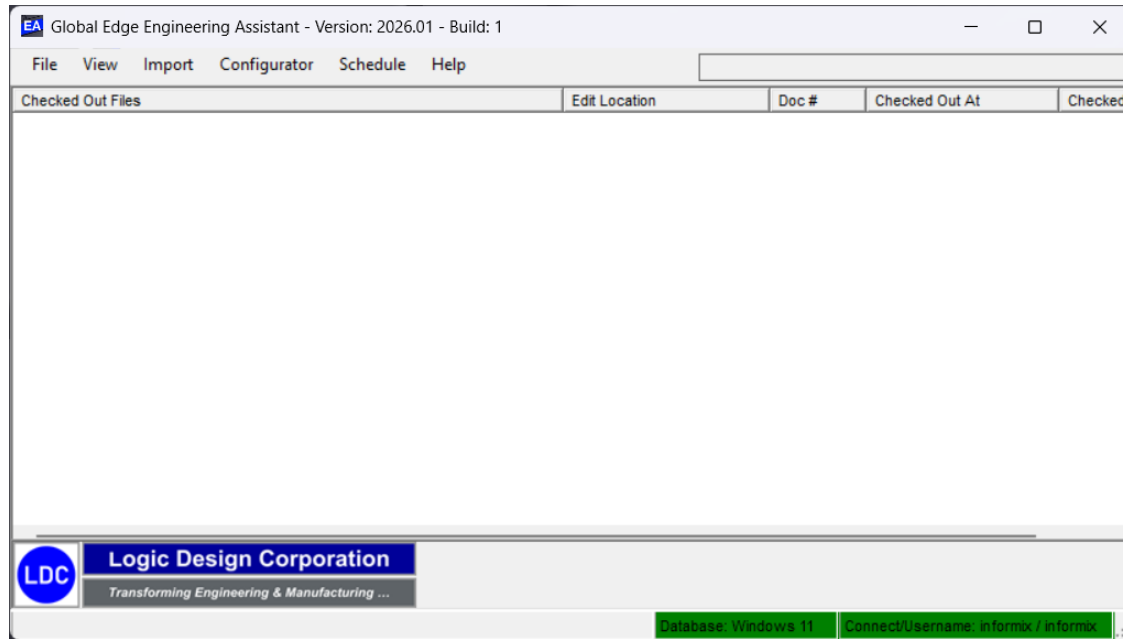
21. Select **“Document > Launch”** option and select document to launch into CAD editor:



GE-06.2-Avatar-C.mp4

Select the **“Launch”** option and highlight the SolidWorks assembly CAD file. Then select **“OK”** which will automatically launch the original Template CAD Cabinet into SolidWorks.

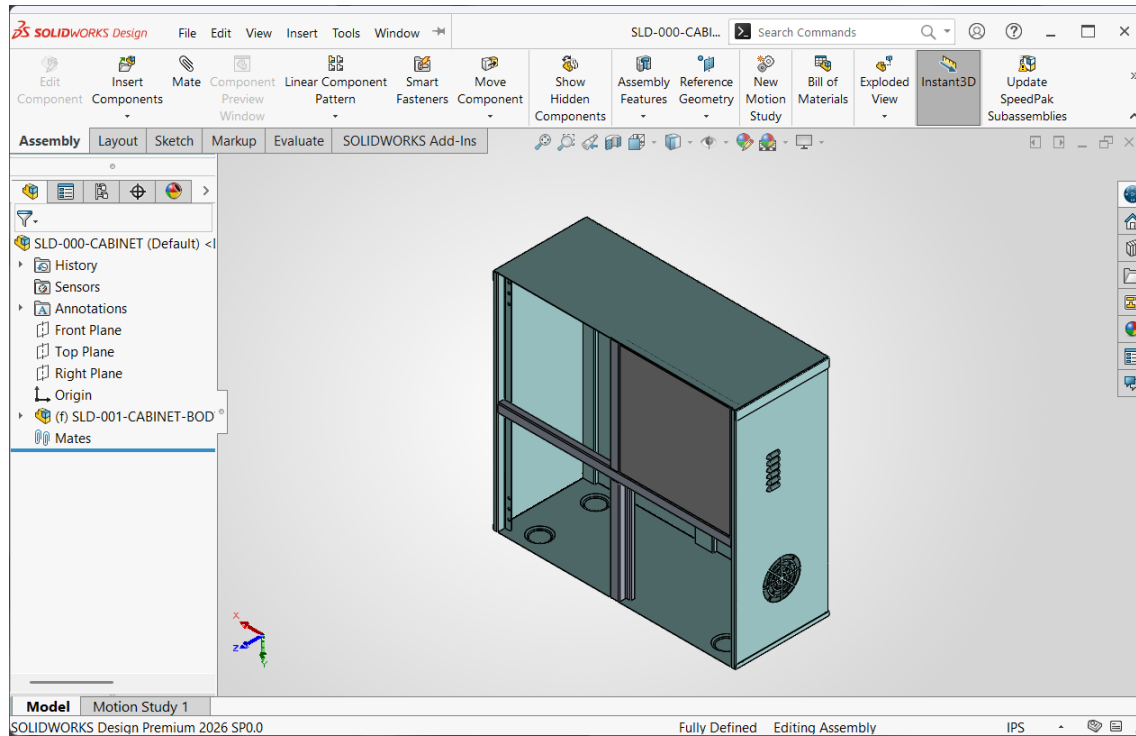
22. Select **“Document > Launch”** option and select document to launch into CAD editor. As the CAD files are checked out the document vault, they are displayed on the following screen:



GE-06.2-Avatar-D.mp4

The process of configuring and resizing the sheet metal cabinet continues with the original Template CAD model assembly launched into SolidWorks.

23. Once all the CAD files are checked out of the document vault, they are automatically launched into SolidWorks:



GE-06.2-Avatar-E.mp4

Select the **“Tools > Global Edge > Model Explorer”** option to display the following screen and menu options.

24. Select the **“Tools > Global Edge > Model Explorer”** option to display **Global Edge Model Explorer** screen:

Global Edge Engineering Assistant - Version: 2026.01 - Build: 1 - Model Explorer

Model: Open Documents: 12

Part: SLD-000-CABINET

Revision: UTILITY CABINET

Part Type: Product Master: Yes

Part UOM: EA Rebuilt: No

List Price: Serial #: 2027

Alias Of: Origin: Manufactured

Mfr Part #: Mfr: LDC Manufacturing

Category: CAB Serial: None Status: Active

Style: UTL Ship Wt: lbs

CAD Material: Linked To:

Material:

User Defined: Date Added: 12/30/2024

User Defined: Date Modified: 12/30/2024

User Defined: Standard Cost:

User Defined: Quote Cost:

Process Cost: Mfr Set-Up Cost: Roll-Up Cost:

Comp Cost: Roll-Up Date: 01/01/0001

CAD Part #:

Active Document: SLD-000-CABINET.sldasm

Document Type: ASSEMBLY In Database: Yes

Operation:

Database: Windows Username: informix

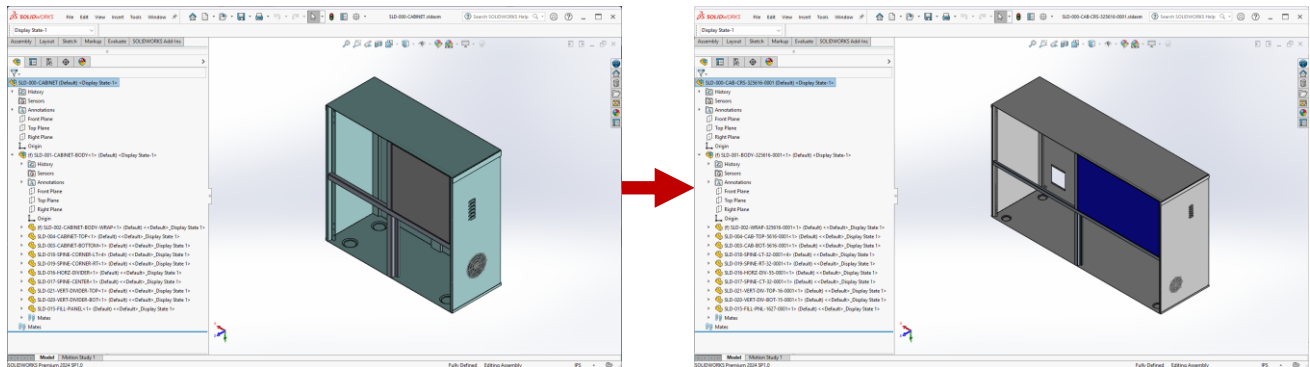
GE-06.2-Avatar-F.mp4

The upper-left portion of the screen displays the current bill of materials structure of the Template CAD model cabinet assembly. As the cabinet assembly rebuilding process is executed, this bill of materials structure will be replaced with a new configured bill of materials structure.

GE-06.2-Avatar-G.mp4

Select the **“Rebuild/Configure”** button to start the CAD model assembly rebuilding process.

25. Select the **“Rebuild/Configure”** option to rebuild and configure the SolidWorks Cabinet Assembly to match the configuration run:



GE-06.2-Avatar-H.mp4

After the process of completing the rebuilding of the CAD model assembly is complete, the newly configured cabinet is displayed within SolidWorks.

GE-06.2-Avatar-I.mp4

Select the **“Tools > Global Edge > Model Explorer”** option to display the following screen and menu options.

26. Open the Tree Widget in the left-hand panel and the **“Part”** tab to display the part information for the selected part that resides in the **Global Edge** database that matches the configured CAD Model:

Global Edge Engineering Assistant - Version: 2026.01 - Build: 1 - Model Explorer

Model: Open Documents: 12

Part: SLD-000-CABINET

Revision: UTILITY CABINET

Part Type: Product Master: Yes

Part UOM: EA Rebuild: No

List Price: Serial #: 2027

Alias Of: Origin: Manufactured

Mfr Part #: Mfr: LDC Manufacturing

Category: CAB Serial: None Status: Active

Style: UTL Ship Wt: lbs

CAD Material: Linked To:

Material:

User Defined: Date Added: 12/30/2024

User Defined: Date Modified: 12/30/2024

User Defined: Standard Cost:

User Defined: Quote Cost:

Process Cost: Mfr Set-Up Cost: Roll-Up Cost:

Comp Cost: Roll-Up Date: 01/01/0001

CAD Part #:

Active Document: SLD-000-CABINET.sldasm

Document Type: ASSEMBLY In Database: Yes

Operation:

Database: Windows Username: informix

GE-06.2-Avatar-J.mp4

The upper-left portion of the screen displays the newly configured bill of materials structure of the configured CAD model cabinet assembly.

GE-06.2-Avatar-K.mp4

The lower-left portion of the screen displays the newly configured bill of materials structure that is stored in the **Global Edge** database.

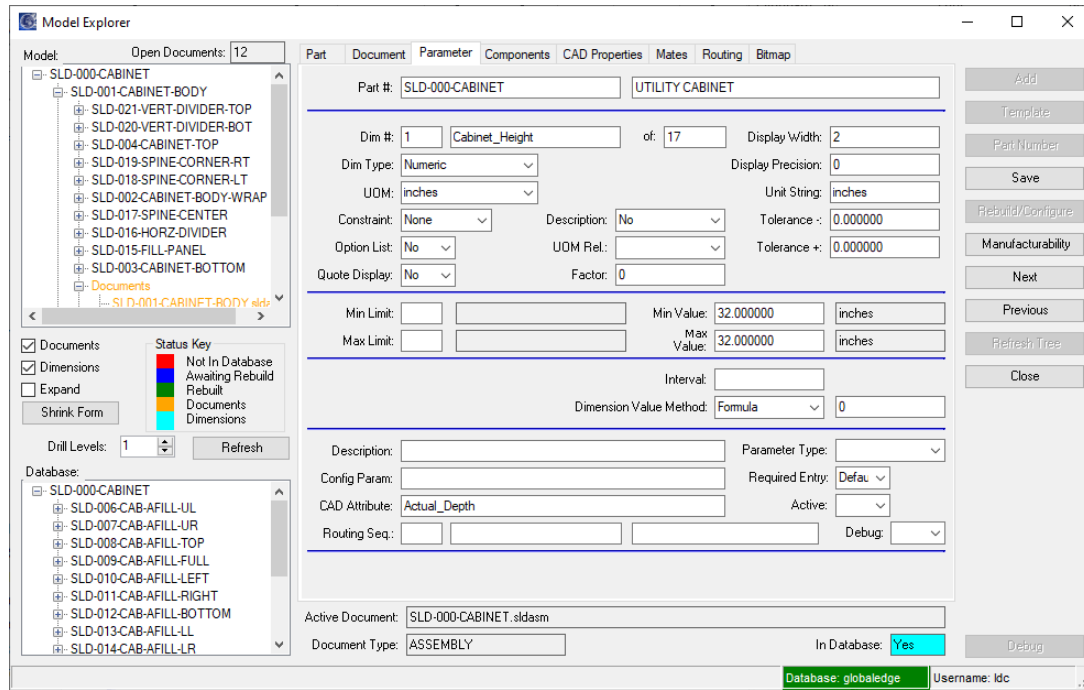
27. Select a Document in the left-hand panel and select the **“Document”** tab to display the document information for the selected part that resides in the **Global Edge** database that matches the configured CAD Model:

The screenshot displays the 'Model Explorer' application window. The 'Document' tab is active, showing detailed information for the selected document 'SLD-000-CABINET'. The left-hand panel shows a tree view of the model structure, with 'SLD-000-CABINET' selected. The main panel contains the following fields and controls:

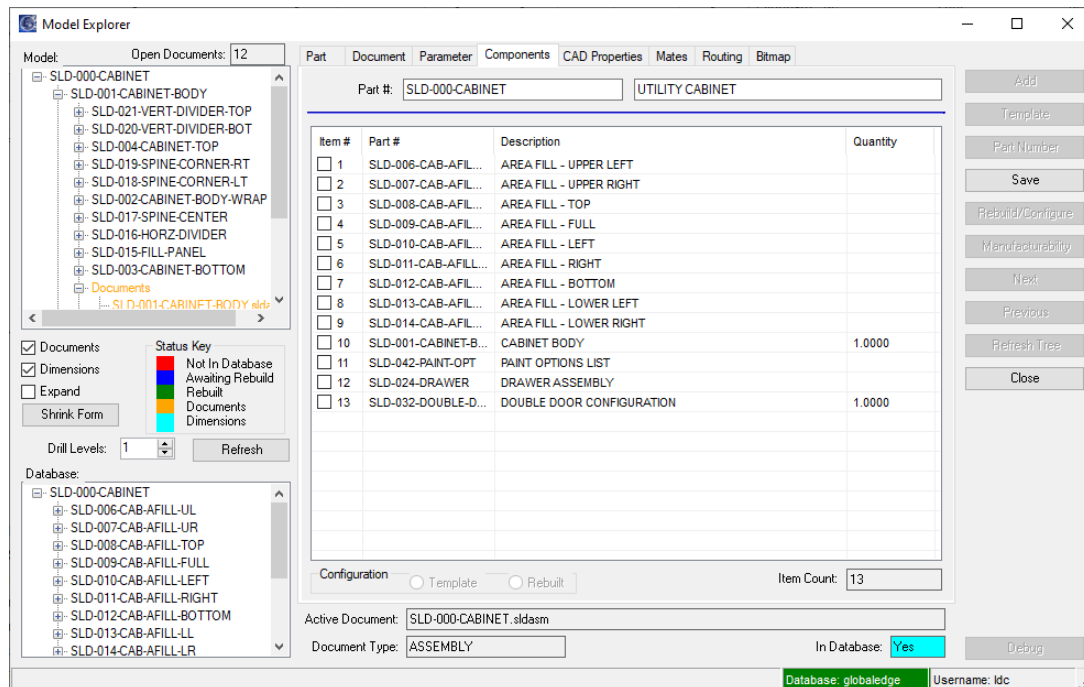
- Part #:** SLD-000-CABINET
- Utility Cabinet:** UTILITY CABINET
- Doc #:** 1141
- Name:** SLD-000-CABINET.sldasm
- Ref #:** 3047
- Format:** SLA
- Editor:** SolidWorks Assembly
- Rev:** [dropdown]
- Serial #:** 2027
- Type:** ASM
- Style:** MCH
- Preview:** No
- Configurable:** No
- Configuration Complete:** [dropdown]
- Check-Out By:** LDC
- Check-Out Date:** 01-03-17 12:00:00
- Check-Out Status:** Checked-In
- Control Loc:** 2
- Working:** C:\demo\CAD-Files\SLD-000-CABINET\
- Release:** [dropdown]
- Archive:** [dropdown]
- Template:** Yes
- Vaulted:** Yes
- Archived:** No
- Template Doc #:** [input]
- Vault #:** 2
- Client Vault:** [input]
- Archive #:** [input]
- Active Document:** SLD-000-CABINET.sldasm
- Document Type:** ASSEMBLY
- In Database:** Yes

The bottom status bar shows 'Database: globaledge' and 'Username: ldc'.

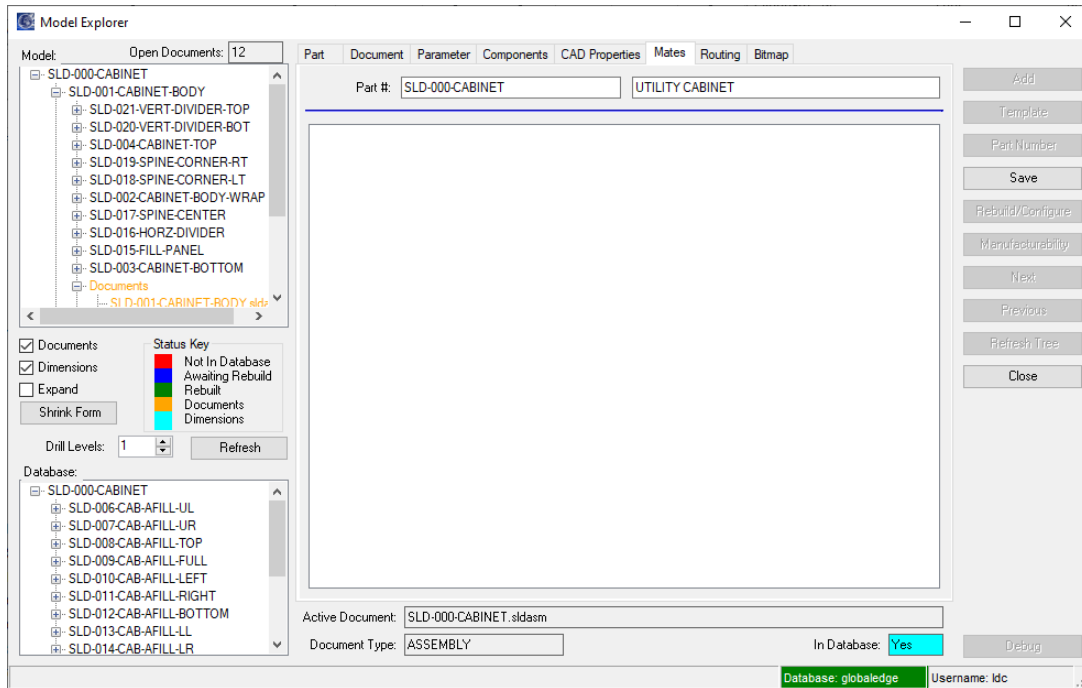
28. Select a Dimension in the left-hand panel and select the **“Parameter”** tab to display the parameter information for the selected part that resides in the **Global Edge** database that matches the configured CAD Model:



29. Select **“Components”** tab to display the assembly components for the selected part that resides in the **Global Edge** database that matches the configured CAD Model:



30. Select “**Mates**” tab to display the mate attributes for the selected part that resides in the **Global Edge** database that matches the configured CAD Model:



31. Select “**Routings**” tab to display the routings for the selected part that resides in the **Global Edge** database that matches the configured CAD Model:

