

Requirements for remote-site CAD Data Sharing

Delphi Thermal Systems global CAD Product Data Manager (PDM) is **Teamcenter Engineering (TcEng)**, a Siemens PLM application. This TcEng PDM CAD database is used to manage CAD solid model parts, assemblies and their revisions while sharing that data globally. This TcEng CAD database is available at most Delphi Thermal sites that are located within the Delphi Corporate network Firewall.

Options for data sharing, viewing and naming for remote-sites:

1. If you are located at a site within the Delphi Corporate network Firewall that does not have a local Delphi Thermal TcEng database.
Page 2-6 Export
Page 12 Import.
2. If you are outside the Delphi Corporate network Firewall but have firewall access through Delphi AT&T Global Network.
Page 2-6 Export
Page 12 Import.
3. Viewing assembly BOM and optional single CAD file download, Delphi network Firewall access required.
Page 7-8.
4. If you are outside of the Delphi Corporate network Firewall with no Delphi firewall access.
Page 9-11 Export
Page 12 Import.
5. Working with TcEng Exported CAD data, Delphi Corp. native naming convention.
Page 13-14.

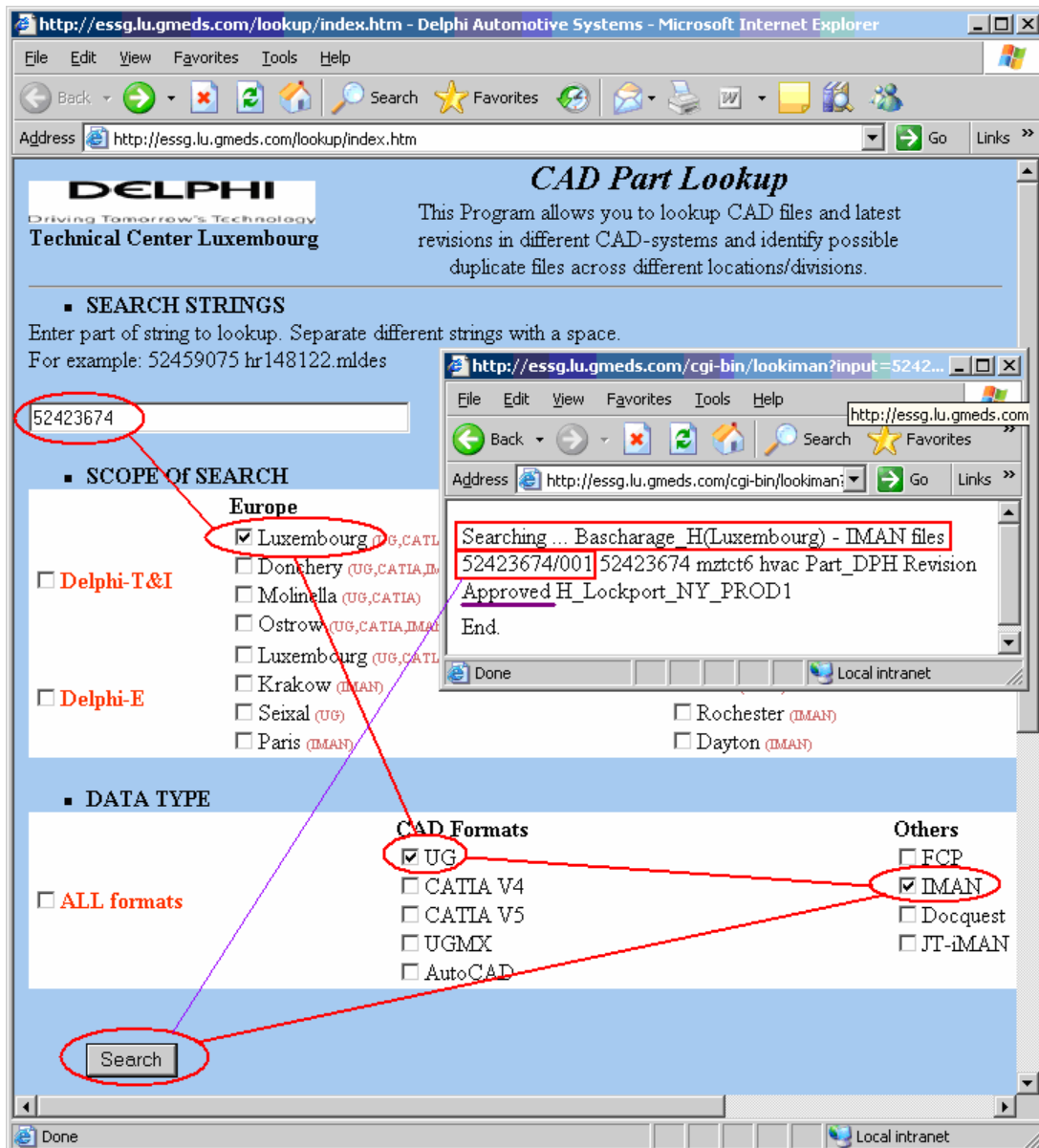
Option 1 or 2 - data Export

This process will show how a remote designer/engineer can use the **Teamcenter Engineering (TcEng)** web (Thin Client) to get UG-NX CAD parts and part assemblies out of a Delphi Thermal site specific TcEng database.

Notice: You need to be within or logged-into the Delphi network Firewall for this option.

Determine if the data is in a Delphi Thermal TcEng Database

A Delphi Thermal TcEng database must have the needed part/assembly before data exporting can be accomplished. Delphi Thermal can use the lookup utility at this URL <http://essg.lu.gmeds.com/lookup> to determine the location of TcEng UG-NX CAD parts. If the Lookup shows the TcEng (IMAN) file Approved this revision is engineering released with the drawing plotted to the Delphi Thermal drawing distribution system docQuest.



Run the “Thermal TcEng Export” utility

Once you have identified the Delphi thermal site the data is housed in launch the Export utility from this URL. http://essg.lu.gmeds.com/iman_info/impexp_2007/

Notice: You must have an active TcEng login ID and password for the site you are exporting from...

Database Export - Delphi Automotive Systems - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Mail Print W Yellow folder Help People

Address http://essg.lu.gmeds.com/iman_info/impexp_2007/ Go Links >>

Item ID (8 to 32 digits)

Revision ID

Revision rules :

Database site :

TcEng User Id in DB:

TcEng Password in DB:

e-mail :

e-mail (confirmation) :

Auto translate ☒ Yes ☐ No

Done Local intranet

1. Enter the part number “Item ID” and revision “Revision ID” as it appeared in the Lookup Search results window. This part number could possibly have a context identifier, if for example your number is a charted drawing number. (i.e. 12345678-CHT01).
2. Select the “Revision rules” for the assembly you are downloading. The “a_Precise” rule will export the assembly the exact way the designer built and engineering released the approved assembly with the appropriate revisions for that assembly BOM. All other Revision rule options will export the assembly with assembly BOM revisions not engineering approved for the main assembly revision.
3. Select the “Database site” the data was located in per the Lookup Search results.

4. Enter your "TcEng User Id" and "TcEng Password" for the site you are exporting from.

Remember: you must have a Login ID and Password for the site you are exporting from, if not run the Lookup search for the site you do have access to and see if the data is there. If the data is not at your accessible site you will need to get a Login ID for that site or have a contact at that site pull the data to your accessible site.

5. Enter your e-mail address.

6. "Auto Translate" option will export the assembly with the Delphi Cooperate sectioned native CAD file naming convention.

Notice: If the export fails the TcEng naming may be in conflict with the native naming convention. Turn off Auto translate, this will name the CAD files with the TcEng out of the box naming. This defaulted named assembly will not import back to TcEng if required, you will have to get Lockport Design Services to help.

Database Export - Delphi Automotive Systems - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail New Window

Address http://essg.lu.gmeds.com/iman_info/impexp_2007/ Go Links >>

Item ID (8 to 32 digits)

Revision ID

Revision rules :

Database site :

TcEng User Id in DB:

TcEng Password in DB:

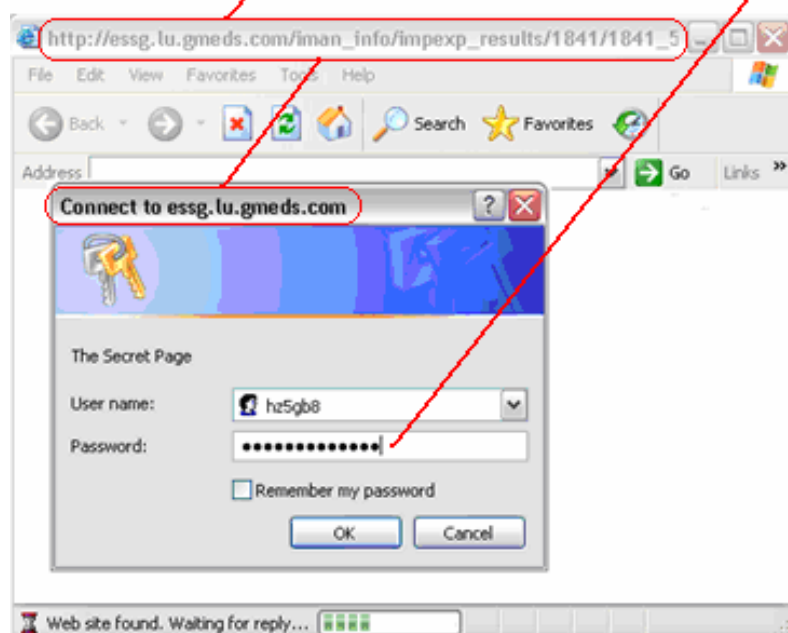
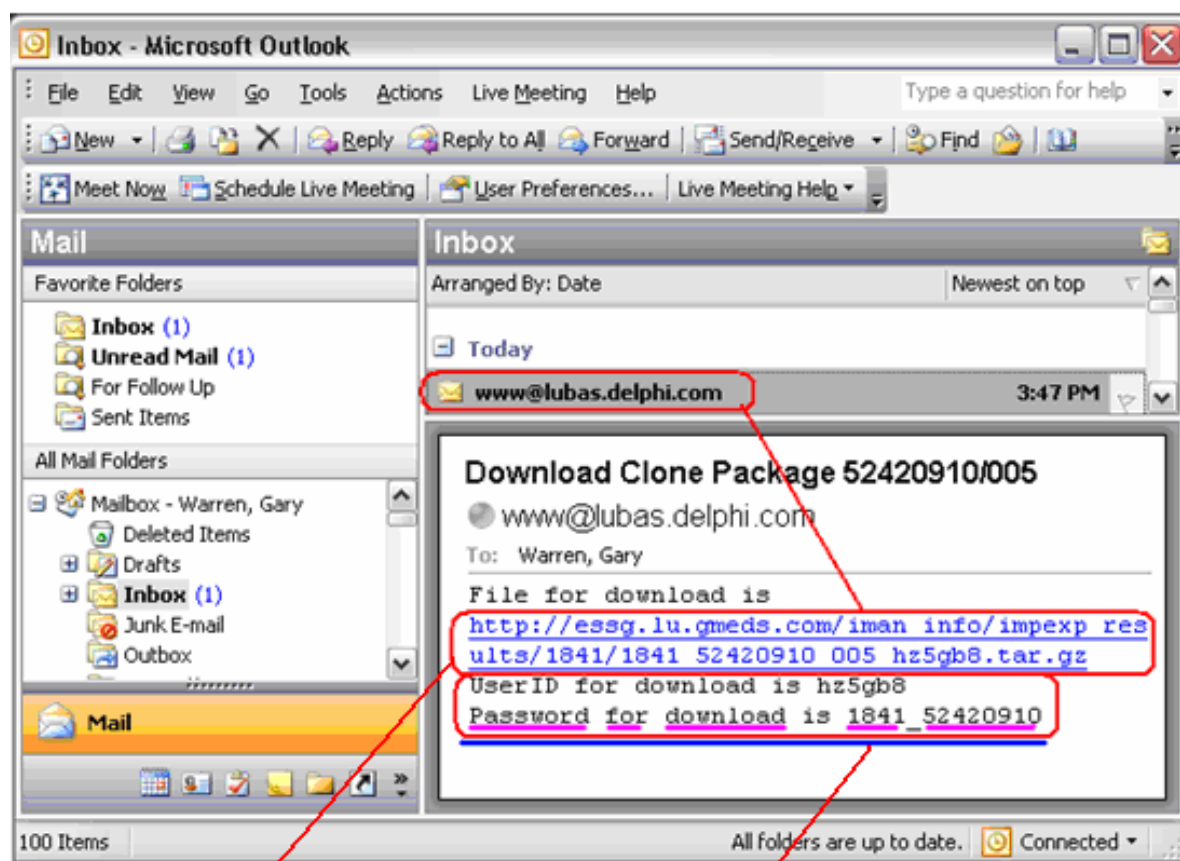
e-mail :

e-mail (confirmation) :

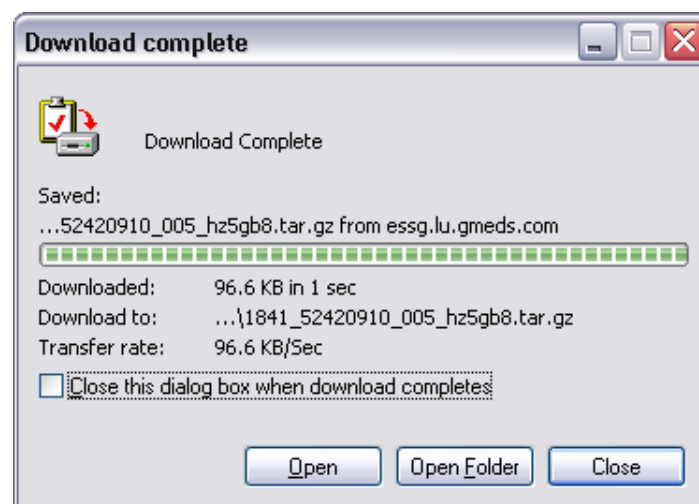
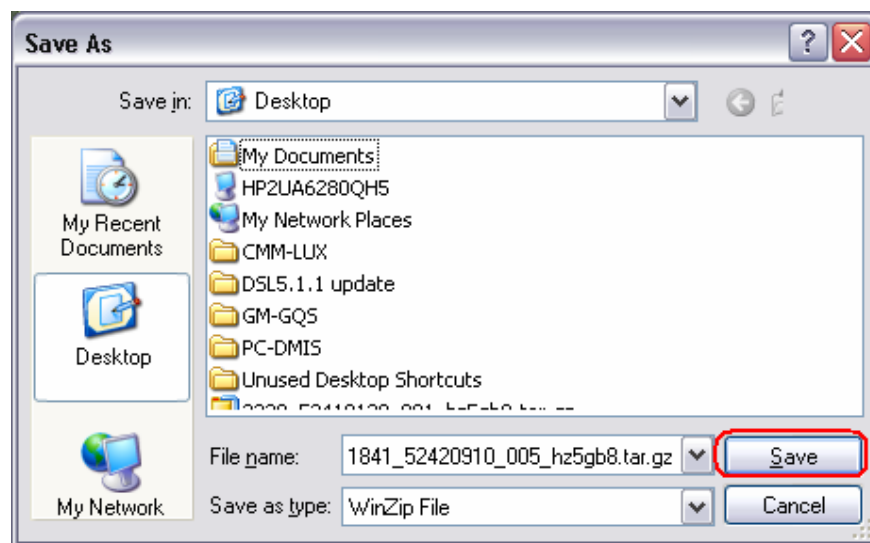
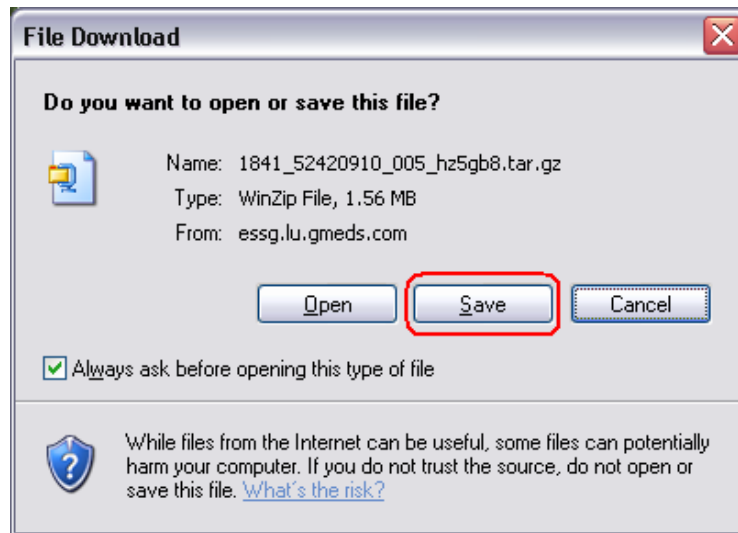
Auto translate ☒ Yes ☐ No

Done Local intranet

7. Once the export from TcEng is completed you will receive an e-mail confirming the Export. Within this e-mail will be a URL for the download of the compressed assembly. Select this link, you will be prompted to enter your "User ID" and *system generated "Password" just as it is listed in the e-mail.*

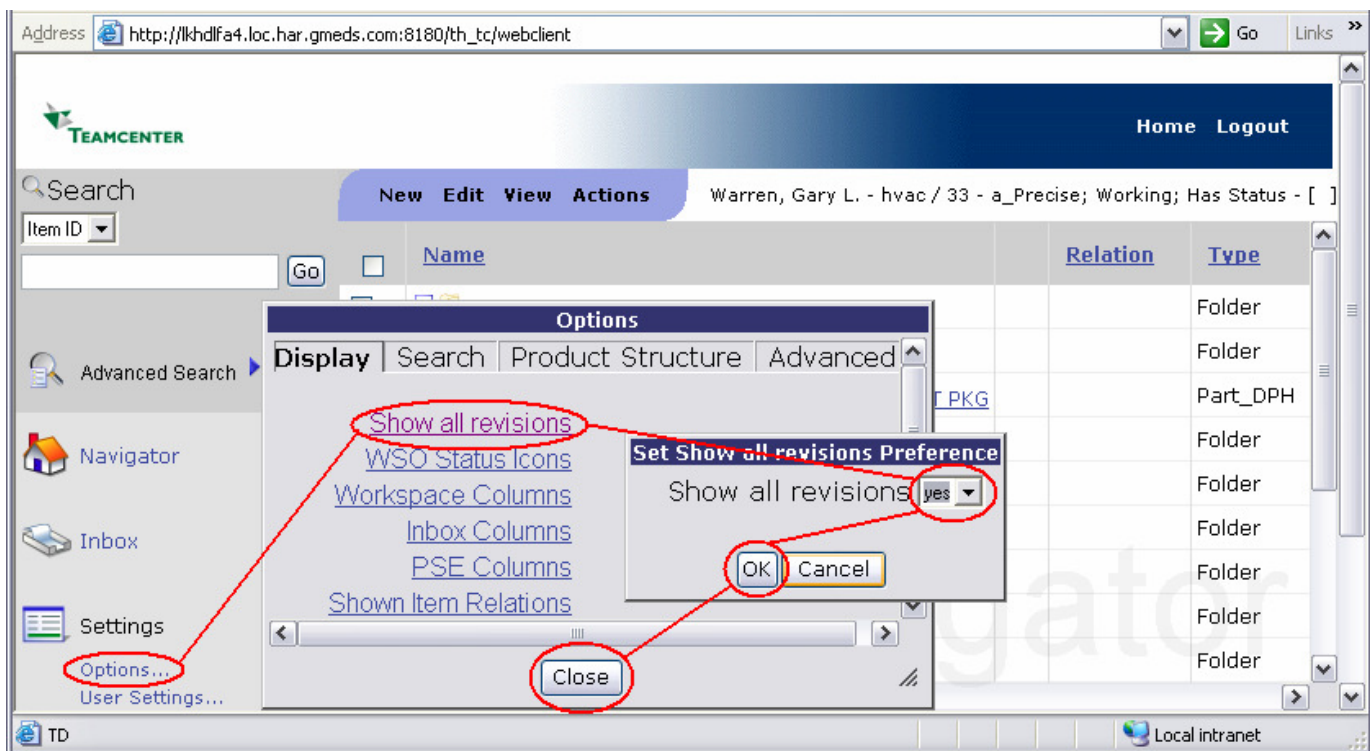
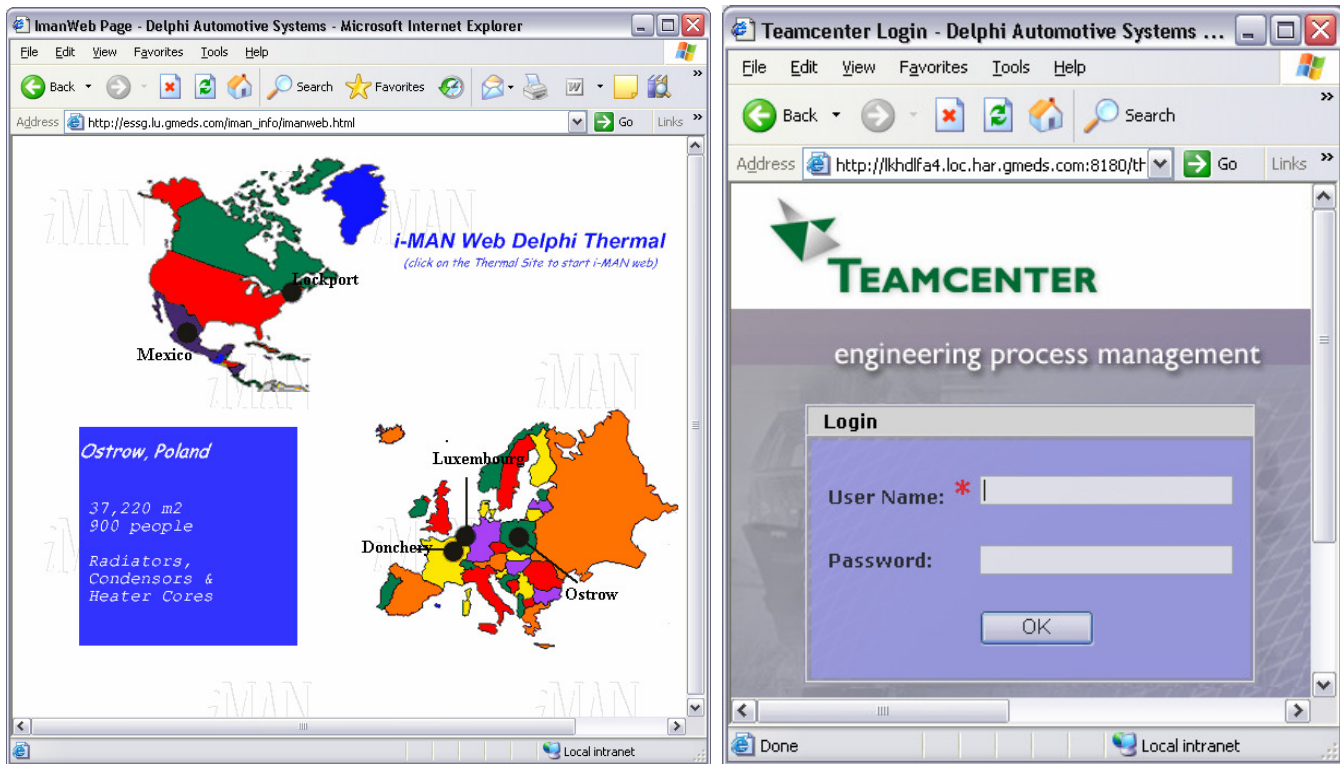


8. Once you enter your ID and Password a File Download dialog will come up. Pick the "Save" button and then select a local directory to save the compressed assembly to. This is a UNIX compressed file but you can use WinZip for extraction.



Option - 3 View asm BOM & single file Export

Once you have a site specific TcEng ID you can also login to that TcEng Thin Client web http://essg.lu.gmeds.com/iman_info/imanweb.html. Select your site, login, set your Options to Show all revisions, Search part, expand revision, select BOM, Download, etc.



TEAMCENTER Home Logout

Search Item ID 52416374 Go

New Edit View Actions Warren, Gary L. - hvac / 33 - a_Precise; Working; Has Status - []

Name	Relation	Type
52416374:ACM-M491C-06 SZA		Part_DPH
52416374:view	BOM Views	view BOMView
52416374/001:ACM-M491C-06 SZA	Revisions	Part_DPH Revi
52416374/002:ACM-M491C-06 SZA	Revisions	Part_DPH Revi
52416374/002:view	BOM View Revisions	view BOMView
52416374/002	View Specifications	UGMASTER
52416374-DWG01	View Specifications	UGPART
52416374-INS01	View Specifications	UGPART
52416374-ENV01	View Altrefs	UGALTREP

Advanced Search Navigator Inbox Settings Options... User Settings... Change Password

TABLE Local intranet

Item ID

Go

Advanced Search Navigator Inbox

Expanded TcEng assembly BOM

Name	Item Rev Status
52416374/002:ACM-M491C-06 SZA (view)	Approved
52408629/011:CASE-EVAP,LOWER (view)	Approved
52408628/009:CASE-EVAP,UPPER	Approved
52411017/003:VALVE ASM-AIR INLET	Approved
52409127/004:PLATE-ORIFICE	Approved
52408980/010:BRACKET, CAM & ACTR ASM (view)	Approved
52412943/002:ACTR ASM-ELEC GREEN "Y" TYPE	Approved
52408982/006:BRACKET-MOUNTING, ACTR	Approved

Options... TD Local intranet

Settings Options... User Settings...

Expanded UGMASTER dataset with UG-NX .prt file for download

Name	File Size	Type	Date Modified	CO
52416374/002				:15
UGPART-ATTR				:44
3VRSyncInfo				:44
52416374/002				:44
gafmetadata.gaf	540			:19
images_preview.gaf	23 Kb	UG-QuickAccess-Binary	02-Nov-2005 11:19	
52416374_02.prt	1555 Kb	UGPART	02-Nov-2005 11:19	

General Collection About Teamcenter...

TD Local intranet

File Download

Do you want to open or save this file?

Name: 52416374_02.prt
Type: UG Part File, 1.51 MB
From: lkhdifa4.loc.har.gmeds.com

Open Save Cancel

Option 4 - data Export

This process will show how a remote designer/engineer can use the Delphi Suppliers web <https://www.delphisuppliers.com> to receive Exported TcEng UG-NX CAD parts and part assemblies from the Delphi Thermal Lockport, NY USA Design Services.

Notice: *This option is for those locations outside the Delphi network Firewall.*

You will need a Login ID and Password for a Delphi Suppliers External Users account. To obtain an External account just go to the <https://www.delphisuppliers.com> web and select Request Account under External Users, fill in the External User Information with Username and Password, approval will be emailed to you. Once this is done you are ready to request data exports.

Notice: *An External user's account will give Design Services instant access to your account for data transfer an internal account will not. Delphi employees have the option to sign up for both Internal and External accounts, non-Delphi must use the External Account only.*

The screenshot shows a web browser window with the address https://www.delphisuppliers.com/request_vendor_account.html. The page features the Delphi logo and navigation links: Home, Contact Administration, Vendor Documents, and Delphi Supplier Co. A sidebar on the left contains links for INTERNAL USERS (Login, Request Account) and EXTERNAL USERS (Login, Request Account). The 'Request Account' link for EXTERNAL USERS is highlighted with a red box. The main content area is titled 'REQUEST EXTERNAL USER ACCOUNT' and contains a form titled 'External User Information'. The form fields are: *Real Name (First, Last), *Company, *Address, *E-mail, *Username, and *Password. A red box highlights the form fields. A 'Request Account' button is at the bottom right of the form.

Address https://www.delphisuppliers.com/request_vendor_account.html

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REQUEST EXTERNAL USER ACCOUNT

EXTERNAL USERS
[Login](#)
[Request Account](#)

EXTERNAL USERS
[Login](#)
[Request Account](#)

External User Information

*Real Name
(First, Last)

*Company

*Address

*E-mail

*Username

*Password

***Required Field**

Requirements for requesting data Exports

Once you have determined what part and/or assembly numbers and revisions are required for TcEng Export, you will request data Export and Delphi Suppliers transmittal.

Notice: If you are requesting export of a UG-NX assembly and all drawings you only need the main assembly number and revision with Special Instructions to include all associated drawings. The export will automatically export the appropriate BOM revisions and drawings for that assembly. If you are requesting single part files enter those numbers with Special Instructions to include associated drawings.

1. Fill out the Delphi Thermal Math Data Transmittal Request Form (DBS ENG LTC 3.3.3-1 (090-A)), as exemplated below, with the appropriate information for export.

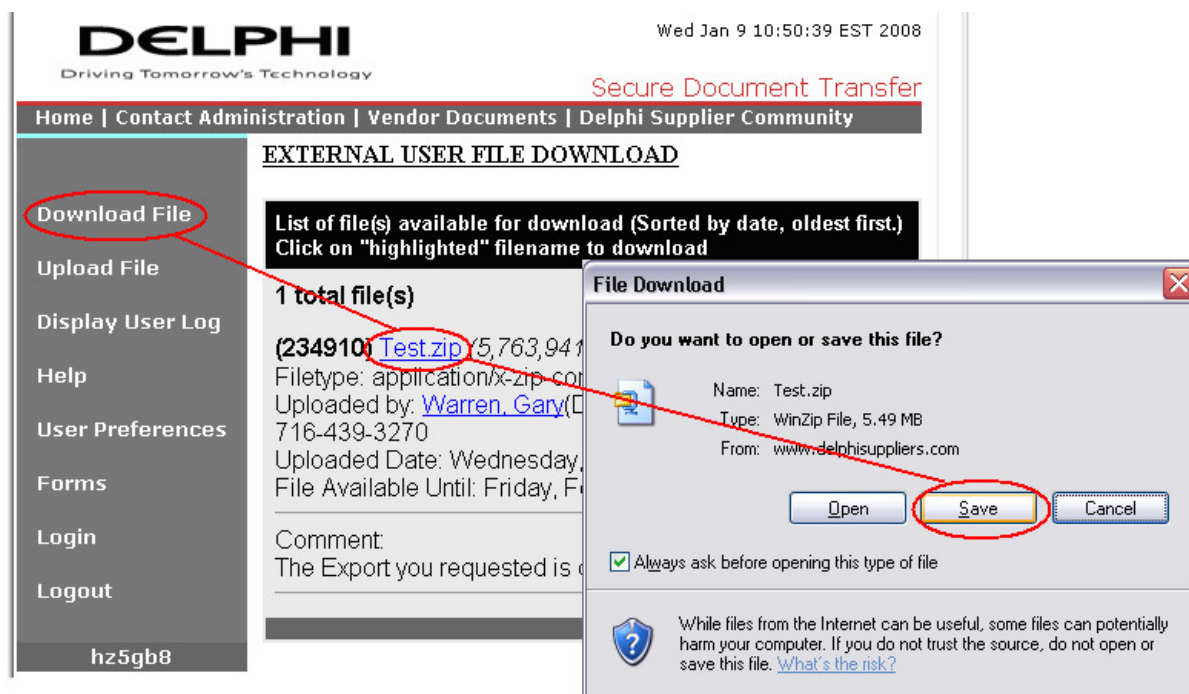
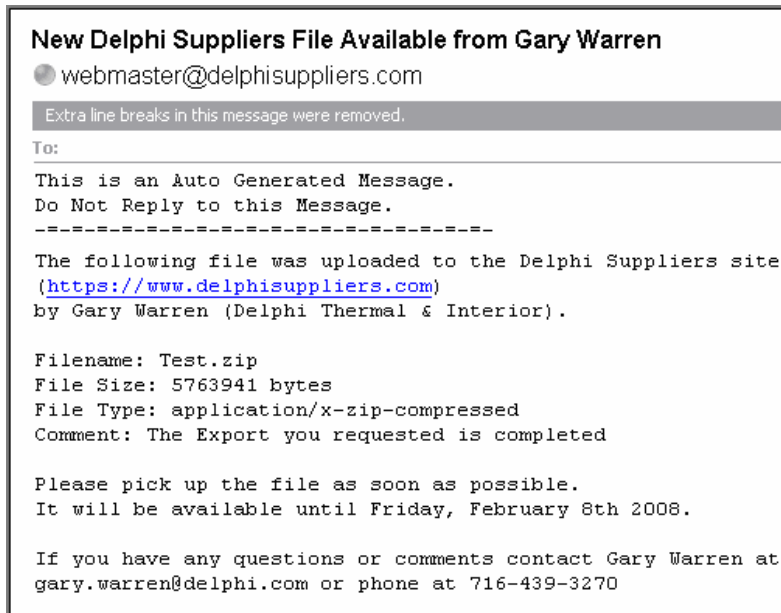
Note: Form (DBS ENG LTC 3.3.3-1 (090-A)) is located on www.DelphiSuppliers.com under Vendor Documents for Delphi Thermal Systems.

Delphi Thermal			
Math Data Transmittal Request Form			
Requestor's Name <u>Your Name</u> (Designer)		Phone: <u>NNN-NNN-NNNN</u>	Date: <u>MM/DD/YYYY</u>
Required By: <u>Your Name or designer/engineer</u> (Engineer)		Phone: <u>NNN-NNN-NNNN</u>	
↑ Use E-Mail Addresses			
Engineering Information for GMiMan ONLY:			Change Authority
Delphi Dwg No. _____		Program Designation _____	<input type="checkbox"/> EWO#: _____
			<input type="checkbox"/> Other: _____
GM must include EWO # ↑ Check and enter number(s)			
Forwarding Information: For the Recipient of the Data			
Customer/Vendor/Supplier Name: <u>KDAC</u>			
CAD APPLICATION: <input checked="" type="checkbox"/> UG <input type="checkbox"/> AutoCAD <input type="checkbox"/> Pro/E <input type="checkbox"/> Other: _____			
Attn (Data Mgmt/System Contact) <u>Math Data Manager</u>		Phone: <u>NNN-NNN-NNNN</u>	
Attn (Engineer/Designer) <u>Delphi contact</u>		Phone: <u>NNN-NNN-NNNN</u>	
↑ For GM two Contacts are Required (Both E-Mail Addresses) All Others FULL NAMES ONLY			
Data Format:			
<input type="checkbox"/> IGES <input checked="" type="checkbox"/> UG Native <input type="checkbox"/> STP <input type="checkbox"/> DXF <input type="checkbox"/> Other: _____			
Special Format Instructions: <u>Send all associated drawings</u>			
↑ For Conversions Please send CGM's and X_T's			
Source:		Upload Via:	
CAD App/Version: <u>NX3</u>		Delphi: <input checked="" type="checkbox"/> Suppliers <input type="checkbox"/> Delphi TcEng	
Data Location (Path) <u>Delphi TcEng LTC</u>		GM AutoWeb: <input type="checkbox"/> NA <input type="checkbox"/> Mexico (Toluca)	
		GMiMan: <input type="checkbox"/> Pontiac DB <input type="checkbox"/> Warren DB	
		FTP: <input type="checkbox"/> Need Address/ID and PW for Site	
		Other: <input type="checkbox"/>	
↑ Needs to be filled in		↑ Check Location(s) as Needed	
For Delphi Supplier, TcEng and FTP Use:			
CAD File Names:			
1) <u>52411471.013</u>			
2) <u>52411475.002</u>			
3) <u>52412405.008</u>			
4) _____			
5) _____			
For GMiMan & AutoWeb Use Only:			
For Class's Mlasm,Pkg,Mldes & cgm's Only			
	Class	Rev Lev	Seq Lev
1)			
2)			
3)			
4)			
5)			

2. E-Mail the Transmittal Request Form to Design Services in Lockport, NY USA.
Lockport.Thermal.DesignServiceCenter@delphi.com.

Notice: The data requestor on the form will be the Delphi Suppliers recipient. If the requestor does not have a Delphi Suppliers account please sign up before submitting requests or include a name of someone who does have this account.

3. Once the request is filled and data transmitted, you will receive an email from the Delphi Suppliers webmaster to pickup your data.



Option 1, 2 & 4 – TcEng data Import

This process will show how a remote designer/engineer can use the Delphi Suppliers web <https://www.delphisuppliers.com> to send data for Import to TcEng using Delphi Thermal Lockport, NY USA Lockport.Thermal.DesignServiceCenter@delphi.com.

Notice: This option is for those locations inside or outside the Delphi network Firewall. You will need a Login ID and Password for a Delphi Suppliers Internal or External Users account. See page 7 for access instructions.

1. First the data must be named appropriately for Delphi Thermal TcEng import. See page 13-14 for instructions.
2. Fill out the Delphi Thermal Math Data Transmittal Request Form (DBS ENG LTC 3.3.3-1 (090-A)), as exemplated on page 10.
3. Compress all data using your local file compression utility including the Transmittal Form; see list of allowed formats on the Delphi Suppliers web under Upload File.
4. Once compressed login to www.DelphiSuppliers.com and Upload File. See below. Fill in the File Comment field with "TcEng Import request with Transmittal Form".

Notice: An Internal or External account will work for your Design Services contact.
- Internal accounts look for your Design Services contact in the External user list.
- External accounts you may not have a user to upload to, if not you're Design Services contact will need to send you a file. See below.

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Wed Jan 9 13:59:13 EST 2008

Secure Document Transfer

Home | Contact Administration | Vendor Documents | Delphi Supplier Community

EXTERNAL USER FILE UPLOAD

Download File
Upload File
Display User Log
Help
User Preferences
Forms
Login
Logout

As an external user, you are only able to upload files to internal users who have uploaded files to your account. This creates a link that will be in place until that file is deleted or purged from the server.

The file you are uploading will be purged after 30 days.

File Upload

File to upload: ggb8\Desktop\Test1.zip [Browse...] (Max File Size Is 2000M)

Select User: Warren, Gary (Delphi Thermal & Interior)

If you need to upload a file to an internal user who is not listed in your user list, please contact that user through e-mail or phone and have them upload a file to your account.

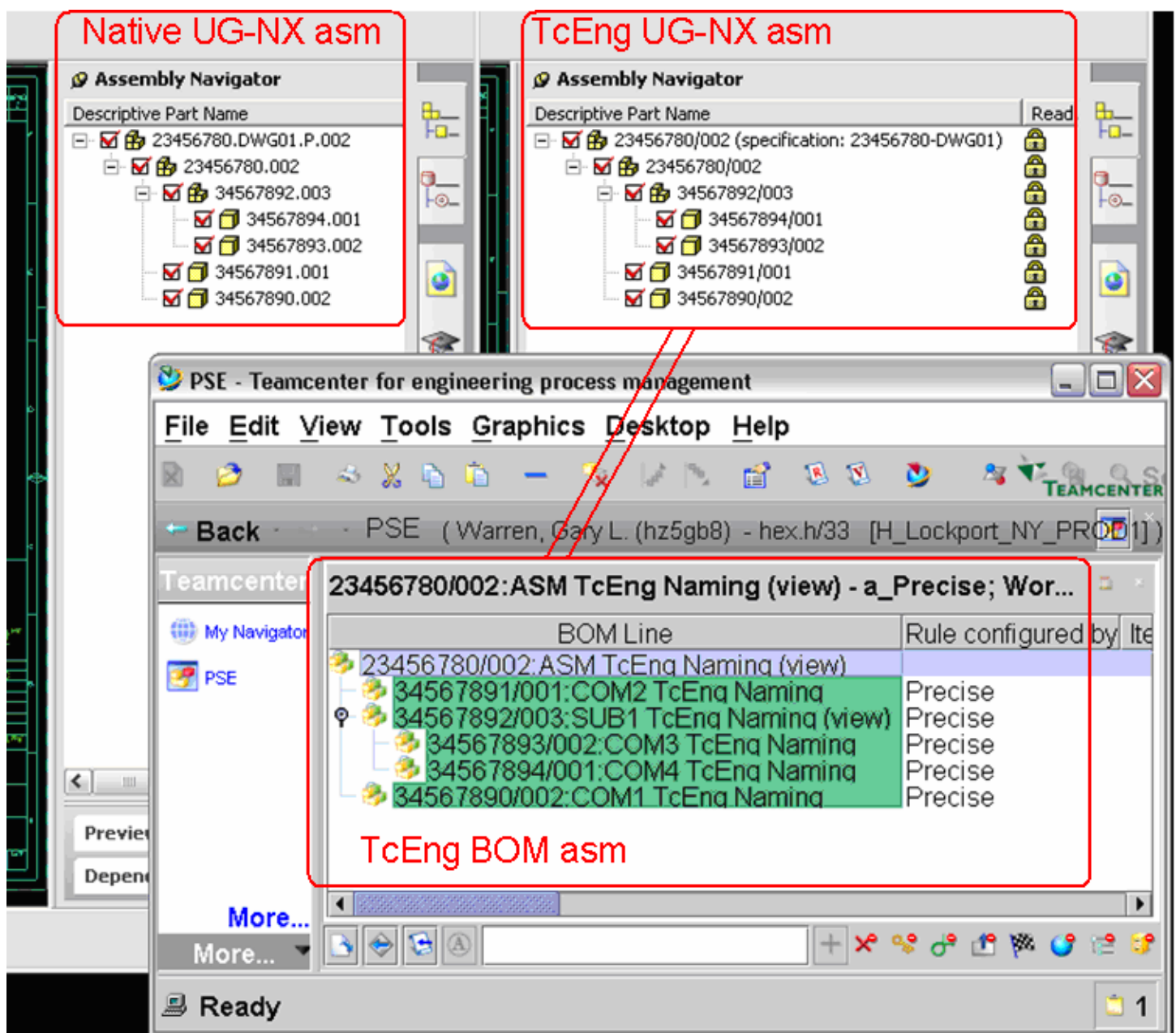
File Comment:
For data Import to Delphi TcEng
Math Data Transmittal Form included

Upload File Reset Form

Option 5 – Delphi TcEng native naming

The Delphi Corporation native UG-NX CAD files naming convention was developed for proper import naming and revisioning for the Delphi TcEng PDM. The Delphi Corporate naive naming standard is available at <https://www.delphisuppliers.com> under **Vender Documents, Delphi A / Corporate, Engineering Design Standard - Section A2**. For cross-reference **Section A3** is the Delphi Corp. TcEng naming standards.

In the below image find a basic attempt to show cross-reference naming and revisioning for UG-NX native and the TcEng PDM structure. This can be reviewed with Delphi Corp. Engineering Design Standard - **Section A2 & A3** for clarity. See below and page 14.



My Navigator - Teamcenter for engineering process management

File Edit View Tools Desktop Help

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Teamcenter Home

My Navigator PSE

TcEng CAD revision structure & naming

Home

TcEng Naming

- 23456780:ASM TcEng Naming
 - 23456780:view
 - 23456780/001:ASM TcEng Naming
 - 23456780/002:ASM TcEng Naming
 - 23456780/002
 - 23456780-DWG01
 - 23456780/002:view
 - 23456780/003:ASM TcEng Naming
- 34567890:COM1 TcEng Naming
 - 34567890/001:COM1 TcEng Naming
 - 34567890/002:COM1 TcEng Naming
 - 34567890-DWG01
 - 34567890/002
 - 34567890/003:COM1 TcEng Naming
- 34567891:COM2 TcEng Naming
 - 34567891/001:COM2 TcEng Naming
 - 34567891/001
- 34567892:SUB1 TcEng Naming
 - 34567892:view
 - 34567892/001:SUB1 TcEng Naming
 - 34567892/002:SUB1 TcEng Naming
 - 34567892/003:SUB1 TcEng Naming
 - 34567892/003
 - 34567892-DWG01
 - 34567892/003:view
- 34567893:COM3 TcEng Naming
 - 34567893/001:COM3 TcEng Naming
 - 34567893/002:COM3 TcEng Naming
 - 34567893/002
- 34567894:COM4 TcEng Naming
 - 34567894/001:COM4 TcEng Naming
 - 34567894/001

Newstuff

Export

File Edit View Favorites Tools H >>

Back > > Search >>

Address 3\Desktop\Export Go Links >>

Name

- 23456780.002.prt
- 23456780.DWG01.P.002.prt
- 34567890.002.prt
- 34567890.DWG01.P.002.prt
- 34567891.001.prt
- 34567892.003.prt
- 34567892.DWG01.P.003.prt
- 34567893.002.prt
- 34567894.001.prt

CAD native naming convention