



### EnterWorks 10.x How to Refresh the DEV or QA Database from PROD

Revised 5/5/2019

### Winshuttle

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#### 1 Notices

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#### 1.1 Trademarks

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All icons and graphics, with the exception of the "e." logo, were obtained from West Coast Icons and Design at http://www.bywestcoast.com.

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### 2 Document Conventions

This EnterWorks document uses the following typographic conventions:

Convention	Usage	
pathnames	Pathnames are shown with backslashes, as for Windows systems.	
Courier New font	Denotes sample code, for example, Java, IDL, and command line information. May be used to denote filenames and pathnames, calculations, code samples, registry keys, URLs, messages displayed on the screen.	
	If <i>italicized</i> and in angle brackets (< >), it denotes a variable.	
Calibri Font (bold)	When used in body text, it denotes an object, area, list item, button, or menu option within the graphical user interface; or a database name or database-related object. (Examples: the <b>Save</b> button; the <b>Product</b> tab; the <b>Name</b> field; the <b>SKU</b> repository)	
	Can also be used to denote text that is typed in a text box. (Example: Type " <b>trackingNo</b> " in the Name field)	
<u>Blue underlined</u> <u>text</u>	Words, phrases or numbers in blue are active links that can be clicked. Clicking these active links will bring the user to the required information, steps, pages chapters, or URL.	



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#### 3 Document Terminology

This document uses the following terminology:

Convention	Usage
"EnterWorks" and "Enable"	The EnterWorks Enable product is now referred to simply as "EnterWorks". Some system components and images in this document may still retain the name "Enable".
"master" and "slave"	In computing environments, the term "master" has historically been used to describe a process that controls other processes. The controlled processes have been referred to as "slaves". Precisely does not find these terms acceptable. We are in the process of replacing them with "controller" and "workers" in our documentation, displayed content, and underlying architecture. In the meantime, for further information or instructions on changing the terms in is played content, please contact your EnterWorks account representative.

#### 4 Overview

This document contains the step by step instructions that must be followed to refresh a DEV/QA Enable environment from a backup of the PROD Enable databases.

At a high level, the following steps must be performed:

- 1. Backup the Environment-specific data in the DEV/QA data model to files.
- 2. Optionally Export all DAMMaster records to a file.
- 3. Backup the Environment-specific data in the EPIM and EPX databases to files.
- 4. Backup the Enable databases for DEV/QA (as a safety precaution)
- 5. Backup the Enable databases for PROD
- 6. Restore the PROD Enable databases into the DEV/QA database.
- 7. Restore the Environment-specific data to EPIM and EPX databases from files
- 8. Restore the Environment-specific data in DEV/QA from the files.
- 9. Cleanup Interactive EPX Workflows
- 10. Optionally Restore the DAMMaster records from file
- 11. Optionally Replace the DAMRoot files in DEV/QA from PROD

Details for each of these steps are provided in the following sections.

#### 5 Backup the Environment-specific Data in DEV/QA to Files

The following list of repositories may contain environment-specific data that needs to be restored once the backup of the Enable PROD database has been restored to the Enable DEV/QA database:

Repository	Possible Localization Needed		
DAMConfig	Some of the entries contain environment-specific settings:		
	<ul> <li>SourceFolder – if set to network directory</li> <li>DestinationFolder – if set to network directory</li> <li>UNCPath – if set to network directory</li> </ul>		
	<ul> <li>DamAssetURL – points to environment-specific location</li> <li>DamAssetPath – if set to network directory</li> <li>EPIMURL – points to environment-specific location</li> </ul>		
	<ul> <li>DamTempFolder – if set to network directory</li> <li>SourceFolderOnDemand – if set to network directory</li> </ul>		
DAMVariants	The attribute Output Path may point to a network directory		
DAMMaster	(only if the DEV/QA DAMRoot is NOT going to be refreshed)		



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Repository	Possible Localization Needed		
Scheduled Exports	Some attributes may have environment-specific settings:		
	<ul> <li>Postprocess Values – if Post-Processing is configured, some parameters may have environment-specific settings, such as a network directory</li> <li>Target Path – if Target Type=File, FTP, or S3 AND if set to network directory</li> <li>Target Email – if Target Type=Email AND addresses are specific to environment</li> <li>Target FTP – if Target Type=FTP and ftp server is unique to environment</li> <li>Target FTP Port – if Target Type=FTP and FTP server uses different port for each environment</li> <li>Target FTP User – if Target Type=FTP and credentials are environment-specific</li> <li>Target FTP User Password – if Target Type=FTP and credentials are environment-specific</li> <li>Target S3 Access Key – if Target Type=S3 and credentials are environment-specific</li> <li>Target S3 Is Role Based Auth - if Target Type=S3 and credentials are environment-specific</li> <li>Target S3 Endpoint - if Target Type=S3 and S3 location is environment-specific</li> <li>Target S3 Region - if Target Type=S3 and S3 location is environment-specific</li> </ul>		
	<ul> <li>Email To – if specified and addresses are environment-specific</li> </ul>		



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Repository	Possible Localization Needed		
Scheduled Imports	Some attributes may have environment-specific settings:		
Scheduled Imports	<ul> <li>Some attributes may have environment-specific settings:</li> <li>Preprocess Values – if Pre-Processing is configured, some parameters may have environment-specific settings, such as a network directory</li> <li>Import Directory Name – if set to network directory</li> <li>Source FTP – if Source Type=FTP and FTP server is environment-specific</li> <li>Source FTP Port – if Source Type=FTP and FTP server is environment-specific</li> <li>Source FTP User – if Source Type=FTP and FTP server credentials environment-specific</li> <li>Source FTP User – if Source Type=FTP and FTP server credentials environment-specific</li> <li>Source FTP User – if Source Type=FTP and FTP server credentials environment-specific</li> <li>Source FTP User Password – if Source Type=FTP and FTP server location is environment-specific</li> <li>Source FTP Path – if Source Type=FTP and FTP server location is environment-specific</li> <li>Source FTP List Gaps – if Source Type=FTP and FTP server location is environment-specific</li> <li>Source S3 Access Key – if Source Type=S3 and S3 credentials are environment-specific</li> <li>Source S3 Is Role Based Auth – if Source Type=S3 and S3 location is credentials are environment-specific</li> </ul>		
	<ul> <li>environment-specific</li> <li>Source S3 Region – if Source Type=S3 and S3 location is environment-specific</li> </ul>		
	<ul> <li>Source S3 Bucket Name – if Source Type=S3 and S3 location is environment-specific</li> <li>Source S3 Path – if Source Type=S3 and S3 location is environment-specific</li> </ul>		
	<ul> <li>Email To – it specified and addresses are environment-specific</li> </ul>		
CN_Registry	If CN_Send_Email=Yes and CN _Email_To has environment-specific e- mail addresses		
	If Workflow settings CN_Property_Value references any environment- specific value		
MQ_Registry	If message queue settings are environment-specific		



Repository	Possible Localization Needed		
Configuration	If any entries are environment-specific		
Home Page/Dashboard Widgets	While not repository content, the Home Page/Dashboard Widgets might be set up differently in each EnterWorks Environment.		

The contents of each of these repositories must be saved for later restore by performing the following steps:

- 1. Open the repository in the Enable UI.
- 2. Check the All checkbox:

	Action Vilities Reports						
(							
		#	Error	Sequence	Кеу	Value	ConfigGroup
1.			Ind				
	$\leq$	1	<u>A</u>	1	SourceFolder	E:\Enterworks\Damdrop	BulkUploadService
		2	A	2	DestinationFolder	\\EnableWeb \E\$\EnterWorks\Damroot \Original	BulkUploadService
	$\sim$	3	4	3	UNCPath	\\EnableWeb \E\$\Enterworks\Damroot \Original	BulkUploadService
	$\leq$	4	A	4	ServiceStatus	true	BulkUploadService
	$\checkmark$	5	A	5	CreateSystemVariantsFron	true	BulkUploadService
	$\checkmark$	6	A	6	CreateSystemVariantsFron		UploadUI
	$\checkmark$	7	A	7	OverwriteDuplicateFromSe	true	BulkUploadService
	$\checkmark$	8	A	8	OverwriteDuplicateFromWe		UploadUI
	$\checkmark$	9	A	9	TurnOnServiceWatcherTim	true	BulkUploadService
	$\checkmark$	10	A	10	WatchTimerIntervalInSec	5	BulkUploadService
	$\checkmark$	11	A	11	DamDisplayVariant	Thumbnail	DamSettings
	$\checkmark$	12	A	12	DamDisplayVariantExtensi		DamSettings
	$\checkmark$	13	A	13	DamOriginalVariant	Original	DamSettings
	$\leq$	14	A	14	DamAssetURL	Go	DamSettings
	$\leq$	15	A	15	DamAssetPath	\\EnableWeb \E\$\Enterworks\Damroot	DamSettings
	$\checkmark$	16	▲	16	EPIMURL	Go	DamSettings
	$\sim$	17	A	17	DestinationUNCFolder	//	DamSettings
	$\sim$	18	A	18	MaxLinkCount	100	DamSettings
	$\checkmark$	19	A	19	MaxEditCount	100	DamSettings
	$\sim$	20	A	20	MaxExportCount	100	DamSettings

3. Click the export icon. The export records window appears.

4. Check the Use Advanced Options checkbox:



Export 23 record(s)		
	Message: Exporting all records based on selected criteria.	
	Export Options: © Current View	
(	○ Defined Template:	
		Next Cancel

- 5. Click Next.
- 6. Make sure Output Format is set to Excel Workbook (xlsx)
- 7. Make sure the **Preference** is set to **All Attributes**:

Export 23 record(s)		
1 Message: Exporting a	Il records based on selected criteria.	
File Name: File Encoding: Output Format: Preference:	export-DamConfig-20170416182033127	
Transmit: Effective Date:		
	Export Cancel	Reset

- 8. Click Export
- 9. Wait for the Export Job Progress prompt to show Completed:



10. Click the download file icon:

Export Job Progress	– ×
Completed	
	Close

#### 11. Select Open with Windows Explorer and click OK:

Opening export-DamConfig-20170416185310416.zip	×
You have chosen to open:	
强 export-DamConfig-20170416185310416.zip	
which is: Compressed (zipped) Folder (3.8 KB)	
from: http://enabledb	
What should Firefox do with this file?	
Open with     Windows Explorer (default)	~
○ Save File	
Do this <u>a</u> utomatically for files like this from now on.	
ОК	Cancel

12. Copy the file to a local directory for later use:

# EnterWorks<sup>®</sup>

🖳   🛃 🔚 🖛	Compressed Folder Tools	export-DamConfig-20170416185310416.zip
File Home Share View	Extract	
← → ∨ ↑ Brian Zupke →	AppData > Local > Ten	np > export-DamConfig-20170416185310416.zip
<ul> <li>✓ ✓ Quick access</li> <li>Desktop</li> <li>↓ Downloads</li> <li>☆ Documents</li> <li>➡ Pictures</li> </ul>	Name * export-Da *	Type Compressed size amConfig-2017041618531

- 13. Close the Windows Explorer window.
- 14. Click Close.
- 15. Repeat the above steps for the next repository in the list.
- 16. Stop all EnterWorks services on DEV/QA.

# 6 Backup the Environment-Specific Settings in the EPIM and EPX Databases

There are some settings in the EPIM and EPX databases that must be captured and restored after the refresh of those databases from PROD by performing the following steps:

**TODO:** Transmission Options

- 1. Using SQL Server Management Studio Query Tool open a query for the EPX database.
- 2. Execute the following query:

```
select 'update S_PROFILE_VALUE set PROFILE_VALUE_STRING = ''' + pv.PROFILE_VALUE_STRING
+
''' where PROFILE_VALUE_ID = ' + cast(pv.PROFILE_VALUE_ID as varchar)
from S_PROFILE_VALUE pv where PROFILE_VALUE_ID in (1, 4)
```

- 3. Copy the results of the query to a text editor.
- 4. Execute the following query:

```
select 'update S_SERVER SET SERVER_UID=''' + SERVER_UID + ''', NAME=''' + NAME +
''', SOAP_SERVICE_URL=''' + SOAP_SERVICE_URL + ''' WHERE SERVER_ID = 1'
from S_SERVER
```



- 5. Copy the results of the query to the same text editor
- Save contents of the text editor to file named "RestoreEPXEnvironmentSettings.sql" for later use.
- 7. Open a New Query window to the EPIM database.
- 8. Copy the following lines to a new Text Editor window:

```
-- Clear the B_SERVER_PROPERTY table (of the PROD values)
DELETE from B_SERVER_PROPERTY
SET IDENTITY_INSERT B_SERVER_PROPERTY ON
```

-- Repopulate the  $\ensuremath{\mathsf{B\_SERVER\_PROPERTY}}$  table with the original values

----- COPY RESULTS OF QUERY BETWEEN HERE -----

----- COPY RESULTS OF QUERY BETWEEN HERE -----

SET IDENTITY\_INSERT B\_SERVER\_PROPERTY OFF

```
-- Reset the SERVER_PROPERTY_ID

BEGIN

DECLARE @id INTEGER

select @id= max(SERVER_PROPERTY_ID)+1 FROM B_SERVER_PROPERTY

DBCC CHECKIDENT ('B_SERVER_PROPERTY', RESEED, @id)

END
```

9. Execute the following query:

```
select 'INSERT INTO
B_SERVER_PROPERTY(SERVER_PROPERTY_ID, PROPERTY_KEY, PROPERTY_VALUE, PROPERTY_TYPE, DESCRIPTIO
N) ' +
'VALUES('+ cast(SERVER_PROPERTY_ID as VARCHAR)+',''' + isnull(PROPERTY_KEY, 'NULL') +
''',''' +
isnull(PROPERTY_VALUE, 'NULL') +
''',''' + isnull(PROPERTY_TYPE, 'NULL') + ''',''' + isnull(DESCRIPTION, 'NULL') + ''')'
from B_SERVER_PROPERTY
```



- 10. Copy the results of the query and paste it in the text editor window between the two **COPY RESULTS OF QUERY BETWEEN HERE** lines.
- 11. Save the contents of the text editor to a file named "RestoreEPIMEnvironmentSettings.sql" for later use.

#### 7 Backup the Enable databases for DEV/QA

Since the DEV/QA databases (EPIM and EPX) are going to be restored from a backup of the PROD databases, a backup of each should be created as a safety measure. If the refresh proceeds normally, these backups will not be needed. The DEV/QA Enable services should not be running while the backup and restore operations are being performed. For details on how to back up the databases, follow the steps in the next section but while connected to the DEV/QA database instead

**Note:** The application logins for the DEV/QA databases should be verified prior to the restore from the PROD backups. The user names can be found in the

<drive>:\Enterworks\EPX\bin\conf\Enterworks.properties file. The passwords are defined in the same file but the EPX password is encrypted. Verification the user/passwords should be verified before proceeding with the refresh procedure.

#### 8 Backup the Enable databases for PROD

Backup the Enable PROD databases (EPIM and EPX) to files using SQL Server Management Studio by performing the following steps:

- 1. Log into the database server using SQL Server Management Studio.
- 2. Right-click on the EPIM PROD (e.g., **epimProd**) database and select **Tasks->Backup...** from the pop-up menu:

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😫 New Query   🕞   📸 📸 🌇   🕞   😂 层	4	a -				
: 🛃 🔩 📔 🔹 🕴 Exe	cute 🕨	■ ✓ 17 # B   17 %   00 %	1 🖾   🗄 😫   🗰 🕯			
Object Explorer 🗸 🗸	× 📝	5QLQuery1.sqln.zupke (132))*				
Connect 🕶 💐 💐 🔳 🝸 👩 🏹		else ''				
TI SOL3 (SOL Server 10 50 6000 - TL\brian zur	ikei	end as Proc3,				
E Databases	//~C.	case when (len(OBJECT_DEF	INITION (OBJECT_:			
		SUBSTRING (OBJECT_DEFINITI	ON(OBJECT_ID(is)			
		else ''				
🕀 🧻 epimDev		end as Proc4,				
🕀 🧻 epimProd	٦ II I	case when (len(OBJECT_DEF	INITION (OBJECT_:			
🚺 epimi New Database		SUBSTRING (OBJECT_DEFINITION (OBJECT_ID (is				
🕀 💆 epxD 🛛 New Query		else ''				
		end as Proc5	- I			
		Detach				
Tasks		Take Offline	-DUTINES isr			
E Repo Policies		Pring Online				
⊡ 🚺 TL_A						
⊕ Security     □     □		Shrink 🕨 🕨				
🕀 🛄 Server O 🛛 🛛 Start PowerShell	-					
🕀 🧰 Replicatio		Back Up	Table Indexes====			
Managen Reports		Restore 🕨	[			
E B SQL Server Rename	-	Mirror				
Delete			Views====================================			
	_	Launch Database Mirroring Monitor				

3. Change the **Destination** to **Disk** and click **Add**:

🧊 Back Up Database - epimPr	od		
Select a page	🛒 Script 👻 📑 Help		
General			
	Source		
	Database:	epimProd	-
	Recovery model:	FULL	
	Backup tupe:	Full	
		J. cu	
	Copy-only Backup		
	Backup component:		
	<ul> <li>Database</li> </ul>		
	C Files and filegroups:		
	Backup set		
	Name:	epimProd-Full Database Backup	
	Description:		
	Backup set will expire:		
	<ul> <li>After:</li> </ul>	0 ÷	days
Connection	O 0n:	4/16/2017	
Server:	Destination		
TLSQL3	Back up to:	Disk 🔿 🔿	Таре
Connection:			Add
View connection properties			
			Flemove
Progress			
Ready			Lontents
			OK Cancel

4. Set the file name to an accessible directory and specify and appropriate name (e.g., **EnableProd.bak**):

🧧 Select Backup Destination 🛛 🗙 🔀							
Select the file or backup device for the backup destination. You can create backup devices for frequently used files.							
Destinations on disk							
File name:							
C:\Temp\EnableProd.bak							
C Backup device:							
▼							
OK Cancel							

- 5. Click **OK**.
- 6. Wait for the backup to complete.
- 7. Repeat the above steps for the EPX database and name the backup file appropriately.

#### 9 Restore the PROD Enable databases into the DEV/QA databases.

Once the backups of the Enable PROD databases have been created, they need to be restored to the Enable DEV/QA databases by performing the following steps:

- 1. Log into the database server using SQL Server Management Studio.
- 2. Right-click on the EPIM database (e.g., **epimDev**) and select **Tasks->Restore- >Database...** from the pop-up menu:

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Kicrosoft SQL	Server Management Studio						
File Edit View	Project Debug Tools W	'indow	Community Help				
🔛 New Query 📗	a 🗠 🗠 🖓 🗛 🍃 🕻	a	<u> </u>				
Object Explorer	Object Explorer • # × SOL Query1.solp. zupke (132))*						
Connect 🕶 💷 📑			else ''				
		- lus l	end as Proc3,				
🛛 🖂 🚺 ILSQL3 (SQ	L Server IU.SU.6000 - IL(prian.zu :ec	ірке.	case when (len(OBJECT D	EFINITION(OBJECT ID(isr.rd			
	em Databases		SUBSTRING(OBJECT_DEFINI	TION(OBJECT_ID(isr.routine			
🗉 🛄 Data	abase Snapshots		else ''				
🕀 间 epir	hDau		end as Proc4,				
🛛 🗉 间 epi	New Database		case when (len(OBJECT_D	EFINITION(OBJECT_ID(isr.rd			
🚺 🚺 epi	New Query		SUBSTRING(OBJECT_DEFINI	TION(OBJECT_ID(isr.routine			
📃 🗄 🗍 🖽	Script Database as		else ''				
			end as Proc5	7			
	Tasks 🕨 🕨	De	stach	DOUTINES int			
E Rei	Policies	Ta	ike Offline	ROOTINES ISE			
🛛 🗄 🚺 Rej	Escolo	Bri	ing Opline				
🗉 间 TL_							
🕀 🧰 Securit	Start PowerShell	Sh	irink 🕨				
🛨 🧰 Berver	Reports +	Ba	ick Up				
🕀 🧰 Manage	Rename	Re	estore 🕨	Database			
🖽 🔝 SQL Se	Delete	Mi	rror	Files and Filegroups			
				Transaction Log			
	Refresh	La	unch Database Mirroring Monitor	Hansactori Edgini			
	Properties	SH	ip Transaction Logs	Stored Procedures/Functions			

3. Set the Source for Restore to From device and click ...:

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🥫 Restore Database - epimDe	¥								
Select a page	<u> S</u> Script 👻 📗	help							
General Goptions	Destination fo	r restore							
	Select or type the name of a new of existing database for your restore operation.								
	To databa	se:	ep	imDev					
	To a point	in time:	M	ost recent possi	ble				
	Source for res	tore							
	Specify the	e source and locatio	n of backuj	o sets to restore					
	C From d	atabase:	ep	oimDev					
(	From device:								
	Select the	backup sets to rest	ore:						
	Restore	Name		Component	Туре	Server	Database		
Connection									
Server: TLSQL3									
Connection: TL\brian.zupke									
View connection properties									
Progress									
Ready									
"eap"	•								
						ОК	Cancel //		

#### 4. Click Add:



🛲 Specify Backup		×
Specify the backup media and its loc	ation for your restore operation.	
Backup media:	File 🔽	
Backup location:	$\sim$	
	Add	)
	Remove	
	Contents	
	OK Cancel Help	
		//

5. Select the backup file from the Enable PROD database and click **OK**:

📒 Locate Backup File - TLSQL	3	_ 🗆 🗵
Select the file:		
C: C: C: C: C: C: C: C: C: C:	ngs nation stresh.bak	
	88343	•
Selected path:	C:\Temp	
Files of type:	Backup Files(*.bak;*.tm)	-
File name:	EnableProd.bak	
	ОК	Cancel

6. Click **OK**:



📼 Specify Backup		×
Specify the backup media and its loc	ation for your restore operation.	
Backup media:	File	
Backup location:		
C:\Temp\EnableProd.bak		Add
		Remove
		Contents
	OK Cancel	Help

7. Check the **Restore** checkbox for the listed backup set list:

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#### How to Refresh the DEV or QA Database from PROD

🧊 Restore Database - epimDe	¥						. 🗆 🗙		
Select a page	<u> S</u> cript 👻 🚺 Help								
General Poptions	Destination for restore								
	Select or type the name of a new or existing database for your restore operation.								
	To database:	epimDe	ev				•		
	To a point in time:	Most re	ecent possible						
	Source for restore								
	Specify the source and location of	backup set:	s to restore.						
	C From database:	epimD	ev				~		
	From device:	C:\Ten	np\EnableProd.	.bak					
	Select the backup sets to restore:						_		
	Restore Name		Component	Туре	Server	Database	Pos		
	PpimProd-Full Databas	e Backup	Database	Full	TLSQL3	epimProd	1		
Connection									
Server: TLSQL3									
Connection: TL\brian.zupke									
View connection properties									
Progress									
Ready									
1945 Y							▶		
					OK	Cance	el		
							//		

8. Click **Options** and check the **Overwrite the existing database** checkbox:

🥫 Restore Database - epimDe	Y								
Select a page	<u> S</u> cript 👻 📑 Help								
General Dptions	Restore options								
	epimDev	Rows Data	F:\Microsoft SQL Server\MSSQ						
	epimDev_log	Log	G:\Microsoft SQL Server\MSSQ						
	Recovery state     Eave the database ready to use by rolling back uncommitted transactions. Additional     transaction logs cannot be restored.(RESTORE WITH RECOVERY)								
Server:	transaction logs can be restore	donal, and do not foll d.(RESTORE WITH I	NORECOVERY)						
Connection: TL\brian.zupke	<ul> <li>Leave the database in read-on actions in a standby file so that</li> </ul>	ily mode. Undo uncorr t recovery effects can	mitted transactions, but save the undo be reversed.(RESTORE WITH STANDBY)						
View connection properties	Standby file:								
Progress									
Ready	The Full-Text Upgrade Option rebuilt, or reset.	on server property con	trols whether full-text indexes are imported,						
			OK Cancel						

- 9. Click **OK**.
- 10. Wait for the restore to complete.
- 11. Repeat the above steps for the EPX database using the corresponding backup file.

# 10 Restore the Environment-Specific Data in the DEV/QA Databases from files

- 1. Using SQL Server Management Studio Query Tool open a query for the EPX database.
- 2. Load the SQL previously saved in the file "RestoreEPXEnvironmentSettings.sql"
- 3. Execute the SQL



- 4. Open a new query for the EPIM database.
- 5. Load the SQL previously saved in the file "RestoreEPIMEnvironmentSettings.sql"
- 6. Execute the SQL
- 7. Delete all records from the following tables (unless transferring work items from the source):
  - a. B\_WORK\_ITEM\_VERSION\_ITEM
  - b. B\_WORK\_ITEM\_VERSION
  - c. B\_WORK\_ITEM
- 8. Log into the EPIM database using SQL Server Management Studio and the user/password that was originally defined for the DEV/QA environment
- 9. Verify the EPIM tables can be accessed.
- 10. If the login fails, try the user user/password for PROD. If that succeeds change the password back to the original value for DEV/QA
- 11. Log into the EPX database using SQL Server Management Studio and the user/password that was originally defined for the DEV/QA environment
- 12. Verify the EPX tables can be accessed.
- 13. If the login fails, try the user user/password for PROD. If that succeeds change the password back to the original value for DEV/QA
- 14. Restart the EnterWorks EPIM services only.

**Warning: DO NOT** restart the EPX services until the steps in the next section have been completed. This will ensure no data is pulled from or pushed to PROD resources as the environment specific settings have not yet been restored.

#### 15. Log into Enable using the UI.

**NOTE:** All Enable users and passwords will now be the same as PROD – any users or different passwords in DEV/QA will have been removed/overwritten by the restore from PROD.

#### 11 Restore the Environment-specific data in DEV/QA from the files.

Once the Enable PROD backup has been restored to the DEV/QA database, the environmentspecific data must be restored from files created in the first section for each of the following repositories:

- DAMConfig
- DAMVariants
- DAMMaster (if not transferring the assets from PROD)
- 1. Log into the Enable UI.



- 2. Open the target repository
- 3. Click the import file icon:

EnterWorks®Enable						System Admi	inistrator
Content	💠 Home 💠 DamConfig 🗙						
	Search Hierarchy Saved Sets	Ad	tion 🔻	Utilitie	es 🔻 Reports 🔻		
<ul> <li>Staging</li> <li>Production</li> </ul>	▼ Search	A	II : 🗆	+			
DamMaster >			#	Error	Sequence	Кеу	Value
DamLink 🕨	Q Search 🔞 Clear All		1	A	1	SourceFolder	E:\Enterworks\Damdrop
DAMVariants DamConfig DamConfig DAMHierarchy	D Search Clear Ail		2	A	2	DestinationFolder	\\EnableWeb \E\$\EnterWorks\Damroot \Original
DAMVariantSizes   Automated Sort  Publication Merge			3	A	3	UNCPath	\\EnableWeb \E\$\Enterworks\Damroot \Original
Scheduled Activities			4	A	4	ServiceStatus	true
Support			5	A	5	CreateSystemVariantsFrom	n true
			6	A	6	CreateSystemVariantsFrom	1
			7	A	7	OverwriteDuplicateFromSe	true true
			8	A	8	OverwriteDuplicateFromW	e
			9	A	9	TurnOnServiceWatcherTim	true

4. Click Next:

Import	
	Select Import Type:
	Current View
	O Defined Template
	O Create Saved Set
	O Pending Content Changes
	Next Cancel

5. Click Browse:



9

3	Setup Import				
	File Name: Browse No file selected. The file upload size limit is set to 1000 MB.				
-	Options				
	File Format:  Delimited O Excel 97 - 2003 (xls) O Excel Workbook (xlsx) File Encoding: DEFAULT  Language: English				
	Save Records Imported From Source As Set				
	Saved Set Description: Send Above Saved Set To Workflow				
	Save Records In Repository but Not Imported From Source As Set				
	Saved Set Name:				
	Saved Set Description:				
) r f	<ul> <li>Advanced Options</li> <li>NOTE: Only columns with names that match the profile column names will be mapped. The file must for all of the primary key fields.</li> </ul>				
	Next Cancel				

- 6. Select the corresponding export file from the local directory that was created in the first section of this document.
- 7. Click Next:



9

Setup Import			
	File Name: Browse PreRrefreshDAMConfig.xlsx The file upload size limit is set to 1000 MB.		
•	Options		
	File Format: O Delimited O Excel 97 - 2003 (xls) O Excel Workbook (xlsx) File Encoding: DEFAULT v Language: English v		
	Save Records Imported From Source As Set Saved Set Name: [new]		
	Saved Set Description: Send Above Saved Set To Workflow		
	Save Records In Repository but Not Imported From Source As Set		
	Saved Set Name:		
N fe	Advanced Options OTE: Only columns with names that match the profile column names will be mapped. The file mu or all of the primary key fields. Next Cancel		

8. Verify all columns are mapped and click Finish:



Map Column Names to Attributes						
Update all records on partial key matching						
			Preview File			
	<b>Column Position</b>	Column Name	Repository Attribute			
	1	Sequence	Sequence ** (Primary Key 1) 🗸			
	2	Кеу	Key 🗸			
	3	Value	Value 🗸			
	4	ConfigGroup	ConfigGroup 🗸			
Preview File Back Finish Cancel Clear						

- 9. Wait for the import to complete.
- 10. Repeat the above steps for the next repository.
- 11. Update the records in the Scheduled Exports and Scheduled Imports to change the environment-specific settings to appropriate values for the DEV/QA environment.

**Note:** Scheduled Exports and Scheduled Imports may have environment-specific settings in different attributes, such as the target attributes, import directory, pre-/post-processing arguments, etc. The records in the two repositories must be reviewed (attribute by attribute) for any environment-specific settings and then updated to the appropriate values for DEV/QA. The exports previously generated from the DEV/QA environment can be used as a reference but will not necessarily be a complete list of environment-specific settings that need to be updated. For example, a Scheduled Export or Scheduled Import with environment-specific settings may have been defined only in PROD and not DEV/QA – for these there will be no exact reference that can be used to restore the environment-specific values.

It is also possible that the Scheduled jobs in the restored DEV/QA environment are not to be scheduled at the same frequency as PROD or even at all. Each job that is configured to be scheduled must be reviewed and updated as appropriate for the DEV/QA environment.

12. Stop and Restart all EnterWorks Services

# EnterWorks<sup>®</sup>

### 12 Cleanup Interactive EPX Workflows

If there are interactive workflows in EPX and the workflows (with work items) are not being migrated, then all work items, including the ones that have not completed should be purged from these workflows by performing the following steps.

- 1. Run the Design Console on the application server containing EPX and log in as user system.
- 2. Expand the Process Flows folder under the Process Modeling folder.
- 3. Shift-select all of the interactive workflows in the list.
- 4. Right-click on one of the selected workflows and select Purge Work Items...
- 5. Click the Selected radio button for In Process Flow.
- 6. Uncheck the Delete only completed work items checkbox.
- 7. Click OK.
- 8. Click Yes on the Confirm work item purge prompt.

#### 13 Replace the DAMRoot files in DEV/QA from PROD

The database restore completely replaces the contents of the DAMMaster repository, which points to files in the DAMRoot folder. Prior to the refresh, the file locations for files residing in both DEV/QA and PROD may not be in the same folder under DAMRoot. Therefore, either the DEV/QA DAMMaster repository must be restored to the values prior to the refresh from PROD, or the DEV/QA DAMRoot folder contents must be replaced with the PROD DAMRoot folder.

To restore the DEV/QA DAMRoot repository, perform the following steps:

- 1. Log into the Enable UI as an Admininstrator
- 2. Open the DAMMaster repository.
- 3. Check the All checkbox.
- 4. Click the Delete icon.
- 5. Click OK on the confirmation prompt.
- 6. Wait for all records to be deleted.
- 7. Import the DAMMaster file created prior to the refresh from PROD.

To refresh DAMRoot from PROD, performing the following steps:

- 1. Open a Remote Desktop session on EnableWeb.
- 2. Open a File Browser window and point it to the DAMRoot directory for the DEV/QA environment (the location is defined in the restored DAMConfig repository):



	a ,ıl EnableWeb	×	×				
▶   ⊇ ▶ =   Damroot - □							
File Home Share	View						
( ) ▼ ↑ ↓ This PC ▶ PIM (E:) ▶ Enterworks ▶ Damroot ∨ ♥							
🔆 Favorites	Name	Date modified	Туре	Size			
Desktop	퉬 Original	4/16/2017 6:14 PM	File folder				
〕 Downloads	🌗 Thumbnail	4/16/2017 5:05 PM	File folder				
🝊 OneDrive	🌗 WebLarge	4/16/2017 5:11 PM	File folder				
🗐 Recent places	🐌 WebSearch	4/16/2017 5:14 PM	File folder				
	🐌 WebStandard	4/16/2017 5:17 PM	File folder				
🖳 This PC	퉬 WebThumb	4/16/2017 5:03 PM	File folder				
	.DS_Store	8/3/2016 11:08 AM	DS_STORE File	11 KB			
📬 Network	🗈 web.config	8/21/2015 9:44 AM	XML Configuratio	1 KB			

- 3. Select and delete all folders in this directory. WARNING: Be absolutely sure the Windows Explorer is pointing to the DEV/QA file system before deleting any files.
- 4. Open a second Windows Explorer window and point it to the PROD DAMRoot folder (this assumes the PROD DAMRoot is network-accessible if it is not, the files will need to be transferred through any available medium):

🖳 l 💽 🔟 👳 l		Damroot			- 🗆 X
File Home Share	View				× 🕐
🔄 💿 👻 🕆 🎚 🕨 Ne	etwork 🕨 enabledb 🕨 Damroot		♥ C Search	Damroot	Q
🚖 Favorites	Name	Date modified	Туре	Size	
📃 Desktop	퉬 Original	9/7/2016 4:12 PM	File folder		
鷆 Downloads	퉬 Thumbnail	8/3/2016 11:10 AM	File folder		
🝊 OneDrive	퉬 WebLarge	10/27/2016 2:04 PM	File folder		
🗐 Recent places	🌗 WebSearch	1/27/2016 2:28 AM	File folder		
	퉬 WebStandard	1/7/2016 5:25 PM	File folder		
🌉 This PC	퉬 WebThumb	1/7/2016 5:25 PM	File folder		
	DS_Store	1/26/2017 2:40 PM	DS_STORE File	13 KB	
📬 Network	📑 web.config	8/21/2015 9:44 AM	XML Configuratio	1 KB	

- 5. Copy all folders from the PROD directory to DEV/QA (this will take a while).
- 6. Once the copy is complete, all images should correctly appear in the DAMMaster and Product repositories.