TDM (Test Data Management) Approach to sync Customer Env. for Validation & Perform Environment Check

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ca technologies

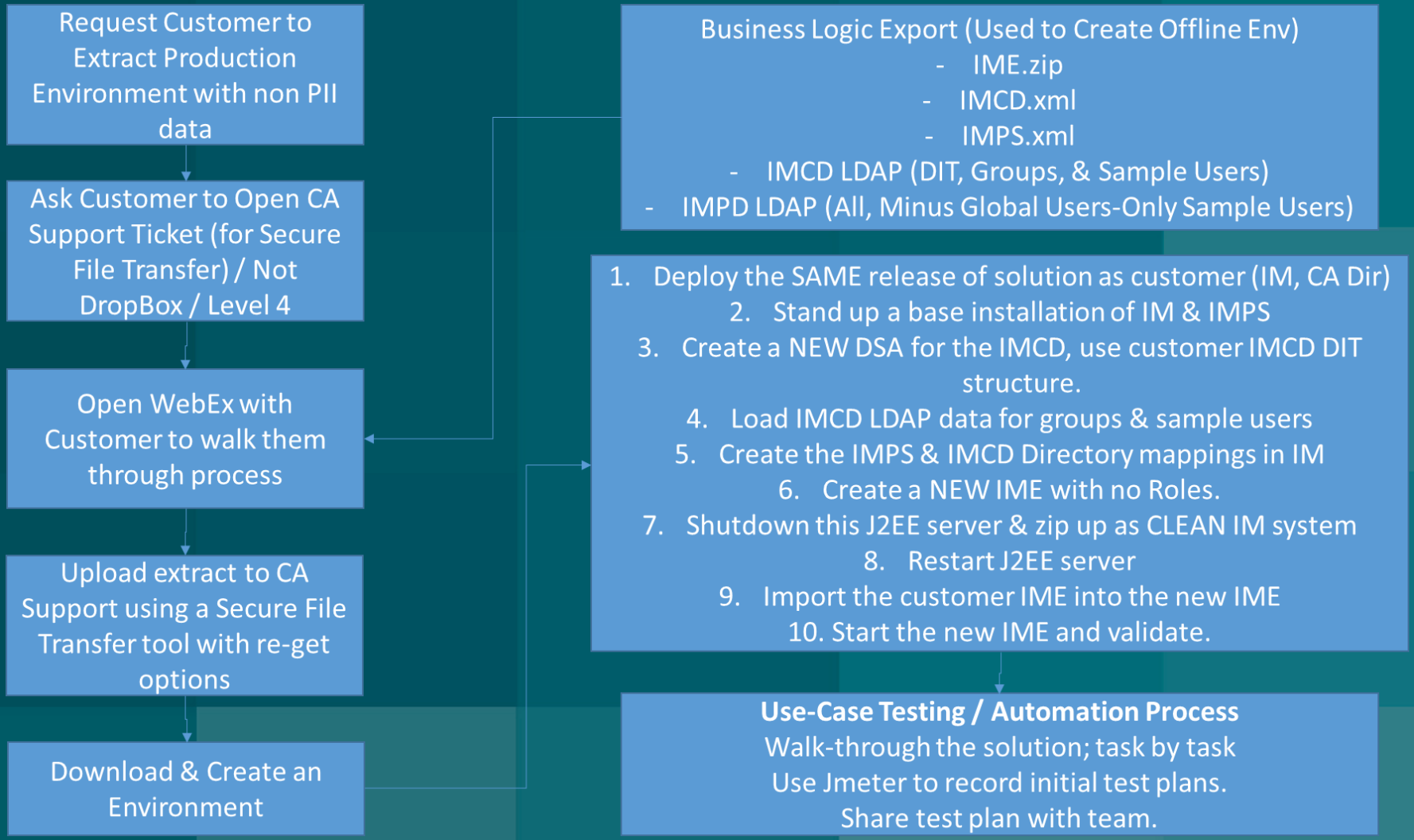
Process

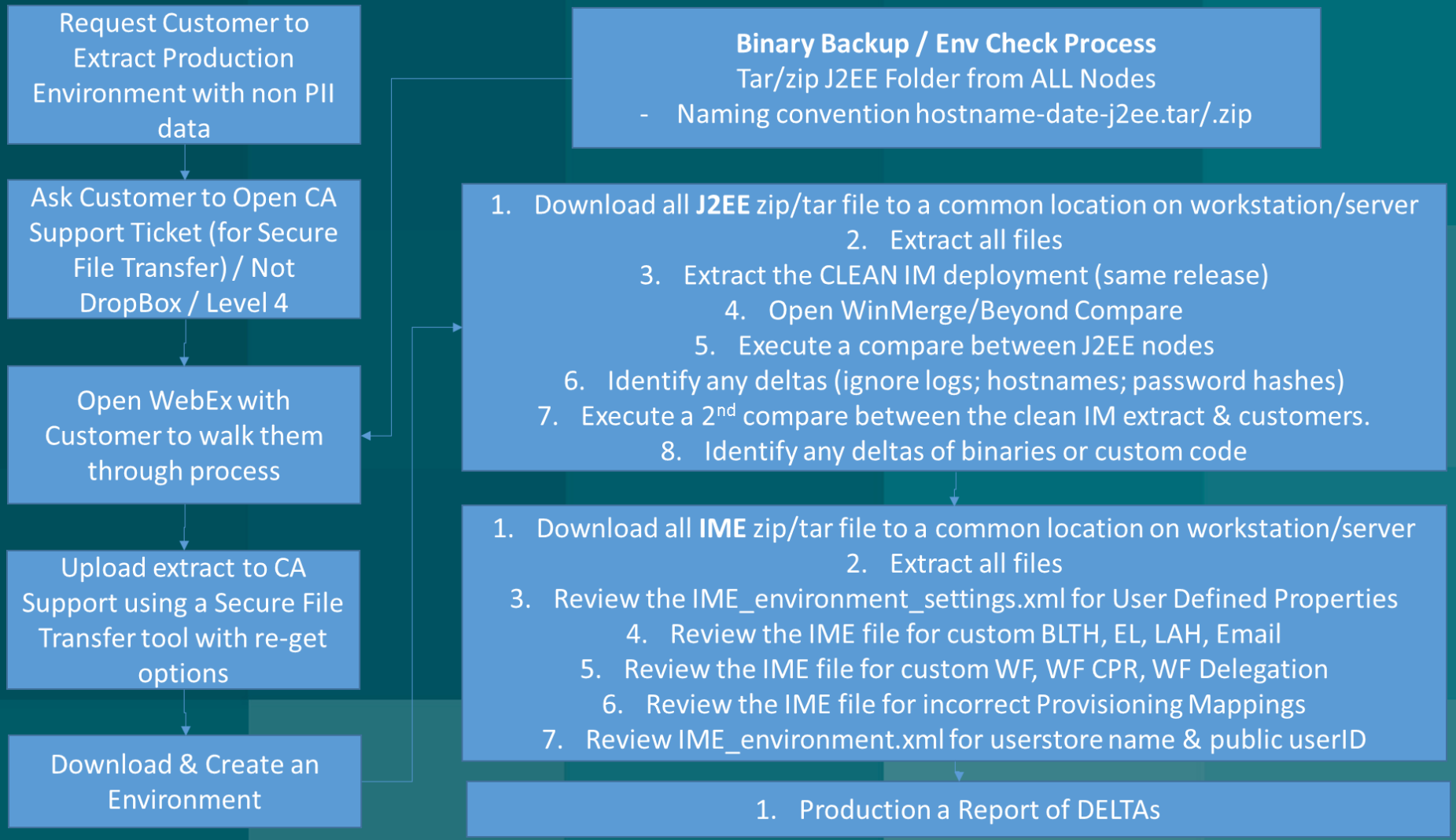
Review TDM process for
- Business Logic Export / Import

Review Health Check process
- Deployments/Installs

Three (3) Methods to Extract Corporate User Store Data

Methods to Extract Provisioning User Store Data


Request Customer to Extract Production Environment with non PII data
Ask Customer to Open CA Support Ticket (for Secure File Transfer) / Not DropBox / Level 4
Open WebEx with Customer to walk them through process
Upload extract to CA Support using a Secure File Transfer tool with re-get options
Download & Create an Environment
Business Logic Export (Used to Create Offline Env)
- IME.zip
- IMCD.xml
- IMPS.xml
- IMCD LDAP (DIT, Groups, & Sample Users)
- IMPD LDAP (All, Minus Global Users-Only Sample Users)
1. Deploy the SAME release of solution as customer (IM, CA Dir)
2. Stand up a base installation of IM & IMPS
3. Create a NEW DSA for the IMCD, use customer IMCD DIT structure.
4. Load IMCD LDAP data for groups & sample users
5. Create the IMPS & IMCD Directory mappings in IM
6. Create a NEW IME with no Roles.
7. Shutdown this J2EE server & zip up as CLEAN IM system
8. Restart J2EE server
9. Import the customer IME into the new IME
10. Start the new IME and validate.
Use-Case Testing / Automation Process
Walk-through the solution; task by task
Use Jmeter to record initial test plans.
Share test plan with team.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Download & Create an Environment
Binary Backup / Env Check Process
Tar/zip J2EE Folder from ALL Nodes
- Naming convention hostname-date-j2ee.tar/.zip
1. Download all J2EE zip/tar file to a common location on workstation/server
2. Extract all files
3. Extract the CLEAN IM deployment (same release)
4. Open WinMerge/Beyond Compare
5. Execute a compare between J2EE nodes
6. Identify any deltas (ignore logs; hostnames; password hashes)
7. Execute a 2nd compare between the clean IM extract & customers.
8. Identify any deltas of binaries or custom code
1. Download all IME zip/tar file to a common location on workstation/server
2. Extract all files
3. Review the IME_environment_settings.xml for User Defined Properties
4. Review the IME file for custom BLTH, EL, LAH, Email
5. Review the IME file for custom WF, WF CPR, WF Delegation
6. Review the IME file for incorrect Provisioning Mappings
7. Review IME_environment.xml for userstore name & public userID
1. Production a Report of DELTAs

Three (3) Methods to Extract Corporate User Store Data

Goal: Export IMCD userstore data without sensitive attributes

1. GUI
   a. Use either Jxplorer / SoftTerra LDAPBrowser / Apache Directory Studio
   b. Bind as primary user ID
   c. Export the entire tree to an LDAP file
   d. Open the LDIF file with NotePad++ and search/replace the attribute “userPassword” with NULL value
   e. Save the LDIF file.
   f. Review if any other attributes need to be removed.

2. CLI (If the userstore is built with non-CA directory solution, e.g. MS LDS/Oracle OID/SunLDAP)
   a. Use ldapsearch/dxsearch binaries
   b. Build the ldapsearch query to return ONLY the attributed required, e.g. mandatory attributes
   c. Save the LDIF file
   d. Review if any other attributes need to be removed.

3. CLI (if the userstore is built with CA Directory solution; use the EXLUDE feature of dxdumpdb command)
   a. dxdumpdb -Z -f output_file_date_timestamp_DSA_Name.ldif -x userPassword DSA_NAME
   b. dxdumpdb -Z -f output_file_date_timestamp_DSA_Name.ldif -x userPassword,IdentityPolicy,createTimestamp,modifiersName,modifyTimestamp DSA_NAME
   c. Review ../schema/corporate_store.dxc for IMCD schema to identify attributes to remove

MS ADS or MS AD LDS Userstore Extract

:: Goal: Use for TDM, DAR, Role Engineering Exercise or Lower business risk by validation with near production quality information by creating a LAB/DEV environment using Production Data
:: Use MS ADS Resource Kit tool, ldifde and csvde to export MS ADS or MS AD LDS data to LIDF and CSV formatted files

:: Before running this command replace the two (2) variables below
:: Replace Hostname of an Active Directory Domain Controller Hostname if %USERDOMAIN% does not resolve OR the MS AD LDS Server Hostname
:: Replace ADSDOMAIN with the correct base DN syntax, e.g. "DC=corp,DC=company,DC=com“ or the MS ADS LDS Base Domain Syntax.
:: This program may be execute as any currently signed in Active Directory Domain User to pull public AD data on TCP Port 389. / Use authentication for MS ADS LD Servers

```
set DCHOSTNAME=%USERDOMAIN%
set ADSDOMAIN="DC=corp,DC=company,DC=com"

:: Reorder Date field for use with filenames
FOR /F "tokens=1-5 delims=/: " %%J IN ('DATE/T') DO (SET newdate=%%M%%K%%L)
:: Reorder Time
FOR /F "tokens=1-5 delims=/: " %%J IN ('TIME/T') DO (IF "%%L"=="PM" (SET /A newtime=%%J*100+1200+%%K) ELSE (SET newtime=%%J%%K))
set ts=%newdate%_%newtime%

::CSV Extract
csvde -f %ts%_ADS_Domain_DIT_Export.csv   -s %DCHOSTNAME% -d %ADSDOMAIN% -p subtree -r "(objectcategory=organizationalUnit)"      -l "cn,objectclass,ou"
csvde -f %ts%_ADS_Users_Select_Fields.csv -s %DCHOSTNAME% -d %ADSDOMAIN% -p subtree -r "(&(objectCategory=person)(objectClass=User)(displayName=*))" -l
"cn,givenName,description,memberOf,samAccountName,sn,homeDirectory,homeDrive,primaryGroupID,uid,employeeid,userAccountcontrol,homeMTA,homeMDB"
csvde -f %ts%_ADS_Export_Groups.csv       -s %DCHOSTNAME% -d %ADSDOMAIN% -p subtree -r "(&(objectCategory=group)(objectClass=Group)(displayName=*))" -l
"cn,displayName,description,whenCreated,whenChanged,memberOf,member"
@echo Select CSV Extract of All AD DIT, Users, & Groups Complete

::LDIF Extract
ldifde -f %ts%_ADS_Domain_DIT_Export.ldif   -s %DCHOSTNAME% -d %ADSDOMAIN% -p subtree -r "(objectcategory=organizationalUnit)"       -l "cn,objectclass,ou"
ldifde -f %ts%_ADS_Users_Select_Fields.ldif -s %DCHOSTNAME% -d %ADSDOMAIN% -p subtree -r "(&(objectCategory=person)(objectClass=User)(displayName=*))" -l
"cn,givenName,description,memberOf,samAccountName,sn,homeDirectory,homeDrive,primaryGroupID,uid,employeeid,userAccountcontrol,homeMTA,homeMDB"
ldifde -f %ts%_ADS_Export_Groups.ldif       -s %DCHOSTNAME% -d %ADSDOMAIN% -p subtree -r "(&(objectCategory=group)(objectClass=Group)(displayName=*))" -l
"cn,displayName,description,whenCreated,whenChanged,memberOf,member"
@echo Select LDIF Extract of All AD DIT, Users, & Groups Complete
pause
```

LDIFDE/CSVDE

Methods to Extract Provisioning User Store Data

Goal: Export IMCD userstore data without sensitive attributes

1. CLI (IMPD is built with CA Directory solution; use the EXLUDE feature of dxdumpdb command)
   a. IMPD (Health Check ; remove all Passwords from export)

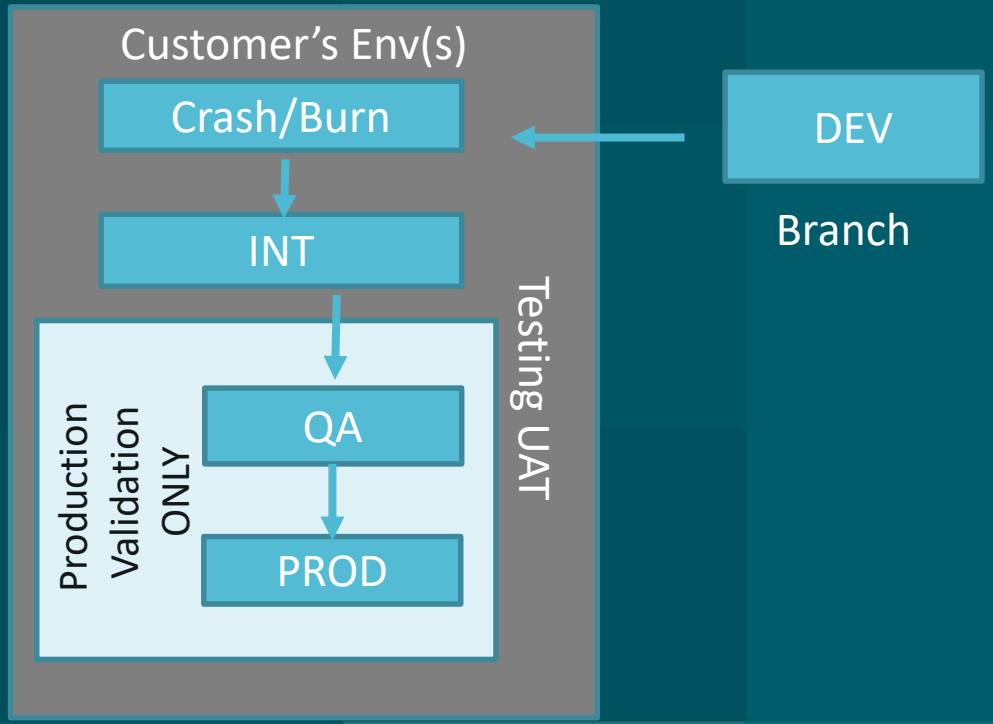
dxdumpdb -Z -f output_file_date_timestamp_DSA_Name.ldif -x eTPassword,eTEncryptedPassword,eTExitAuthPassword,eTSelfAdminPassword,eTPreviousPassword,eTPropagatePassword,eTIMPasswordData,eTSyncPassword,eTPropagatePassword,eTPSAgentChangePassword,eTTestPassword DSA_NAME

   b. IMPD (H/C; remove primary Passwords)

dxdumpdb -Z -f output_file_date_timestamp_DSA_Name.ldif -x eTPassword,eTEncryptedPassword DSA_NAME

c. Review ../schema/etrust_admin.dxc for IMPD schema to identify attributes to remove

TDM Snapshot processes & Extract Delta



1. SNAPSHOT - Automate every Day with time/date stamp
   a. IM [IME.zip, IMCD.xml, IMPS.xml]
   b. IMPS [LDIF (dxdumpdb –z & LDIF extract)]
   c. IMCD [LDIF (dxdumpdb –z & LDIF extract)]
2. Export NEW Business Logic (PRIOR ENV) - Automate every Day (or manual with Config Xpress & ldifdelta)
   a. IM [IME XML DELTA]
      a. MX/PX Rules (ENV)
      b. IM Screens, Tasks, Roles, Managed Objects
   b. IMPS [LDIF DELTA]
      a. IMPS Prov Roles / Account Templates / Endpoints (ENV)
3. Convert ENV variables to NEXT ENV - Manual Activity / or Automated with Kettle/Scripts/etc.
   1. IM [IME XML DELTA]
   2. IMPS [LDIF DELTA]
4. SNAPSHOT – NEXT ENV - Automate every Day with time/date stamp
5. Push DELTA Business Logic to NEXT ENV
6. SNAPSHOT – NEXT ENV & PERFORM DELTA CHECK
   1. May Automate every Day with time/date stamp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