

# CE Feed Documentation - DRAFT

- Current Near Real Time CE Feed Process (Tivoli Assembly Line, TDI V7.1.1)
  - Data Requirements
  - Process Steps
- Current Nightly TEIS Process
- New Near Real Time CE Feed Process

## Current Near Real Time CE Feed Process (Tivoli Assembly Line, TDI V7.1.1)

Production Servers	Non-Production Servers	Path to Assembly Line (AL)	AL Configuration File Name	Path to Log File
prd-was3.temple.edu prd-was4.temple.edu	np-was3.temple.edu np-was4.temple.edu preprod-was3.temple.edu preprod-was4.temple.edu	/opt/IBM/TDI/V7.1.1/ceFeed/	ceFeed.xml	/opt/IBM/TDI/V7.1.1/logs/ceFeed.log

## Data Requirements

### Required Fields - GPSYNCH\_USER.IAM\_CEROLES\_CT Column to LDAP Attribute Mapping

Oracle Table Column Name	Corresponding LDAP Field	Notes/Comments
FIRSTNAME	givenName	First Name
LASTNAME	sn	Last Name
CETYPE	templeEduRole	Provisioning Level
BIRTHDATE	templeEduDateOfBirth	Date of Birth
EXPIRATIONDATE	(not in LDAP)	Provisioning Expiration Date
ACCESSNET	uid	AccessNet Username
CEROLE_PIDM	(not in LDAP)	Banner Unique Identifier

### Required Fields - LDAP Samba Account (objectClass=sambaSamAccount)

LDAP Attribute	Value Set by AssemblyLine	Notes/Comments
sambaAcctFlags	"[U     ]"	
sambaPwdLastSet	"-1"	
sambaSID	"S-1-5-21-1671181371-3057104424-2529773789-" + (uidNumber + uidNumber + 100)	uidNumber is a value that is generated in the PostgreSQL database

### Required Fields - LDAP POSIX Account (objectClass=posixAccount)

LDAP Attribute	Value Set by AssemblyLine	Notes/Comments
loginShell	"/bin/bash"	
gidNumber	uidNumber	
uidNumber	uidNumber	

homeDirectory	LDAP home directory	
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## Process Steps

For each row on Oracle table GPSYNCH\_USER.IAM\_CEROLES\_CT, the following steps are performed.

### I. Retrieve Data from GPSYNCH\_USER.IAM\_CEROLES\_CT

1. Connect to Banner database instance, specific to GPSYNCH\_USER.IAM\_CEROLES\_CT table.
  - a. If successful, continue.
  - b. If error occurs, end assembly line execution and print error message(s).
2. Retrieve [required data](#) from table GPSYNCH\_USER.IAM\_CEROLES\_CT.
  - a. If the values of any of these is null or an empty string, skip all subsequent steps for this row

### II. Determine if Account Exists

1. Query Enterprise LDAP to see if account already exists.
  - a. If the person does exist, proceed to step 1 in next section.
  - b. If the person does not exist, perform the following:
    - i. Generate new TUNIC.
    - ii. While not certain whether or not the TUNIC generated is already in LDAP:Check to make sure TUNIC does not already exist in LDAP.
      1. If it does exist, skip to end of the loop.
      2. If it does not exist, continue and set loop exit criteria.
    - iii. While there is not a confirmed available uidNumber:
      1. Generate new uidNumber in PostgreSQL database.
    - iv. Check to make sure uidNumber does not already exist in LDAP.
      1. If it does exist, update PostgreSQL with next uidNumber (current uidNumber plus one).
      2. If it does not exist, continue and set loop exit criteria.
    - v. Lookup LDAP home directory in PostgreSQL database.If successful:
      1. If found, then set home directory variable value and set flag that indicates whether or not this value exists to one (i.e. true).
      2. If not, the flag value remains zero (i.e. false).
      3. If unsuccessful, print error message.
    - vi. Set the rest of the [required Samba attributes](#) and [required Posix attributes](#).

### III. Retrieve Active Roles from GORIROL

1. Initialize roles list and declare that it is of type **eduPersonAffiliation**.
2. Look up person's active roles and role groups in GORIROL table.
3. For each role returned, add it to the roles list.
4. Check to see which role is the account's primary role and set the LDAP attribute **eduPersonPrimaryAffiliation** to equal that role.

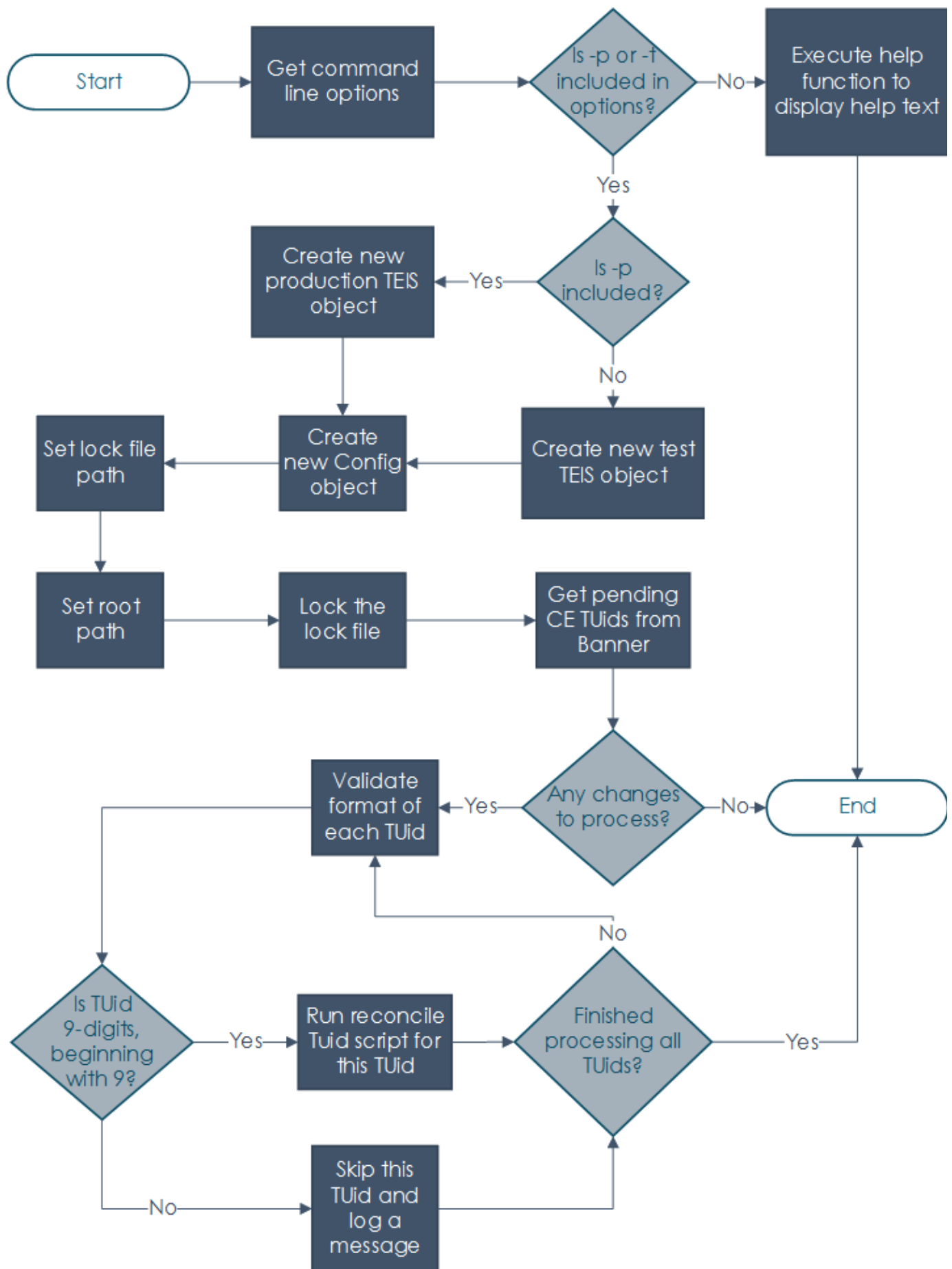
### IV. Create or Update Account

1. Create XML using the values obtained in previous steps.
2. Load XML to Tivoli to create or update the account.

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## Current Nightly TEIS Process

The current TEIS process follows the steps in the process flow diagram below.



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## **New Near Real Time CE Feed Process**

The proposal is that the new CE Feed process will follow the steps listed below.