**CCO eCoaching DB Unit Test Document**

* **Employee Hierarchy Load process**

September 25, 2017

Change History Log

| Date | Revision | Change Description | Author |
| --- | --- | --- | --- |
| 06/30/2014 | 1.0 | SCR – 12892 - move updates for Migrated Users above the employee ID To table Update | Susmitha Palacherla |
| 07/25/2014 | 2.0 | SCR – 12893 – Fix Employee ID To Lan ID Process | Susmitha Palacherla |
| 11/6/2014 | 3.0 | SCR – 13759 – Handle apostrophes in Names and Email Addresses | Susmitha Palacherla |
| 09/03/2015 | 4.0 | TFS – 641 – Trim leading and Trailing spaces in Employee and Supervisor Ids in feeds. | Susmitha Palacherla |
| 05/18/2016 | 5.0 | TFS - 2332 – Supplementary file for HR Employees | Susmitha Palacherla |
| 03/22/2017 | 6.0 | TFS - 6011 – Support Reused numeric part of Employee Ids | Susmitha Palacherla |
| 09/22/2017 | 7.0 | TFS 8228 - Revised logic for supporting Re-used Ids and additional attributes in feed | Susmitha Palacherla |

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## SCR 12892 Update Employee\_Hierarchy Load process

To move updates for Migrated Users above the employee ID To table Update

| Item | Description |
| --- | --- |
| Change Type | Problem Fix |
| Change Description | The Employee\_Hierarchy Load process is failing on the update to the Employee ID To Lan ID process step. This is causing the updates for Migrated users step that follows it to not execute. Package has been updated to move the steps around. |
| Test Environment | eCoaching\_Dev database on vrivfssdbt02\scord01,1437 |
| Code Modules created/updated | Package - Employee\_Hierarchy.dtsx  Procedure - [EC].[sp\_Update\_Migrated\_User\_Logs] updated  to remove updates to Employee ID To Lan ID table until correct logic can be identified. |
| Code doc | CCO\_eCoaching\_EmployeeHierarchy\_Load.sql |
| Notes | Tested a load and the updates to 1 users Coaching logs |

| TEST# | ACTION | EXPECTED RESULTS | RESULTS  P/F/I | COMMENTS |
| --- | --- | --- | --- | --- |
| 1.1 | Ran SQL agent Job Employee\_Hierarchy | To fail on step Employee ID TO lan ID step which is the final step of the load process. | P |  |
| 1.2 | Select \* FROM [EC].[Coaching\_Log]  where cSR ='paynde' | The eCL logs having CSR value ‘paynde’ | P | 4 Logs returned |
| 1.3 | Update record for debra payne in the PS Employee file to update lanid to debra.payne from ‘paynde’ and run Load. Rerun query from test#2. | 0 records returned | P |  |
| 1.4 | Select \* FROM [EC].[Coaching\_Log]  where cSR ='debra.payne' | 4 Coaching Logs | P |  |

## SCR 12983 - Fix employee ID To LAN ID Process

| Item | Description |
| --- | --- |
| Change Type | Problem Fix |
| Change Description | The Employee\_Hierarchy Load process is failing on the update to the Employee ID To Lan ID process step. The logic for the initial population of the table and maintenance has been revised to use a different approach.  The Employee Hierarchy table had to be cleaned up prior to Populating and maintaining the Employee ID TO lan ID Table.  The cleanup steps are documented in a different document.  This unit test case is only for the Ongoing maintenance of the Employee ID TO Lan ID table.  4 scenarios are addressed as part of the update process.   * Assign End date for Employee ID To lan ID pairs for Termed employees * Insert records for new Employees * Insert a new record for a changed Employee ID To Lan ID pair * Insert an employee ID To lan ID link record for a Re Hire |
| Test Environment | eCoaching\_Dev database on vrivfssdbt02\scord01,1437 |
| Code Modules created/updated | PROCEDURE [EC].[sp\_Update\_EmployeeID\_To\_LanID] |
| Code doc | CCO\_eCoaching\_EmployeeHierarchy\_Load.sql |
| Notes | Manually edited Employee records in the Employee\_Hierarchy and Employee\_Hierarchy\_Staging tables to  Verify that the updates were happening as expected for each of the above 4 scenarios. |

| TEST# | ACTION | EXPECTED RESULTS | RESULTS  P/F/I | COMMENTS |
| --- | --- | --- | --- | --- |
| 2.1. | Testing setting of End Date in LAN ID Table  Setup a record to meet the term scenario  Update [EC].[Employee\_Hierarchy]  set [End\_Date]= 20140725  ,[Active]='T'  where Emp\_ID = '345712'  Do pre update check on record  SELECT \*]  FROM [EC].[EmployeeID\_To\_LanID]  where EmpID = '345712'  GO  -- Pre Test Enddate = 99991231  Run the update part 1 from PROCEDURE [EC].[sp\_Update\_EmployeeID\_To\_LanID]  SELECT \*]  FROM [EC].[EmployeeID\_To\_LanID]  where EmpID = '345712'  GO  -- Pre Test Enddate = 99991231 | Post Test Enddate = 20140725 | P | Repeated test with an Employee having 2 open ended records. One for VNGt and one for AD.local.  Both got end dates set on terming employee.  SELECT \*  FROM [EC].[EmployeeID\_To\_LanID]  where EmpID = '220444'  order by EmpID  --2 open ended rows  pdate [EC].[Employee\_Hierarchy]  set [End\_Date]= 20140725  ,[Active]='T'  where Emp\_ID = '220444'  Run the update part 1 from PROCEDURE [EC].[sp\_Update\_EmployeeID\_To\_LanID]  Re-Run initial select  --0 open ended rows  -- end date is sys date |
| 2.2 | Test for Insert of new Employee ID  Pre test count of total records in table  select COUNT(\*) from  [EC].[EmployeeID\_To\_LanID]  -- 41837  Updated an employee ID in Employee Hierrachy table to 777777  Update [EC].[Employee\_Hierarchy]  set [Emp\_ID]= '777777'  ,[Emp\_LanID]= 'My.Test'  where Emp\_ID = '1114580'  Ran part of the procedure that does the insert  Post test count of total records in table  select COUNT(\*) from  [EC].[EmployeeID\_To\_LanID]  -- 41838  SELECT \*  FROM [EC].[EmployeeID\_To\_LanID]  where EmpID = '777777'  order by EmpID | 1 new record to be inserted into the E2L table.  I record for Emp ID ‘777777’ and lan id ‘My.Test’  With start an End dates of the Employee from the Hierarchy table. | P |  |
| 2.3 | Insert new record for new lan id for existing employee  Update a record in the lan table to have the old convention Vangent id  update [EC].[EmployeeID\_To\_LanID]  set LanID = 'palasu'  where EmpID = '345712'  (record originally had susmitha.palacherla)  Running the insert part of the procedure  Queried E2L table for employeeid 345712  SELECT [EmpID]  ,[StartDate]  ,[EndDate]  ,[LanID]  ,[DatetimeInserted]  ,[DatetimeLastUpdated]  FROM [EC].[EmployeeID\_To\_LanID]  where EmpID = '345712'  order by EmpID | 2 rows returned.  I existing for VNGT account  And one newly inserted for AD.local account both having open ended end dates. | P |  |
| 2.4 | Test for ReHire Insert  Pick an employee record E2L that has no open ended end date  Picked Employee ID 234158 from E2L  SELECT [EmpID]  ,[StartDate]  ,[EndDate]  ,[LanID]  ,[DatetimeInserted]  ,[DatetimeLastUpdated]  FROM [EC].[EmployeeID\_To\_LanID]  where EmpID = '234158'  Only 1 record with End date 20140414  Updated record in Employee table to set Active to ‘A’ and Open ended End date  Update [EC].[Employee\_Hierarchy]  set End\_Date = 99991231  ,[Active]= 'A'  where Emp\_ID = '234158'  Ran insert for rehire | 1 new record inserted in E2L table with | P |  |

## SCR 12759 Handle apostrophes in Name and Email attributes

| Item | Description |
| --- | --- |
| Change Type | Problem Fix |
| Change Description | The Employee records coming from PeopleSoft have apostrophes in name and email attributes which is causing issues in the dashboard and review pages. This SCR removed the aspostrophes from name attribute and doubles them in email address while updating and or inserting from staging table into employee Hierarchy table. |
| Test Environment | eCoaching\_Dev database on vrivfssdbt02\scord01,1437 |
| Code Modules created/updated | Procedure - [EC].[sp\_Populate\_Employee\_Hierarchy] |
| Code doc | CCO\_eCoaching\_EmployeeHierarchy\_Load.sql |
| Notes | Tested a load and the updates to 1 users Coaching logs |

| TEST# | ACTION | EXPECTED RESULTS | RESULTS  P/F/I | COMMENTS |
| --- | --- | --- | --- | --- |
| 3.1 | Run pre update check for counts  SELECT count(\*)  FROM [eCoachingDev].[EC].[Employee\_Hierarchy]  --where [Emp\_Name] like '%''%'  where [Emp\_Email] like '%''%'  GO | Name attributes with apostrophes – 188  Email addresses with apostrophes - 43 | P |  |
| 3.2 | Run Employee load and recheck  SELECT count(\*)  FROM [eCoachingDev].[EC].[Employee\_Hierarchy]  --where [Emp\_Name] like '%''%'  where [Emp\_Email] like '%''%'  GO | Name attributes with apostrophes – 75  Email addresses with apostrophes – 25  (18 email addresses and 113 names updated during load with values from staging table. | P |  |
| 3.3 | UPDATE [EC].[Employee\_Hierarchy]  SET [Emp\_Email] = Replace([Emp\_Email],'''','''''')  WHERE [Emp\_Email] not like '%''''%'  and [Emp\_Email] like '%''%'  recheck After Making above manual update  select \* from [EC].[Employee\_Hierarchy]  WHERE [Emp\_Email] not like '%''''%'  and [Emp\_Email] like '%''%' | 0 records returned | P |  |
| 3.4 | UPDATE [EC].[Employee\_Hierarchy]  SET [Emp\_Name] = Replace([Emp\_Name],'''', '')  WHERE [Emp\_Name] like '%''%'  recheck After Making above manual update  select \* from [EC].[Employee\_Hierarchy]  WHERE [Emp\_Name] like '%''%' | 0 records returned | P |  |

## TFS 641 – Trim leading and Trailing spaces in Employee and Supervisor Ids in feeds.

| Item | Description |
| --- | --- |
| Change Type | Problem Fix |
| Change Description | The Employee records coming from eWFM and PeopleSoft may have leading and trailing spaces in Employee Ids that results in mismatch of Ids from the UI code since UI is sensitive to the leading and trailing spaces. Instead of relying on the source systems to enter data correctly, this will be a proactive step to trim the Ids before use in the employee Hierarchy table. |
| Test Environment | eCoaching\_Dev database on vrivfssdbt02\scord01,1437 |
| Code Modules created/updated | PROCEDURE [EC].[sp\_Update\_Employee\_Hierarchy\_Stage] |
| Code doc | CCO\_eCoaching\_EmployeeHierarchy\_Load.sql |
| Notes | Test Data Setup   1. Start with ensuring no Ids have leading or trailing spaces in the WFM staging table, Employee Hierarchy staging table or Employee Hierarchy table. (Run manual updates to fic any such records).   SELECT DISTINCT  [Emp\_ID]EmpID  ,LEN([Emp\_ID] + 'x') - 1  ,LEN(REPLACE(LTRIM(RTRIM([Emp\_ID])),' ',''))  ,Emp\_Job\_Code  ,[Sup\_ID]Supervisor\_1  ,LEN([Sup\_ID] + 'x') - 1  ,LEN(REPLACE(LTRIM(RTRIM([Sup\_ID])),' ',''))  ,[Emp\_Site\_Code]Site  FROM [EC].[EmpID\_To\_SupID\_Stage]  --where Emp\_ID = '224771'  where (LEN([Emp\_ID] + 'x') - 1 <> LEN(REPLACE(LTRIM(RTRIM([Emp\_ID])),' ','')))  OR  (LEN([Sup\_ID] + 'x') - 1 <> LEN(REPLACE(LTRIM(RTRIM([Sup\_ID])),' ','')))  --Should return 0 rows.  SELECT [Emp\_ID]  ,LEN([Emp\_ID] + 'x') - 1  ,LEN(REPLACE(LTRIM(RTRIM([Emp\_ID])),' ',''))  ,[Emp\_Name]  ,[Sup\_Emp\_ID]  ,LEN([Sup\_Emp\_ID] + 'x') - 1  ,LEN(REPLACE(LTRIM(RTRIM([Sup\_Emp\_ID])),' ',''))  ,[Sup\_Name]  ,[Mgr\_Emp\_ID]  ,LEN([Mgr\_Emp\_ID] + 'x') - 1  ,LEN(REPLACE(LTRIM(RTRIM([Mgr\_Emp\_ID])),' ',''))  ,[Mgr\_Name]  FROM [eCoachingDev].[EC].[Employee\_Hierarchy\_Stage]  where (LEN([Emp\_ID] + 'x') - 1 <> lEN(REPLACE(LTRIM(RTRIM([Emp\_ID])),' ','')))  OR  (LEN([Sup\_Emp\_ID] + 'x') - 1 <> LEN(REPLACE(LTRIM(RTRIM([Sup\_Emp\_ID])),' ','')))  OR  (LEN([Mgr\_Emp\_ID] + 'x') - 1 <> LEN(REPLACE(LTRIM(RTRIM([Mgr\_Emp\_ID])),' ','')))    GO  --Should return 0 rows.  SELECT [Emp\_ID]  ,LEN([Emp\_ID] + 'x') - 1  ,LEN(REPLACE(LTRIM(RTRIM([Emp\_ID])),' ',''))  ,[Emp\_Name]  ,[Sup\_ID]  ,LEN([Sup\_ID] + 'x') - 1  ,LEN(REPLACE(LTRIM(RTRIM([Sup\_ID])),' ',''))  ,[Sup\_Name]  ,[Mgr\_ID]  ,LEN([Mgr\_ID] + 'x') - 1  ,LEN(REPLACE(LTRIM(RTRIM([Mgr\_ID])),' ',''))  ,[Mgr\_Name]  FROM [eCoachingDev].[EC].[Employee\_Hierarchy]  where (LEN([Emp\_ID] + 'x') - 1 <> lEN(REPLACE(LTRIM(RTRIM([Emp\_ID])),' ','')))  OR  (LEN([Sup\_ID] + 'x') - 1 <> LEN(REPLACE(LTRIM(RTRIM([Sup\_ID])),' ','')))  OR  (LEN([Mgr\_ID] + 'x') - 1 <> LEN(REPLACE(LTRIM(RTRIM([Mgr\_ID])),' ','')))    GO  --2. Should return 0 rows.  Update records to introduce leading and trailing spaces.  Update [EC].[EmpID\_To\_SupID\_Stage]  set [Emp\_ID]= ' 239040'  Where [Emp\_ID] = '239040'  Update [EC].[EmpID\_To\_SupID\_Stage]  set [Emp\_ID]= '239045 '  Where [Emp\_ID] = '239045'  Update [EC].[Employee\_Hierarchy\_Stage]  set [Emp\_ID]= ' 224757'  Where [Emp\_ID] = '224757'  Update [EC].[Employee\_Hierarchy\_Stage]  set [Emp\_ID]= '248597 '  Where [Emp\_ID] = '248597'  3. Rerunning sql from step1 above should return 2 rows each for WFM staging and Employee hierarchy staging tables. |

| TEST# | ACTION | EXPECTED RESULTS | RESULTS  P/F/I | COMMENTS |
| --- | --- | --- | --- | --- |
| 4.1 | DECLARE @return\_value int  EXEC @return\_value = [EC].[sp\_Update\_Employee\_Hierarchy\_Stage]  SELECT 'Return Value' = @return\_value  GO  --Then rerun the 3 stms from step1 sql from test setup | All three statements should return 0 rows since all leading and trailing spaces should be removed. | P |  |
| 4.2 | Run a full regular employee load by running sql agent job  CoachingEmployeeHierarchyLoad  --Then rerun the 3 stms from step1 sql from test setup | All three statements should return 0 rows since all leading and trailing spaces should be removed. | P |  |

## TFS 2332 – Supplementary file for HR Employees

| Item | Description |
| --- | --- |
| Change Type | Change Request |
| Change Description | Process to use a supplementary file for HR team members to remove the dependency on corporate PeopleSoft team. |
| Test Environment | eCoaching\_Dev database on vrivfssdbt02\scord01,1437 |
| Code Modules created/updated | Package - Employee\_Hierarchy.dtsx  Table - [EC].[HR\_Hierarchy\_Stage]  Procedure - [EC].[sp\_Merge\_HR\_Employee\_Hierarchy\_Stage] |
| Code doc | CCO\_eCoaching\_EmployeeHierarchy\_Load.sql |
| Notes | Test setup  Have files ready to perform employee Hierarchy Load  PS employee file  Hr Employee File  eWFM Employee File  Test a load. |

| TEST# | ACTION | EXPECTED RESULTS | RESULTS  P/F/I | COMMENTS |
| --- | --- | --- | --- | --- |
| 5.1 | Ran SQL agent Job Employee\_Hierarchy to load employee Hierarchy | File should load successfully picking up the HR records from file. | P |  |
| 5.2 | Set An Active Employee in table to Inactive in HR file | Employee record should be updated to Active = ‘T’ after Hierarchy load process | P |  |
| 53 | Set An Inactive Employee in table to Active in HR file | Employee record should be updated to Active = ‘A’ after Hierarchy load process | P |  |
| 5.4 | Remove an Active Employee in table from HR File | Employee record should be updated to Active = ‘T’ after Hierarchy load process | P |  |
| 5.5 | HR File backup and remain in original directory | A copy of the file is stored in Backup directory while the original remains in original location. | P |  |

## TFS 6011 – Support Reused numeric part of Employee Ids

| Item | Description |
| --- | --- |
| Change Type | Change Request |
| Change Description | Support reuse of numeric part of employee Ids  Alpha prefix will only be retained for new Ids that share the numeric part with an existing ID |
| Test Environment | eCoaching\_Dev database on vrivfssdbt02\scord01,1437 |
| Code Modules created/updated | sp\_Update\_Employee\_Hierarchy\_Stage.sql  sp\_Update\_ETS\_Coaching\_Stage.sql |
| Code doc | CCO\_eCoaching\_EmployeeHierarchy\_Load\_Tables\_Create.sql plus above 2 files |
| Notes | Test setup  Clean  Have files ready to perform employee Hierarchy Load  PS employee file  Hr Employee File  eWFM Employee File  Test a load. |

| TEST# | ACTION | EXPECTED RESULTS | RESULTS  P/F/I | COMMENTS |
| --- | --- | --- | --- | --- |
| 6.1 | Ran SQL agent Job Employee\_Hierarchy to load employee Hierarchy.  Currently file has 1 set of ids with numeric part shared  W300207 and WV300207 | File should load successfully loading W300207 as a new employee | P | W300207 and WV300207  WV300207 is the former record  W300207 is the latter record  W300207 should be loaded as a new employee  \*ensure that the record for WV300207 (300207 ID in the EH table is for the correct person.  Run update prior to running load) |
| 6.2 | Verify that new Employee ID whose prefix is being retained is being written to the newly created Ids with prefix table | Record W300207 in table [EC].[Employee\_Ids\_With\_Prefixes] | P |  |
| 6.3 | As of this testing no other Ids should be written to table in test case 2 | Employee record should be updated to Active = ‘A’ after Hierarchy load process | F on 1st attempt  P for revised logic | Failed. 2 additional records written  On review it was found that logic being used was not right.  Was looking for different lanid for same numeric employee ID  But it appears that lanid and Name attributes for a given employee id can change and falsely be considered as new records  Fix was to add start date to the lookup and also add an additional check to make sure that emp ID did not exist in emp ID To lan ID table. |
| 6.4 | Check entries for both old and new records in emp ID To lan ID tables | Dates and status should be correct. | F on 1st attempt  P after update | Update written |
| 6.5 | Check entries for both old and new records in CSR Hierarchy tables | Dates and status should be correct. | F on 1st attempt  P after update | Update written |
| 6.6 | Run subsequent employee Load | Record with prefix retained should not be re written to Prefix ID table on subsequent loads | P |  |
| 6.7 | Repeat tests 6.3, 6.4 and 6.5 | Should see the same results as the Pass results from above tests without additional updates | P |  |
| 6.8 | Run ETS file with a record for the Employee with prefixed ID | Should load and ecl created while other Employees have prefix removed. | P |  |

## TFS 8228 – Revised logic for supporting Re-used Ids and additional attributes in feed

| Item | Description |
| --- | --- |
|  |  |
| Description | This document is used to document the test cases for the employee Hierarchy related load process. |
| Test Environment | eCoaching\_Dev database on f3420-ecldbd01 |
| SSIS Package | Package - Employee\_Hierarchy.dtsx |
| File Staging directories | \\f3420-ecldbd01\data\Coaching\EmpInfo\  \\f3420-ecldbd01\data\Coaching\HRInfo\ |
| Source Files | Employee\_Information\_WithProgram.csv  HR\_Employee\_Information.csv  PS\_Employee\_Information\_mmddccyy.csv |

| TEST# | ACTION | EXPECTED RESULTS | RESULTS  P/F/I | COMMENTS |
| --- | --- | --- | --- | --- |
| 7.1 | Run load process | Should run successfully and load files. | P |  |
| 7.2 | Verify Preferred name population | Emp\_name should show preferred attributes if provided in file. If no preferred attributes primary attributes displayed. | P |  |
| 7.3 | Verify population of additional attributes  Hire\_Date  DeptID  Dept\_Desc  Reg/Temp  Full/Part/Time | Populated for records in file.  NA for Historic records. | P |  |
| 7.4 | HR staging with 2 new fields in file  Emp\_Prefix\_ID  Hire\_date | Should load without issues including the 2 new attributes | P |  |
| 7.5 | Merging of HR file with Employee staging | Should merge to replace all WH% job code records with those from HR file. | P |  |
| 7.6 | Population of Emp\_ID\_Prefixes Table | Only those records that are truly duplicates should have an entry in this table. | P | Should have a matching record with numeric part of ID in employee table  The Full emp ID should not equal the Full emp ID of record already in table  Should not already exist in prefix table  Numeric part should already exist in Emp\_ID\_To\_Lan\_ID table  WA345712  WB345712  WC345712  WY345712 |
| 7.7 | Population of historical attributes from History table | Should populate if match on numeric part of empid and first or last name match | P | 345712 |
| 7.8 | PrefixID and Start date for EmpID 999999 | WW999999 and 20000101 | P | Random values |
| 7.9 | Name and lanid updates | If record matching on full id and hire\_date has updated name and or lanid, record needs to be updated. | P |  |
| 7.10 | [EC].[fn\_strEmpFirstNameFromEmpName] ('Wilson, Jimmie W') | Parse First name correctly  Jimmie | P | Wilson, Jimmie W  Verify by querying entire name col and do a quick review |
| 7.11 | [EC].[fn\_strEmpLastNameFromEmpName] ('Wilson, Jimmie W') | Parse Last name correctly  Wilson | P | Wilson, Jimmie W |
| 7.12 | CSR\_Hierarchy table population for records fixed ID records | End date assigned to last hierarchy record and new row added for active employees | P |  |
| 7.13 | Emp ID to Lan ID table population for records fixed ID records | New rows added with either start\_date or load\_date depending on if same lanid or changed lanid | P |  |
|  |  |  |  |  |
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