



HESS Corporation

Corporate Business Systems

AuditTrack





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1. Application Information

Year Developed: August 2012

Developer: Nicholas Celiano

Primary Contact: Nicholas Celiano

Web Application Description:

Package Description:

2. User Information

Department: Legal

Main User:

3. Developer History

Nicholas Celiano

Modified SSIS Package

- Now includes daily Invoice Extraction from SAP for E&P.
- Allows package to be run on command for specific date ranges
- Allows package to be for specific "Company Codes"

Created Web Interface

- Allows user to view failure count, success count, and invoice total for all days the package has been executed on.
- Allows the user to choose to run for either E&P or MR&C
- Allows the user to manually run the package for a specific date range
- Allows the user to run the package for particular company codes

4. Server Information

4.1 Development

Web Server

Name: NYCSSWBDEV001

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Deployment Location: http://nycsswbdev001/CaseTrack/
File Location: \\NYCSSWBDEV001\e\$\Server\CaseTrack

Database Server

Server Name: wdbsssqls08db1\IN02_c01

Instance: CaseTrackStage

Authentication:

Login: casetrack Password: ??????

Job Names:

- Daily Job (Laura's) CaseTrack SAP Invoice Extract
- Daily Job(Nick's) CaseTrack MR/EP Daily SAP Invoice Extract
- Website Call Job CaseTrackSSISTest

SSISFrameWork

Instance: SSISFrameworkPackageID = 116

SSIS Server

Server Name: WDBSSSQLS08DB1

Authentication: Windows Authentication

Package Location:

- Nick's: MSDB_WDBSSQLS08DB1-IN02_C01 >> SSISTest>> CaseTrackInvoiceExtract
- Laura's: MSDB_WDBSSQLS08DB1-IN02_C01 >> CaseTrack>> CaseTrackInvoiceExtract

4.2 Production

Web Server

Name: NYCSSWBPRD001

Location: http://nycsswbprd001/CaseTrack/

Database Server

Name: WDBSSDBSQLP06

Database: CaseTrackStage

Authentication: Windows Authentication

Job Names:

Daily Job - CaseTrackSSISDailyWebsite Job - CaseTrackSSISWebsite



SSIS Server

Server Name: WDBSSDBSQLP06

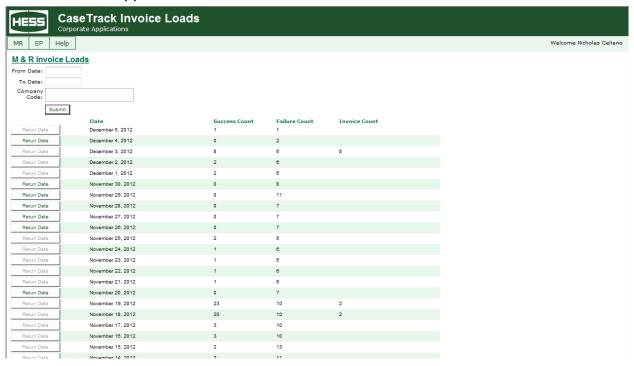
Package Location (Single package for both jobs): MSDB >> CaseTrackSSIS

>>CaseTrackInvoiceExtract

5. Web Interface



5.1 Web Application Screenshot



5.2 Company Code Control

- The company code must be a 4 digit numeric value.
- No company codes are required to be entered.
- There is no maximum number of company codes that can be entered.
- If no company code is entered the system will execute the package for all company codes associated with that business (MR&C or E&P).
- If a company code is entered the system will run the package only for that particular company code.

5.3 Date Control

- The user is required to enter a date.
- The date must be prior to the current days date (date 1 day).
- The "From Date" must be before the "To Date" or there will be an error.
- The date parameters can be for a range of 0 days (current day only) to a maximum of unlimited anywhere prior to the current days date.

5.4 Column Definitions

Date – The date that corresponds to the data represented in the adjacent columns

Success Count – The amount of times the package successfully attempted to retrieve data and there were either invoices returned, or no data to retrieve

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Failure Count – The amount of times the package successfully attempted to retrieve data and there were errors returned for the invoices present.

Invoice Count – The amount of invoices returned on a successful package run. This number may remain empty if there were no invoices to retrieve for a particular date.

5.5 Error Definitions

Error 1: Invalid Company Code

- Occurs if an invalid "Company Code" is entered and the "Submit" button is clicked

Error 2: Data Retrieval Attempt was NOT submitted

- Occurs when there is a failure with the SSIS package. This will if there are discrepancies with the database or "DataConn.cs" page.

Error 3: No To Date Entered

- Occurs when no "To Date" is entered and the "Submit" button is clicked

Error 4: No From Date Entered

- Occurs when no "From Date" is entered and the "Submit" button is clicked

Error 5: No Company Code Entered

 Occurs if white spaces are entered into the "Company Code" control and the "Submit" button is clicked

5.6 Web Application Style

Language Used: C#.NET Framework: .NET 4.0

Style Used: ASP.NET Web Site

Layout Template:

- Corporate Business Systems Template
 - o tfs2010.ihess.com\Corporate\CorporateApps\Corporate Application Templates
 - Includes Active Directory Web Reference

Technique:

- Content pages built off of a MasterPage
- Classes defined for Errors and Data Connection

5.7 Controls Used

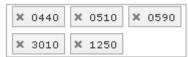
Date Picker





- jQuery plugin from http://www.jquery.com.
- Allows the calendar function to run on server side code
- Allows the user to view more than one month.
- Allows the user to limit dates which a user can select

Select 2



- jQuery plugin from http://ivaynberg.github.com/select2/
- Allows users to select predefined values from a drop down list or enter their own values
- Allows users to remove a selection by clicking the "X" button.
- All values are delaminated by a "," in the code behind and must be separated and put into an array before being used.



6. Database Information

6.1 Table Definitions

CaseTrackRunDayDiff:

 Temporarily stores business parameter information to allow the SSIS package to populate its variables.

CompanyCodes:

- Temporarily stores a list of the company codes that are to be run against from the Web App interface.

ConnectionInfo_BusUnits:

- Stores the SSIS parameter details for connection to MR&C and E&P

EPSelectDateRunStatus/SelectDateRunStatus:

- Stores the Success/Failure/Invoice count for both E&P and MR&C respectively.

SAPCaseTrackOutputs:

 Temporarily restores the outputs from SAP before writing it to either the error file or invoice file.

SAPCaseTrackReturns:

- Returns message from SAP on data extraction

6.2 SAP Connections

MR&C

- Production: USER=DATMRDR LANG=EN CLIENT=044 SYSNR=02
 ASHOST=WDBSSAPSA3P01.ihess.com PASSWD=psvW72hm
- Valid Company Codes: 0440, 0455, 0510, 0590, 1250, 3010, 3032, 3041

E&P

- Production: USER=RFC_USER_RW LANG=EN CLIENT=100 SYSNR=04
 ASHOST=sapep1.ihess.com PASSWD=Blue\$tie9
- Valid Company Codes: 0010

6.3 Stored Procedures

sp CheckBAPIErrorResults

- Counts the amount of Errors returned from SAP which is stored in the SAPCaseTrackReturns table immediately after package execution.
- Errors are denoted with an 'e' in the "TYPE" column

sp CheckBAPIRecCounts

- Counts the amount of Errors returned from SAP which is stored in the SAPCaseTrackReturns table immediately after package execution.
- Records are denoted with an 'I' in the "TYPE" column

sp_CompanyCode_Add/sp_CompanyCode_Clear

- Either adds a Company Code to the CompanyCodes table, or removes All values from the CompanyCodes table.
- These sp's are executed on the control "Submit" click

sp_EPcheckInvoiceCount/sp_checkInvoiceCount

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- Selects the invoice count for a particular date for either MR&C or E&P

sp_EPSelectDateMaintenance/sp_SelectDateMaintenance

- Adds a new date row into EPSelectDateRunStatus/SelectDateRunStatus where that date does not already exist.

sp_EPSelectDateStatusUpdate/sp_SelectDateStatusUpdate

- Sets the failure or success count on EPSelectDateRunStatus/SelectDateRunStatus depending on whether the package succeeds for failed.
- Neither a fail count nor success count will be added if the package does not complete its execution.

sp EPsetInvoiceCount/sp setInvoiceCount

- Sets the invoice count on EPSelectDateRunStatus/SelectDateRunStatus returned with the Invoice Count from SAP for a specific date.
- An Invoice Count is not required to be returned for a specific date. Only on a date where invoices are present.

sp_ExecuteSSISPackageDaily

- Executes sp_setMRConnectionInfo and passes parameters which will run the package for yesterday's date with MR&C Connection Info
- This is followed by a one minute delay to wait for this job to finish
- Finally, the sp_setEPConnectionInfo will execute and run the package for yesterday's date with E&P Connection Info.
- This package holds the ability to either set the run status for a set of company code or run
 the package for all the company codes. This is done through passing the
 @CompanyCodeParam.
 - Y' reads the Company Codes from the CompanyCodes Table
 - o 'N' runs the package for all company codes.

sp ExecuteSSISPackageOnDemand

Enables the Job 'CaseTrackSSISTest', then executes the package, then disables the job again.

sp Populate EPGrid/sp PopulateMRGrid

- Selects columns from the SelectDateRunStatus/EPSelectDateRunStatus table and binds the data to the gridview on both the MR&C and E&P Pages

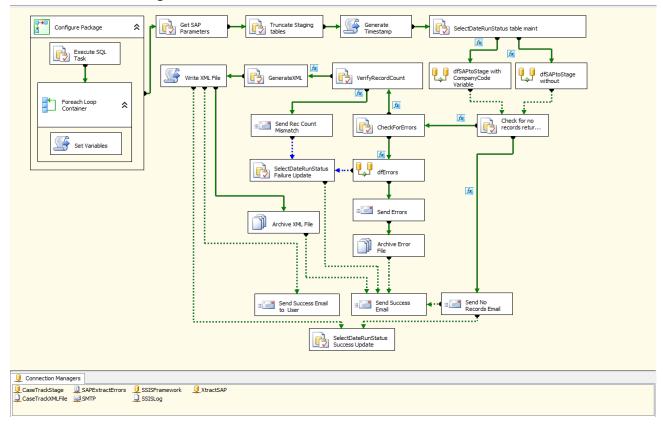
sp SetEPConnectionInfo/sp SetMRConnectionInfo

- Updates the CaseTrackRunDayDiff table with information for either MR&C or E&P and executes the package



7. Package Information

7.1 SSIS Package Screenshot



7.2 Description of Package

- Pull parameters from SSISFramework and CaseTrackStage → ConnectionInfoBusUnit table
- Checks if the CompanyCodeParam is Y or N in CaseTrackStage \rightarrow CaseTrackRunDayDiff table
- Checks for records returned from the date range entered in CaseTrackStage \Rightarrow CaseTrackRunDayDiff table
 - If no records sends email
- If there are records
 - Returns Errors in .txt file OR Returns Invoices in a .xml file



- Stores Files in \\hacssapcasp01\CaseTrack InvoiceUpload PROD\
- Sends Email

7.3 Description of Emails

- SMTP Location and email recipients are set through the SSISFramework
 - Support email Variable 111 is CaseTrackSupportTo.
 - Recipient email -

7.4 How to Install Xtract IS

- Install xTractIs from: \\wdbdd624711\share\XtractIS.
- Request SAP client from Software Store:
 http://softwarestore.ihess.com/appDetail.aspx?appID=310
- Software installs to C:\Program Files\XtractIS
- The file **XtractIS.License.dll** must be in two locations:
 - C:\Program Files\XtractIS\BINotificationReceiver\1033
 - C:\Program Files\XtractIS
- Run C:\Program Files\XtractIS\ XtractLicenseManager.exe pointing at the license dll in the 1033 location above

7.5 Variables

- Certain variables are set on execution and gathered through the SSISFramework Database is located on 'WDBSSSQLS08DB1\IN02 CO1'.
 - These are package configuration variables that deal with data connections and email server connections.
 - SQL

```
SELECT *
FROM [SSISFramework].[dbo].[PackageVariableValues]
WHERE PackageID = 116
```

- These variables are set in the 'Configure Package' Node
 - PackageID = 116
 - Scenario = PRD
- Depending on which business the SAP extraction the package is being run for, the package pulls and sets variables from the CaseTrackStage Database --> CaseTrackRunDayDiff Table.
 - These variables are stored and can be modified from the CaseTrackStage Database --> ConnectionInfo_BusUnits Table

7.6 SSIS Logs

Location: \\wdbsssqls08db1\SSISLogs\CaseTrack\CaseTrackInvoiceExtract - 12-4-2012 Latest.txt



8. Job Information

8.1 CaseTrackSSISTestJob

Description:

Set up to execute the package on command.

Steps:

- Executes SSIS Package located at:
 - Server: WDBSSSQLS08DB1
 - Package: \MSDB WDBSSSQLS08DB1-1N02 C01\SSISTest\CaseTrackInvoiceExtract
- Must be executed in 32-bit mode

Schedule:

- The Job is set to disable and only set to enable when a job is executed. After the execution is complete, the job is set to disable.
- The Schedule is set to run every hour, but this is just a place holder to allow the execution of the package. This never initiates because the package is enabled, executed, and then set to disable in less than one minute.

8.2 CaseTrack SAPInvoiceExtract

8.3 CaseTrack MR/EP Daily SAP Invoice Extract

Description:

Set up to execute sp_ExecuteSSISPackageDaily.

Steps:

Executes the stored procedure sp_ExecuteSSISPackageDaily

Schedule:

- Runs daily at 8 AM
- The Job is always enabled

9. Additional Information

XML + Error Message Location:

Development: \\hacssapcast01\CaseTrack InvoiceUpload TEST Production: \\hacssapcasp01\CaseTrack InvoiceUpload PROD

10. Source Control

Server: tfs2010.ihess.com\Corporate

Path: Legal\CaseTrack
Package: \SSIS Package

Web Application: \CaseTrack Invoice Return Webpage



