

CGI Advantage[®] 4

Intercept Run Sheets Guide



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Table of Contents

1	Purpose of the System Administration Guide	4
1.1	Common terms and glossary used	4
2	Description of Processes	5
2.1	Intercept Batch and Chain Processes.....	7
2.1.1	Discard Intercept Records	9
2.1.2	Export INTR records to Intercept Externally	20
2.1.3	Federal Vendor Collection Acknowledgement File Load.....	22
2.1.4	Federal Vendor Intercept Archive.....	31
2.1.5	Federal Vendor Reversal Acknowledgement File Load	39
2.1.6	Federal Vendor Reversal File Generation	46
2.1.7	Federal AD Vendor Extract Chain	52
2.1.8	Federal AD Vendor Match Chain.....	67
2.1.9	Federal Collection File Job	82
2.1.10	Federal Debt Update File Generation.....	97
2.1.11	Federal Unprocessable File.....	106
2.1.12	Federal Vendor Offset Update Chain	118
2.1.13	Generate Federal Offset Payment.....	131
2.1.14	Hold Payments for Pending Debts.....	165
2.1.15	Intercept Activity Export	171
2.1.16	Intercept Notice (Notice of Intent to Intercept).....	176
2.1.17	Intercept Refund Process	179
2.1.18	Intercept Selection	193
2.1.19	Issue Payment for Intercepted External Debts	196
2.1.20	Load External Debts into INTR	200
2.1.21	Record Externally Intercepted Debts.....	212
2.2	Intercept Report Processes	215
2.2.1	Intercept Activity by Vendor Report	216

1 Purpose of the System Administration Guide

This manual is intended to help system administrators initiate, configure, monitor, and control all processing for CGI Advantage. The manual has five parts:

- The CGI Advantage System Administration Guide contains information about the CGI Advantage system architecture, and configuration (including the embedded third party components), post-installation setup, security configuration and considerations, workflow, job framework and its usage/maintenance, and other information pertinent to administering the application.
- The CGI Advantage HRM run sheet guides describe each process of CGI Advantage HRM in detail with its input, output, parameters, sort sequence, and selection criteria.
- The CGI Advantage Financial run sheet guides describe each process of CGI Advantage Financial in detail with its input, output, parameters, sort sequence, and selection criteria.
- The CGI Advantage HRM Payroll Engine System Administration Guide describes the system control tables and utilities for CGI Advantage HRM.
- The CGI Advantage VSS System Administration Guide describes each VSS process in detail with its input, output, parameters, sort sequence, and selection criteria.

System administration tasks include setting up and maintaining application security, querying and viewing the application status through logs and reports, managing workflow, setting up and maintaining system tables, and other critical application maintenance tasks.

1.1 Common terms and glossary used

The terms "Job" and "Batch" have been used interchangeably throughout the document. Please note that the CGI Advantage technical architecture is flexible enough to support the execution of jobs/batch processes while the application is available for online usage. In other words, the jobs/batch processes are technically not required to be "offline" processes.

2 Description of Processes

This chapter describes the processes in CGI Advantage that are considered system administration processes. For each process, you see information on these topics:

- Description
- Steps to Run this Process (if applicable)
- When to Run
- Major Input
- Output
- Parameters – Batch and Custom
- Sort Sequence
- Selection Criteria
- Notes
- Problem Resolution

System Wide Batch Parameters:

System wide batch parameter fields are available with each batch program, which provide the path for the input/output directory. These parameters allow sites to easily and quickly update the path for individual batch processes.

System wide batch parameters can be defined at the System Level, Area Level, Chain Job level, Chain Level or Job level. There has to be a default value set for the system wide batch parameters at any of these levels mentioned above so that the process will generate, read or write the respective files from the given location.

System wide batch parameters are defined at the System Level on the System Level Process Parameters (BATSETUP) reference page, searching for the Catalog Label of *Batch Catalog* and then choosing the record-level action of *Edit*.

- **AMSROOT** - Root directory of the batch files (for example, C:\AMSADV30\RTFiles)
- **AMSEXP** - For files that are created by the program and need to remain after the job is completed (i.e. cannot be temporary files). This could include interface files that come from/go to third party sources (for example, \$AMSROOT\ExportImport).
- **AMSIMP** - For files that are used by the program and need to remain after the job is completed (that is, cannot be temporary files). This could include interface files that come from/go to third party sources (for example, \$AMSROOT\ExportImport).
- **AMSLOGS** - For batch framework log files. If the job requires its own log files, this is where it is put (for example, \$AMSROOT\Logs).
- **AMSPARM** - Batch job parameter files specific to a single job instance only (for example, \$AMSROOT\Parms).
- **AMSTEMP** - For temporary files, usually stamped with process ID (for example, C:\TEMP).
- **AMSSPOOL** - Batch job report files, statistic files, exception reports, and so forth. These files may be sent to an OS print queue. File name is usually date and time stamped (for example, \$AMSROOT\Spool).

Note:

Assumptions while implementing system wide batch parameters: It is assumed that wherever in the Job processes system wide batch parameter variables (that is, AMSEXPORT, AMSIMPORT, AMSROOT, AMSLOGS, AMSPARM, AMSTEMP, AMSSPOOL) are declared as input parameters, care should be taken to set the overrideable flag for that variable to *true*, otherwise the process may fail.

Pivot Date/Year Validation:

Note:

Assumption for date attributes: Set the Earliest Year (EARLIEST_YEAR) and Latest Year (LATEST_YEAR) on the Application Parameter reference page. When defining the year range, attention should be given to setting a range vast enough to accommodate all system impacts (such as imported transactions). The Job input date/year must lie between the above year range; otherwise, the process will fail.

2.1 Intercept Batch and Chain Processes

Payment Intercepts is the process of establishing intercept requests, determining the eligibility of payments for intercept, determining the amount of intercept for individual payments, charging fees on intercepted debt, tracking intercept activity, and transferring funds to the entity requesting the disbursement intercept. The Intercept Functionality in Advantage also allows you to record the Debts that were intercepted in an External Payment System. These Debts could either be an Internal Debt (Debts that originated within the Advantage Application) or an External Debt (Debts that originated outside of the Advantage Application). You can also alert debtors that they may be subject to the intercept process if their payments are not promptly received by issuing Notice of Intent to Intercept Letters.

The processes that drive Intercept in CGI Advantage Financial are listed below:

Batch Jobs

- [Export INTR records to Intercept Externally](#)
- [Federal Vendor Collection Acknowledgement File Load](#)
- [Federal Vendor Intercept Archive](#)
- [Federal Vendor Reversal Acknowledgement File Load](#)
- [Federal Vendor Reversal File Generation](#)
- [Hold Payments for Pending Debts](#)
- [Intercept Activity Export](#)

Chain Jobs

- [Discard Intercept Records](#)
- [Federal Collection File Job](#)
- [Federal Unprocessable File](#)
- [Federal Debt Update File Generation](#)
- [Federal AD Vendor Extract Chain](#)
- [Federal AD Vendor Match Chain](#)
- [Federal Vendor Offset Update Chain](#)
- [Generate Federal Offset Payment](#)
- [Intercept Selection](#)
- [Intercept Notice](#)
- [Intercept Refund Process](#)
- [Issue Payment for Intercepted External Debts](#)
- [Load External Debts into INTR](#)
- [Record Externally Intercepted Debts](#)

Reports

- [Intercept Activity by Vendor](#)

Descriptions of these processes are organized in this section in alphabetical order.

2.1.1 Discard Intercept Records

Chain or Job Name	Discard Intercept Records
Recommended Frequency	Nightly
Single Instance Required	Yes
Can be restarted?	Yes
Reports generated	Discard Intercept Transactions Report

Overview

The Discard Intercept Records chain job is used to discard all the unprocessed IT and GAIP records in the system when the related disbursement transactions have been cancelled. The chain job consists of 2 batch jobs. They are as follows:

- **Select Intercept Records:** This is the first job in the chain job. The main purpose of this job is to select the intercept records i.e. IT and GAIP records for which their associated disbursement records have been cancelled. All the records that are eligible for discard action to be performed are written to the parameter file which will be picked by the second and third job, respectively. The transaction details are also written to the report. This report can be viewed in HTML or PDF format from the Advantage Job Manager. This report is rendered in this job itself. This job creates 2 parameter files called GAIPDiscardParm.txt and ITDiscardParm.txt.
- **Discard GAIP Records:** The purpose of this job is to discard the GAIP transactions that have been loaded during this chain. This job uses GAIPDiscardParm.txt created in the Select Intercept Records step as an input, which contains details of the transaction to be discarded.
- **Discard IT Records:** The purpose of this job is to discard the IT transactions that have been loaded during this chain. This job uses ITDiscardParm.txt created in the Select Intercept Records step as an input, which contains details of the transaction to be discarded.

Major Input

Data from the following tables:

- Intercept Transfer Header (IET_DOC_HDR)
- Intercept Payment Header (ABS_DOC_HDR)
- Intercept Activity Table (INTA)
- Pending Intercept Payment Table (INTP)
- Transaction Control (R_GEN_DOC_CTRL)

Major Output

Following are the output of the chain job:

- Report containing all the eligible records selected for discarding

Chain Return Code

The following table indicates the potential return codes with which the chain will end:

Return Code	Condition
Successful (1)	All the jobs ends successfully
Warning (4)	One of the job in the chain ends with a return code of <i>Warning</i>
Non Fatal Error (8)	One of the job in the chain ends with a return code of <i>Non Fatal Error</i>
Failed (12)	One of the job in the chain ends with a return code of <i>Failed</i>
Terminated (16)	One of the job in the chain ends with a return code of <i>Terminated</i>
System Failure (20)	One of the job in the chain ends with a return code of <i>System Failure</i>

Problem Resolution

Please refer to the individual job “Problem Resolution” section for more details

Discard Intercept Records: Select Intercept Records

Chain or Job Name	Select Intercept Records
Recommended Frequency	Nightly
Single Instance Required	Yes
Can be restarted?	Yes
Reports generated	Discard Intercept Transactions Report

Overview:

The Select Intercept Records batch job selects the records from the Intercept tables that are eligible for discarding. The IT transactions which do not have the Intercept ID on the INTA table are the ones which are eligible for discarding. Similarly, all the GAIP transactions that do not have the Intercept ID on the INTP table are the ones which are eligible for archiving. The job only selects those transactions which have their Function as *New*, Phase as *Draft* or *Pending* and Status as *Held*, *Ready* or *Rejected*. All the pending transactions need to be rejected first and then discarded. A report is generated listing all the transactions that have been selected for discard action to be performed. The report may be viewed in HTML or PDF format from the Advantage Job Manager.

Process Steps	Messages
1. Selection of Records	<ul style="list-style-type: none"> • Selecting eligible records • If the selection returns 0 records, then the following message will be issued: “No eligible record found”. • Number of records (count) selected will

Process Steps	Messages
	be displayed • At the end, the following message will be issued: Selection of records completed.
2. Creation of Parameter file	• Started creating parameter file • Parameter file creation complete.
3. Creation of Discard GAIP Transactions Report	• Rendering report started. • Rendering report completed.
4. Creation of Discard IT Transactions Report	• Rendering report started. • Rendering report completed.

Restartability

Job cannot be restarted. If the job fails, then no Database restore is required on any of the tables. A new chain should be scheduled for the same File Id.

Major Input

- Intercept Transfer Header (IET_DOC_HDR)
- Intercept Payment Header (ABS_DOC_HDR)
- Intercept Activity Table (INTA)
- Pending Intercept Payment Table (INTP)
- Transaction Control (R_GEN_DOC_CTRL)

Batch Parameters

Parameter	Description	Default Value
Export File Location AMSEXPORT	Required Field. Location of the .txt file generated by the job.	\$\$AMSROOT\$\$/ExportImport
Parameter File Name for IT DISCARD_PARM_IT_FILE	Parameter File Name for IT	ITDiscardParm.txt
Parameter File Name for GAIP DISCARD_PARM_GAIP_FILE	Parameter File Name for GAIP	GAIPDiscardParm.txt

Major Output

- Report
- ITDiscardParm.txt, GAIPDiscardParm.txt - Parameter file containing list of eligible records.

Job Return Code

The following table shows the potential job return codes for the Select Intercept Records job:

Return Code	Condition
Successful (1)	All the selected intercept records are processed successfully
Warning (4)	No eligible records found.
Non Fatal Error (8)	N/A
Failed (12)	The job will fail under the following conditions: <ul style="list-style-type: none"> • Parameters are invalid • Run time exceptions for unexpected situations. When this job ends with a return of code Failed, subsequent jobs in the chain will be set to inactive.
Terminated (16)	This return code will be issued when the job is terminated by the user. When this job ends with a return of code Terminated subsequent jobs in the chain will be set to inactive.
System Failure (20)	This return code will be issued when the job is terminated because of database server or network issues. When this job ends with a return of code System Failure, subsequent jobs in the chain will be set to inactive.

Selection Criteria

- Intercept records consist of the IT transactions and GAIP transactions. Following are the selection criteria:
 - For IT transactions, selection is done only for those transactions which satisfy the following criteria:
 - Function is New
 - Phase is Draft or Pending
 - Status is Held, Ready or Rejected
 - Intercept ID used on the IT transaction does not exist on the INTA table.
 - For GAIP transactions, selection is done only for those transactions which satisfy the following criteria
 - Function is New
 - Phase is Draft or Pending
 - Status is Held, Ready or Rejected
 - Intercept ID used on the IT transaction does not exist on the INTP table.

Sort Sequence

N/A

Problem Resolution

The following table shows the possible return codes and recommendations for each processing step.

Step 1: Selection of Intercept Records

Possible Return Codes	Condition	Recommendation	Other Instructions
Successful (1)	All the selected intercept records are processed successfully	N/A	N/A
Warning (4)	No eligible records were found on the intercept tables for discarding	N/A	N/A
Non Fatal Error (8)	N/A	N/A	N/A
Failed (12)	Job failed due to Fatal conditions	In this step, the job can fail under the following two conditions. 1) Encounters any runtime exceptions and 2) Failed during restart. If the job fails because of the runtime exceptions, investigate the exception reported by the process, resolve the error and restart the job.	Schedule a new job
Terminated (16)	Job is terminated manually by the user.	Reason for the termination needs to be investigated. A new job can be scheduled	If another instance of the job has already been scheduled and ran successfully, then this job should not be restarted – only new job should be scheduled.
System Failure (20)	When the job is terminated because of database server or network issues	Reason for the System Failure needs to be investigated. A new job can be scheduled.	If another instance of the job has already been scheduled and ran successfully, then this job should not be restarted – only new job should be scheduled.

Step 2: Creation of the Parameter file

Possible Return Codes	Condition	Recommendation	Other Instructions
Successful (1)	N/A	N/A	N/A
Warning (4)	N/A	N/A	N/A
Non Fatal Error (8)	N/A	N/A	N/A
Failed (12)	Failed because of issues in creating parameter files, for example, parameter file location not found.	Investigate the reason of failure and then re-run the job. If any location issues, correct the same.	Parameter files will be located in the AMSPARM directory.
	Failed because of runtime exceptions for an unexpected situation.	Failure reason needs to be investigated before scheduling a new job.	Failed because of runtime exceptions for an unexpected situation.
Terminated (16)	Job is terminated manually by the user.	The reason for the termination needs to be investigated and a new job scheduled.	N/A
System Failure (20)	When the job is terminated because of database server or network issues.	The reason for the System Failure needs to be investigated and a new job scheduled.	N/A

Step 3: Creation of Discard Intercept Records Report

Possible Return Codes	Condition	Recommendation	Other Instructions
Successful (1)	The Discard Intercept Records report generated successfully.	N/A	N/A
Warning (4)	N/A	N/A	N/A
Non Fatal Error (8)	N/A	N/A	N/A
Failed (12)	Failed due to issues in creating the report.	Investigate the reason for the report not being created and re-run the chain.	N/A
	Failed because of runtime exceptions for an unexpected situation.	Failure reason needs to be investigated before scheduling a new job.	N/A

Terminated (16)	Job is terminated manually by the user.	The reason for the termination needs to be investigated and a new job scheduled.	N/A.
System Failure (20)	When the job is terminated because of database server or network issues.	The reason for the System Failure needs to be investigated and a new job scheduled.	N/A.

Discard Intercept Records: Discard GAIP Records

Chain or Job Name	Discard GAIP Records
Recommended Frequency	On Demand
Single Instance Required	Yes
Can be restarted?	Yes
Reports generated	SMU Report

Overview

After the generation of the Discard Intercept report, the next step in the Discard Intercept Records chain is the Discard GAIP Records. This step uses the SysManUtil function with the "Transaction Discard" action to delete loaded GAID transactions. GAIP transactions are selected for deletion based the Transaction ID, Transaction Code, Transaction Version Number, Transaction Status, Transaction Phase, and Transaction Type parameters for this step.

The Discard GAIPRecords terminates with a "Successful" job Return Code if the steps of the chain are processed correctly. If any of the steps in the chain fails to process successfully, the job will terminate.

After the Discard Intercept Records chain, users can view the generated reports to determine the necessary updates as to which GAIP transactions have been deleted.

Restartability

This job cannot be restarted. If the job failed in this step, then a new chain should be scheduled for the same File ID. Alternatively, the GAIP transaction can be manually discarded from the Transaction Catalog.

Major Input

- GAIPDiscardParm.txt parameter files created in the first step of Selection of Intercept Records.

Batch Parameters

Parameter	Description	Default Value
Export File Location	Required Field. Location of the .txt file generated by	\$\$AMSROOT\$\$

Parameter	Description	Default Value
AMSEXPORT	the job.	/ExportImport
Parameter File Name for GAIP Transactions DISCARD_PARM_GAIP_FILE	Parameter File Name for GAIP	GAIPDiscardParm.txt

Major Output

- GAIP transaction is permanently discarded from the Transaction Catalog.

Job Return Code

The following table shows the potential job return codes for the Discard GAIP Records job:

Return Code	Condition
Successful (1)	GAIP transactions are discarded successfully.
Warning (4)	This job does not issue this Return Code.
Non Fatal Error (8)	This job does not issue this Return Code.
Failed (12)	The job will fail under the following conditions: <ul style="list-style-type: none"> Parameters are invalid Issues in SysManUtil while discarding the transaction Technical/System failure
Terminated (16)	This return code is issued when the job is terminated by the user.
System Failure (20)	This return code is issued when the job is terminated because of database server or network issues.

Sort Sequence

N/A

Problem Resolution

The following table shows the possible return codes and recommendations for each processing step.

Step 1: Intercept Records Discard

Possible Return Codes	Condition	Recommendation	Other Instructions
Successful (1)	GAIP transactions are discarded. This is done by the SysManUtil "Transaction Discard" action functionality.	N/A	N/A
Warning (4)	N/A	N/A	N/A
Non-Fatal Error (8)	N/A	N/A	N/A
Failed (12)	Failed because of runtime exceptions for an unexpected situation.	Failure reason needs to be investigated.	N/A
Terminated (16)	Job is terminated manually by the user.	The reason for the termination needs to be investigated.	N/A
System Failure (20)	When the job is terminated because of database server or network issues.	The reason for the System Failure needs to be investigated.	N/A

Discard Intercept Records: Discard IT Records

Chain or Job Name	Discard IT Records
Recommended Frequency	On Demand
Single Instance Required	Yes
Can be restarted?	Yes
Reports generated	SMU Report

Overview

After the GAIP records are discarded, the next step in the Discard Intercept Records chain is the Discard IT Records job. This job uses the SysManUtil function with the "Transaction Discard" action to delete loaded IT transactions. IT transactions are selected for deletion based the Transaction ID, Transaction Code, Transaction Version Number, Transaction Status, Transaction Phase, and Transaction Type parameters for this step.

The Discard IT Records job terminates with a "Successful" job Return Code if the steps of the chain are processed correctly. If any of the steps in the chain fails to process successfully, the job will terminate.

After the Discard Intercept Records chain, users can view the generated reports to determine the necessary updates as to which IT transactions have been deleted.

Restartability

This job cannot be restarted. If the job failed in this step, then a new chain should be scheduled for the same File ID. Alternatively, the IT transaction can be manually discarded from the Transaction Catalog.

Major Input

- ITDiscardParm.txt parameter files created in the first step of the Selection of Intercept Records job.

Batch Parameters

Parameter	Description	Default Value
Export File Location AMSEXPORT	Required Field. Location of the .txt file generated by the job.	\$\$AMSR00T\$\$ /ExportImport
Parameter File Name for IT Transactions DISCARD_PARM_I T_FILE	Parameter File Name for IT	ITDiscardParm.t xt

Major Output

- IT transaction is permanently discarded from the Transaction Catalog.

Job Return Code

The following table shows the potential job return codes for the Discard IT Records job:

Return Code	Condition
Successful (1)	IT transactions are discarded successfully.
Warning (4)	This job does not issue this Return Code.
Non-Fatal Error (8)	This job does not issue this Return Code.
Failed (12)	The job will fail under the following conditions: <ul style="list-style-type: none"> Parameters are invalid Issues in SysManUtil while discarding the transaction Technical/System failure
Terminated (16)	This return code is issued when the job is terminated by the user.

Return Code	Condition
System Failure (20)	This return code is issued when the job is terminated because of database server or network issues.

Sort Sequence

N/A

Problem Resolution

The following table shows the possible return codes and recommendations for each processing step.

Step 1: Intercept Records Discard

Possible Return Codes	Condition	Recommendation	Other Instructions
Successful (1)	IT transactions are discarded. This is done by the SysManUtil "Transaction Discard" action functionality.	N/A	N/A
Warning (4)	N/A	N/A	N/A
Non Fatal Error (8)	N/A	N/A	N/A
Failed (12)	Failed because of runtime exceptions for an unexpected situation.	Failure reason needs to be investigated.	N/A
Terminated (16)	Job is terminated manually by the user.	The reason for the termination needs to be investigated.	N/A
System Failure (20)	When the job is terminated because of database server or network issues.	The reason for the System Failure needs to be investigated.	N/A

2.1.2 Export INTR records to Intercept Externally

Description

The purpose of this process is to create a debt file (XML), which is to be sent to external entities to be intercepted. This debt file (XML) will be created from the records maintained in the intercept request table.

When to Run

This process can be run on Demand.

Major Input

- Intercept Export Control (R_INT_EXP_CTRL.)
- Intercept Request (R_AP_INCT_RQST)
- Intercept Export Control (R_INT_EXP_CTRL_DET)

Output

This process will create the Debt File (XML). The Debt File (XML) created by this process will be named as per prefix (External Payment System) + today's date and time.

Parameters

Job	Parameter	Description	Default Value
N/A	N/A	N/A	N/A

Sort Sequence

N/A

Selection Criteria

This process will select records based on the following criteria:

1. The Debt XML file will be created only for those records on the Intercept Export Control table, where Create Debt Flag is set to True.
2. If the TIN Type on the Intercept Export Control table is null, then all records from the Intercept Request table will be selected.
3. If the TIN Type on the Intercept Export Control Table is not null, then only those records from the Intercept Request table where the TIN Type is equal to the TIN Type from the Intercept Export Control table will be selected.
4. Only those records from the Intercept Request table will be selected, where the Debt Type/ Entity combination is not equal to the Debt Type/ Entity combination from the Intercept Export Control Detail table including the wildcards.

5. The process will exclude from selection any records on the Intercept Request (INTR) table where the Debt Type is set to Exclude from Export on the Debt Type table.

Problem Resolution

If the process fails due to any reason then:

- Look into log of job for errors.

2.1.3 Federal Vendor Collection Acknowledgement File Load

Chain or Job Name	Federal Vendor Collection Acknowledgement File Load
Recommended Frequency	This job can be run daily as part of the nightly cycle or on demand.
Single Instance Required	No
Can be restarted?	No
Reports generated	No

Overview

The Federal Vendor Collection Acknowledgement File Load job loads the State Agency Disbursing Office (SADO) Vendor Collection Acknowledgement file received from the Bureau of Fiscal Service (BFS) for taxpayers with Automated Disbursements (AD) and Check Writer (CW) payments into the Federal Vendor Intercept Header (FEDHDR), Federal Vendor Intercept Match (FEDMTCH), and Federal Vendor Intercept Activity (FEDACTV) tables. This job can upload more than one inbound SADO Vendor Collection Acknowledgement file received from BFS into the Advantage application for each job run. This job can upload an inbound SADO Vendor Collection Acknowledgement file with the “Header Record” only.

The Federal Vendor Collection Acknowledgement File Load job performs the following:

- Validates the job parameters.
- Identifies the SADO Vendor Collection Acknowledgement file placed at the Application server based on the “Import File Name Prefix” parameter value.
- If the SADO Vendor Collection Acknowledgement file is not found at the server, the job sets the job Return Code to *Warning* and stops processing.
- If the SADO Vendor Collection Acknowledgement file is found at the server, the job verifies if it belongs to another State/Province by comparing the Agency Location Code on the Header record of the SADO Collection Acknowledgement file with the Agency Location Code on APPCTRL.

If the file belongs to other State/Province, the job sets the Return Code to Warning and stops processing.

If the file belongs to same State/Province, the job obtains Schedule Number from the Header Record of the SADO Vendor Collection Acknowledgement file and uses it to locate the respective record on the FEDHDR table.

- If the SADO Vendor Collection Acknowledgement file is found with only a Header record, the system updates only the FEDHDR record.
- If the SADO Vendor Collection Acknowledgement file is found with the Header and Data records, the system updates both the FEDHDR and FEDMTCH tables.
- Once all records in the SADO Vendor Reversal Acknowledgement file are processed, the process copies the file to the archive folder at the application server and deletes the file from the import folder.

The following table shows the various steps that the Federal Vendor Collection Acknowledgement File Load job goes through and the messages issued at each step:

Process Steps	Messages
1. Parameter Validation	<p>Validating Batch Parameters. If any of the parameters are missing, the job fails and aborts processing. Parameters are valid or invalid depending on the validation. If the parameter is invalid, the invalid value is displayed in the log. Batch Parameter validation completed.</p>
2. Selection of Records	<p>While searching for the SADO Vendor Collection Acknowledgement file the job log display the following message: “Searching for files...” If the selection does not return any files, the following warning message is issued: “No SADO Vendor Collection Acknowledgement files found on the server.” If the selection returns a file, the file name is displayed in the job log: “<SADO Vendor Collection Acknowledgement File Name>”.</p>
3. Processing SADO Vendor Collection Acknowledgement File	<p>While processing the identified file, the job log displays the following message: “processing file:<SADO Vendor Collection Acknowledgement File Name>” If the identified SADO Vendor Collection Acknowledgement file is found with only a Header record and no Data record, the following informational message is issued in the job log: “The SADO Vendor Collection Acknowledgement file <file_name> uploaded into the FEDHDR table only”. If the identified SADO Vendor Collection Acknowledgement File is found with both the Header and Data records, the following information message is issued in the job log: “The SADO Vendor Collection Acknowledgement file <file_name> uploaded into the FEDHDR and FEDMTCH tables”. If the Agency Location Code on the Header of the SADO Vendor Collection Acknowledgement file does not match with Agency location Code parameter on APPCTRL, the system issues the following warning message to the job log: “The SADO Vendor Collection Acknowledgement file <file_name> belongs to another State”. If the system does not find any matching record on the FEDHDR table corresponding to the Header record of the SADO Vendor Collection Acknowledgement file, the following warning message is issued in the job log: “The SADO Vendor Collection Acknowledgement file <file_name> does not exist on the FEDHDR table”. If the system finds the matching record on the FEDHDR table but the File Processing Status is not set to <i>Update File Generated (7)</i>, the following warning message is issued in the job log: “The status of the SADO Vendor Collection Acknowledgment file <file_name> is not set to ‘Update File Generated’ on the FEDHDR table”. If the system does not find the matching record on the FEDMTCH</p>

Process Steps	Messages
	<p>table corresponding to the Data record in the SADO Vendor Collection Acknowledgement File, the following message is issued: “A debt record with <Schedule Number of Header Record>, <Vendor TIN of Data Record>, <Creditor Agency ID of Data Record>, <Creditor Agency Site ID of Data Record> and <Debt Number of Data Record> was not found on the FEDMTCH table.” If the respective Header record is found on the FEDHDR table, the File Processing Status (FILE_PROC_STA_IND) is set to <i>Update File Generated</i> (that is, 7 for CVL_FED_FILE_PROC), and the Vendor Collection Acknowledgement file includes Data records, the job updates the FEDHDR and FEDMTCH records, and the following informational message is issued to the job log: “The SADO Vendor Collection Acknowledgement file <file_name> uploaded into the FEDHDR and FEDMTCH tables”.</p>

Restartability Information

This job does not support restartability. If the job fails it has to be rescheduled again.

Major Input

- Fed Vendor Collection Acknowledgement file (For Example: NTSAKN_Cyymmdd_AG##_Psss.txt)
 Note: The file naming convention is defined by the BFS TOP Agency Guide and may be updated.
- Federal Vendor Intercept Header (FEDHDR) table
- Federal Vendor Intercept Match (FEDMTCH) table
- Federal Vendor Intercept Activity (FEDACTV) table
- Application Parameters (APPCTRL) table

Batch Parameters

Parameter	Description	Default Value
Import File Location	Required	\$\$AMSIMPORT\$\$/ FMS/In_Files_From_FMS
Archive Import File Location	Required	\$\$AMSIMPORT\$\$/ FMS/Arch_In_Files_From_FMS
Import File Name Prefix	Required	NTSAKN

Major Output

- Federal Vendor Intercept Header (FEDHDR) table
- Federal Vendor Intercept Match (FEDMTCH) table

- Federal Vendor Intercept Activity (FEDACTV) table

Job Return code

Return Code	Condition
Successful (1)	<p>This Return Code is issued under the following conditions:</p> <ul style="list-style-type: none"> • If the SADO Vendor Collection Acknowledgement file is found with only a Header record and the job successfully updates the FEDHDR record. • If the SADO Vendor Collection Acknowledgement file is found with both the Header and Data records and the job successfully updates the FEDHDR, FEDMTCH, and FEDACTV records.
Warning (4)	<p>This Return Code is issued under the following conditions:</p> <ul style="list-style-type: none"> • If a SADO Vendor Collection Acknowledgement file is not found on the server. • If the SADO Vendor Collection Acknowledgement file belongs to another State/Province. • If no matching FEDHDR records are identified. • If the File Processing Status is not set to <i>Update File Generated (7)</i>. • If no matching FEDMTCH records are identified.
Non Fatal Error (8)	This Return Code is not issued for this job.
Failed (12)	<p>The job will fail under the following conditions:</p> <ul style="list-style-type: none"> • If the required parameters are missing or an invalid job parameters. • No records are found in the Fed Vendor Collection Acknowledgement File. • If any run time exception occurs during execution.
Terminated (16)	This Return Code is issued when the job is terminated by the user.
System Failure (20)	This Return Code is issued when the job is terminated because of database server or network issues.

Sort Sequence

N/A

Selection Criteria

The Federal Vendor Collection Acknowledgement File Load job identifies the records on the FEDHDR and FEDMTCH tables as follows:

- The system obtains the Schedule Number from the Header record of the Collection Acknowledgement file to locate respective record on FEDHDR table.
- If any FEDHDR record is identified, the system verifies if the File Processing Status is set to **Update File Generated (7)**.

- Obtain Schedule Number from the Header record of the SADO Vendor Collection Acknowledgement File along with the Vendor TIN, Creditor Agency ID, Creditor Agency Site ID, and Debt Number from the Data record of the SADO Vendor Collection Acknowledgement file to identify a record on the FEDMTCH table.
- If any FEDMTCH record is identified and the Payment Trace Number is not null, the system uses the Agency Location Code, Office ID, Schedule Number, and Debt Sequence ID from the identified FEDMTCH record to locate the corresponding FEDACTV record.

Problem Resolution

The following table shows the possible Return Codes and recommendations for each processing step:

Step 1: Parameter Validation

Possible Return Codes	Condition	Recommendation	Other Instructions
Successful (1)	The job parameter validations are successful, that is, there are no errors raised during validations.	N/A	N/A
Warning (4)	N/A	N/A	N/A
Non Fatal Error (8)	N/A	N/A	N/A
Failed (12)	All of the required parameters are not entered or are invalid. Sample Message: Import File Location parameter cannot be blank. Sample Message: Invalid job parameters. Please correct and re-submit the job. Sample Message: AMSIMPORT is not a valid directory on the server. Please correct and re-submit the job.	If the required parameters are not entered or invalid, enter the valid required parameters and reschedule the job.	N/A
	The length of parameter is not appropriate: Sample Message: Length of	Provide appropriate value for the parameter and reschedule the job.	N/A

	FED_AGCY_LOC_CD must be 8 characters long on the APPCTRL table.		
Terminated (16)	The job is terminated manually by the user.	The reason for the termination needs to be investigated. The job can be rescheduled.	N/A
System Failure (20)	The job is terminated because of database server or network issues.	The reason for the System Failure needs to be investigated. The job can be rescheduled.	N/A

Step 2: Selection of Records

Possible Return Codes	Condition	Recommendation	Other instructions
Successful (1)	The system identifies the Fed Vendor Collection Acknowledgement file.	N/A	N/A
Warning (4)	The Fed Vendor Collection Acknowledgement File is not found at the application server. Sample Message: No SADO Vendor Collection Acknowledgement files found on the server.	Place the appropriate input file at the server location and reschedule the job.	N/A
Non Fatal Error (8)	N/A	N/A	N/A
Failed (12)	The job fails because of runtime exceptions for an unexpected situation.	The failure reason needs to be investigated before reschedule the job.	N/A
Terminated (16)	The job is terminated manually by the user.	The reason for the termination needs to be investigated. The job can be rescheduled.	N/A
System Failure (20)	The job is terminated because of database server or network issues.	The reason for the System Failure needs to be investigated. The job can be rescheduled.	N/A

Step 3: Processing SADO Vendor Collection Acknowledgement File

Possible Return Codes	Condition	Recommendation	Other instructions
Successful (1)	The system identifies the Fed Vendor Collection Acknowledgement file.	N/A	N/A
	When the system identifies the SADO Vendor Collection Acknowledgement file with only a Header record. Sample Message: The SADO Vendor Collection Acknowledgement file <file_name> uploaded into the FEDHDR table only.	N/A	N/A
	When the system identifies the SADO Vendor Collection Acknowledgement file with both the Header and Data record. Sample Message: The SADO Vendor Collection Acknowledgement file <file_name> uploaded into the FEDHDR and FEDMTCH tables.	N/A	N/A
Warning (4)	The system identifies the Fed Vendor Collection Acknowledgement file belongs to a different State. Sample Message: The SADO Vendor Collection Acknowledgement file <file_name> belongs to another State.	Place the appropriate input file at the server location and reschedule the job.	N/A
	No matching records are identified on the FEDHDR table corresponding to the data record on the Fed	Place the appropriate input file at the server location and reschedule the job.	N/A

	<p>Vendor Collection Acknowledgement File.</p> <p>Sample Message: The SADO Vendor Collection Acknowledgement file <<i>file_name</i>> does not exist on the FEDHDR table.</p>		
	<p>If the File Processing Status of the identified FEDHDR record is not set to <i>Update File Generated (7)</i>.</p> <p>Sample Message: The status of the SADO Vendor Collection Acknowledgment file <<i>file_name</i>> is not set to 'Update File Generated' on the FEDHDR table.</p>	Place the appropriate input file at the server location and reschedule the job.	N/A
	<p>No matching records are identified on the FEDMTCH table corresponding to the Data record on the Fed Vendor Collection Acknowledgement file.</p> <p>Sample Message: A debt record with <<i>Schedule Number of Header Record</i>>, <<i>Vendor TIN of Data Record</i>>, <<i>Creditor Agency ID of Data Record</i>>, <<i>Creditor Agency Site ID of Data Record</i>> and <<i>Debt Number of Data Record</i>> was not found on the FEDMTCH table.</p>	Place the appropriate input file at the server location and reschedule the job.	N/A
Non Fatal Error (8)	N/A	N/A	N/A

Failed (12)	The job fails because of runtime exceptions for an unexpected situation.	The failure reason needs to be investigated before rescheduling the job.	N/A
	When no Header and Data records are found on the identified SADO Vendor Collection Acknowledgement File.	Place the appropriate input file at the server location and reschedule the job.	N/A
Terminated (16)	The job is terminated manually by the user.	The reason for the termination needs to be investigated. The job can be rescheduled.	Schedule a new job.
System Failure (20)	The job is terminated because of database server or network issues.	The reason for the System Failure needs to be investigated. The job can be rescheduled.	Schedule a new job.

2.1.4 Federal Vendor Intercept Archive

Chain or Job Name	Federal Vendor Intercept Archive
Recommended Frequency	The Federal Vendor Intercept Archive batch job can be run on a daily basis as part of the nightly cycle or on demand.
Single Instance Required	No
Can be restarted?	No
Reports generated	Yes

Overview

The Federal Vendor Intercept Archive batch job archives (purges) the records from the Federal Vendor Intercept tables, as per the parameters supplied by the user through the Advantage Job Manager.

The Federal Vendor Intercept Archive process consists of the following steps:

- Validate the job parameters.
- Select the eligible records based on the Archive Code parameter.
 - If the Archive Code job parameter is set to 1 (Only Federal Vendor Intercept Extract table) and Run Mode is set to *U* (Report and Update), then the updates to the Federal Vendor Extract table are committed after deleting all of the selected records.
 - If the Archive Code job parameter is set to 2 (All Federal Vendor Intercept Tables), then the Commit Block Size parameter is utilized. The value specified for this parameter represents the number of groups to be deleted before committing updates to the Federal Vendor Intercept Header, Federal Vendor Intercept Extract, Federal Vendor Intercept Match, and Federal Vendor Intercept Activity tables.
- Generate a report that provides the list of all records selected for purge.
- Purge the eligible records, if the process is executed with the Run Mode of *Report and Update (U)*; otherwise, the job only generates a report and does not delete the records from the Intercept tables when executed with the Run Mode of *Report Only (R)*.

The tables that can be archived by this process are:

- Federal Vendor Intercept Header (FEDHDR) table
- Federal Vendor Intercept Extract (FEDEXT) table
- Federal Vendor Intercept Match (FEDMTCH) table
- Federal Vendor Intercept Activity (FEDACTV) table

The following table shows the various steps that the Federal Vendor Intercept Archive job goes through and the messages issued at each step:

Process Steps	Messages
1. Parameter Validation	<ul style="list-style-type: none"> • Validating Batch Parameters. • Parameters are valid or invalid depending on the validation. If the parameter is invalid, the invalid value is displayed in the log.

Process Steps	Messages
	<ul style="list-style-type: none"> Batch Parameter validation is completed.
2. Selection of Records	<p>This job selects the records based on the selection criteria as described in the Selection Criteria section given below. The following messages are issued:</p> <ul style="list-style-type: none"> If the selection does not return any records, then the following message is issued in the job log: “No records eligible for archive selection.”
3. Archive Eligible Records	<p>Based on the job parameter, the job only reports or reports and deletes the records from the Intercept tables. The following messages are issued:</p> <ul style="list-style-type: none"> Archive Eligible Date: <Date> If any error occurs while deleting the records from the FEDHDR table, then the following message is issued: “Error in deleting Federal Vendor Intercept Header.” and processing stops. If any error occurs while deleting the records from the FEDMTCH table, then the following message is issued: “Error in deleting Federal Vendor Intercept Match.” and processing stops. If any error occurs while deleting the records from the FEDEXT table, then the following message is issued: “Error in deleting Federal Vendor Intercept Extract.” and processing stops. If any error occurs while deleting the records from the FEDACTV table, then the following message is issued: “Error in deleting Federal Vendor Intercept Activity.” and processing stops.

Restartability Information

This job does not support restartability. If the job fails, it has to be rescheduled again.

Major Input

- Federal Vendor Intercept Header (FEDHDR) table
- Federal Vendor Intercept Extract (FEDEXT) table
- Federal Vendor Intercept Match (FEDMTCH) table
- Federal Vendor Intercept Activity (FEDACTV) table
- Check Reconciliation (CHREC) table
- Application Parameters (APPCTRL) table

Batch Parameters

Parameter	Description	Default Value
Client Name	Optional. This parameter defines the client name for the report. No default value is delivered.	N/A
Archive Code	Required. The valid values are: 1 – Only Federal Vendor Intercept	N/A

	Extract Table 2 – All Federal Vendor Intercept Tables	
Number of Days	Required. This parameter should be numeric, positive, and a whole number. It is subtracted from the current application date to derive an eligible archive date, which is the date that the Federal Vendor Intercept records become eligible for archive.	N/A
Run Mode	Required. This parameter controls whether the Archive process archives data or simply generates a report of the data selected for archiving. Valid values are: R – Report Only U – Report & Update	R
Commit Block Size	Required. This parameter controls how many groups of records are committed by the application at one time when the Archive Code parameter is set to 2 (All Federal Vendor Intercept Tables) and the Run Mode is set to <i>U</i> (Report and Update).	10

Major Output

- Federal Vendor Intercept Archive Selection report
- Federal Vendor Intercept Header (FEDHDR) table
- Federal Vendor Intercept Extract (FEDEXT) table
- Federal Vendor Intercept Match (FEDMTCH) table
- Federal Vendor Intercept Activity (FEDACTV) table

Job Return Code

Return Code	Condition
Successful (1)	This Return Code is issued in the following conditions: <ul style="list-style-type: none"> • All of the selected records are archived successfully. • If no records are found to archive.
Warning (4)	Not Applicable for this job.
Non Fatal Error (8)	Not Applicable for this job.

Return Code	Condition
Failed (12)	The job will fail under the following conditions: <ul style="list-style-type: none"> Parameters are invalid.
Terminated (16)	This Return Code is issued when the job is terminated by the user.
System Failure (20)	This Return Code is issued when the job is terminated because of database server or network issues.

Sort Criteria

N/A

Selection Criteria

The Federal Vendor Intercept Archive job selects records from the applicable Federal Vendor Intercept tables that need to be archived based on the values entered for the Number of Days and Archive Code job parameters:

1. If the **Archive Code** parameter is set to 1 (Only Federal Vendor Intercept Extract Table), the process ONLY selects records from the **Federal Vendor Intercept Extract table** if the following criteria are true:

- The **File Processing Status** of the respective Federal Vendor Intercept Header record is set to 9 (Bypassed); and
- The **Extract Date of Vendor File** of the Federal Vendor Intercept Header record is earlier than the current Application System Date minus the entered value in the **Number of Days** parameter.

OR

- The **File Processing Status** of the respective Federal Vendor Intercept Header record is set to 8 (Collection Acknowledgement File Loaded); and
- The **Load Date of Collection Acknowledgement File** of the Federal Vendor Intercept Header record is earlier than the current Application System Date minus the entered value in the **Number of Days** parameter.

2. If the **Archive Code** parameter is set to 2 (All Federal Vendor Intercept Tables), the process ONLY selects records from the **Federal Vendor Intercept Header table** if the following criteria are true:

- The **File Processing Status** of the Federal Vendor Intercept Header record is set to 9 (Bypassed); and
- If the selected Header record is not associated with any records on the Federal Vendor Intercept Match table, then:
 - The **Extract Date of Vendor File** of the Federal Vendor Intercept Header record is earlier than the current Application System Date minus the entered value in the **Number of Days** parameter.

Note: A Header record with the **File Processing Status** of 9 (Bypassed) on the Federal Vendor Intercept Header table will never be associated with any records on the Federal Vendor Intercept Match table.

OR

- The **File Processing Status** of the Federal Vendor Intercept Header record is set to 8 (Collection Acknowledgement File Loaded); and
- If the selected Header record is not associated with any records on the Federal Vendor Intercept Match table, then:
 - The **Load Date of Collection Acknowledgement File** of the Federal Vendor Intercept Header record is earlier than the current Application System Date minus the entered value in the **Number of Days** parameter.

OR

- The **File Processing Status** of the Federal Vendor Intercept Header record is set to 8 (Collection Acknowledgement File Loaded); and
- If the selected Header record is associated with at least one record on the Federal Vendor Intercept Match table but is not associated with any records on the Federal Vendor Intercept Activity table, then:
 - The **Load Date of Collection Acknowledgement File** of the Federal Vendor Intercept Header record is earlier than the current Application System Date minus the entered value in the **Number of Days** parameter.

OR

- The **File Processing Status** of the Federal Vendor Intercept Header record is set to 8 (Collection Acknowledgement File Loaded); and
- If the selected Header record is associated with at least one record on the Federal Vendor Intercept Match table and is associated with at least one record on the Federal Vendor Intercept Activity table, then:
 - The **Load Date of Collection Acknowledgement File** of the Federal Vendor Intercept Header record is earlier than the current Application System Date minus the entered value on the “**Number of Days**” parameter; and
 - All intercepted payments associated with selected Header record on the Federal Vendor Intercept Activity table have the **Reversal Status** set to *None*, *Reversal Request Processed* or *Reversal Request Failed*; and
 - None of the intercepted payments associated with the selected Header record on the Federal Vendor Intercept Activity table that exist on the Check Reconciliation table have a Status of *Disbursed* or *Warranted*. Use the Bank Account and Check Number combination on the Federal Vendor Intercept Activity table to locate the matching records on the Check Reconciliation table.

Problem Resolution

The following table shows the possible Return Codes and recommendations for each processing step:

Step 1: Parameter Validation

Possible Return Codes	Condition	Recommendation	Other Instructions
Successful (1)	Job parameter validations are successful, that is, there are no errors raised during validations.	N/A	N/A
Warning (4)	N/A	N/A	N/A
Non Fatal Error (8)	N/A	N/A	N/A
Failed (12)	All of the required parameters are not entered or are invalid. Sample Message: “Invalid Number of Days, must be numeric, positive, an integer and not blank.”	If the required parameters are not entered or are invalid, enter the valid required parameters and reschedule the job.	N/A
	Sample Message: “Invalid value for Run Mode, must be R or U.”	Enter a valid parameter value and reschedule the job.	N/A
Terminated (16)	The job is terminated manually by the user.	The reason for the termination needs to be investigated. The job can be rescheduled.	N/A
System Failure (20)	The job is terminated because of database server or network issues.	The reason for the System Failure needs to be investigated. The job can be rescheduled.	N/A

Step 2: Selection of Records

Possible Return Codes	Condition	Recommendation	Other Instructions
Successful (1)	If the record satisfies all of the required conditions.	N/A	N/A
	If no records are selected for archiving. Sample Message: “No records eligible for archive selection.”	N/A	N/A

Warning (4)	N/A	N/A	N/A
Non Fatal Error (8)	N/A	N/A.	N/A
Failed (12)	The job failed because of runtime exceptions for an unexpected situation.	This step is performed only if the parameter validation is successful. It can fail with fatal conditions only on encountering unknown exceptions. If that happens, investigate the exception reported by the process, resolve the error and reschedule the job.	N/A
Terminated(16)	The job is terminated manually by the user.	The reason for the termination needs to be investigated before rescheduling the job.	N/A
System Failure(20)	The job is terminated because of database server or network issues.	The reason for the System Failure needs to be investigated before rescheduling the job.	N/A

Step 3: Archive Eligible Records

Possible Return Codes	Condition	Recommendation	Other Instructions
Successful (1)	If the selected records are archived successfully.	N/A	N/A
Warning (4)	N/A	N/A	N/A
Non Fatal Error (8)	N/A	N/A.	N/A
Failed (12)	The job failed because of runtime exceptions for an unexpected situation.	This step is performed only if the parameter validation is successful. It can fail with fatal conditions only on encountering unknown exceptions. If that happens, investigate the exception reported by the process, resolve the error and	N/A

		reschedule the job.	
	Sample Message: "Error in deleting Federal Vendor Intercept Header."	The reason for the failure needs to be investigated before rescheduling the job	N/A
	Sample Message: "Error in deleting Federal Vendor Intercept Match."	The reason for the failure needs to be investigated before rescheduling the job.	N/A
Terminated(16)	The job is terminated manually by the user.	The reason for the termination needs to be investigated before rescheduling the job.	N/A
System Failure(20)	The job is terminated because of database server or network issues.	The reason for the System Failure needs to be investigated before rescheduling the job.	N/A

2.1.5 Federal Vendor Reversal Acknowledgement File Load

Batch Job Name	Federal Vendor Reversal Acknowledgement File Load
Recommended Frequency	This job can be run daily as part of the nightly cycle or on demand.
Single Instance Required	No
Can be restarted?	No
Reports generated	No

Overview

The Federal Vendor Reversal File Generation job updates the reversal acknowledgement code and amount reversed by the Bureau of Fiscal Service (BFS) on the Federal Vendor Intercept Activity (FEDACTV) table for associated transactions received from BFS on the State Agency Disbursing Office (SADO) Vendor Reversal Acknowledgement file. This job can upload more than one inbound SADO Vendor Reversal Acknowledgement file received from BFS into the Advantage application for each run.

The Federal Vendor Reversal File Generation job performs the following steps:

- Validates the job parameters.
- Identifies the SADO Vendor Reversal Acknowledgement file placed at the application server based on the “Import File Name Prefix” parameter value.
- If the SADO Vendor Reversal Acknowledgement file is not found at the server location, the job sets the Return Code to *Successful* and stops processing.
- If the SADO Vendor Reversal Acknowledgement file is found at the server location, the job identifies the records on the FEDACTV table based on the selection criteria and updates the FEDACTV records.
- Once all records in the SADO Vendor Reversal Acknowledgement file are processed, the process copies the file to the archive folder at the application server and deletes it from the import folder.

The following table shows the various steps that the Federal Vendor Reversal Acknowledgement File Load job goes through and the messages issued at each step:

Process Steps	Messages
1. Parameter Validation	Validating Batch Parameters. Parameters are valid or invalid depending on the Validation. If the parameter is invalid, the invalid value is displayed in the log. Batch Parameter validation completed.
2. Selection of Records	Select the SADO Vendor Reversal Acknowledgement file placed at the ExportImport location based on the job parameters. If the selection does not return any files, the following message is issued: “No SADO Vendor Reversal Acknowledgement files found on the application server” The job sets the Return Code to <i>Successful</i> and stops processing. If the selection returns a file, the file name is displayed in the job log: “<SADO Vendor Reversal Acknowledgement File Name>”.

Process Steps	Messages
<p>3. Processing Identified Records</p>	<p>While processing the identified file, the job log displays the following message: “processing file:<File Location> <SADO Vendor Reversal Acknowledgement File Name>”.</p> <p>If the identified SADO Vendor Reversal Acknowledgement file has no data, the following informational message is issued in the job log: "No Data records found in the file."</p> <p>If no matching records are found on the FEDACTV table, the following warning message is issued: “The Date Record with Payment Trace Number <Payment Trace Number of the Data Record>, TIN <Debtor TIN of the Data Record >, Reversal Amount Requested <Reversal Amount Requested of the Data Record > and Reversal Request Date <Reversal Request Date of the Data Record > does not exist on the FEDACTV table”.</p> <p>If records are identified on the FEDACTV table but the Reversal Status is not set to (3) <i>Reversal Request Pending Acknowledgement</i>, the following warning message is issued in the job log: “The Date Record with Payment Trace Number <Payment Trace Number of the Data Record>, TIN <Debtor TIN of the Data Record >, Reversal Amount Requested <Reversal Amount Requested of the Data Record > and Reversal Request Date <Reversal Request Date of the Data Record > is not pending reversal acknowledgement from BFS”.</p> <p>Once the records are processed, the following message is issued: “The SADO Vendor Reversal Acknowledgement file <file_name> was processed”.</p>

Restartability Information

This job does not support restartability. If the job fails it has to be rescheduled again.

Major Input

- Fed Vendor Reversal Acknowledgement file (For Example: NTSRAK_Dyyyycc_AG##_Psss)
 Note: the file naming convention is defined by the BFS TOP Agency Guide, which may be updated.
- Federal Vendor Intercept Activity (FEDACTV) table

Batch Parameters

Parameter	Description	Default Value
Import File Location for the Flat File.	Required	\$\$AMSIMPORT\$\$/ FMS/In_Files_From_FMS
Archive File Location for the Flat File.	Required	\$\$AMSIMPORT\$\$/ FMS/Arch_In_Files_From_FMS

Prefix of the Import Flat File Name.	Required	NTSRAK
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Major Output

- Federal Vendor Intercept Activity (FEDACTV) table

Job Return Code

Return Code	Condition
Successful (1)	This Return Code is issued under the following conditions: <ul style="list-style-type: none"> • Fed Vendor Reversal Acknowledgement file is loaded and the FEDACTV records are updated successfully. • The Reversal Acknowledgement file does not exist at the server location. • The Data record does not exist in the identified Reversal Acknowledgement file.
Warning (4)	This Return Code is issued under the following conditions: <ul style="list-style-type: none"> • No matching records are identified on the FEDACTV table based on the combination of Payment Trace Number, Debtor TIN, Reversal Amount Requested, and Reversal Request Date. • The Reversal Status is not set to Reversal Request Pending Acknowledgement (3).
Non fatal Error (8)	This Return Code is not issued for this job.
Failed (12)	The job will fail under the following conditions: <ul style="list-style-type: none"> • When the required parameters are kept blank. • Parameter values are invalid.
Terminated (16)	This Return Code is issued when the job is terminated by the user.
System Failure (20)	This Return Code is issued when the job is terminated because of database server or network issues.

Sort Criteria

N/A

Selection Criteria

The Federal Vendor Reversal Acknowledgement File Load job identifies the records on the FEDACTV table as follows:

- Corresponding to each data record on the identified Reversal Acknowledgement file, the job identifies the records on FEDACTV table based on the combination of Payment Trace Number, Debtor TIN, Reversal Amount Requested, and Reversal Request Date fields.
- If any records are identified, the job then verifies whether the Reversal Status is *Reversal Request Pending Acknowledgement (3)*.

Problem Resolution

The following table shows the possible Return Codes and recommendations for each processing step:

Step 1: Parameter Validation

Possible Return Codes	Condition	Recommendation	Other Instructions
Successful (1)	The job parameter validations are successful, that is, there are no errors raised during validations.	N/A	N/A
Warning (4)	N/A	N/A	N/A
Non Fatal Error (8)	N/A	N/A	N/A
Failed (12)	<p>All of the required parameters are not entered or invalid.</p> <p>Sample Message: Import File Location for Flat file parameter is required</p> <p>Sample Message: Invalid job parameters. Please correct and re-submit the job.</p> <p>Sample Message: AMSIMPORT is not a valid directory on the server. Please correct and re-submit the job.</p>	If the required parameters are not entered, enter the required parameters and reschedule the job.	N/A
Terminated (16)	The job is terminated manually by the user.	The reason for the termination needs to be investigated. The job can be rescheduled.	N/A
System Failure (20)	The job is terminated because of database server or network issues.	The reason for the System Failure needs to be investigated. The job can be rescheduled.	N/A

Step 2: Selection of Records

Possible Return Codes	Condition	Recommendation	Other instructions
Successful (1)	The system identifies the Fed Vendor Reversal Acknowledgement file Sample Message: Processing fie: <Reversal Acknowledgement File Name>	N/A	N/A
	When the Reversal Acknowledgement file is not found. Sample Message: No SADO Vendor Reversal Acknowledgement files found on the application server.	N/A	N/A
Warning (4)	N/A	N/A	N/A
Non Fatal Error (8)	N/A	N/A	N/A
Failed (12)	The job fails because of runtime exceptions for an unexpected situation.	The failure reason needs to be investigated. The job can be rescheduled.	N/A
Terminated (16)	The job is terminated manually by the user.	The reason for the termination needs to be investigated. The job can be rescheduled.	N/A
System Failure (20)	The job is terminated because of database server or network issues.	The reason for the System Failure needs to be investigated. The job can be rescheduled.	N/A

Step 3: Processing Identified records

Possible Return Codes	Condition	Recommendation	Other instructions
Successful (1)	The job successfully updates the identified FEDACTV records.	N/A	N/A

	<p>Sample Message: The SADO Vendor Reversal Acknowledgement file <file_name> was processed.</p>		
	<p>Data is not found in the identified Reversal Acknowledgement file.</p> <p>Sample Message: No Data records found in the file.</p>	N/A	N/A
Warning (4)	<p>No matching records are identified on the FEDACTV table corresponding to the data record on the Fed Vendor Reversal Acknowledgement file.</p> <p>Sample Message: The Date Record with Payment Trace Number <Payment Trace Number of the Data Record>, TIN <Debtor TIN of the Data Record >, Reversal Amount Requested <Reversal Amount Requested of the Data Record > and Reversal Request Date <Reversal Request Date of the Data Record > does not exist on the FEDACTV table.</p>	The reason for no record matching needs to be investigated. The job can be rescheduled after placing the appropriate input file at the server location.	N/A
	<p>The Reversal Status of the identified FEDACTV record is not set to (3) <i>Reversal request Pending Acknowledgement.</i></p> <p>Sample Message: The Date Record with Payment Trace Number <Payment Trace Number of the Data Record>, TIN <Debtor TIN of the Data Record >, Reversal Amount Requested</p>	N/A	N/A

	<Reversal Amount Requested of the Data Record > and Reversal Request Date <Reversal Request Date of the Data Record > is not pending reversal acknowledgement from BFS.		
Non Fatal Error (8)	N/A	N/A	N/A
Failed (12)	The job fails because of runtime exceptions for an unexpected situation.	The failure reason needs to be investigated. The job can be rescheduled.	N/A
Terminated (16)	The job is terminated manually by the user.	The reason for the termination needs to be investigated. The job can be rescheduled.	N/A
System Failure (20)	The job is terminated because of database server or network issues.	The reason for the System Failure needs to be investigated. The job can be rescheduled.	N/A

2.1.6 Federal Vendor Reversal File Generation

Batch Job Name	Federal Vendor Reversal File Generation
Recommended Frequency	This job can be run daily as part of the nightly cycle or on demand.
Single Instance Required	No
Can be restarted?	No
Reports generated	No

Overview

The Federal Vendor Reversal File Generation job identifies offset reversal requests on the Federal Vendor Intercept Activity (FEDACTV) table and creates a State Agency Disbursing Office (SADO) Vendor Reversal file for BFS, if applicable for the selected records. This job generates only one outbound SADO Vendor Reversal text file for BFS from the Advantage application per run.

The Federal Vendor Reversal File Generation job performs the following:

- Validates the job parameters.
- Identifies the records on the FEDACTV table based on the selection criteria.
- If the selection criteria does not return any records, the job ends and the SADO Vendor Reversal file is not generated. If any record is selected from the FEDACTV table, the job generates a fixed length SADO Vendor Reversal file consisting of Header and Data records.
- Updates the selected FEDACTV records.
- Posts the generated file to the *Out_Files_To_FMS* and *Arch_Out_Files_To_FMS* folder at the server.

The following table shows the various steps that the Federal Vendor Reversal File Generation job goes through and the messages issued at each step:

Process Steps	Messages
1. Parameter Validation	<ul style="list-style-type: none"> • Validating Batch Parameters. • Parameters are valid or invalid depending on the Validation. If the parameter is invalid, the invalid value is displayed in the log. • Batch Parameter validation completed.
2. Selection of Records	<ul style="list-style-type: none"> • If the selection does not return any records, then the following error message is issued: "No SADO Vendor Reversal file was generated". • If the selection returns any records, the following messages is issued in the job log: "Record Count: <Number of FEDACTV records selected>" "Total Amount: <Sum of the reversal amount for selected FEDACTV records>"
3. Generate SADO Vendor Reversal File	<ul style="list-style-type: none"> • The job generates a SADO Vendor Reversal file with Header and Data records for each selected record and the following message is issued in the log: "The SADO Vendor Reversal file <file_name> was generated".

Restartability Information

This job does not support restartability. If the job fails it has to be rescheduled again.

Major Input

- Federal Vendor Intercept Match (FEDMTCH) table
- Federal Vendor Intercept Activity (FEDACTV) table
- Application Parameters (APPCTRL) table

Batch Parameters

Parameter	Description	Default Value
Sequence ID of the Export Flat File Name. Possible values are: 001 and 002	Required	001
Export File Location for the Flat File	Required	\$\$AMSEXPORT\$\$/FMS/Out_Files_To_FMS/
Archive File Location for the Flat File	Required	\$\$AMSEXPORT\$\$/FMS/Arch_Out_Files_To_FMS/
First Segment of the Export Flat File Name	Required	IPNTSREV
Second Segment Prefix of the Export Flat File Name	Required	D
Third Segment Prefix of the Export Flat File Name	Required	AG
Fourth Segment Prefix of the Export Flat File Name	Required	P
Label ID for Export File	Required	NSVREVERSAL

Major Output

- SADO Vendor Reversal File (For Example: IPNTSREV_Dyymmdd_AG##_Psss.txt)
Note: The naming convention is defined in the BFS Agency Guide and may be updated.
- Federal Vendor Intercept Activity (FEDACTV) table

Job Return Code

Return Code	Condition
Successful (1)	<p>This Return Code is issued under the following conditions:</p> <ul style="list-style-type: none"> • When records are selected and the SADO Vendor Reversal file is generated successfully. • When none of the records are identified for reversal.

Return Code	Condition
Warning (4)	This Return Code is not issued by this job.
Non Fatal Error (8)	This Return Code is not issued by this job.
Failed (12)	The job will fail under the following conditions: <ul style="list-style-type: none"> Parameter values are not valid. If any exception is raised during the SADO Vendor Reversal file generation.
Terminated (16)	This Return Code is issued when the job is terminated by the user.
System Failure (20)	This Return Code is issued when the job is terminated because of database server or network issues.

Sort Criteria

The Federal Vendor Reversal File Generation job sorts the records from the FEDACTV table by the following fields before creating respective Data Records for the SADO Vendor Reversal file:

- TIN (ascending)
- TIN TYP (ascending)
- Federal Debt Sequence ID (descending)

Selection Criteria

The Federal Vendor Reversal File Generation job selects the records from the FEDACTV table based on the following selection criterial:

- Federal Payment Trace Number is not null.
- Reversal Status on the FEDACTV table is set to the value associated with “*Reversal Request Pending Transmission*” (2)
- Reversal Request Date is less than or equal to the Application System Date on APPCTRL.

Problem Resolution

The following table shows the possible Return Codes and recommendations for each processing step:

Step 1: Parameter Validation

Possible Return Codes	Condition	Recommendation	Other Instructions
Successful (1)	The job parameter validations are successful, that is, there are no errors raised during validations.	N/A	N/A

Warning (4)	N/A	N/A	N/A
Non Fatal Error (8)	N/A	N/A	N/A
Failed (12)	The required parameters are not entered or are invalid. Sample Message: EXPORT_FILE_NM1 parameter cannot be blank.	If the required parameters are not entered, enter the required parameters and reschedule the job.	N/A
	Sample Message: AMSEXPORT is not a valid directory on the server. Please correct and re-submit the job.	If the required parameters are not valid, enter the valid parameter value and reschedule the job.	N/A
Terminated (16)	The job is terminated manually by the user.	The reason for the termination needs to be investigated. The job can be rescheduled.	N/A
System Failure (20)	The job is terminated because of database server or network issues.	The reason for the System Failure needs to be investigated. The job can be rescheduled.	N/A

Step 2: Selection of Records

Possible Return Codes	Condition	Recommendation	Other instructions
Successful (1)	The system identifies the FEDACTV records. Sample Message: Record Count: <No of records selected from FEDACTV>	N/A	N/A
	Sample Message: Total Amount: <Sum of the reversal amount of all the selected FEDACTV records>	N/A	N/A
	When the system does not identify any FEDACTV record for reversal.	N/A	N/A

	Sample Message: No SADO Vendor Reversal file was generated.		
Warning (4)	N/A	N/A	N/A
Non Fatal Error (8)	N/A	N/A	N/A
Failed (12)	The job fails because of runtime exceptions for an unexpected situation.	The failure reason needs to be investigated. The job can be rescheduled.	N/A
Terminated (16)	The job is terminated manually by the user.	The reason for the termination needs to be investigated. The job can be rescheduled.	N/A
System Failure (20)	The job is terminated because of database server or network issues.	The reason for the System Failure needs to be investigated. The job can be rescheduled.	N/A

Step 3: Generate SADO Vendor Reversal File

Possible Return Codes	Condition	Recommendation	Other instructions
Successful (1)	The system identifies the records and generates the reversal file. Sample Message: The SADO Vendor Reversal file <file_name> was generated.	N/A	N/A
Warning (4)	N/A	N/A	N/A
Non Fatal Error (8)	N/A	N/A	N/A
Failed (12)	The job failed because of runtime exceptions for an unexpected situation.	The failure reason needs to be investigated before reschedule the job.	N/A
Terminated (16)	The job is terminated manually by the user.	The reason for the termination needs to be investigated. The job can be rescheduled.	N/A

System Failure (20)	The job is terminated because of database server or network issues.	The reason for the System Failure needs to be investigated. The job can be rescheduled.	N/A
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2.1.7 Federal AD Vendor Extract Chain

Chain or Job Name	Federal AD Vendor Extract Chain
Recommended Frequency	The Federal AD Vendor Extract Chain job can be run on a daily basis or on demand.
Single Instance Required	No
Can be restarted?	No
Reports generated	No

Overview

The Federal AD Vendor Extract chain job in Advantage Financial is a group of jobs that work together to identify unique Taxpayer ID Numbers for the Payment Requests scheduled for disbursement as checks or EFTs, and creates an ASCII fixed-length SADO Vendor Extract file for taxpayers or vendors with scheduled AD payments.

The Federal AD Vendor Extract Chain has the following jobs (each of the jobs listed below is described in subsequent sections):

1. Federal AD Vendor Selection
2. Federal Vendor Extract File Generation

Note: Even though the above jobs in the chain can be run individually by disabling other jobs, it is recommended to always run the entire chain.

The acceptable Pre-condition Return Code configuration depends on the business requirement. For example, if the requirement is that the subsequent jobs in the chain should continue only if the job ends with a Return Code of *Successful*, then the Pre-condition Return Codes for all of the jobs should be set to *Successful*. If for some jobs in the chain, a *Non Fatal Error* is an acceptable job Return Code, then that can also be configured. These configurations can be done on the Job Setup (BATSETUP) page.

For the Federal AD Vendor Extract File job configuration, the Federal Vendor Extract File Generation job will start only when the previous job ends with a return code of *Successful*. If the Federal AD Vendor Selection job ends with a Return Code other than *Successful*, then the Federal Vendor Extract File Generation job is set to *Inactive*.

Major Input

- Federal Vendor Intercept Header (FEDHDR) table
- Federal Vendor Intercept Extract (FEDEXT) table
- Disbursement Parameters (DISPA) table
- Disbursement Request (DISRQ) table
- Vendor Customer (VCUST) table
- 1099 Reporting Information (1099I) table
- Application Parameters (APPCTRL) table

Major Output

- Federal Vendor Intercept Header (FEDHDR) table
- Federal Vendor Intercept Extract (FEDEX) table
- Generate Vendor Extract file

Chain Job Return Code

The following table indicates the potential job Return Codes for the Federal AD Vendor Extract Chain job:

Return Code	Condition
Successful (1)	All of the jobs end successfully.
Warning (4)	One of the jobs in the chain ends with a Return Code of "Warning".
Non-Fatal Error (8)	One of the jobs in the chain ends with a Return Code of "Non-Fatal Error".
Failed (12)	One of the jobs in the chain ends with a Return Code of "Failed".
Terminated (16)	One of the jobs in the chain ends with a Return Code of "Terminated".
System Failure (20)	One of the jobs in the chain ends with a Return Code of "System Failure".

Problem Resolution

Please refer to the individual jobs for details regarding the specific job processes and problem resolution.

Federal AD Vendor Extract Chain: Federal AD Vendor Selection Job

Job Name	Federal AD Vendor Selection
Recommended Frequency	This job can be run on a daily basis or on demand.
Single Instance Required	No
Can be restarted?	No
Reports Generated	No

Overview

The Federal AD Vendor Selection job in the Federal AD Vendor Extract Chain job identifies the unique Taxpayer ID Numbers for Payment Requests scheduled for disbursement as checks or EFTs to non-miscellaneous vendors on the Disbursement Request (DISRQ) table. It will also select miscellaneous vendors if the SOPT option of Intercept Misc Vendor Payments is set to true. The selection of payment requests from the DISRQ table is based on the setup of the "From Date" and "To Date" for each active Transaction Code (AD or EFT) and Bank Account combination on the Disbursement Parameters (DISPA) table.

The Federal AD Vendor Selection job performs the following:

- Validate the job parameters.
- Identify the records from the Federal Vendor Intercept Header (FEDHDR) table with a file processing status between “2” and “7”; that is, the SADO Vendor Acknowledgement File was not processed for the prior payment cycle and the job stops processing.
- Identify the records from the DISRQ table based on the selection criteria and insert records into the FEDHDR and Federal Vendor Intercept Extract (FEDEXT) tables.

The following table shows the various steps that the Federal AD Vendor Selection job goes through and the messages issued at each step:

Process Steps	Messages
1. Parameter Validation	<ul style="list-style-type: none"> • Validating Batch Parameters. • Parameters are valid or invalid depending on the validation. If the parameter is invalid, the invalid value is displayed in the log. • Batch Parameter validation completed.
2. Selection of Records	<ul style="list-style-type: none"> • If the selection returns a record from the Federal Vendor Intercept Header (FEDHDR) table where the File Processing Status (FILE_PROC_STA_IND) value is “1”, the following informational message is issued: “The following FEDHDR records were bypassed: Agency Location Code: <Value>, Office ID: <Value>, Schedule Number: <Value>”. • If the selection returns a record from the Federal Vendor Intercept Header (FEDHDR) table where the File Processing Status (FILE_PROC_STA_IND) value is between “2” and “7”, that is, the SADO Vendor Acknowledgement File was not processed for the prior payment cycle, the following warning message is issued: “The prior SADO payment cycle was not completed for the FEDHDR record: Agency Location Code: <Value>, Office ID: <Value> Schedule Number: <Value>, File Processing Status: <Value>”. • Selecting records from the DISRQ table based on the DISPA setup issues the following message to the job log: “Number of taxpayers selected: <value>”. • If the selection does not return any records, the following warning message is issued: “No taxpayers were selected from the Disbursement Request (DISRQ) table”.
3. Processing the records	<ul style="list-style-type: none"> • Inserts records to the FEDHDR table corresponding to the selected DISRQ record and issues the following message: “FEDHDR record created with the following information: Office ID:<Value>, Payment Source: AD, Schedule Number:<Value>”.

Restartability Information

This job cannot be restarted. If the job fails due to any reason, a new job should be rescheduled after correcting the errors that caused the job to fail.

Major Input

- System Option (SOPT) table
- Disbursement Parameters (DISPA) table
- Disbursement Request (DISRQ) table
- Vendor Customer (VCUST) table
- 1099 Reporting Information (1099I) table
- Federal Vendor Intercept Header (FEDHDR) table
- Application Parameters (APPCTRL) table

Batch Parameters

Parameter Name	Description	Default Value
State Agency Identified	Required. State Agency Identifier: 001 - AD Payments 002 - CW Payments	001
Set Name Field to	Required. Set Name field to: 1 – Name on 1099I table 2 – Last Name on 1099I table	1

Major Output

- Federal Vendor Intercept Header (FEDHDR) table
- Federal Vendor Intercept Extract (FEDEXT) table

Job Return code

The following table shows the potential job Return Codes for the Federal AD Vendor Selection job.

Return Code	Condition
Successful (1)	This Return Code is issued under the following conditions: <ul style="list-style-type: none"> • If Payment Request records are selected and records are inserted to the FEDHDR and FEDEXT tables successfully. • If records are bypassed.
Warning (4)	This Return Code is issued under the following conditions: <ul style="list-style-type: none"> • If no payment request records were identified. • If the prior payment cycle was not completed.
Non fatal Error (8)	This Return Code is not issued for this job.
Failed (12)	The job will fail under the following conditions: <ul style="list-style-type: none"> • Parameters values are invalid. • Required parameter values are missing.

Return Code	Condition
	<ul style="list-style-type: none"> Run time exceptions for unexpected situations. <p>When this job ends with a Return Code of <i>Failed</i>, the subsequent jobs in the chain are set to <i>Inactive</i>.</p>
Terminated (16)	<p>This Return Code is issued when the job is terminated by the user. When this job ends with a Return Code of <i>Terminated</i>, the subsequent jobs in the chain are set to <i>Inactive</i>.</p>
System Failure (20)	<p>This Return Code is issued when the job is terminated because of database server or network issues. When this job ends with a Return Code of <i>System Failure</i>, the subsequent jobs in the chain are set to inactive.</p>

Sort Criteria

N/A

Selection Criteria

The Federal AD Vendor Selection job selects the records based on the following criteria:

- Select records from the Disbursement Parameters (DISPA) table if the Active flag is checked (ACT_FL is true "1").
- If the selected payment requests meet the criteria of any records on the Intercept Disbursement Exception (INTDBEX) table then the record is not eligible for selection:
 - If a DISRQ record with values of Transaction Code, Transaction Department, Transaction ID, Department, Object, Appropriation, TIN, and TIN Type matches any combination of Transaction Code, Transaction Department, Transaction ID, Department, Object, Appropriation, TIN, and TIN Type on the INTDBEX table, the DISRQ record is not eligible for selection.

Note: If any of the values on the INTDBEX table is blank, that value is treated as a wildcard and will include all values for that field.

- For each selected DISPA record, the job identifies the scheduled Payment Request (PR) records on the DISRQ table that meet **ALL** of the following conditions:
 - For non-miscellaneous vendors, the process will look for records where the Miscellaneous Account flag (MISC_ACCT_FL) of the DISRQ record is set to false and the SOPT Intercept Miscellaneous Vendor Payments (INCT_MISC_VPYMT_FL) field is set to false. (Fiscal Year field is used on DISRQ to perform the lookup to SOPT).
 - For miscellaneous vendors, it will look for records where the Miscellaneous Account flag (MISC_ACCT_FL) of the DISRQ record is set to true and the SOPT 'Intercept Miscellaneous Vendor Payments'(INCT_MISC_VPYMT_FL) field is set to true. (Fiscal Year field on DISRQ is used to perform the lookup to SOPT).
 - The User Hold flag (USER_HLD_FL) of the DISRQ record is set to false (0).
 - The Disbursement Management (DISB_MGMT_HLD_FL) flag of the DISRQ record is set to false (0).
 - The Bank Account Code (BANK_ACCT_CT) of the DISRQ record matches the Bank Account Code of the DISPA record.

- The Disbursement Type (DISB_TYP) of the DISRQ record matches the Disbursement Type of the DISPA record.
- The Scheduled Payment date (SCHED_PYMT_DT) of the DISRQ record is greater than or equal to the Begin Date of the DISPA record and is less than or equal to the End Date of the DISPA record.
- If the Disbursement Category (DISB_CAT) of the DISPA record is not null, the Disbursement Category of the DISRQ record matches the Disbursement Category of the DISPA record.
- If the Disbursement Category (DISB_CAT) of the DISPA record is null, consider all Disbursement Category values on the DISRQ table.
- If the Priority (DISB_PRTY_CD) of the DISPA record is not null, consider those records for which the Priority of the DISRQ record matches the Priority of the DISPA record.
- If the Priority (DISB_PRTY_CD) of the DISPA record is null, consider all Priority values on the DISRQ table.
- If the Transaction Department (DOC_DEPT_CD) of the DISPA record is not null, consider those records for which the Transaction Department of the DISRQ record matches the Transaction Department of the DISPA record.
- If the Transaction Department (DOC_DEPT_CD) of the DISPA record is null, consider all Transaction Department values on the DISRQ table.
- If the Online Disbursement (ONLN_DISB_RQST_FL) flag of the DISPA record is *true* (that is, 1), consider only the Online Disbursement value of *true* (that is, 1) on the DISRQ table.
If the Online Disbursement (ONLN_DISB_RQST_FL) flag of the DISPA record is *false* (that is, 0), consider the Online Disbursement values of *true* (1) and *false* (0) on the DISRQ table.
- Procurement Card Payment (PRCU_FL) flag on DISRQ is “false”.
- If there are Payment Requests selected from the DISRQ table after repeating the previous steps for all selected DISPA records, identify the unique TIN/TIN Type combinations and retrieve respective names from the 1099 Reporting Information (1099I) table or DISRQ table as follows:
 - Group selected Payment Requests from the DISRQ table by the Vendor Customer code (VCUST).
 - Retrieve TIN and TIN Type:
 - For non-miscellaneous vendors, retrieve the TIN (TIN) and TIN Type (TIN_TYP) associated with each selected unique Vendor from the VCUST table. In Advantage, more than one Vendor Customer Code can be associated with the same TIN/TIN Type combination. It is possible, to retrieve the same TIN/TIN Type from different vendor codes. If the VCUST record does not have TIN/TIN Type populated, skip the payment record.
 - For miscellaneous vendors, retrieve the TIN and TIN TYPE from the DISRQ table. If the TIN and TIN Type is blank for the miscellaneous vendor payment, skip the payment record.
 - Group Taxpayer ID Numbers selected from the VCUST table or DISRQ by the TIN and TIN Type combination.

- Use TIN and TIN Type combination to retrieve the Name (TIN_NM_1) and Names (TIN_NM_2), if not null, from the R_TIN_1099_INFO table. If the Taxpayer ID Number Type is SSN/ITIN/ATIN and the value of the Set Name Field to parameter is set to 2 (Last Name on 1099I Table), the system will set the Name (TIN_NM_1) field to the Last Name retrieved from the 1099I table else set the Name (TIN_NM_1) field to the Name field retrieved from the 1099I table.

Problem Resolution

The following table shows the possible Return Codes and recommendations for each processing step:

Step 1: Parameter Validation

Possible Return Codes	Condition	Recommendation	Other Instructions
Successful (1)	The job parameter validations are successful, that is, there are no errors raised during validations.	N/A	N/A
Warning (4)	N/A	N/A	N/A
Non Fatal Error (8)	N/A	N/A	N/A
Failed (12)	All of the required parameters are not entered or are invalid. Sample Message: Invalid State Agency Identifier.	If the required parameters are not entered, enter the required parameters and reschedule the chain job.	N/A
	Sample Message: FED_AGCY_LOC_CD parameter not found or blank on APPCTRL table.	Populate the FED_AGCY_LOC_CD parameter value on the APPCTRL table and reschedule the chain job.	N/A
Terminated (16)	The job is terminated manually by the user.	The reason for the termination needs to be investigated. The chain job can be rescheduled.	N/A
System Failure (20)	The job is terminated because of database server or network issues.	The reason for the System Failure needs to be investigated. The chain job can be rescheduled.	N/A

Step 2: Selection of Records

Possible Return Codes	Condition	Recommendation	Other Instructions
Successful (1)	Records are identified on the DISRQ table based on the DISPA setup. Sample Message: Number of taxpayers selected: <value>.	N/A	N/A
	The job identifies a record on the FEDHDR table with the File Processing Status value of "1": Sample Message: The following FEDHDR records were bypassed: Agency Location Code: <Value>, Office ID: <Value> Schedule Number: <Value>.	N/A	N/A
Warning (4)	When no records are selected as per the selection criteria. Sample Message: "No taxpayers were selected from the Disbursement Request table."	N/A	N/A
	If there is any Pending cycle on FEDHDR. Sample Message: The prior SADO payment cycle was not completed for the FEDHDR record: Agency Location Code <FED_AGCY_LOC_CD>, Office ID <FED_OFFC_ID>, Schedule Number <FED_SCHED_NUM>, File Processing Status <CVL_FED_FILE_PROC_CV>	N/A	N/A
Non Fatal Error (8)	N/A	N/A	N/A
Failed (12)	The job failed because of runtime exceptions for an unexpected situation.	This step is performed only if the parameter validation is successful. It can fail with fatal conditions on encountering unknown	N/A

		exceptions. If that happens, investigate the exception reported by the process, resolve the error, and reschedule the entire chain.	
Terminated(16)	The job is terminated manually by the user.	The reason for the termination needs to be investigated before rescheduling the entire chain.	N/A
System Failure(20)	When the job is terminated because of database server or network issues.	The reason for the System Failure needs to be investigated before rescheduling the entire chain.	N/A

Step 3: Processing the records

Possible Return Codes	Condition	Recommendation	Other Instructions
Successful (1)	When a record is inserted to FEDHDR and FEDEXT tables successfully: Sample Message: FEDHDR record created with the following information: Office ID:<Value>, Payment Source: AD, Schedule Number:<Value>.	N/A	N/A
Warning (4)	N/A	N/A	N/A
Non Fatal Error (8)	N/A	N/A	N/A
Failed (12)	The job failed because of runtime exceptions for an unexpected situation.	The failure reason needs to be investigated before rescheduling the chain job.	N/A
Terminated (16)	The job is terminated manually by the user.	The reason for the termination needs to be investigated. The chain job can be rescheduled.	N/A

System Failure (20)	The job is terminated because of database server or network issues.	The reason for the System Failure needs to be investigated. The chain job can be rescheduled.	N/A
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Federal AD Vendor Extract Chain: Fed Vendor Extract File Generation Job

Job Name	Federal Vendor Extract File Generation
Recommended Frequency	This job can be run weekly or on demand.
Single Instance Required	No
Can be restarted?	No
Reports Generated	No

Overview

The Federal Vendor Extract File Generation job creates an ASCII fixed-length SADO Vendor Extract for taxpayers or vendors with scheduled AD payments. This batch job uses the records inserted by the previous job (Fed AD Vendor Selection job) as an input and creates a fixed length SADO Vendor Extract file.

The Federal Vendor Extract File Generation job performs the following:

- Validate the job parameters.
- Identify the records on the FEDHDR table based on the selection criteria.
- Create the Header record of the fixed-length SADO Vendor Extract file from the identified FEDHDR records.
- Create a Data record of the fixed-length SADO Vendor Extract file from the FEDEXT record corresponding to each identified FEDHDR record.
- Post the generated file to the *Out_Files_To_FMS* and *Arch_Out_Files_To_FMS* folder at the application server location.

The following table shows the various steps that the Federal Vendor Extract File Generation Job goes through and the messages issued at each step:

Process Steps	Messages
1. Parameter Validation	<ul style="list-style-type: none"> • Validating Batch Parameters. • Parameters are valid or invalid depending on the Validation. If the parameter is invalid, the invalid value is displayed in the log. • Batch Parameter validation completed.
2. Selection of Records	<ul style="list-style-type: none"> • Select record from FEDHDR table based on the File Processing Status and Payment Source and if the selection does not return any records, the following warning message is issued: "The SADO Vendor Extract file was not generated" and "No files were selected from FEDHDR table".
3. Create SADO Vendor Extract File	<ul style="list-style-type: none"> • When a SADO Vendor Extract file is created successfully, the following message is issued to the job log: "The SADO Vendor Extract File <file_name> for the Office ID (FED_OFFC_ID) and

Process Steps	Messages
	Schedule Number (FED_SCHED_NUM) was generated".

Restartability Information

This job does not support restartability. If the job fails it has to be rescheduled again.

Major Input

- Federal Vendor Intercept Header (FEDHDR) table
- Federal vendor Intercept Extract (FEDEXT) table
- Application Parameters (APPCTRL) table

Batch Parameters

Parameter Name	Description	Default Value
Export File Location	This is a required parameter. The export file location for the flat file.	\$\$AMSEXPORT\$\$/FMS/ Out_Files_To_FMS/
Archive Export File Location	This is a required parameter. The archive file location for the flat file.	\$\$AMSEXPORT\$\$/FMS/ Arch_Out_Files_To_FMS/
Export File Name – 1 st Segment	This is a required parameter. The first segment of the export flat file name.	IPNTSEXT
Export File Name – 2 nd Segment Prefix	This is a required parameter. The second segment prefix of the export flat file name.	C
Export File Name – 3 rd Segment Prefix	This is a required parameter. The third segment prefix of the export flat file name.	AG
Export File Name - 4 th Segment Prefix	This is a required parameter. The fourth segment prefix of the export flat file name.	P
Payment Source	This is a required parameter. The source of payments are: AD – Automated Disbursement CW – Check Writer	AD

Major Output

- Federal Vendor Intercept Header (FEDHDR) table
- Federal Vendor Intercept Extract (FEDEXT) table
- Generate SADO Vendor Extract File (Example: IPNTSEXT_Cyymmdd_AG##_Psss.txt)
Note: The naming convention is defined in the BFS Agency Guide and may be updated.

Job Return code

The following table shows the potential job Return Codes for the Fed Vendor Extract File Generation job.

Return Code	Condition
Successful (1)	The FEDHDR and FEDEXT tables are updated and the SADO Vendor Extract file is created successfully.
Warning (4)	<ul style="list-style-type: none"> This Return Code is issued under the following conditions: No records are selected from the FEDHDR table.
Non Fatal Error (8)	<ul style="list-style-type: none"> This Return Code is not issued for this job.
Failed (12)	The job will fail under the following conditions: <ul style="list-style-type: none"> Parameters are invalid. Parameter is blank.
Terminated (16)	This Return Code is issued, when the job is terminated by the user.
System Failure (20)	This Return Code is issued when the job is terminated because of database server or network issues.

Sort Criteria

N/A

Selection Criteria

The Federal Vendor Extract File Generation job selects the records based on the following criteria:

- Select the record from the FEDHDR table that meets **ALL** of the following conditions:
 - The File Processing Status (FILE_PROC_STA_IND) on the FEDHDR table is set to the value associated with “**Pending Vendor File Generation**” (1) on the File Processing Status (that is, pending transmission to BFS).
 - The Payment Source (PYMT_SRC) on the FEDHDR table matches the value specified on the respective parameter field (that is, either CW or AD).

Problem Resolution

The following table shows the possible Return Codes and recommendations for each processing step:

Step 1: Parameter Validation

Possible Return Codes	Condition	Recommendation	Other Instructions
Successful (1)	The job parameter validations are successful, that is, there are no errors	N/A	N/A

	raised during validations.		
Warning (4)	N/A	N/A	N/A
Non Fatal Error (8)	N/A	N/A	N/A
Failed (12)	All of the required parameters are not entered or are invalid. Sample Message: Invalid Parameter ARCHEXPORT<Value> is not a valid directory on the server.	If the required parameters are not entered or are invalid, enter the required parameters and reschedule the chain job.	N/A
	Sample Message: ARCHEXPORT parameter cannot be blank.	If the parameters are blank, enter the valid parameter value and reschedule the chain job.	N/A
Terminated (16)	The job is terminated manually by the user.	The reason for the termination needs to be investigated. The chain job can be rescheduled.	N/A
System Failure (20)	The job is terminated because of database server or network issues.	The reason for the System Failure needs to be investigated. The chain job can be rescheduled.	N/A

Step 2: Selection of Records

Possible Return Codes	Condition	Recommendation	Other Instructions
Successful (1)	A FEDHDR record is identified to be written to the SADO Vendor Extract File.	N/A	N/A
Warning (4)	No records are identified as per the selection criteria. Sample Message: No Vendor Extract file was generated.	N/A	N/A
Non Fatal Error (8)	N/A	N/A.	N/A

Failed (12)	The job failed because of runtime exceptions for an unexpected situation.	This step is performed only if the parameter validation is successful. It can fail with fatal conditions only on encountering unknown exceptions. If that happens, investigate the exception reported by the process, resolve the error and reschedule the entire chain.	N/A
Terminated(16)	The job is terminated manually by the user.	The reason for the termination needs to be investigated before rescheduling the entire chain.	N/A
System Failure(20)	The job is terminated because of database server or network issues.	The reason for the System Failure needs to be investigated before rescheduling the entire chain.	N/A

Step 3: Create SADO Vendor Extract File

Possible Return Codes	Condition	Recommendation	Other instructions
Successful (1)	The flat file is created and the FEDHDR and FEDEXT records are updated successfully. Sample Message: The SADO Vendor Extract File <file_name> for the Office ID (FED_OFFC_ID) and Schedule Number (FED_SCHED_NUM) was generated.	N/A	N/A
Warning (4)	N/A	N/A	N/A
Non Fatal Error (8)	N/A	N/A	N/A
Failed (12)	The job failed because of runtime exceptions for an unexpected situation.	The failure reason needs to be investigated before rescheduling the chain job.	N/A

Terminated (16)	The job is terminated manually by the user.	The reason for the termination needs to be investigated. The chain job can be rescheduled.	N/A
System Failure (20)	The job is terminated because of database server or network issues.	The reason for the System Failure needs to be investigated. The chain job can be rescheduled.	N/A

2.1.8 Federal AD Vendor Match Chain

Job Name	Federal AD Vendor Match Chain
Recommended Frequency	The Federal AD Vendor Match Chain job can be run on a daily basis or on demand.
Single Instance Required	No
Can be restarted?	No
Reports generated	No

Overview

The Federal AD Vendor Match chain job in Advantage Financial is a group of jobs that work together to load the federal debts received from the U.S. Department of Treasury's Bureau of Fiscal Service (BFS) on the Non-Offset State Agency Disbursing Office (SADO) Vendor Match file(s) for AD payments into the Federal Vendor Intercept Header (FEDHDR) and Federal Vendor Intercept Match (FEDMTCH) tables and create an Intercept Request (INTR) XML file for the applicable federal debts uploaded into the FEDMTCH table.

The Federal AD Vendor Match chain job has the following jobs (each of the jobs listed below is described in subsequent sections):

1. Federal Vendor Match File Load
2. Federal Vendor Debt Match XML File Generation

Note: Even though the above jobs in the chain can be run individually by disabling other jobs, it is recommended to always run the entire chain.

The acceptable Pre-condition Return Code configuration depends upon the business requirement. For example, if the requirement is that the subsequent jobs in the chain should continue only if the job ends with a Return Code of *Successful*, then the Pre-condition Return Codes for all of the jobs should be set to *Successful*. If for some jobs in the chain, a *Non Fatal Error* is an acceptable job Return Code, then that can also be configured. These configurations can be done on the Job Setup (BATSETUP) page.

For the Federal AD Vendor Match job configuration, the Federal Vendor Debt Match XML File Generation job is started after the previous job ends with a Return Code of *Successful*. If the Federal Vendor Match File Load job ends with a Return Code other than *Successful*, then the Federal Vendor Debt Match XML File Generation job is set to *Inactive*.

Major Input

- Federal Vendor Match File (Example: TMATCH.Cyymmdd.AG##.Psss.txt)
- Note: the naming convention is defined by BFS and may be updated.
- Federal Vendor Intercept Header (FEDHDR) table
- Federal Vendor Intercept Match (FEDMTCH) table
- Application Parameters (APPCTRL) table

Major Output

- Federal Vendor Intercept Header (FEDHDR) table

- Federal Vendor Intercept Match (FEDMTCH) table
- Generate INTR xml file (Example: INTR_FMS.xml)

Chain Job Return Code

The following table indicates the potential Return Codes. Note that the chain job will end with the highest Return Code across all of the jobs.

Return Code	Condition
Successful (1)	All of the jobs end successfully
Warning (4)	One of the jobs in the chain ends with a Return Code of "Warning"
Non Fatal Error (8)	One of the jobs in the chain ends with a Return Code of "Non Fatal Error"
Failed (12)	One of the jobs in the chain ends with a Return Code of "Failed"
Terminated (16)	One of the jobs in the chain ends with a Return Code of "Terminated"
System Failure (20)	One of the jobs in the chain ends with a Return Code of "System Failure"

Problem Resolution

Please refer to the individual jobs for details regarding the specific job processes and problem resolution.

Federal AD Vendor Match Chain: Federal Vendor Match File Load Job

Job Name	Federal Vendor Match File Load
Recommended Frequency	This job can be run daily or on demand.
Single Instance Required	No
Can be restarted?	No
Reports Generated	No

Overview

The Federal Vendor Match File Load job in the Federal AD Vendor Match Chain loads the federal debts received in the Non-Offset SADO Vendor Match file from BFS to the Federal Vendor Intercept Header (FEDHDR) and Federal Vendor Intercept Match (FEDMTCH) tables. This batch process can upload more than one inbound Non-Offset SADO Vendor Match file received from BFS into the Advantage application during each run. This job can also upload an inbound file with a header record only.

The Federal Vendor Match File Load job performs the following:

- Validate the job parameters.
- Identify the SADO Vendor Match file placed at the application server based on the "Import File Name Prefix" parameter value.

- If the SADO Vendor Match files are not found at the server, the process sets the job Return Code to “Warning” and stop processing.
- If the SADO Vendor Match files are found at the server, the process verifies if it belongs to the same State/Province by comparing the Agency Location Code on the Header record of the SADO Vendor Match file and the Agency Location Code parameter value on the APPCTRL table.
 - If the file belongs to other State/Province, the process sets the job Return Code to “Warning” and stop processing.
 - If the file belongs to same State/Province, the process obtains Schedule Number from the Header Record of the SADO Vendor Match file and uses it to locate the respective record on the FEDHDR table.
- If the SADO Vendor Match file is found with only a Header record, the system only updates the FEDHDR record.
- If the SADO Vendor Match file is found with the Header and Data records, the system updates the FEDHDR records and inserts new records to the FEDMTCH table.
- Once all of the records in the SADO Vendor Match file are processed, the process copies the file to the archive folder at the application server and deletes it from the import folder.

The following table shows the various steps that the Federal Vendor Match File Load job goes through and the messages issued at each step:

Process Steps	Messages
1. Parameter Validation	<ul style="list-style-type: none"> • Validating Batch Parameters and APPCTRL parameter. • Parameters are valid or invalid depending on the validation. If the parameter is invalid, the invalid value is displayed in the log. • Batch Parameter validation completed.
2. Selection of Records	<ul style="list-style-type: none"> • While searching for the SADO Vendor Match file the job log displays the following message: “Searching for files...” • If the selection does not return any files, the following warning message is issued: “No SADO Vendor Match files found on the server.” • If the selection returns file(s), the file name is displayed in the job log: “<SADO Vendor Match File Name>”.
3. Processing the records	<ul style="list-style-type: none"> • While processing the identified file, the job log displays the following message: “processing file:<SADO Vendor Match File Name>” • If the identified SADO Vendor Match File is found with only a Header record and no Data record, the following information message is issued in the job log: “The SADO Vendor Match file <file_name> uploaded into the FEDHDR table only.” • If the Agency Location Code on the Header of the SADO Vendor Match file does not match with the Agency location Code parameter on APPCTRL, the

Process Steps	Messages
	<p>system issues the following warning message to the job log: “The SADO Vendor Match file <file_name> belongs to another State.”</p> <ul style="list-style-type: none"> • If the system does not find any matching record on the FEDHDR table corresponding to the Header record of the SADO Vendor Match file, the system issues the following warning message to the job log: “The SADO Vendor Match file <file_name> does not exist on the FEDHDR table.” • If the system finds the matching record on the FEDHDR table but the File Processing Status is not set to Vendor File Generated (2), the following warning message is issued in the job logs: “The status of the SADO Vendor Match file <file_name> is not set to ‘Vendor File Generated’ on the FEDHDR table.” • If the respective Header record is found on the FEDHDR table, the “File Processing Status” (FILE_PROC_STA_IND) is set to “Vendor File Generated” (that is, 2 for CVL_FED_FILE_PROC), and the Vendor Match File includes Data records, the job updates the FEDHDR and FEDMTCH records and posts the following <i>informational message</i> to the job log: “The SADO Vendor Match file <file_name> uploaded into the FEDHDR and FEDMTCH tables”.

Restartability Information

This job does not support restartability. If the job fails, the entire chain job has to be rescheduled again.

Major Input

- Federal Vendor Intercept Header (FEDHDR) table
- Application Parameters (APPCTRL) table
- Federal Vendor Match File (Example: TMATCH_Cyymmdd_AG##_Psss.txt)
- Note: The naming convention is defined by BFS and may be updated.

Batch Parameters

Parameter Name	Description	Default Value
Import File Location	This is a required parameter. This parameter provides the import file location of the flat file.	\$\$AMSIMPORT\$\$/ FMS/In_Files_From_FMS
Archive Import File Location	This is a required parameter. This parameter provides the archive file location of the flat file.	\$\$AMSIMPORT\$\$/ FMS/Arch_In_Files_From_FMS

Parameter Name	Description	Default Value
Import File Name Prefix	This is a required parameter. This parameter provides the prefix of the import flat file name.	TMATCH

Major Output

- Federal Vendor Intercept Header (FEDHDR) table
- Federal Vendor Intercept Match (FEDMTCH) table

Job Return Code

The following table shows the potential job Return Codes for the Federal Vendor Match File Load job:

Return Code	Condition
Successful (1)	The job returns Successful under the following conditions: <ul style="list-style-type: none"> • If the SADO Vendor Match file is found with only a Header record and without a Data record and the job successfully updates the FEDHDR records. • If the SADO Vendor Match file is found with a Header and Data record and the job successfully updates the FEDHDR and FEDMTCH records.
Warning (4)	This Return Code is issued because of the following reasons: <ul style="list-style-type: none"> • The SADO Vendor Match files are not found on the server location. • The SADO Vendor Match file belongs to another State/Province. • Matching FEDHDR records are not identified. • The File Processing Status is not set to Vendor File Generated (2).
Non Fatal Error (8)	N/A
Failed (12)	The job will fail under the following conditions: <ul style="list-style-type: none"> • Parameters values are invalid. • Required parameter values are missing. • Run time exceptions for unexpected situations. When this job ends with a Return Code of <i>Failed</i> , the subsequent jobs in the chain are to <i>Inactive</i> .
Terminated (16)	This return code is issued when the job is terminated by the user. When this job ends with a Return Code of <i>Terminated</i> , the subsequent jobs in the chain are set to <i>Inactive</i> .
System Failure (20)	This return code is issued when the job is terminated because of database server or network issues. When this job ends with a Return Code of System Failure, the subsequent jobs in the chain are set to <i>Inactive</i> .

Sort Criteria

N/A

Selection Criteria

The Federal AD Vendor Match file Load job identifies the match file and the record on the FEDHDR table based on the following criteria:

- Select SADO Vendor Match file(s) using the value of the Import File Name Prefix parameter (example: TMATCH) from the import file location of the Application server.
- The system obtains the Schedule Number from the Header record of the Match file to locate respective record on FEDHDR table. If any FEDHDR record is identified, the system verifies whether the File Processing Status is **Vendor File Generated (2)**.

Problem Resolution

The following table shows the possible Return Codes and recommendations for each processing step.

Step 1: Parameter Validation

Possible Return Codes	Condition	Recommendation	Other Instructions
Successful (1)	The job parameter validations are successful, that is, there are no errors raised during validations.	N/A	N/A
Warning (4)	N/A	N/A	N/A
Non Fatal Error (8)	N/A	N/A	N/A
Failed (12)	All of the required parameters are not entered or invalid. Sample Message: Invalid Import File Location.	If the required parameters are not entered, enter the required parameters and reschedule the chain job.	N/A
Terminated (16)	The job is terminated manually by the user.	The reason for the termination needs to be investigated. The chain job can be rescheduled.	N/A
System Failure (20)	When the job is terminated because of database server or network issues.	The reason for the System Failure needs to be investigated. The chain job can be rescheduled.	N/A

Step 2: Selection of Records

Possible Return Codes	Condition	Recommendation	Other Instructions
Successful (1)	When the job identifies a file at the server location. Sample Message: <SADO Vendor Match File Name>	N/A	N/A
Warning (4)	When the Vendor Match file is not found at the Application server. Sample Message: No SADO Vendor Match files found on the server.	N/A	N/A
Non Fatal Error (8)	N/A	N/A	N/A
Failed (12)	The job failed because of runtime exceptions for an unexpected situation.	The reason for the failure needs to be investigated before rescheduling the chain job.	N/A
Terminated(16)	The job is terminated manually by the user.	The reason for the termination needs to be investigated before rescheduling the chain job.	N/A
System Failure(20)	The job is terminated because of database server or network issues.	The reason for the System Failure needs to be investigated before rescheduling the chain job.	N/A

Step 3: Processing the records

Possible Return Codes	Condition	Recommendation	Other Instructions
Successful (1)	The system identifies the Federal Vendor Match file and processes it successfully.	N/A	N/A
	When the system finds the SADO Vendor Match file with only a Header record. Sample Message: The SADO Vendor Match file	N/A	N/A

	< file_name > uploaded into the FEDHDR table only.		
	When the system finds the SADO Vendor Match file with a Header and a Data record. Sample Message: The SADO Vendor Match file < file_name > uploaded into the FEDHDR and FEDMTCH tables.	N/A	N/A
Warning (4)	The identified Fed Vendor Match file belongs to other State/Province. Sample Message: The SADO Vendor Match file < file_name > belongs to another State.	N/A	N/A
	If the File Processing Status of the identified FEDHDR record is not (2) "Vendor File Generated". Sample Message: The status of the SADO Vendor Match file < file_name > is not set to 'Vendor File Generated' on the FEDHDR table.	N/A	N/A
	If the Schedule Number on the Match file does not match with the FEDHHDR record. Sample Message: The SADO Vendor Match file < file_name > does not exist on the FEDHDR table.	N/A	N/A
Non Fatal Error (8)	N/A	N/A	N/A
Failed (12)	The job failed because of runtime exceptions for an unexpected situation.	The reason for the failure needs to be investigated before rescheduling the chain job.	N/A
Terminated(16)	The job is terminated manually by the user.	The reason for the termination needs to be investigated before rescheduling	N/A

		the chain job.	
System Failure(20)	The job is terminated because of database server or network issues.	The reason for the System Failure needs to be investigated before rescheduling the chain job.	N/A

Federal AD Vendor Match File Chain: Fed Vendor Debt Match XML File Generation Job

Job Name	Federal Vendor Debt Match XML File Generation
Recommended Frequency	This job can be run daily or on demand.
Single Instance Required	No
Can be restarted?	No
Reports Generated	No

Overview

The Federal Vendor Debt Match XML File Generation batch job creates an external debts (INTR) XML file for federal debts uploaded into the Federal Intercept Match (FEDMTCH) table. This batch process creates only one Intercept Request (INTR) XML file per run.

The Federal Vendor Debt Match XML File Generation job performs the following:

- Validates the job parameters.
- Identifies the record on the FEDHDR table based on the selection criteria.
- Updates the identified FEDHDR record.
- Updates the FEDMTCH records corresponding to each identified FEDHDR record.
- Generates an Intercept Request (INTR) XML file and archives the existing file at the Application server location.

The following table shows the various steps that the Federal Vendor Debt Match XML File Generation job goes through and the messages issued at each step:

Process Steps	Messages
1. Parameter Validation	<ul style="list-style-type: none"> • Validating Batch Parameters and APPCTRL parameter. • Parameters are valid or invalid depending on the Validation. If the parameter is invalid, the invalid value is displayed in the log. • Batch Parameter validation completed.
2. Selection of Records	<ul style="list-style-type: none"> • If no records are selected from the FEDHDR table, the following <i>warning message</i> is issued to the log: "No SADO Vendor Match file selected for intercept processing." and stops the job processing. • If the selection returns a record, the job processes it and creates the INTR XML file.

Process Steps	Messages
3. Create INTR.xml file	<ul style="list-style-type: none"> When the generation of the INTR xml file is bypassed, the following informational message is issued in the job log: "The generation of the INTR XML file was bypassed for the FEDHDR record with the Office ID <the FED_OFFC_ID of the R_FED_INCT_HDR record> and the Schedule Number <the FED_SCHED_NUM of the R_FED_INCT_HDR record>". When the INTR xml file is created, the following message is issued to the job log: "The INTR XML file was generated for the FEDHDR record with the Office ID <the FED_OFFC_ID of the R_FED_INCT_HDR record> and the Schedule Number <the FED_SCHED_NUM of the R_FED_INCT_HDR record>". When the INTR xml file is created with no records, the following warning message is issued in the job log: "Empty INTR XML file created".

Restartability Information

This job does not support restartability. If the job fails, the entire job has to be rescheduled again.

Major Input

- Federal Vendor Intercept Header (FEDHDR) table
- Federal vendor Intercept Match (FEDMTCH) table
- Application Parameters (APPCTRL) table

Batch Parameters

Parameter Name	Description	Default Value
Export File Location	This is a required parameter. This parameter provides the export file location for the INTR XML File.	\$\$AMSEXPORT\$\$/FMS/ FMS_XML_Files/
Archive Export File Location	This is a required parameter. This parameter provides the archive file location for the INTR XML File.	\$\$AMSEXPORT\$\$/FMS/ Arch_FMS_XML_Files/
Export File Name	This is a required parameter. This parameter provides the INTR XML file name that needs to be exported.	INTR_FMS.xml
Entity Code	This is a required parameter. This parameter provides the Entity Code assigned for federal debts	N/A

Parameter Name	Description	Default Value
Debt Type Code	This is a required parameter. This parameter provides the Debt Type Code assigned for federal debts	N/A
Department Code	This is a required parameter. This parameter provides the Department Code for the FMS debts.	N/A
Unit Code	This is a required parameter. This parameter provides the Unit Code for the FMS debts.	N/A
Start Due Date	This is a required parameter. This parameter provides the starting due date for Intercept Requests.	N/A
Payment Source	This is a required parameter. Valid source of payments are: <ul style="list-style-type: none"> • CW – Check Writer • AD – Automated Disbursement 	N/A

Major Output

- Federal Vendor Intercept Header (FEDHDR) table
- Federal Vendor Intercept Match (FEDMTCH) table
- Generate INTR xml file (Example: INTR_FMS.xml)

Job Return Code

The following table shows the potential job Return Codes for the Fed Vendor Debt Match XML File Generation job.

Return Code	Condition
Successful (1)	This Return Code is issued under the following conditions: <ul style="list-style-type: none"> • When the INTR xml file is generated and the FEDHDR and FEDMTCH tables are updated successfully.
Warning (4)	<ul style="list-style-type: none"> • This Return Code is issued under the following conditions: <ul style="list-style-type: none"> • If no record are selected from the FEDHDR table. • When an empty INTR xml file is created.
Non Fatal Error (8)	<ul style="list-style-type: none"> • This Return Code is not issued for this job.
Failed (12)	The job will fail under the following conditions: <ul style="list-style-type: none"> • Parameters are invalid.

Return Code	Condition
	<ul style="list-style-type: none"> Required parameters are blank.
Terminated (16)	This Return Code is issued when the job is terminated by the user.
System Failure (20)	This Return Code is issued when the job is terminated because of database server or network issues.

Sort Criteria

The Federal Vendor Debt Match XML File Generation job sorts all the selected FEDMTCH records by the Debt Sequence ID in ascending order.

Selection Criteria

The Federal Vendor Debt Match XML File Generation job selects the records based on the following criteria:

The selection criteria of the records for bypassing the generation of the INTR XML file:

- The File Processing Status (FILE_PROC_STA_IND) of the FEDHDR record is set to *Match File Loaded* (that is, 3 for CVL_FED_FILE_PROC) and one of the following two conditions are true:
 - The File Date (FILE_DT) of the FEDHDR record does not match the Advantage Application System Date specified for the *Application System Date* parameter on the Application Parameters (APPCTRL) table; OR
 - The Payment Source (PYMT_SRC) of the FEDHDR record does not match the value specified for the Payment Source parameter.

The selection criteria of the records for generation of the INTR XML file:

- The File Processing Status (FILE_PROC_STA_IND) of the Header record is set to *Match File Loaded* (that is, 3 for CVL_FED_FILE_PROC), and
- The File Date (FILE_DT) of the Header record matches the Advantage application System Date specified in the *Application System Date* parameter on the Application Parameters (APPCTRL) table; AND
- The Payment Source (PYMT_SRC) of the Header record matches the value specified on the respective parameter field Payment Source.

Problem Resolution

The following table shows the possible Return Codes and recommendations for each processing step:

Step 1: Parameter Validation

Possible Return Codes	Condition	Recommendation	Other Instructions
Successful (1)	The job parameter validations are successful, that is, there are no errors raised	N/A	N/A

	during validations.		
Warning (4)	N/A	N/A	N/A
Non Fatal Error (8)	N/A	N/A	N/A
Failed (12)	All of the required parameters are not entered or are invalid. Sample Message: Invalid Parameter ARCHEXPORT<Value> is not a valid directory on the server.	If the required parameters are not entered, enter the required parameters and reschedule the chain job.	N/A
	Sample Message: ARCHEXPORT parameter cannot be blank.	If the parameters are blank, enter the valid parameter value and reschedule the chain job.	N/A
Terminated (16)	The job is terminated manually by the user.	The reason for the termination needs to be investigated. The chain job can be rescheduled.	N/A
System Failure (20)	The job is terminated because of database server or network issues.	The reason for the System Failure needs to be investigated. The chain job can be rescheduled.	N/A

Step 2: Selection of Records

Possible Return Codes	Condition	Recommendation	Other Instructions
Successful (1)	The records are selected as per the selection criteria.	N/A	N/A
Warning (4)	No records are identified as per the selection criteria for the generation of the INTR xml file. Sample Message: No SADO Vendor Match file selected for intercept processing.	N/A	N/A
Non Fatal Error (8)	N/A	N/A.	N/A

Failed (12)	The job failed because of runtime exceptions for an unexpected situation.	The reason for the failure needs to be investigated before rescheduling the chain job.	N/A
Terminated(16)	The job is terminated manually by the user.	The reason for the termination needs to be investigated before rescheduling the chain job.	N/A
System Failure(20)	The job is terminated because of database server or network issues.	The reason for the System Failure needs to be investigated before rescheduling the chain job.	N/A

Step 3: Create INTR XML file

Possible Return Codes	Condition	Recommendation	Other instructions
Successful (1)	The XML file is created and the FEDHDR and FEDMTCH records are updated successfully. Sample Message: The INTR XML file was generated for the FEDHDR record with the Office ID <the FED_OFFC_ID of the R_FED_INCT_HDR record> and the Schedule Number <the FED_SCHED_NUM of the R_FED_INCT_HDR record>”.	N/A	N/A
	Sample Message: The generation of the INTR XML file was bypassed for the FEDHDR record with the Office ID <the FED_OFFC_ID of the R_FED_INCT_HDR record> and the Schedule Number <the FED_SCHED_NUM of the R_FED_INCT_HDR record>”.	N/A	N/A
Warning (4)	An empty XML file was generated. Sample Message: Empty INTR XML file was generated.	N/A	N/A

Non Fatal Error (8)	N/A	N/A	N/A
Failed (12)	The job failed because of runtime exceptions for an unexpected situation.	The reason for the failure needs to be investigated before rescheduling the chain job.	N/A
Terminated (16)	The job is terminated manually by the user.	The reason for the termination needs to be investigated. The chain job can be rescheduled.	N/A
System Failure (20)	The job is terminated because of database server or network issues.	The reason for the System Failure needs to be investigated. The chain job can be rescheduled.	N/A

2.1.9 Federal Collection File Job

Chain Name	Federal Collection File
Recommended Frequency	The Federal Collection File Chain can be run on a weekly basis or on demand.
Single Instance Required	Yes
Can be restarted?	No
Reports generated	Yes, some of the jobs in the chain generate an Exception report. Please refer to the individual jobs for more details.

Overview

The Federal Collection File chain job in Advantage Financial is a group of jobs that work together to process the Collection file received from the Bureau of Fiscal Service (BFS). This job is responsible for converting the Collection file received in the ERL format into the Advantage supported XML format and updating various tables such as Federal Offset Request (FOTR), Federal Offset Activity (FOTA), Federal Offset Summary (FOTS), and the Intercept Request (INTR) table. The Federal Collection File chain job has the following jobs (each of the jobs listed below is described in subsequent sections):

1. [Convert ERL to XML](#)
2. [Collection File Update](#)

The acceptable Pre Condition Return Code configuration depends upon the business requirement. For example, if the requirement is that the subsequent jobs in the chain should continue only if the job ends with a return code of *Successful*, then the Pre Condition Return Codes for all of the jobs should be set to *Successful*. If for some jobs in the chain *Non Fatal Error* is an acceptable job return code, then that can also be configured. These configurations can be done on the Job Setup (BATSETUP) page.

For the Federal Collection File job configuration, the Collection File Update job will begin only when the Convert ERL to XML job ends with a return code of *Successful*. If that job ends with a return code other than *Successful*, then the Collection File Update job will be set to *Inactive*.

These jobs cannot be run independently.

Major Input

- Intercept Request Table (INTR)
- Intercept Options Table (IOPT)
- Federal Offset Request Table (FOTR)
- Collection File (FDMP.CXCOLLECT.Cyyyycc.AGnn)

Major Output

- Intercept Request Table (INTR)
- Federal Offset Request Table (FOTR)
- Federal Offset Activity Table (FOTA)
- Federal Offset Summary Table (FOTS)
- Exception Record Report

Chain Job Return Code

The following table indicates the potential return codes for the Federal Collection File chain job. Note that the chain job will end with the highest return code across all of the jobs.

Return Code	Condition
Successful (1)	All of the jobs end successfully.
Warning (4)	One of the jobs in the chain ends with a return code of "Warning".
Non Fatal Error (8)	One of the jobs in the chain ends with a return code of "Non Fatal Error".
Failed (12)	One of the jobs in the chain ends with a return code of "Failed".
Terminated (16)	One of the jobs in the chain ends with a return code of "Terminated".
System Failure (20)	One of the jobs in the chain ends with a return code of "System Failure".

Problem Resolution

Please refer to the individual jobs for details regarding the specific job processes and problem resolution.

Federal Collection File Chain: Convert ERL to XML Job

Job Name	Convert ERL to XML Job
Recommended Frequency	This job can be run on a weekly basis or on demand.
Single Instance Required	Yes
Can be restarted?	No
Reports Generated	No. All of the exceptions are only written to the log.

Overview

The Convert ERL to XML job in the Federal Collection File chain job identifies the Collection file based on the criteria specified in the job's parameters. The selected ERL file will be converted to the XML by the Convert ERL to XML job. This XML serves as an input file for the Collection File Update job.

The following table shows the various steps that the Convert ERL to XML job goes through and the messages issued at each step.

Process Steps	Messages
1. Parameter Validation	<ul style="list-style-type: none"> Validating Batch Parameters Parameters are valid or invalid depending on the Validation. If the parameter is invalid, the invalid value is displayed in the log. Batch Parameter validation completed.

Process Steps	Messages
2. Selection of Records	<ul style="list-style-type: none"> • Select the Collection file placed at the ExportImport location based on the job parameters. • If the selection does not return any files, then the following message will be issued: "No file found to be processed." • If the file name is mentioned in the job parameter and if that file is not found at the ExportImport location, then the following message will be issued: "Unable to find the input file named FDMP.CXCOLECT.CXXXXXX.AGW2.txt at the location." • If the selection returns multiple files, then the following message will be issued: "ERL file name required as multiple files found to be processed." • If the selection returns only one file, then the job will convert the records from the Collection file to the XML file and the following message will be issued: "ERL File Picked Up for Transformation: FDMP.CXCOLECT.CXXXXXX.AGW2.txt."
3. Create XML file	<p>If the job creates one XML file for all of the records in the selected ERL file, then the following message will be issued: "ERL File Picked Up for Transformation: FDMP.CXCOLECT.Cyyyycc.AGW2.txt"</p>

Restartability Information

This job cannot be restarted. If the job failed due to any reason, a new job should be scheduled after correcting the errors that caused the job to fail.

Major Input

Tables:

- Collection File received from BFS
- Intercept Request Table (INTR)
- Federal Offset Request Table (FOTR)
- Intercept Reference Tables
- Intercept Options Table (IOPT)
- Intercept Fee set up Table (INTF)
- Entity Table (ENTY)
- Debt Type Table (DBTYP)

Batch Parameters

Parameter	Description	Default Value
ERL File Location	Export file location for the Collection file	\$\$AMSROOT\$\$/ExportImport

ERL file	Collection file name received from BFS	Optional field
Output File Name Prefix	XML file name prefix given to the Collection file.	ColectFI
Output File Location	XML file location for the Collection file	\$\$AMSROOT\$\$/ExportImport
Transformation Class Name	This should not be changed it is a technical parameter.	TransformInClctnsReciprocity
Transformation File Location	(Required) The stylesheet file location which should be used to perform the transformation.	\$\$AMSROOT\$\$/ReportLayout\ADVFinancialBatchTranform
Transformation File Name	(Required) The stylesheet file name which should be used to perform the transformation.	ConvertCollectionsFlatFileXMLToXML.xslt

Major Output

Collection File in XML format (ColectFI_Job ID#)

Job Return code

The following table shows the potential job return codes for the Convert ERL to XML job.

Return Code	Condition
Successful (1)	The ERL file was selected and records in ERL file were successfully converted to an XML file.
Warning (4)	This could be because of the following reasons: <ul style="list-style-type: none"> The ERL file found at the ExportImport location has no data to process.
Non fatal Error (8)	Not Applicable for this job.
Failed (12)	The job will fail under the following conditions: <ul style="list-style-type: none"> No file found.

Return Code	Condition
	<ul style="list-style-type: none"> Parameter values are invalid. Unable to find the data at the exact position in the ERL file. Run time exceptions for unexpected situations. <ul style="list-style-type: none"> More than one ERL file located at the ExportImport Location and the ERL file name is not mentioned in the job parameter. <p>When this job ends with a return code of Failed, the subsequent jobs in the chain are set to Inactive.</p>
Terminated (16)	This return code is issued when the job is terminated by the user. When this job ends with a return code of Terminated, subsequent jobs in the chain are set to Inactive.
System Failure (20)	This return code is issued when the job is terminated because of database server or network issues. When this job ends with a return code of System Failure, subsequent jobs in the chain are set to Inactive.

Sort Sequence

N/A

Problem Resolution

The following table shows the possible return codes and recommendations for each processing step.

Step 1: Parameter Validation

Possible Return Codes	Condition	Recommendation	Other Instructions
Successful (1)	Job parameter validations are successful, that is, there are no errors raised during validations.	N/A	N/A
Warning (4)	N/A	N/A	N/A
Non Fatal Error (8)	N/A	N/A	N/A
Failed (12)	<p>All of the required parameters are not entered or invalid.</p> <p>Sample Message: “ERL File Location parameter is required”</p> <p>Recommendation: Enter a valid ERL File</p>	If the required parameters are not entered, enter the required parameters and reschedule the Chain job.	Schedule a new Chain job.

	Location parameter.		
	<p>Sample Message: “Output file Name Prefix parameter is not a valid value.”</p> <p>Recommendation: Enter a valid Output File Name Prefix parameter.</p>	If the parameters are invalid, enter the valid parameter and reschedule the Chain job.	Schedule a new Chain job.
Terminated (16)	The Job is terminated manually by the user.	The reason for the termination needs to be investigated. The Chain job can be rescheduled.	N/A
System Failure (20)	The job is terminated because of database server or network issues.	The reason for the System Failure needs to be investigated. The Chain job can be rescheduled.	N/A

Step 2: Selection of ERL file

Possible Return Codes	Condition	Recommendation	Other Instructions
Successful (1)	Successful	N/A	N/A
Warning (4)	<p>The job will end in this Return Code, if the ERL file found at the ExportImport location has no data to process.</p> <p>Sample Message: “Input File FDMP.CXCOLLECT.Cyyyyc.AGW2.txt appears to be empty.”</p>	Make sure that the ERL file placed at ExportImport location has the appropriate data to be processed.	Schedule a new Chain job.
Non Fatal Error (8)	N/A	N/A	N/A
Failed (12)	<p>This job will fail under the following conditions:</p> <ul style="list-style-type: none"> • When no ERL file is found at the ExportImport location. • If multiple ERL files are found at the ExportImport location. • Invalid job parameters. • Failed because of runtime exceptions for an unexpected situation. <p>Sample Message: “ERL file name required as multiple files found to be processed.”</p>	<p>This step is performed only if the parameter validation is successful.</p> <p>Make sure that the ERL file is placed at the correct location. If multiple ERL files are placed at the ExportImport location, then enter the correct ERL file name value in the</p>	Schedule a new Chain job.

	<p>Sample Message: "No file found to be processed."</p>	<p>ERL File Name parameter and reschedule the chain again.</p> <p>It can fail with fatal conditions on encountering unknown exceptions. If that happens, investigate the exception reported by the process, resolve the error, and reschedule the entire chain.</p>	
Terminated(16)	The job is terminated manually by the user.	The reason for the termination needs to be investigated before rescheduling the entire chain.	N/A
System Failure(20)	The job is terminated because of database server or network issues.	The reason for the System Failure needs to be investigated before rescheduling the entire chain.	N/A

Step 3: Convert ERL to XML

For the selected ERL file, the job will create the XML file to be used by the next job to update the federal offset tables. After converting the ERL to XML, the job will move the ERL file to the temp folder with the extension .bkup and delete the file from the main ExportImport folder.

Possible Return Codes	Condition	Recommendation	Other instructions
Successful (1)	The system successfully creates a XML file.	N/A	N/A
Warning (4)	N/A	N/A	N/A
Non Fatal Error (8)	N/A	N/A	N/A
Failed (12)	The job failed because of runtime exceptions for an unexpected situation.	The reason for the failure needs to be investigated before rescheduling the Chain job.	N/A
Terminated (16)	The job is terminated manually by the user.	The reason for the termination needs to be investigated. The Chain job can be rescheduled.	N/A

System Failure (20)	The job is terminated because of database server or network issues.	The reason for the System Failure needs to be investigated. The Chain job can be rescheduled.	N/A
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Federal Collection File Chain: Collection File Update Job

Job Name	Collection File Update Job
Recommended Frequency	This job can be run on a weekly basis or on demand.
Single Instance Required	Yes
Can be restarted?	No
Reports Generated	Yes. The job generates the report in PDF and HTML formats.

Overview

The Collection File Update job in the Federal Collection File chain job identifies the XML file (ColectFI_Job ID #) created by the Convert ERL to XML job. The selected XML file undergoes various validations and calculations such as deducting the Total Fee from the Amount received in the Collection file and changing the date format from YYYYMMDD to MMDDYYYY. The job first deletes the records from the Federal Offset Temporary table and performs the following validations before loading the records from XML to the Federal Offset Temporary table.

- i. If a control record for Agency Site ID does not exist on the XML, then the job will fail and no records will be loaded to the Federal Offset Temporary table. The job log will display the message “No control record available on the Collection file. The file is not processed.” indicating that the file was not processed.
- ii. This job then verifies that the control record for the Agency Site ID exists by matching the Block ID/Site ID on the control record with the Agency Site ID parameter on APPCTRL. This job will use this Control record for the Agency Site ID to process the XML file generated.

The job will fail and will not perform any further validations, if any of the validations listed below fail:

- If Agency ID does not match, the job will fail and no records will be loaded to the Federal Offset Temporary table. The job log will display the “Agency ID on the Collection file does not match the Agency ID on the APPCTRL table. The file is not processed.” message, indicating that the file was not processed.
- If Agency Site ID does not match, the job will fail and no records will be loaded to the Federal Offset Temporary table. The job log will display the “Agency Site ID on the Collection file does not match the Agency Site ID on the APPCTRL table. The file is not processed.” message, indicating that the file was not processed”.
- If the total number of the detail record count for Type Indicator 1 (Offset) does not match the control record information in the Collection File, the job will fail and no records will be loaded to the Federal Offset Temporary table. The job log will display the “Number of Offset Record does not match the control record information in the Collection file. The file is not processed.” message, indicating that the file was not processed.

- If the total number of the detail record count for the Type Indicator 0 (Reversal) does not match the control record information in the Collection File, the job will fail and no records will be loaded to the Federal Offset Temporary table. The job log will display the “Number of Reversal Record does not match the control record information in the Collection file. The file is not processed.” message, indicating that the file was not processed.
- If the sum of Amount for all the detail records with Type Indicator 1 (Offset) does not match the control record information in the Collection File, the job will fail and no records will be loaded to the Federal Offset Temporary table. The job log will display the “Sum of offset amount does not match the control record information in the Collection file. The file is not processed.” message, indicating that the file was not processed.
- If the sum of Amount for all detail records with the Type Indicator 0 (Reversal) does not match the control record information in the Collection File, the job will fail and no records will be loaded to the Federal Offset Temporary table. The job log will display the “Sum of reversal amount does not match the control record information in the Collection file. The file is not processed.” message, indicating that the file was not processed.

The job will continue to perform validations one by one as listed below:

- If the Agency ID on the control record matches the value in the AGENCY_ID parameter on the Application Parameters (APPCTRL) table, then this file will be processed if other validations are passed.
 - If the Agency Site ID on the control record matches the value in the AGENCY_SITE_ID parameter on the APPCTRL table, then then this file will be processed if other validations are passed.
 - If the total number of the detail record count for the Type Indicator 1 (Offset) for the Agency ID and Agency Site ID matches the value mentioned in the Total Offset Record Count field in the control record, then this file will be processed if other validations are passed.
 - If the total number of the detail record count for the Type Indicator 0 (Reversal) for the Agency ID and Agency Site ID matches with the value mentioned in the Total Reversal Record Count field in the control record, then this file will be processed if other validations are passed.
 - If the sum of Amount for all detail records with Type Indicator 1 (Offset) matches the Total Offset Amount mentioned in the control record, then this file will be processed if other validations are passed.
 - If the sum of Amount for all detail records with the Type Indicator 0 (Reversal) matches the Total Reversal Amount mentioned in the control record, then this file will be processed if other validations are passed.
- iii. After all of the above validations pass, the job will load the information from the detail records in the XML file to the respective fields in the Temporary table.
- iv. The job then identifies the record on FOTR based on the Federal Offset Debt Number for the Type Indicator 1 (Offset) record and updates the latest version of the FOTR record with Last Offset Date and Load Date of the Collection file. On saving the record on FOTR, the system will update the Processed flag to True (Yes) on the Federal Offset Temporary table. After updating the record on the FOTR table, the system inserts the record on the FOTA table based on the Active INTR records.
- Based on the Federal Offset Debt Number, the system selects the “Active” INTR records and allocates the offset amount to the INTR debts based on

the Due Date. The active INTR record with the oldest Due Date will be processed first. Each offset occurred to the INTR debts will be recorded on the FOTA table. A save on a FOTA record updates the FOTR and INTR records with the appropriate Offset Amount and Federal Offset Fee Collected.

- v. For Type Indicator 0 (Reversal) record, the job identifies the record on FOTA first based on the combination of TOP Trace Number and Federal Offset Debt Number. If the record is found, the system updates the reversal information section and saves the record. If no records are found on the FOTA table, the system will look for the records on the INTA table by the same TOP Trace Number and Federal Offset Debt Number. If the record is found, the system will insert the record to the FOTA table and will save it.

After processing all of the records in the file, the job will insert a record on the FOTS table and will generate an Exception report listing all of the reversal and over collection records.

The following table shows the various steps that the Collection File Update job goes through and the messages issued at each step:

Process Steps	Messages
1. Parameter Validation	Validating Batch Parameters. If the parameter is invalid, the invalid value will be displayed in the log. If all parameters are valid, the job will return as "Successful".
2. Load records from XML to Temporary table	After passing all validations, the job inserts the detail records from the XML file to the Federal Offset Temporary table. The job log will display "Records Successfully inserted into Temp Table."
3. Selection of Records for Type Indicator 1 (Offset) records	<ul style="list-style-type: none"> • If no offset record is found on the Temp table, the job log displays "No Offset Records found to process." • For offset records on the Temp table, if no matching record is found on FOTR, then the job log displays "No Matching Record Found on FOTR". • While processing an offset record, the job log displays "Begin Processing Offset Records." Once all of the offset records are processed, the job log displays "Finished Processing Offset Records."
4. Update FOTR record	After identifying the record, the job updates the FOTR record and the job log displays "Successfully updated FOTR Record Dates."
5. Insert record to FOTA	After updating the FOTR record, the job identifies the corresponding active INTR record with the Oldest Due Date and inserts the record to FOTA.
6. Update INTR	Save on FOTA table updates the INTR record and FOTR record and the job log displays "Finished Processing Offset Records."
7. Selection of Records for Type Indicator 0 (Reversal) records	<ul style="list-style-type: none"> • If no reversal record is found on the Temp table, then the job log displays "No Reversal Records found to process." • While processing the reversal record, the job log

Process Steps	Messages
	displays “Begin Processing Reversal Records.”
8. Generate Exception Report	<p>After processing all of the records, the system generates an Exception report that lists the following:</p> <ul style="list-style-type: none"> • Over Collection Records • Over Reversal records • All reversal Records • Invalid records <p>If no records are listed on the Exception report, the job displays “No records for Exception” on the Exception report.</p>
9. Insert record to FOTS	The job inserts one record per run to the FOTS table and the job log displays “Updated FOTS table for Offset Cycle: YYYYCCC”.

Restartability Information

This job does not support restartability. If the job fails it has to be rescheduled again.

Major Input

XML file generated by the previous job (ColectFI_Job ID#)

Batch Parameters

Parameter	Description	Default Value
Input File Location	Input file location for the XML file.	\$\$AMSROOT\$\$/ExportImport
Input File Name Prefix	Prefix used to identify the Input file in the Input location.	ColectFI
Client Name for Report	Client Name to be populated on the report.	Optional field

Major Output

- Federal Vendor Offset Request (FOTR) table
- Federal Vendor Intercept (INTR) table
- Federal Vendor Offset Activity (FOTA) table
- Federal Vendor Offset Summary (FOTS) table
- Exception Record report

Job Return code

The following table shows the potential job return codes for the Convert ERL to XML job.

Return Code	Condition
Successful (1)	The XML file was loaded to the temporary table and the FOTR, FOTA, INTR and FOTS tables were updated successfully.
Warning (4)	This return code is not issued by this job.
Non fatal Error (8)	Not Applicable for this job.
Failed (12)	<p>The job will fail under the following conditions:</p> <ul style="list-style-type: none"> Parameters are invalid. No control records found. Unable to find the valid Agency ID and Agency Site ID on the Control record. The total number of detail records with Type Indicator 1 does not match the Offset record counts in the control record. The total number of detail records with Type Indicator 0 does not match the Reversal record counts in the control record. The sum of the Amount for detail records with Type Indicator 1 does not match the Total Offset Amount in the control record. The sum of the Amount for detail records with Type Indicator 0 does not match the Total Reversal Amount in the control record. The Record Count field is "Null".
Terminated (16)	This return code is issued when the job is terminated by the user.
System Failure (20)	This return code is issued when the job is terminated because of database server or network issues.

Sort Sequence

N/A

Problem Resolution

The following table shows the possible return codes and recommendations for each processing step:

Step 1: Parameter Validation

Possible Return Codes	Condition	Recommendation	Other Instructions
Successful (1)	Job parameter validations are successful, that is, there are no errors raised during validations.	N/A	N/A
Warning (4)	N/A	N/A	N/A
Non Fatal Error (8)	N/A	N/A	N/A

Failed (12)	<p>All of the required parameters are not entered or are invalid.</p> <p>Sample Message: “Input File Location parameter is required.”</p> <p>Recommendation: Enter a valid Input File Location parameter.</p>	<p>If the required parameters are not entered, enter the required parameters and reschedule the Chain job.</p>	<p>Schedule a new Chain job.</p>
	<p>Sample Message: “Input File Name Prefix parameter is not a valid value.”</p> <p>Recommendation: Enter a valid Input File Name Prefix parameter.</p>	<p>If the parameters are invalid, enter the valid parameter and reschedule the Chain job.</p>	<p>Schedule a new Chain job.</p>
	<p>Sample Message: “Number of Offset Record does not match the control record information in the Collection file. The file is not processed.”</p> <p>Recommendation: Correct the ERL file placed at the ExportImport location.</p>	<p>Correct the input file and reschedule the Chain job.</p>	
Terminated (16)	<p>The job is terminated manually by the user.</p>	<p>The reason for the termination needs to be investigated. The Chain job can be rescheduled.</p>	<p>N/A</p>
System Failure (20)	<p>The job is terminated because of database server or network issues.</p>	<p>The reason for the System Failure needs to be investigated. The Chain job can be rescheduled.</p>	<p>N/A</p>

Step 2: Load XML to Temporary Table

Possible Return Codes	Condition	Recommendation	Other Instructions
Successful (1)	Successful	N/A	N/A
Warning (4)	N/A	N/A	N/A
Non Fatal Error (8)	N/A	N/A.	N/A

Failed (12)	Failed because of runtime exceptions for an unexpected situation.	This step is performed only if the parameter validation is successful. It can fail with fatal conditions only on encountering unknown exceptions. If that happens, investigate the exception reported by the process, resolve the error and reschedule the entire chain.	Schedule a new job.
	Data Type or length of data of the records does not match the temporary table specification.	Correct the ERL file and reschedule the chain job.	Schedule a new Chain job.
Terminated(16)	The job is terminated manually by the user.	The reason for the termination needs to be investigated before rescheduling the entire chain.	N/A
System Failure(20)	The job is terminated because of database server or network issues.	The reason for the System Failure needs to be investigated before rescheduling the entire chain.	N/A

Step 3: Update Federal Offset Tables

Possible Return Codes	Condition	Recommendation	Other instructions
Successful (1)	The system successfully updates the Federal Offset tables.	N/A	N/A
Warning (4)	N/A	N/A	N/A
Non Fatal Error (8)	N/A	N/A	N/A
Failed (12)	Failed because of runtime exceptions for an unexpected situation.	The reason for the failure needs to be investigated before rescheduling the Chain job.	N/A
Terminated (16)	The job is terminated manually by the user.	The reason for the termination needs to be investigated. The Chain job can be rescheduled.	N/A

System Failure (20)	The job is terminated because of database server or network issues.	The reason for the System Failure needs to be investigated. The Chain job can be rescheduled.	N/A
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2.1.10 Federal Debt Update File Generation

Chain Name	Federal Debt Update File Generation
Recommended Frequency	The Federal Debt Update File Generation chain job can be run on a daily basis or on demand.
Single Instance Required	Yes
Can be restarted?	No
Reports generated	No. All of the exceptions are only written to the log.

Overview

The Federal Debt Update File Generation chain (FDUFG chain) job in the Advantage Financial application, includes two batch jobs that work together to load the eligible debts on the Intercept Request (INTR) table to the Federal Offset Request (FOTR) table and generates the Debt Update file, which is sent to the Bureau of Fiscal Service (BFS) for federal payment offset. The FDUFG chain has the following jobs (each of the jobs listed below is described in subsequent sections):

1. [Load State Debts to FOTR](#)
2. [Federal Debt Update File Generation](#)

The acceptable Pre Condition Return Code configuration depends upon the business requirement. For example, if the requirement is that the subsequent jobs in the chain should continue only if the job ends with a Return Code of *Successful*, then the Pre Condition Return Codes for all of the jobs should be set to *Successful*. If for some jobs in the chain, *Non Fatal Error* is an acceptable job Return Code, then that can also be configured. These configurations can be done on the Job Setup (BATSETUP) page.

For baseline configuration, the Federal Debt Update File Generation job is started when the Load State Debts to FOTR job ends with a Return Code of *Successful*. If any of the jobs in the chain ends with a Return Code of *Failed*, *Terminated* or *System Failure*, all of the subsequent jobs will be set to *Inactive*.

Major Input

- Intercept Request table (INTR) table

Major Output

- Federal Offset Request table (FOTR)
- Federal Debt Update File Generation

Chain Job Return Code

The following table shows the potential Return Codes for the FDUFG chain job. Note that the chain job will end with the highest Return Code across all of the jobs.

Return Code	Condition
Successful (1)	All of the jobs end successfully.
Warning (4)	One of the jobs in the chain ends with a Return Code of "Warning".

Non-Fatal Error (8)	One of the jobs in the chain ends with a Return Code of “Non-Fatal Error”.
Failed (12)	One of the jobs in the chain ends with a Return Code of “Failed”.
Terminated (16)	One of the jobs in the chain ends with a Return Code of “Terminated”.
System Failure (20)	One of the jobs in the chain ends with a Return Code of “System Failure”.

Problem Resolution

Please refer to the individual jobs for details regarding the specific job processes and problem resolution.

Federal Debt Update File Generation Chain: Load State Debts to FOTR

Job Name	Load State Debts to FOTR
Recommended Frequency	The Load State Debts to FOTR job can be run on a daily basis or on demand.
Single Instance Required	Yes
Can be restarted?	No
Reports Generated	No. All of the exceptions are only written to the log.

Overview

The Load State Debts to FOTR job loads the debt records from the INTR table to the FOTR table. This job selects the eligible records from INTR and assigns the Federal Debt Number for each record selected.

The following table shows the various steps that the Load State Debts to FOTR job goes through and the messages issued at each step.

Process Steps	Messages
1. Parameter Validation	<ul style="list-style-type: none"> Validating Batch Parameters Parameters are valid or invalid depending on the validation. If the parameter is invalid, the invalid value is displayed in the log. Batch Parameter validation completed.
2. Selection of Records	<ul style="list-style-type: none"> Selecting the eligible records from INTR. If the selection does not return any records, then the following message is issued: “There are no eligible records found”.
3. Create XML file	<ul style="list-style-type: none"> If the job creates one XML file for all of the records in the selected ERL file, then the following message is issued:” Records Loaded to the Federal Offset Request table successfully”.

Restartability Information

This job cannot be restarted. If the job failed due to any reason, a new job should be scheduled after correcting the errors that caused the job to fail.

Major Input

- Intercept Request Table (INTR)
- Intercept Reference Tables
 - Intercept External Allocation table (INTEA)
 - Intercept Fee Setup Table (INTF)
 - Entity Table (ENTY)
 - Debt Type Table (DBTYP)
 - Intercept Options Table (IOPT)
 - Receivable Intercept Exception (INTREX)
- Application Parameter Table (APPCTRL)

Batch Parameter

Parameter	Description	Default
Commit Block Size	Required	10

Major Output

- Federal Offset Request Table (FOTR)
- Intercept Request Table (INTR)

Selection Criteria

The Load State Debts to FOTR job selects the records from the Intercept Request (INTR) table based on the two step selection process:

Step 1

- The system will identify the records from INTR based on the TIN, TIN Type and Debt Type (Note: Depending on the “Consolidate Debt Type” flag setting on the DBTYP table, there may be potential changes that are to be loaded to the FOTR table).

The New/Updated flag for the INTR record is *true*.

The Entity and Debt Type of the selected record from INTR is set to *Eligible for Reciprocity Federal Payment Offset* on the ENTY table.

The “Print Letter Status” on the INTR table is blank or the difference between the Application System Date on the APPCTRL table and Last Printed Date on the INTR table is greater than the “Number of Days before Debt Referral” defined on the IOPT table.

- For all of the selected “New/Updated” INTR records:

The system will group the records (selected from Step 1) based on the TIN, TIN Type, and Debt Type combinations for the records selected from Step 1 based on the following:

If the “Consolidate Debt Type” flag on the DBTYP table for the Entity/Debt Type of this INTR record is set to *No* (Unchecked), then the debt records will not be consolidated and the system will record the TIN, TIN Type and Debt Type of this INTR record;

If the “Consolidate Debt Type” flag on the DBTYP table for the Entity/Debt Type of this INTR record is set to *Yes* (Checked), the system will record the TIN, TIN Type and the Consolidated Debt Type from the DBTYP table of this INTR record.

Step 2

- The system will then select all “Eligible” INTR records of the TIN, TIN Type and Debt Type combinations recorded in Step 1 above. The “Eligibility” criteria are as follows:

The Entity and Debt Type of the selected record from INTR is set to *Eligible for Federal Payment Offset* on the ENTY table.

The “Print Letter Status” on the INTR table is blank or the difference between the Application System Date on the APPCTRL table and the Last Printed Date on INTR is greater than the “Number of Days before Debt Referral” defined on the IOPT table.

The Status of the Debt is set to *Active* or Federal Offset Debt Number is populated on the INTR table.

The difference between the delinquent date (Due Date on INTR) and APPCTRL date is less than or equal to what is defined by the Maximum Debt Age (Years) on the Intercept Options (IOPT) table.

The INTR record is not on the Receivable Intercept Exception (INTREX) table. If the Debt records (RE Transaction Details) selected are on INTREX, these debt records will not be eligible. The “TIN Type” on the INTR table is “SSN/ITIN/ATIN” and the “Last Name” field on INTR is not blank; OR the “TIN Type” on the INTR table is “EIN” and the “First Name” field on INTR is not blank.

- Before loading the records, the job passes through the following selection criteria:

If the TIN, TIN Type and Debt Type combination does exist on the FOTR table, the process will verify whether the update made to the INTR table should be sent to the BFS. If the First Name, Last Name, Outstanding After State Intercept, Status, Alias Name, and Address Details (Street 1, Street 2, City, State/Province, Zip/Postal Code, and Country) fields will be updated by the new INTR records, a new record will be added to FOTR. Otherwise, no new record will be added to FOTR.

Note: The “Outstanding After State Intercept” is defined as follows:

- For External Debts with Status set to *Active* on the INTR table:

Outstanding after State Intercept = Outstanding Including Federal Offset Fee – Intercepted – Transferred

- For Internal Debts with Status set to *Active* on the INTR table:

Outstanding after State Intercept = Outstanding Including Federal Offset Fee - Intercepted + Federal Transferred

- For both External and Internal Debts with Status set to *Inactive* on the INTR table:

Outstanding after State Intercept = Federal Offset Amount + Federal Transferred Amount + Federal Offset Fee Collected

If the Update Status for the corresponding FOTR record is *Processed* or *Corrected*, then the process inserts the updated record from INTR with the next sequential version number from the previous version with the existing Federal Offset Debt Number.

- If the TIN, TIN Type and Debt Type combination does not exist on the FOTR table, and if the “Outstanding After State Intercept” of the eligible debts (matching all of the selection criteria of “eligible” records in under Step 2) is equal to or greater than the threshold amount (Minimum Referral Debt Amount) defined on the IOPT table, then the record will be selected to be loaded to the FOTR table.
- At least one of the INTR records being consolidated has the complete address populated (Street Name 1, City, State/Province, Zip/Postal Code fields are not blank) then the record will be selected to load to the FOTR table.

Job Return Code

The following table shows the potential job Return Codes for the Load State Debt to FOTR job.

Return Code	Condition
Successful	The Return Code is <i>Successful</i> if records returned from the Selection Process are loaded to the FOTR table successfully.
Warning	The Return Code is <i>Warning</i> if no records are returned from the Selection Process.
Non Fatal Error	One of the jobs in the chain ends with a Return Code of <i>Non Fatal Error</i> .
Failed	The job will fail under the following conditions: <ul style="list-style-type: none"> • Parameters are invalid. • Run time exceptions for unexpected situations. • When this job ends with a Return Code of <i>Failed</i>, subsequent jobs in the chain will be set to <i>Inactive</i>.
Terminated	This Return Code is issued when the job is terminated by the user. When this job ends with a Return Code of <i>Terminated</i> , subsequent jobs in the chain are set to inactive.
System Failure	This Return Code is issued when the job is terminated because of database server or network issues. When this job ends with a Return Code of <i>System Failure</i> , subsequent jobs in the chain are set to inactive.

Sort Sequence

N/A

Problem Resolution

The following table shows the possible Return Codes and recommendations for each processing step:

Step 1: Parameter Validation

Possible Return Codes	Condition	Recommendation	Other Instructions
Successful (1)	The job parameter validations are successful, that is, there are no errors raised during validations.	N/A	N/A
Warning (4)	N/A	N/A	N/A
Non Fatal Error (8)	N/A	N/A	N/A
Failed (12)	All of the required parameters are not entered or invalid. Sample Message: "The FOTR record Update Status is not "Processed" or "Corrected", thus not ready to be updated by the batch job." Recommendation: Verify the FOTR record status is valid.	If the required parameters are not entered, enter the required parameters and reschedule the entire chain.	Schedule a new chain job.
Terminated (16)	The job is terminated manually by the user.	The reason for the termination needs to be investigated. The chain job can be rescheduled.	N/A
System Failure (20)	The job is terminated because of database server or network issues.	The reason for the System Failure needs to be investigated. The chain job can be rescheduled.	N/A

Federal Debt Update File Generation Chain: Federal Debt Update File Generation

Job Name	Federal Debt Update File Generation
Recommended Frequency	The Federal Debt Update File Generation to FOTR can be run on a daily basis or on demand.
Single Instance Required	Yes
Can be restarted?	No
Reports Generated	No. All of the exceptions are only written to the log.

Overview

The Federal Debt Update File Generation job generates the debt update file that is sent to the Bureau of Fiscal Service (BFS) for further processing. The Debt update file includes the new as well as the updated debt records from the FOTR table. The following table shows the various steps that the Federal Debt Update File Generation job goes through and the messages issued at each step

Restartability Information

This job cannot be restarted. If the job failed due to any reason, a new job should be scheduled after correcting the errors that caused the job to fail.

Major Input

Federal Offset Request Table (FOTR)

Batch Parameter

Parameter	Description	Default
AMS Export	Export File Location for the Debt Update File	

Major Output

- Federal Offset Request Table (FOTR)
- Federal Debt Update File

Selection Criteria

The Federal Debt Update File Generation job selects the records from the Federal Offset Request table, if the Update Status is *Ready To Send*.

Job Return Code

The following table shows the potential job Return Codes for the Federal Debt Update File Generation job.

Return Code	Condition
Successful	Load State Debts to FOTR is successful if records are returned from the selection process and the debt update file generated is successful.

Return Code	Condition
Warning	Load State Debts to FOTR issues a warning if no records are returned from the selection process.
Non Fatal Error	One of the jobs in the chain ends with a Return Code of <i>Non Fatal Error</i> .
Failed	The job will fail under the following conditions: <ul style="list-style-type: none"> • Parameters are invalid • Run time exceptions for unexpected situations • When this job ends with a Return Code of <i>Failed</i>, subsequent jobs in the chain will be set to <i>Inactive</i>.
Terminated	This Return Code is issued when the job is terminated by the user.
System Failure	This Return Code is issued when the job is terminated because of database server or network issues.

Sort Sequence

N/A

Problem Resolution

The following table shows the possible Return Codes and recommendations for each processing step:

Step 1: Parameter Validation

Possible Return Codes	Condition	Recommendation	Other Instructions
Successful (1)	The job parameter validations are successful, that is, there are no errors raised during validations. Sample Message: "Records written to ERL file successfully".	N/A	N/A
Warning (4)	N/A	N/A	N/A
Non Fatal Error (8)	N/A	N/A	N/A
Failed (12)	All of the required parameters are not entered or invalid. Sample Message: "Export File Location parameter is required." Recommendation:	If the required parameters are not entered, enter the required parameters and reschedule the chain job.	Schedule a new chain job.

	Enter a valid Export File Location parameter.		
Terminated (16)	The job is terminated manually by the user.	The reason for the termination needs to be investigated. The chain job can be rescheduled.	N/A
System Failure (20)	The job is terminated because of database server or network issues.	The reason for the System Failure needs to be investigated. The chain job can be rescheduled.	N/A

2.1.11 Federal Unprocessable File

Chain or Job Name	Federal Unprocessable File
Recommended Frequency	The Federal Unprocessable File chain can be run on a daily basis.
Single Instance Required	Yes
Can be restarted?	No
Reports generated	Yes, one job in the chain generates the Exception report. Please refer to the individual jobs for more details.

Overview

The Federal Unprocessable File chain in Advantage Financial is a group of jobs that work together to process the Unprocessable file received from the External agency. This job is responsible for converting the Unprocessable file received in the ERL format into the Advantage supported XML format and updating the Federal Offset Request (FOTR) table. The Federal Unprocessable File chain has the following jobs (each of the jobs listed below is described in the subsequent sections):

1. Convert ERL to XML
2. Update to FOTR

The acceptable Pre-Condition Return Code configuration depends upon the business requirement. For example, if the requirement is that the subsequent jobs in the chain should continue only if the job ends with a Return Code of *Successful*, then the Pre-Condition Return Codes for all of the jobs should be set to *Successful*. If for some jobs in the chain, *Non Fatal Error* is an acceptable job Return Code, then that can also be configured. These configurations can be done on the Job Setup (BATSETUP) page.

For the Federal Unprocessable File chain configuration, the Update to FOTR job is started after the previous job (Convert ERL to XML job) ends with a Return Code of *Successful*. If the Convert ERL to XML job ends with a Return Code other than *Successful*, then the Update to FOTR job is set to *Inactive*.

Note: Even though the above jobs in the chain can be run individually by disabling other jobs, it is recommended to always run the entire chain. The Convert ERL to XML job should run successfully before running the Update to FOTR job.

Major Input

- Federal Offset Request (FOTR) table
- Unprocessable File (that is, FDMP.DXXXXXX.WEEKLY.TOP-UNP.FROM-TOP.AGnn.Sss)

Note: The file naming convention is defined by the BFS TOP Agency Guide and may be updated.

Major Output

- Federal Offset Request Table (FOTR)
- Exception Record Report

Chain Job Return Code

The following table shows the potential Return Codes for the Federal Unprocessable File job. Note that the chain job will end with the highest Return Code across all of the jobs.

Return Code	Condition
Successful (1)	All of the jobs end successfully.
Warning (4)	One of the jobs in the chain ends with a Return Code of "Warning".
Non Fatal Error (8)	One of the jobs in the chain ends with a Return Code of "Non Fatal Error".
Failed (12)	One of the jobs in the chain ends with a Return Code of "Failed".
Terminated (16)	One of the jobs in the chain ends with a Return Code of "Terminated".
System Failure (20)	One of the jobs in the chain ends with a Return Code of "System Failure".

Problem Resolution

Please refer to the individual jobs for details regarding the specific job processes and problem resolution.

Federal Unprocessable File: Convert ERL to XML Job

Job Name	Convert ERL to XML Job
Recommended Frequency	This job can be run daily as part of the nightly cycle or on demand.
Single Instance Required	Yes
Can be restarted?	No
Reports Generated	No. All of the exceptions are written to the log.

Overview

The Convert ERL to XML job in the Federal Unprocessable File job identifies the Unprocessable file based on the criteria specified in the job parameters. The selected ERL file is converted to XML format by the Convert ERL to XML job. This XML serves as an input file for the next sequential job (Update to FOTR).

The following table shows the various steps that the Convert ERL to XML job goes through and the messages issued at each step:

Process Steps	Messages
1. Parameter Validation	<p>Validating Batch Parameters</p> <p>Parameters are valid or invalid depending on the Validation. If the parameter is invalid, the invalid value is displayed in the log.</p> <p>Batch Parameter validation completed</p>
2. Selection of Unprocessable file placed at the ExportImport location <ul style="list-style-type: none"> 	<ul style="list-style-type: none"> • If the selection does not return any records, then the following message is issued: "No file found to be processed." • If the file name is mentioned in the job parameter and if that file is not found at the ExportImport location, then the following message is issued: "Unable to find the input file named FDMP.DXXXXXX.WEEKLY.TOP-UNP.FROM-TOP.AGnn.Sss at the location." • If the selection returns multiple files, then the following message is issued: "ERL file name required as multiple files found to be processed." • If the selection returns only one file, then the job converts the records from the Unprocessable file to the XML file and issues the following message: "ERL File Picked Up for Transformation: FDMP.DXXXXXX.WEEKLY.TOP-UNP.FROM-TOP.AGnn.Sss".
3. Create XML file	<p>If the job creates one XML file for all of the records in the selected ERL file, then the following message is issued: "ERL File Picked Up for Transformation: FDMP.DXXXXXX.WEEKLY.TOP-UNP.FROM-TOP.AGnn.Sss".</p>

Restartability Information

This job cannot be restarted. If the job fails due to any reason, a new job should be rescheduled after correcting the errors that caused the job to fail.

Major Input

- Federal Offset Request (FOTR) table

Batch Parameters

Parameter Name	Description	Default Value
ERL File Location	Export File Location for the Unprocessable File	\$\$AMSROOT\$\$/ExportImport

Parameter Name	Description	Default Value
ERL file	Unprocessable file name received from BFS	Optional field
Output File Name Prefix	XML file name prefix given to the Unprocessable file	UnProcFI (Default value)
Output File Location	XML File Location for the Unprocessable File	\$\$AMSROOT\$\$/ExportImport
Transformation File Location	Required. The stylesheet file location that should be used to perform the transformation.	\$\$AMSROOT\$\$/ReportLayout\ADVFinancialBatchTransform
Transformation File Name	Required. The stylesheet file name that should be used to perform the transformation.	ConvertCollectionsFlatFileXMLToXML.xslt

Major Output

- Unprocessable File in XML format (UnProcFI_Job ID#)

Job Return Code

The following table shows the potential job Return Codes for the Convert ERL to XML job:

Return Code	Condition
Successful	The ERL file is selected and the records in the ERL file are converted to an XML file successfully.
Warning	This Return Code is issued under the following condition: <ul style="list-style-type: none"> • The ERL file found at the ExportImport location has no data to process.
Non Fatal Error	One of the jobs in the chain ends with a Return Code of <i>Non Fatal Error</i> .
Failed	The job may fail under the following conditions: <ul style="list-style-type: none"> • No file found. • Parameter values are invalid. • Unable to find the data at the exact position in the ERL file. • Run time exceptions for unexpected situations. • More than one ERL file is located at the ExportImport Location and ERL File Name is not mentioned in the job parameter. • When this job ends with a Return Code of <i>Failed</i>, the subsequent jobs in the chain are set to <i>Inactive</i>.

Return Code	Condition
Terminated	This Return Code is issued when the job is terminated by the user. When this job ends with a Return Code of <i>Terminated</i> , the subsequent jobs in the chain are set to <i>Inactive</i> .
System Failure	This Return Code is issued when the job is terminated because of database server or network issues. When this job ends with a Return Code of <i>System Failure</i> , the subsequent jobs in the chain are set to <i>Inactive</i> .

Sort Sequence

N/A

Problem Resolution

The following table shows the possible Return Codes and recommendations for each processing step.

Step 1: Parameter Validation

Possible Return Codes	Condition	Recommendation	Other Instructions
Successful (1)	The job parameter validations are successful, that is, there are no errors raised during validations.	N/A	N/A
Warning (4)	N/A	N/A	N/A
Non Fatal Error (8)	N/A	N/A	N/A
Failed (12)	All of the required parameters are not entered or invalid. Sample Message: “ERL File Location parameter is required.” Recommendation: Enter a valid ERL File Location parameter.	If the required parameters are not entered, enter the required parameters and reschedule the entire chain.	Schedule a new chain job.
	Sample Message: “Output file Name Prefix parameter is not a valid value.” Recommendation: Enter a valid Output File Name Prefix parameter.	If the parameters are invalid, enter the valid parameter and reschedule the entire chain.	Schedule a new chain job.

Terminated (16)	The job is terminated manually by the user.	The reason for the termination needs to be investigated. The chain job can be rescheduled.	N/A
System Failure (20)	The job is terminated because of database server or network issues.	The reason for the System Failure needs to be investigated. The chain job can be rescheduled.	N/A

Step 2: Selection of ERL file

Possible Return Codes	Condition	Recommendation	Other Instructions
Successful (1)	The job ends with a Return Code of Successful, if the ERL processes without any error issued.	N/A	N/A
Warning (4)	The job ends with a Return Code of <i>Warning</i> , if the ERL file found at the ExportImport location has no data to process. Sample Message: "Input File FDMP.DXXXXXX.WEEKLY.TOP-UNP.FROM-TOP.AGnn.Sss appears to be empty."	Make sure that the ERL file placed at the ExportImport location has appropriate data to be processed.	Schedule a new chain job.
Non Fatal Error (8)	N/A	N/A	N/A
Failed (12)	This job ends with a Return Code of <i>Failed</i> , if any of the following are true: <ul style="list-style-type: none"> • If no ERL file is found at the ExportImport location. • If multiple ERL files are found at the ExportImport location. • Invalid job parameters. • Failed because of runtime exceptions for an unexpected situation. Sample Message: "ERL file name required as multiple files found to be processed." Sample Message: "No file found to be processed."	Make sure that the ERL file is placed at the correct location. If multiple ERL files are placed at the ExportImport location, then enter the correct ERL file name value in the ERL file Name parameter and reschedule the chain again. It may also fail with fatal conditions on encountering unknown exceptions. If that happens, investigate the exception reported by the process,	Schedule a new chain job.

		resolve the error and reschedule the entire chain.	
Terminated(16)	The job is terminated manually by the user.	The reason for the termination needs to be investigated before rescheduling the entire chain.	N/A
System Failure(20)	The job is terminated because of database server or network issues.	The reason for the System Failure needs to be investigated before rescheduling the entire chain.	N/A

Step 3: Convert ERL to XML

The job creates the XML file to be used by the next job for the selected ERL file to update the Federal Offset table. After converting the ERL to XML, the job moves the ERL file to the temp folder with the extension .bkup and deletes the file from the main ExportImport folder.

Possible Return Codes	Condition	Recommendation	Other instructions
Successful (1)	The system successfully creates a XML file.	N/A	N/A
Warning (4)	N/A	N/A	N/A
Non Fatal Error (8)	N/A	N/A	N/A
Failed (12)	The job fails because of runtime exceptions for an unexpected situation.	The reason for the failure reason needs to be investigated before rescheduling the chain job.	N/A
Terminated (16)	The job is terminated manually by the user.	The reason for the termination needs to be investigated. The chain job can be rescheduled.	N/A
System Failure (20)	The job is terminated because of database server or network issues.	The reason for the System Failure needs to be investigated. The chain job can be rescheduled.	N/A

Federal Unprocessable File Chain: Update to FOTR Job

Job Name	Update to FOTR
Recommended Frequency	This job can be run daily as part of the nightly cycle or on demand. This job is executed only after the XML file is created from the Convert ERL to XML job.
Single Instance Required	Yes.
Can be restarted?	Yes. See the overview section for more details.
Reports Generated	Yes. The job generates the report in both PDF and HTML formats.

Overview

The Update to FOTR job in the Federal Unprocessable File chain job identifies the XML file created by the Convert ERL to XML job.

The following table shows the various steps that the Update to FOTR job goes through and the messages issued at each step:

Process Steps	Messages
1. Parameter Validation	Validating Batch Parameters Parameters are valid or invalid depending on the Validation. If the parameter is invalid, the invalid value is displayed in the log. If all parameters are valid, then the Return Code is <i>Successful</i> .
2. Processing Logic: The job performs the following validations for each record on the Unprocessable file to identify and update the records on FOTR.	If no Control Record exists in the XML file, the job fails and no records are identified on the FOTR table. The job log displays the following message: “No control record available on the Unprocessable file. The file is not processed.” If more than one Control record is found in the ERL file, the job fails and no records are identified on the FOTR table. The job log displays the following message: “More than one CNTL record available on the Unprocessable file. The file is not processed.” If the Agency ID does not match, the job fails. The job log displays the message: “Agency ID on the Unprocessable file does not match the Agency ID on the APPCTRL table. The file is not processed.” If Agency Site ID does not match, the job fails. The job log displays the message: “Agency Site ID on the Unprocessable file does not match the Agency Site ID on the APPCTRL table. The file is not processed.”
3. Update FOTR record	The job picks up each record that passes the above validation logic and updates the records on FOTR as follows:

Process Steps	Messages
	“Updating Debt Update Status as Processed for the Eligible Records in FOTR Table with SENT_DT_UPLOAD_FILE = YYYY-MM-DD”.
4. Generate Exception Report	After processing all records, the system generates an Exception report, which lists the following: “Total Number of Exception Records: 0. For the selected ERL file, Creating Processed Section of the Report”. “Records Processed Successfully.”

Restartability Information

This job does not support restartability. If the job fails it has to be rescheduled again.

Major Input

- XML file generated by the previous job.

Batch Parameters

Parameter Name	Description	Default Value
Input File Location	Input file location for the XML file.	\$\$AMSROOT\$\$/Export Import
Input File Name Prefix	Prefix used to identify the Input file at the Input location.	UnProcFI
Client Name for Report	Client Name to be populated on the report.	Optional field

Major Output

- FOTR table update
- Exception/Processed Record report

Job Return Code

The following table shows the potential job Return Codes for the Update to FOTR job:

Return Code	Condition
Successful	The XML file updated the FOTR table successfully.
Warning	This Return Code is not issued by this job.
Non Fatal Error	One of the jobs in the chain ends with a Return Code of “Non Fatal Error”.

Return Code	Condition
Failed	<p>The job may fail under the following conditions:</p> <p>Parameters are invalid Unable to find the valid Agency ID and Agency Site ID as on APPCTRL. The total number of detail records does not match the record counts in the control record. No Control records are found on the Unprocessable file. More than one Control record is found in the Unprocessable file.</p>
Terminated	This Return Code is issued when the job is terminated by the user.
System Failure	This Return Code is issued when the job is terminated because of database server or network issues.

Sort Sequence

N/A

Selection Criteria

The Unprocessable file job identifies the records on the FOTR table by filtering the records that have an Update Status of *Sent*, and matching the Debt Number, Action, and Record Type on the XML file with the Federal Offset Debt Number, Action Code, and Record Type with the Maximum Version Number of the record on the FOTR table.

- If the record matches, the system selects the latest version of the record from the FOTR table with the same combination and updates the Update Status to *Unprocessable* and populates the Error Codes from the XML file.
- For all other records that are not received in the Unprocessable file, the system matches the Last Sent to BFS date on the FOTR records with the Date mentioned in the Unprocessable file name received.
 - If it matches, the system updates the Update Status for all of those records to *Processed*.
 - If it does not match, the system does not update the Update Status.

Problem Resolution

The following table shows the possible Return Codes and recommendations for each processing step:

Step 1: Parameter Validation

Possible Return Codes	Condition	Recommendation	Other Instructions
Successful (1)	The job parameter validations are successful, that is, there are no errors	N/A	N/A

	<p>raised during validations.</p> <p>Sample Message: “ERL File Picked Up for Transformation: FDMP.Dxxxxxx.WEEKLY.TOP-UNP.FROM-TOP.AgnnSss”.</p>		
Warning (4)	N/A	N/A	N/A
Non Fatal Error (8)	N/A	N/A	N/A
Failed (12)	<p>All of the required parameters are not entered or invalid.</p> <p>Sample Message: “Input File Location parameter is required.”</p> <p>Recommendation: Enter a valid Input File Location parameter.</p>	<p>If the required parameters are not entered, enter the required parameters and reschedule the chain job.</p>	<p>Schedule a new chain job.</p>
	<p>Sample Message: “Input File Name Prefix parameter is not a valid value”</p> <p>Recommendation: Enter a valid Input File Name Prefix parameter.</p>	<p>If the parameters are invalid, enter the valid parameter and reschedule the chain job.</p>	<p>Schedule a new chain job.</p>
	<p>Sample Message: “Number of Offset Record does not match the control record information in the Unprocessable file. The file is not processed.”</p> <p>Recommendation: Correct the ERL file placed at the ExportImport location.</p>	<p>Correct the input file and reschedule the chain job.</p>	
Terminated (16)	<p>The job is terminated manually by the user.</p>	<p>The reason for the termination needs to be investigated. The chain job can be rescheduled.</p>	N/A
System Failure (20)	<p>The job is terminated because of database server or network issues.</p>	<p>The reason for the System Failure needs to be investigated. The chain job can be rescheduled.</p>	N/A

Step 2: Update Federal Offset Request Table

Possible Return Codes	Condition	Recommendation	Other instructions
Successful (1)	The system successfully updates the Federal Offset Request table.	N/A	N/A
Warning (4)	N/A	N/A	N/A
Non Fatal Error (8)	N/A	N/A	N/A
Failed (12)	The job failed because of runtime exceptions for an unexpected situation.	The reason for the failure needs to be investigated before rescheduling the chain job.	N/A
Terminated (16)	The job is terminated manually by the user.	The reason for the termination needs to be investigated. The chain job can be rescheduled.	N/A
System Failure (20)	The job is terminated because of database server or network issues.	The reason for the System Failure needs to be investigated. The chain job can be rescheduled.	N/A

2.1.12 Federal Vendor Offset Update Chain

Job Name	Federal Vendor Offset Update Chain
Recommended Frequency	The Federal Vendor Offset Update Chain job can be run on a daily basis or on demand.
Single Instance Required	No
Can be restarted?	No
Reports generated	No

Overview

The Federal Vendor Offset Update chain job in Advantage Financial is a group of jobs that work together to identify the intercepted federal debts inserted to the Intercept Activity (INTA) table, since the last run. It populates the associated transactions into the Federal Vendor Intercept Activity (FEDACTV) table and updates the respective records on the Federal Vendor Intercept Header (FEDHDR) and Federal Vendor Intercept Match (FEDMTCH) tables. In addition, the job also creates the fixed-length SADO Vendor Offset Update file.

During each run, the job can generate more than one outbound SADO Vendor Offset Update file to the Bureau of Fiscal Service (BFS) from the Advantage application.

The Federal Vendor Offset Update chain job has the following jobs (each of the jobs listed below is described in subsequent sections):

1. Federal Vendor Offset Activity Update
2. Federal Vendor Offset Update File Generation

Note: Even though the above jobs in the chain can be run individually by disabling the other job, it is recommended to always run the entire chain.

The acceptable Pre-Condition Return Code configuration depends on the business requirement. For example, if the requirement is that the subsequent jobs in the chain should continue only if the job ends with a Return Code of *Successful*, then the Pre-Condition Return Codes for all of the jobs should be set to *Successful*. If for some jobs in the chain, *Non Fatal Error* is an acceptable job Return Code, then that can also be configured. These configurations can be done on the Job Setup (BATSETUP) page.

For the Federal Vendor Offset Update job configuration, the Federal Vendor Offset Update File Generation job is started after the previous job ends with a Return Code of *Successful*. If the Federal Vendor Offset Activity Update job ends with a Return Code other than *Successful*, then the Federal Vendor Offset Update File Generation job is set to *Inactive*.

Major Input

- Intercept Activity (INTA) table
- Intercept Request (INTR) table
- Federal Vendor Intercept Header (FEDHDR) table
- Federal Vendor Intercept Match (FEDMTCH) table
- Application Parameters (APPCTRL) table

Major Output

- Intercept Request (INTR) table
- Federal Vendor Intercept Header (FEDHDR) table
- Federal Vendor Intercept Match (FEDMTCH) table
- Federal Vendor Intercept Activity (FEDACTV) table
- Generate offset update file (For Example: IPNTSUPD_Cyymmdd_AG##_Psss.txt)

Note: The naming convention is defined in the BFS Agency Guide and may be updated.

Chain Job Return Code

The following table indicates the potential job Return Codes for the Federal Vendor Offset Update chain job. Note that the chain job will end with the highest return code across all of the jobs.

Return Code	Condition
Successful (1)	All of the jobs end successfully.
Warning (4)	One of the jobs in the chain ends with a Return Code of "Warning".
Non Fatal Error (8)	One of the jobs in the chain ends with a Return Code of "Non Fatal Error".
Failed (12)	One of the jobs in the chain ends with a Return Code of "Failed".
Terminated (16)	One of the jobs in the chain ends with a Return Code of "Terminated".
System Failure (20)	One of the jobs in the chain ends with a Return Code of "System Failure".

Problem Resolution

Please refer to the individual jobs for details regarding the specific job processes and problem resolution.

Federal Vendor Offset Update Chain: Federal Vendor Offset Activity Update Job

Job Name	Federal Vendor Offset Activity Update
Recommended Frequency	This job can be run on a daily basis or on demand.
Single Instance Required	No
Can be restarted?	No
Reports Generated	No

Overview

The Federal Vendor Offset Activity Update job in the Federal Vendor Offset Update chain identifies the intercepted federal debts on the Intercept Activity (INTA) table and populates the associated transactions into the Federal Vendor Intercept Activity (FEDACTV) table and updates the respective records on the Federal Vendor Intercept Header (FEDHDR) and Federal Vendor Intercept Match (FEDMTCH) tables.

The Federal Vendor Offset Activity Update job performs the following:

- Validates the job parameters.
- Identifies the records on the Intercept Request (INTR) table based on the value of the Entity and Debt Type job parameter and updates the Status from Active to Inactive.
- Identifies and updates the records on FEDHDR and FEDMTCH tables based on the selection criteria and inserts records to the FEDACTV table.

The following table shows the various steps that the Federal Vendor Offset Activity Update job goes through and the messages issued at each step:

Process Steps	Messages
1. Parameter Validation	<ul style="list-style-type: none"> • Validating Batch Parameters. • Parameters are valid or invalid depending on the validation. If the parameter is invalid, the invalid value is displayed in the log. • Batch Parameter validation completed.
2. Selection of Records	<ul style="list-style-type: none"> • Identify the records on the FEDHDR table, where the File Processing Status is set to <i>Match File Processed (4)</i> or <i>Match File Processed without Debts (5)</i>. • If the selection does not return any records, the following warning message is issued: “No records were selected from the FEDHDR table” and sets the job Return Code to <i>Warning</i> and stops processing.
3. Processing the records	<ul style="list-style-type: none"> • If the Header record is found on the FEDHDR table, where the File Processing Status (FILE_PROC_STA_IND) is set to the value associated with <i>Match File Processed (4)</i>, the following informational message is issued: “The Vendor Offset Update File is pending generation for the Office ID (FED_OFFC_ID) and Schedule Number (FED_SCHED_NUM) of the selected FEDHDR record”. • If the Header record is found on the FEDHDR table, where the File Processing Status (FILE_PROC_STA_IND) is set to the value associated with <i>Match File Processed without Debts (5)</i>, the following informational message is issued: “The Vendor Offset Update File is pending generation for the Office ID (FED_OFFC_ID) and Schedule Number (FED_SCHED_NUM) of the selected FEDHDR record”.

Restartability Information

This job does not support restartability. If the job fails, it has to be rescheduled again.

Major Input

- Intercept Activity (INTA) table
- Intercept Request (INTR) table

- Federal Vendor Intercept Header (FEDHDR) table
- Federal Vendor Intercept Match (FEDMTCH) table

Batch Parameters

Parameter Name	Description	Default Value
Entity Code	Required. Entity Code assigned to Federal Debts.	N/A
Debt Type Code	Required. Debt Type Code assigned to Federal Debts.	N/A

Major Output

- Intercept Request (INTR) table
- Federal Vendor Intercept Header (FEDHDR) table
- Federal Vendor Intercept Match (FEDMTCH) table
- Federal Vendor Intercept Activity (FEDACTV) table

Job Return Code

The following table shows the potential job Return Codes for the Federal Vendor Match File Load job:

Return Code	Condition
Successful (1)	A record is identified as per the selection criteria and updated successfully.
Warning (4)	This Return Code is issued under the following condition: <ul style="list-style-type: none"> • No records were selected from the FEDHDR table.
Non Fatal Error	This Return Code is not issued for this job.
Failed (12)	The job will fail under the following conditions: <ul style="list-style-type: none"> • Parameter values are invalid. • Required parameter values are missing. • Run time exceptions for unexpected situations. When this job ends with a Return Code of <i>Failed</i> , the subsequent jobs in the chain are set to <i>Inactive</i> .
Terminated (16)	This Return Code is issued when the job is terminated by the user. When this job ends with a return code of <i>Terminated</i> , the subsequent jobs in the chain are set to <i>Inactive</i> .
System Failure (20)	This return code is issued when the job is terminated because of database server or network issues. When this job ends with a Return Code of <i>System Failure</i> , the subsequent jobs in the chain are set to <i>Inactive</i> .

Sort Criteria

N/A

Selection Criteria

The Federal Vendor Offset Activity Update job selects the record based on the following criteria:

- Select record from the INTR table, where the Entity and Debt Type matches the Entity and Debt Type provided in the job parameter.
- Select record from the FEDHDR table, where the File Processing Status is set to *Match File Processed (4)*.
 - Use the combination of the Agency Location Code (FED_AGCY_LOC_CD), Office ID (FED_OFFC_ID), and Schedule Number (FED_SCHED_NUM) of the selected FEDHDR record to locate all respective federal debts on the Federal Vendor Intercept Match (FEDMTCH) table.
 - Use the Debt Sequence ID (FED_DEBT_SEQ_ID) of each federal debt record selected from the FEDMTCH table along with specified values for the Entity (ENTY_CD) and Debt Type (DEBT_TYP_CD) batch parameters to locate the associated intercept transactions on the Intercept Activity (INTA) table.
 - The Debt Sequence ID (FED_DEBT_SEQ_ID) on the FEDMTCH table is compared against the RE Transaction ID (RE_DOC_ID) on the INTA table.
- Select records from the FEDHDR table where the File Processing Status is set to *Match File Processed without Debts (5)*.

Problem Resolution

The following table shows the possible return codes and recommendations for each processing step.

Step 1: Parameter Validation

Possible Return Codes	Condition	Recommendation	Other Instructions
Successful (1)	The job parameter validations are successful, that is, there are no errors raised during validations.	N/A	N/A
Warning (4)	N/A	N/A	N/A
Non Fatal Error (8)	N/A	N/A	N/A
Failed (12)	All of the required parameters are not entered or are invalid. Sample Message:	If the parameters are invalid, enter the valid parameter and reschedule the chain job.	N/A

	Entity Code does not exist on Entity table.		
	Sample Message: Entity Code is required.	If the required parameters are not entered, enter the required parameters and reschedule the chain job.	N/A
Terminated (16)	The job is terminated manually by the user.	The reason for the termination needs to be investigated. The chain job can be rescheduled.	N/A
System Failure (20)	The job is terminated because of database server or network issues.	The reason for the System Failure needs to be investigated. The chain job can be rescheduled.	N/A

Step 2: Selection of Records

Possible Return Codes	Condition	Recommendation	Other Instructions
Successful (1)	The job identifies records on the FEDHDR and INTR tables based on the selection criteria.	N/A	N/A
Warning (4)	No records are identified on the FEDHDR table. Sample Message: No records were selected from the FEDHDR table.	N/A	N/A
Non Fatal Error (8)	N/A	N/A	N/A
Failed (12)	The job fails because of runtime exceptions for an unexpected situation.	This step is performed only if the parameter validation is successful. It can fail with fatal conditions on encountering unknown exceptions. If that happens, investigate the exception reported by the process, resolve the error and reschedule the chain job.	N/A
Terminated(16)	The job is terminated manually by the user.	The reason for the termination needs to be investigated before rescheduling the chain job.	N/A

System Failure(20)	The job is terminated because of database server or network issues.	The reason for the System Failure needs to be investigated before rescheduling the chain job.	N/A
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Step 3: Processing the Records

Possible Return Codes	Condition	Recommendation	Other Instructions
Successful (1)	The FEDHDR, FEDMTCH, and INTR records are updated successfully. Sample Message: The Vendor Offset Update File is pending generation for the Office ID (FED_OFFC_ID) and Schedule Number (FED_SCHED_NUM) of selected FEDHDR record.	N/A	N/A
Warning (4)	N/A	N/A	N/A
Non Fatal Error (8)	N/A	N/A	N/A
Failed (12)	The job fails because of runtime exceptions for an unexpected situation.	The failure reason needs to be investigated before rescheduling the chain job.	N/A
Terminated(16)	The job is terminated manually by the user.	The reason for the termination needs to be investigated before rescheduling the chain job.	N/A
System Failure(20)	The job is terminated because of database server or network issues.	The reason for the System Failure needs to be investigated before rescheduling the chain job.	N/A

Federal Vendor Offset Update Chain: Fed Vendor Offset Update File Generation Job

Job Name	Federal Vendor Offset Update File Generation
Recommended Frequency	This job can be run on a daily basis or on demand.
Single Instance Required	No
Can be restarted?	No
Reports Generated	No

Overview

The Federal Vendor Offset Update File Generation batch job creates SADO Vendor Offset Update files from the Federal Vendor Intercept Header and Federal Vendor Intercept Match tables. During each run, this batch process can generate more than one outbound SADO Vendor Offset Update file to be sent to BFS.

The Federal Vendor Offset Update File Generation job performs the following:

- Validates the job parameters.
- Identifies the records from the FEDHDR table based on the selection criteria, updates it, and creates the Header record of the SADO Vendor Offset Update File.
- Identifies the FEDMTCH record corresponding to each of the identified FEDHDR records, updates it, and creates the Data record of the SADO Vendor Offset Update File.
- Posts the generated file to the *Out_Files_To_FMS* and *Arch_Out_Files_To_FMS* folder at the application server location.

The following table shows the various steps that the Federal Vendor Offset Update File Generation job goes through and the messages issued at each step:

Process Steps	Messages
1. Parameter Validation	<ul style="list-style-type: none"> • Validating Batch Parameters. • Parameters are valid or invalid depending on the validation. If the parameter is invalid, the invalid value is displayed in the log. • Batch Parameter validation completed.
2. Selection of Records	<ul style="list-style-type: none"> • Identify the FEDHDR record, where the File Processing Status (FILE_PROC_STA_IND) is set to "Pending Update File Generation" (6). • If the selection does not return any records, the following warning message is issued: "No SADO Vendor Offset Update File was selected from the FEDHDR table."
3. Create SADO Vendor Offset Update File	<ul style="list-style-type: none"> • If the job identifies FEDHDR and its corresponding FEDMTCH records, the following informational message is issued: "The SADO Vendor Offset Update File <file_name> was generated for the Office ID (FED_OFFC_ID) and Schedule Number (FED_SCHED_NUM) of processed FEDHDR record". • If the FEDMTCH records are not identified for the corresponding selected FEDHDR record, the following informational message is issued: "No data records

Process Steps	Messages
	were selected for the Office ID <value> and Schedule Number <value>”.

Restartability Information

This job does not support restartability. If the job fails it has to be rescheduled again.

Major Input

- Federal Vendor Intercept Header (FEDHDR) table
- Federal vendor Intercept Match (FEDMTCH) table
- Application Parameters (APPCTRL) table

Batch Parameters

Parameter Name	Description	Default Value
Export File Location	Required. Export File Location for the Flat File	\$\$AMSEXPORT\$\$/FMS/Out_Files_To_FMS/
Archive Export File Location	Required. Archive File Location for the Flat File	\$\$AMSEXPORT\$\$/FMS/Arch_Out_Files_To_FMS/
Export File Name – 1 st Segment	Required. First Segment of the Export Flat File Name	IPNTSUPD
Export File Name – 2 nd Segment Prefix	Required. Second Segment Prefix of the Export Flat File Name	C
Export File Name – 3 rd Segment Prefix	Required. Third Segment Prefix of the Export Flat File Name	AG
Export File Name - 4 th Segment Prefix	Required. Fourth Segment Prefix of the Export Flat File Name	P

Major Output

- Federal Vendor Intercept Header (FEDHDR) table
- Federal Vendor Intercept Match (FEDMTCH) table
- Generate Vendor Offset Update file (For Example: IPNTSUPD_Cyymmdd_AG##_Psss.txt)

Note: The naming convention is defined in the BFS Agency Guide and may be updated.

Job Return Code

The following table shows the potential job Return Codes for the Federal Vendor Offset Update File Generation job:

Return Code	Condition
Successful (1)	This Return Code is issued under the following conditions: <ul style="list-style-type: none"> When the FEDHDR and FEDMTCH records are identified as per the selection criteria and the SADO Vendor Offset Update file is created successfully. When only the FEDHDR record is identified and a FEDMTCH record is not identified.
Warning (4)	This Return Code is issued under the following condition: <ul style="list-style-type: none"> No record is selected from the FEDHDR table.
Non Fatal Error (8)	<ul style="list-style-type: none"> This Return Code is not issued for this job.
Failed (12)	The job will fail under the following conditions: <ul style="list-style-type: none"> Parameters are invalid. Required parameter is blank.
Terminated (16)	This Return Code is issued when the job is terminated by the user.
System Failure (20)	This Return Code is issued when the job is terminated because of database server or network issues.

Sort Criteria

The Federal Vendor Offset Update File Generation job sorts all of the selected FEDMTCH records by the Debt Sequence ID in ascending order, while creating the Data Record for the Federal Vendor Offset Update file.

Selection Criteria

The Federal Vendor Offset Update File Generation job selects the records based on the following criteria:

- Select records from FEDHDR table, where the File Processing Status is set to *Pending Update File Generation*.
 - Use the combination of the Agency Location Code (FED_AGCY_LOC_CD), Office ID (FED_OFFC_ID), and Schedule Number (FED_SCHED_NUM) of the selected FEDHDR record to locate all respective federal debts on the FEDMTCH table.

Problem Resolution

The following table shows the possible Return Codes and recommendations for each processing step:

Step 1: Parameter Validation

Possible Return Codes	Condition	Recommendation	Other Instructions
Successful (1)	The job parameter validations are successful, that is, there are no errors raised during validations.	N/A	N/A

Warning (4)	N/A	N/A	N/A
Non Fatal Error (8)	N/A	N/A	N/A
Failed (12)	All of the required parameters are not entered or are invalid. Sample Message: Invalid Parameter ARCHEXPORT<Value> is not a valid directory on the server.	If the required parameters are not entered, enter the required parameters and reschedule the chain job.	N/A
	Sample Message: ARCHEXPORT parameter cannot be blank.	If the parameters are blank, enter the valid parameter value and reschedule the chain job.	N/A
Terminated (16)	The job is terminated manually by the user.	The reason for the termination needs to be investigated. The chain job can be rescheduled.	N/A
System Failure (20)	The job is terminated because of database server or network issues.	The reason for the System Failure needs to be investigated. The chain job can be rescheduled.	N/A

Step 2: Selection of Records

Possible Return Codes	Condition	Recommendation	Other Instructions
Successful (1)	When the job identifies FEDHDR records based on the selection criteria.	N/A	N/A
Warning (4)	No FEDHDR records are identified as per the selection criteria. Sample Message: No SADO Vendor Offset Update File was selected from the FEDHDR table.	N/A	N/A
Non Fatal Error (8)	N/A	N/A.	N/A

Failed (12)	The job fails because of runtime exceptions for an unexpected situation.	This step is performed only if the parameter validation is successful. It can fail with fatal conditions only on encountering unknown exceptions. If that happens, investigate the exception reported by the process, resolve the error and reschedule the chain job.	N/A
Terminated(16)	The job is terminated manually by the user.	The reason for the termination needs to be investigated before rescheduling the chain job.	N/A
System Failure(20)	The job is terminated because of database server or network issues.	The reason for the System Failure needs to be investigated before rescheduling the chain job.	N/A

Step 3: Create SADO Vendor Offset Update file

Possible Return Codes	Condition	Recommendation	Other instructions
Successful (1)	The SADO Vendor Offset Update file is created and the FEDHDR and FEDMTCH records are updated successfully. Sample Message: The SADO Vendor Offset Update File <file_name> was generated for the Office ID (FED_OFFC_ID) and Schedule Number (FED_SCHED_NUM) of processed FEDHDR record".	N/A	N/A
	The SADO Vendor Offset Update file is generated with only a Header record. Sample Message:	N/A	N/A

	No data records were selected for the Office ID <value> and Schedule Number <value>.		
Warning (4)	N/A	N/A	N/A
Non Fatal Error (8)	N/A	N/A	N/A
Failed (12)	The job fails because of runtime exceptions for an unexpected situation.	The failure reason needs to be investigated before rescheduling the job.	N/A
Terminated (16)	The job is terminated manually by the user.	The reason for the termination needs to be investigated. The chain job can be rescheduled.	N/A
System Failure (20)	The job is terminated because of database server or network issues.	The reason for the System Failure needs to be investigated. The chain job can be rescheduled.	N/A

2.1.13 Generate Federal Offset Payment

Chain Name	Generate Federal Offset Payment
Recommended Frequency	The Generate Federal Offset Payment chain job can be run on a daily basis as part of the nightly cycle or on demand.
Single Instance Required	Yes
Can be restarted?	No
Reports generated	Yes, some of the jobs in the chain generate the Exception report. Please refer to the individual jobs for more details.

Overview

The Generate Federal Offset Payment chain (GOP chain) job in Advantage Financial is a group of jobs that work together to create transfer transactions for internal and external debts. The General Federal Offset Payment process transfers the funds, and in the case of internal debts, it liquidates the Receivable (RE) transactions. This process generates the Federal Offset Transfer (ITO) and GA Federal Offset Payment (GAOP) transactions, which record the federal transfer against the federal offset amount based on the setup available on the Intercept External Allocation table (INTEA) table. The GOP chain has the following jobs (each of the jobs listed below is described in subsequent sections):

- ITO XML Creation
-
- Generate Federal Offset Payment Chain: GAOP XML Creation
- Generate Federal Offset Payment Chain: ITO Uploading Job
-
- Generate Federal Offset Payment Chain: GAOP Uploading Job
-
- Generate Federal Offset Payment Chain: ITO Transaction Submission Job
- Generate Federal Offset Payment Chain: GAOP Transaction Submission Job
-
- Generate Federal Offset Payment Chain: ITO Transaction Exception Job
-
- Generate Federal Offset Payment Chain: GAOP Transaction Exception Job

Note: Even though the above jobs in the chain can be run individually by disabling other jobs, it is recommended to always run the entire chain.

The acceptable Pre Condition Return Code configuration depends upon the business requirement. For example, if the requirement is that the subsequent jobs in the chain should continue only if the job ends with a Return Code of *Successful*, then the Pre Condition Return Codes for all of the jobs should be set to *Successful*. If for some jobs in the chain, *Non Fatal Error* is an acceptable job Return Code, then that can also be configured. These configurations can be done on the Job Setup (BATSETUP) page.

For baseline configuration, the ITO Uploading and GAOP Uploading jobs are started only after the ITO XML Creation job or GAOP XML Creation job ends with a Return Code of *Successful*,

Warning, or *Non Fatal Error*, respectively. If any of the jobs in the chain ends with a Return Code of *Failed*, *Terminated* or *System Failure*, all of the subsequent jobs will be set to *Inactive*.

Major Input

- Federal Offset Summary (FOTS) table
- Federal Offset Activity (FOTA) table

Major Output

- Internal Transfer for Offset transactions
- Federal Offset Payment transactions
- Intercept Activity table
- Intercept Request table
- Federal Offset Request table
- ITO Exception Report
- GAOP Exception Report

Chain Job Return Code

The following table indicates the potential Return Codes for the GOP chain job. Note that the GOP chain will end with the highest Return Code across all of the jobs.

Return Code	Condition
Successful (1)	All of the jobs end successfully.
Warning (4)	One of the jobs in the chain ends with a Return Code of "Warning".
Non Fatal Error (8)	One of the jobs in the chain ends with a Return Code of "Non Fatal Error".
Failed (12)	One of the jobs in the chain ends with a Return Code of "Failed".
Terminated (16)	One of the jobs in the chain ends with a Return Code of "Terminated".
System Failure (20)	One of the jobs in the chain ends with a Return Code of "System Failure".

Problem Resolution

Please refer to the individual jobs for details regarding the specific job processes and problem resolution.

Generate Federal Offset Payment Chain: ITO XML Creation Job

Job Name	ITO XML Creation
Recommended Frequency	This job can be run on a daily basis as part of the nightly cycle or on demand.
Single Instance Required	Yes
Can be restarted?	No
Reports Generated	No. All of the exceptions are only written to the log.

Overview

The ITO XML Creation job generates the ITO transaction (XML) from the FOTA table to transfer the cash collected or reversed from BFS against the internal and external debts. The Federal Offset Activity record gets deleted by the corresponding Transfer transaction, when processed to *Final*.

This job creates the Transfer transactions in the form of an XML file that will be loaded into the Transaction Catalog by the ITO Uploading job. The ITO XML Creation job creates the Submit Parameter file when the records are written into the XML file. This file is used by the ITO Transaction Submission job, which submits the ITO transactions to *Final*.

The grouping and consolidation logic for ITO XML creation depends upon the MAX_LINE_LIMIT property value of IET_DOC_VEND and IET_DOC_ACTG set on the Transaction Component Requirements (DCREQ) table in the Advantage Administration application. If the Vendor Line Count or Accounting Line Count set on DCREQ is crossed, then the remaining lines are created in the next transaction.

The following table shows the various steps that the ITO XML Creation job goes through and the messages issued at each step:

Process Steps	Messages
1. Parameter Validation	<ul style="list-style-type: none"> • Validating Batch Parameters. • Parameters are valid or invalid depending on the validation. If the parameter is invalid, the invalid value is displayed in the log. • Batch Parameter validation completed.
2. Selection of Records	<ul style="list-style-type: none"> • Selecting eligible records from FOTA. • If the selection does not return any records, then the following message will be issued: <ul style="list-style-type: none"> • For Internal Debts, "No Eligible record found for Internal Debts." • For External Debts, "No Eligible record found for External Debts." • Selection of records completed.
3. Create XML file	<ul style="list-style-type: none"> • Generating the ITO XML file. • ITO XML file generated. • Submit parameter file created.

Restartability Information

This job cannot be restarted.

Major Input

- Federal Offset Summary (FOTS) table
- Federal Offset Activity (FOTA) table
- Auto Numbering (ADNT) table
- Transaction Component Requirements (DCREQ) table
- Event Type Defaults for Reciprocity (ITETDFLT) table
- Intercept Reference tables
 - Intercept External Allocation (INTEA) table
 - Intercept Fee Setup (INTF) table
 - Entity (ENTY) table
 - Debt Type (DBTYP) table
 - Intercept Options (IOPT) table

Batch Parameters

Parameter	Description	Default Value
Export Location	Required	No Default
Parameter Location	Required	No Default
Transaction Prefix (DOC_PFX)	Optional	
APPLY_OVERRIDES	Required	true
Transaction Code (DOC_CD)	Required field. This field refers to the transaction that will be generated by the ITO XML Creation job.	
Transaction Department Code (DOC_DEPT_CD)	Required field. The Transaction Department Code to be used with the Transaction Code and Prefix to find an Auto Numbering (ADNT) entry. This appears as the Transaction Department Code for all transactions created by the job.	
Transaction Unit Code (DOC_UNIT_CD)	Conditionally Required field. This field is required, if the Transaction Unit Code Required flag is set to <i>true</i> (selected) for the Transaction Code on the	

Parameter	Description	Default Value
	Transaction Control (DCTRL) table; otherwise, it's an optional field. This field provides additional security with Unit Code, because it enables the transaction access to be secured at a level below Department.	
Transaction Description (DOC_DSCR)	Optional. Provides the Transaction Description for the generated Transfer transactions.	
Exchange Detail Event Type (EVNT_TYP_ID)	Required. Indicates the Event Type that should be used on the Exchange Details section of the ITO transaction.	
Accounting Template for Exchange Detail	Required. Indicates the Accounting Template that should be used on the Exchange Details section of the ITO transaction.	
Offset Fee Event Type	Required. Indicates the Event Type that should be used on the 2 nd Party Accounting section of the ITO transaction.	
Transaction Status Code	Required. The Transaction Status for generated Transfer transactions (1 - Held, 2 - Ready)	2
Exception File (EXCEP_REP_FILE_NM)	Required (and protected). Defines the name of the error file that is created.	ItoExep.txt
ITO_XML_FILE	Required (and protected). Defines the name of the ITO XML file that is created.	FederalOffsetTransfer.xml
Load Parameter File Name (txt)	Required. Load parameter file name.	LoadITOParam.txt
Submit Parameter File Name (txt)	Required. Submitting parameter file name.	SubmitITOParam.txt
OVERRIDE_LVL	Required. Defines the override level applied to the transaction generated.	10

Major Output

- ITO Transaction XML File
- SMU Job Parameter Files

Selection Criteria

The ITO XML Creation job selects the payment lines from the Federal Offset Activity (FOTA) table based on the following selection criteria:

- ITO for Internal debts
 - The Transaction Code is equal to the Transaction Type of RE under the Debt Record section on FOTA.
 - CR details are populated on the Federal Offset Activity (FOTS) page for the particular 'Offset Cycle' from the FOTA table. If not, then no payments are processed for the particular record.
- ITO for External debts
 - The Transaction Code is set to N/A under the Debt Record section on FOTA.
 - CR details are populated on FOTS for the particular 'Offset Cycle' from the FOTA table. If not, then no payments are processed for the particular record.
 - After selecting the records from FOTA, the job compares the records with the Entity/Debt Type combination on the INTEA table, only if the Issue Payment flag on the Intercept External Allocation (INTEA) page is set to false (unchecked). Then the job selects records eligible for further processing.

Problem Resolution

The following table shows the possible Return Codes and recommendations for each processing step:

Step 1: Parameter Validation

Possible Return Codes	Condition	Recommendation	Other Instructions
Successful (1)	Successful	N/A	N/A
Warning (4)	N/A	This step does not issue this Return Code.	This step does not issue this Return Code.
Non Fatal Error (8)	N/A	This step does not issue this Return Code.	This step does not issue this Return Code.
Failed (12)	The required parameters are not entered. Sample Message: "Check Transaction Code cannot be blank."	Enter the Check Transaction Code and reschedule the job.	

Possible Return Codes	Condition	Recommendation	Other Instructions
	<p>The entered parameters are not valid.</p> <p>Sample Message: “Department xxxx (xxxx being the value from the parameter) is not valid on the Department table.”</p>	<p>Enter the correct department and reschedule the job.</p>	
	<p>The job failed because of runtime exceptions for an unexpected situation.</p>	<p>The reason for the failure needs to be investigated before rescheduling the job.</p>	
Terminated (16)	<p>The job is terminated manually by the user.</p>	<p>The reason for the termination needs to be investigated. The job can be rescheduled.</p>	
System Failure (20)	<p>The job is terminated because of database server or network issues.</p>	<p>The reason for the System Failure needs to be investigated. The job can be rescheduled.</p>	

Step 2: Selection of records

Possible Return Codes	Condition	Recommendation	Other Instructions
Successful (1)	<p>Successful</p>	<p>N/A</p>	<p>N/A</p>
Warning (4)	<p>N/A</p>	<p>This step does not issue this Return Code.</p>	<p>This step does not issue this Return Code.</p>
Non Fatal Error (8)	<p>The job ended with a Return Code of <i>Warning</i>, because there is no matched INTEA table record.</p>	<p>Make sure that the INTEA table has matched records and reschedule the job.</p>	
	<p>The job ended with a Return Code of <i>Warning</i> because there are no eligible records found on the FOTA table.</p>	<p>This could happen when there are no eligible records found on the FOTA table.</p>	

Possible Return Codes	Condition	Recommendation	Other Instructions
Failed (12)	The job failed because of runtime exceptions for an unexpected situation.	In this step, the job may fail with fatal conditions only on encountering unknown exceptions. If that happens, investigate the exception reported by the process log, resolve the error and rescheduled the job.	
Terminated (16)	The job is terminated manually by the user.	The reason for the termination needs to be investigated. The job can be rescheduled.	
System Failure (20)	The job is terminated because of database server or network issues.	The reason for the System Failure needs to be investigated. The job can be rescheduled.	

Step 3: ITO XML Creation

Possible Return Codes	Condition	Recommendation	Other Instructions
Successful (1)	Successful	N/A	N/A
Warning (4)	N/A	This step does not issue this Return Code.	This step does not issue this Return Code.
Non Fatal Error (8)	N/A	This step does not issue this Return Code.	This step does not issue this Return Code.
Failed (12)	The job is failed due to Fatal conditions.	At this step, the job may fail if it encounters any runtime exceptions. If the job fails because of the runtime exceptions, investigate the exception reported by the process log, resolve the error, and reschedule the job.	
Terminated (16)	The job is terminated manually by the user.	The reason for the termination needs to be investigated. The job can be rescheduled.	

Possible Return Codes	Condition	Recommendation	Other Instructions
System Failure (20)	The job is terminated because of database server or network issues.	The reason for the System Failure needs to be investigated. The job can be rescheduled.	

Generate Federal Offset Payment Chain: GAOP XML Creation Job

Job Name	GAOP XML Creation
Recommended Frequency	This job can be run on a daily basis as part of the nightly cycle or on demand.
Single Instance Required	Yes
Can be restarted?	No
Reports Generated	No. All of the exceptions are only written to the log.

Overview

The GAOP XML Creation job generates the GAOP transaction (XML) from the Federal Offset Activity (FOTA) table to transfer the cash collected or reversed from BFS against the external debts. The Federal Offset Activity record gets deleted by the corresponding Transfer transaction when processed to final.

This job creates the Transfer transactions in the form of an XML file that are loaded into the Transaction Catalog by the GAOP Uploading job. The GAOP XML Creation job creates the Submit Parameter file when the records are written into the XML file. This file is used by the GAOP Transaction Submission job, which submits the GAOP transactions to *Final*.

The grouping and consolidation logic for GAOP XML creation depends upon the MAX_LINE_LIMIT property value of ABS_DOC_VEND, ABS_DOC_INCTDET and ABS_DOC_ACTG set on the Transaction Component Requirements (DCREQ) table in the Advantage Administration application. If the Vendor Line Count or Accounting Line Count set on DCREQ is crossed, then the remaining lines are created in the next transaction.

The following table shows the various steps that the GAOP XML Creation Job goes through and the messages issued at each step:

Process Steps	Messages
1. Parameter Validation	<ul style="list-style-type: none"> Validating Batch Parameters. Parameters are valid or invalid depending on the validation. If the parameter is invalid, the invalid value is displayed in the log. Batch Parameter validation completed.

Process Steps	Messages
2. Selection of Records	<ul style="list-style-type: none"> • Selecting eligible records from FOTA. • If the selection does not return any records, then the following message is issued: “No eligible record found”. • Number of records (count) selected is displayed. • Selection of records completed.
3. GAOP XML creation	<ul style="list-style-type: none"> • Generating the GAOP XML file. • GAOP XML file generated. • Number of transactions included in that XML file may be provided. • Submit parameter file created.

Restartability Information

This job cannot be restarted.

Major Input

- Federal Offset Summary (FOTS) table
- Federal Offset Activity (FOTA) table
- Auto Numbering (ADNT) table
- Transaction Component Requirements (DCREQ) table
- Intercept Reference Tables
 - Intercept External Allocation (INTEA) table
 - Intercept Fee Setup (INTF) table
 - Entity (ENTY) table
 - Debt Type (DBTYP) table
 - Intercept Options (IOPT) table

Batch Parameters

Parameter	Description	Default Value
Export Location	Required	No Default
Parameter Location	Required	No Default
APPLY_OVERRIDES	Required	true
Transaction Prefix (DOC_PFX)	Optional	
Transaction Code (DOC_CD)	Required field. This field refers to the Transaction Code that	

Parameter	Description	Default Value
	is generated by the GAOP XML Creation job.	
Transaction Department Code (DOC_DEPT_CD)	Required field. The Transaction Department Code to be used with the Transaction code and Prefix to find an Auto Numbering (ADNT) entry. This appears as the Transaction Department Code for all transactions created by the job.	
Transaction Unit Code (DOC_UNIT_CD)	Conditionally Required field. This field is required, if the Transaction Unit Code Required flag is set to <i>true</i> (selected) for the Transaction Code on the DCTRL table; otherwise, it is an optional field. This field provides additional security with Unit Code, because it enables the transaction access to be secured at a level below Department.	
Transaction Description (DOC_DSCR)	Optional. Provides the Transaction Description for the generated Transfer transactions.	
Non-Fee Line Event Type (EVNT_TYP_ID)	Required. Indicates which event type is used in the GAOP Non Fee Line (that is, ITO Accounting lines generated to record the actual intercept / offset; the AL will not have the Intercept Fee code) on the Accounting section of the transaction.	
Accounting Template	Required. Indicates which accounting template is used on the GAOP transaction	
Offset Fee Event Type	Required. Indicates	

Parameter	Description	Default Value
	which event type is used on the Fee Line (that is, ITO Accounting lines generated to record the intercept / offset fee; the AL will have the Intercept Fee code) of the GAOP transaction	
Transaction Status Code	Required. The Transaction Status for generated Transfer Transactions (1 - Held, 2 - Ready).	2
Exception File (EXCEP_REP_FILE_NM)	Required (and protected). Defines the name of the error file that is created.	ItoExep.txt
GAOP_XML_FILE	Required (and protected). Defines the name of the GAOP XML file that is created.	FederalOffsetPayment.xml
Load Parameter File Name (txt)	Required. Load parameter file name.	LoadGAOPParam.txt
Submit Parameter File Name (txt)	Required. Submitting parameter file name.	SubmitGAOPParam.txt
OVERRIDE_LVL	Required. Defines the override level applied to the transaction generated.	10
SCHED_PYMT_DT	Optional. Defines the Schedule Payment Date for the payment transaction generated.	

Major Output

- GAOP Transaction XML File
- SMU Job Parameter Files

Selection Criteria

The GAOP XML Creation job selects the payment lines from the Federal Offset Activity (FOTA) table, based on the following selection criteria:

- GAOP for External debts
 - The Transaction Code is equal to the transaction code of *N/A*.
 - The CR details are populated on the Federal Offset Activity (FOTS) table for the particular 'Offset Cycle' from the FOTA table. If not, then no payments are processed for the particular record.
 - The Issue Payment flag on the Intercept External Allocation (INTEA) page is set to *true* (checked) for the Entity/Debt Type combination on the INTEA table.

Job Return Code

The following table shows the potential job Return Codes for the GAOP XML Creation job.

Return Code	Condition
Successful (1)	All of the selected payment records are processed successfully.
Warning (4)	No eligible records found. This could be because of the following reason: Issue Payment flag is not checked for the Entity/Debt Type combination on the INTEA table.
Non Fatal Error (8)	The FOTA table records are subject to the Maximum Line Limit edits.
Failed (12)	The job will fail under the following conditions: <ul style="list-style-type: none"> • Parameters are invalid. • Run time exceptions for unexpected situations. • When this job ends with a Return Code of <i>Failed</i>, the subsequent jobs in the chain are set to <i>Inactive</i>.
Terminated (16)	This Return Code is issued when the job is terminated by the user. When this job ends with a Return Code of <i>Terminated</i> , the subsequent jobs in the chain are set to <i>Inactive</i> .
System Failure (20)	This Return Code is issued when the job is terminated because of database server or network issues. When this job ends with a Return Code of <i>System Failure</i> , the subsequent jobs in the chain are set to <i>Inactive</i> .

Problem Resolution

The following table shows the possible Return Codes and recommendations for each processing step:

Step 1: Parameter Validation

Possible Return Codes	Condition	Recommendation	Other Instructions
Successful (1)	Successful	N/A	N/A
Warning (4)	N/A	This step does not issue this Return Code.	This step does not issue this Return Code.

Possible Return Codes	Condition	Recommendation	Other Instructions
Non Fatal Error (8)	N/A	This step does not issue this Return Code.	This step does not issue this Return Code.
Failed (12)	The required parameters are not entered. Sample Message: "Transaction code cannot be blank."	Enter the Transaction Code and reschedule the job.	
	The entered parameters are not valid. Sample Message: "Department xxxx (xxxx being the value from the parameter) is not valid on the Department table."	Enter the correct Department and reschedule the job.	
	The job failed because of runtime exceptions for an unexpected situation.	The reason for the failure needs to be investigated before rescheduling the job.	
Terminated (16)	The job is terminated manually by the user.	The reason for the termination needs to be investigated. The job can be rescheduled.	
System Failure (20)	The job is terminated because of database server or network issues.	The reason for the System Failure needs to be investigated. The job can be rescheduled.	

Step 2: Selection of records

Possible Return Codes	Condition	Recommendation	Other Instructions
Successful (1)	Successful	N/A	N/A
Warning (4)	The job ended with a Return Code of <i>Warning</i> because there are no eligible records found on the FOTA Table.	This could happen when there are no eligible records found on the FOTA Table.	This step does not issue this Return Code.

Possible Return Codes	Condition	Recommendation	Other Instructions
	Sample Message: “No eligible records found on the FOTA Table.”		
Non Fatal Error (8)	The job ended with a Return Code of <i>Warning</i> because there is no matched INTEA table record. Sample Message: “No matched INTEA table record found.”	Make sure that the INTEA table has matched records and reschedule the job.	
Failed (12)	The job failed because of runtime exceptions for an unexpected situation.	In this step, the job can fail with fatal conditions only on encountering unknown exceptions. If that happens, investigate the exception reported by the process log, resolve the error and reschedule the job.	
Terminated (16)	The job is terminated manually by the user.	The reason for the termination needs to be investigated. The job can be rescheduled.	
System Failure (20)	The job is terminated because of database server or network issues.	The reason for the System Failure needs to be investigated. The job can be rescheduled.	

Step 3: GAOP XML Creation

Possible Return Codes	Condition	Recommendation	Other Instructions
Successful (1)	Successful	N/A	N/A
Warning (4)	N/A	This step does not issue this Return Code.	This step does not issue this Return Code.
Non Fatal Error (8)	N/A	This step does not issue this Return Code.	This step does not issue this Return Code.

Possible Return Codes	Condition	Recommendation	Other Instructions
Failed (12)	The job is failed due to fatal conditions.	At this step, the job can fail under the following two conditions: <ul style="list-style-type: none"> • Encounters any runtime exceptions • Failed during reschedule If the job fails because of the runtime exceptions, investigate the exception reported by the process log, resolve the error and schedule a new job.	
Terminated (16)	The job is terminated manually by the user.	The reason for the termination needs to be investigated. The job can be rescheduled.	
System Failure (20)	The job is terminated because of database server or network issues.	The reason for the System Failure needs to be investigated. The job can be rescheduled.	

Generate Federal Offset Payment Chain: ITO Uploading Job

Job Name	ITO Uploading
Recommended Frequency	This job can be run on a daily basis as part of the nightly cycle or on demand. It can be run on demand for a small set of records from the FOTA table to transfer the cash collected or reversed from the Bureau of Fiscal Service (BFS) against the internal and external debts.
Parallel processing enabled	No. Parallel processing is not supported for this job.
Can the job be restarted?	No.
Exception report produced	No. All of the exceptions are only written to the log.

Overview

The ITO Upload job loads the records from the XML File, which was generated by the ITO XML Creation job into the Transaction Catalog. This job uses the common utility to load the records into the Transaction Catalog. This job first validates the batch parameters. If the parameters are valid, then it loads the records into the Transaction Catalog. If the parameters are not valid, the job issues the appropriate messages and ends with a status of *Failed*. Once the records are loaded into the Transaction Catalog, the summary information is written into the log, which indicates the number of record in the input file and the number of records loaded successfully.

Major Input

ITO Transaction XML file

Batch Parameters

Parameter	Description	Default Value
PARM_FILE Parameter file to Load Transactions	Parameter file to Load Transactions	\$\$AMSPARM\$\$/oadITOParm.txt

Note: This PARM_FILE only contains the following subset of SMU parameters.

Parameter	Default Value
Action Code (ACTN_CD)	171
Commit Block Size (COMMIT_BLOCK)	1
Transaction Status Code (DOC_STA_CD)	2
Error File Name (ERROR_FILE_NM)	/ITOUplLoadError.txt
File Name To Be Imported (FILE_NM)	/ITODocument.xml
Apply Overrides (APPLY_OVERRIDES)	True
By Pass Auto Transaction Number (BYPS_ADNT_FL)	True

Please refer to the “SMU Transaction Upload Job” run sheet in the *CGI Advantage Financial – Utilities Run Sheets* guide for the full list of SMU Transaction upload batch parameters.

Major Output

ITO Transactions in draft version

Batch Return Codes

The following table shows the potential job Return Codes for the ITO Upload job.

Return Code	Condition
Successful (1)	All of the records are loaded into the Transaction Catalog successfully or the input file is empty.
Warning (4)	This Return Code is issued when some of the records failed to load but other records were loaded successfully.
Non Fatal Error (8)	None of the records got loaded into the Transaction Catalog.
Failed (12)	The job may fail under the following conditions: <ul style="list-style-type: none"> Parameters are invalid.

Return Code	Condition
	<ul style="list-style-type: none"> The input file is not found in the specified directory. Runtime exceptions encountered for any unexpected situations. <p>When the job ends with a Return Code of <i>Failed</i>, the subsequent jobs in the chain are set to <i>Inactive</i>.</p>
Terminated (16)	This Return Code is issued when the job is terminated by the user. When the job ends with a Return Code of <i>Terminated</i> , the subsequent jobs in the chain are set to <i>Inactive</i> .
System Failure (20)	This Return Code is issued when the job is terminated because of database server or network issues. When this job ends with a Return Code of <i>System Failure</i> , the subsequent jobs in the chain are set to <i>Inactive</i> .

Sort Sequence

N/A

Selection Criteria

N/A

Problem Resolution

The following table shows the possible Return Codes and recommendations for each processing step specific to the job in the chain. For general errors and recommendations, refer to the “SMU Transaction Upload Job” run sheet in the *CGI Advantage Financial – Utilities Run Sheets* guide.

Possible Return Codes	Condition	Recommendation	Other Instructions
Successful (1)	All of the records are successfully loaded. This is done by the SysManUtil “upload” action functionality.	N/A	N/A
Warning (4)	N/A	N/A	N/A
Non Fatal Error (8)	N/A	N/A	N/A
Failed (12)	The job failed due to fatal conditions	In this step, the job can fail if it encounters any runtime exceptions. Investigate the exception reported by the process, resolve the error and reschedule the job.	Schedule a new chain job.
Terminated (16)	The job is terminated manually by the user.	The reason for the termination needs to be investigated. A new job can be scheduled	N/A

Generate Federal Offset Payment Chain: GAOP Uploading Job

Job Name	GAOP Uploading
Recommended Frequency	This job can be run on a daily basis as part of the nightly cycle or on demand. It can be run on demand for a small set of records from the FOTA table to transfer the cash collected or reversed from the Bureau of Fiscal Service (BFS) against the external debts.
Parallel processing enabled	No. Parallel processing is not supported for this job.
Can the job be restarted?	No.
Exception report produced	No. All of the exceptions are only written to the log.

Overview

The GAOP Upload job loads the records from the XML File that were generated by the GAOP XML Creation job into the Transaction Catalog. This job uses the common utility to load the records into the transaction Catalog. This job first validates the batch parameters. If the parameters are valid, then it loads the records into the Transaction Catalog. If the parameters are not valid, the job issues appropriate messages and ends with a status of *Failed*. Once the records are loaded into the Transaction Catalog, the summary information is written into the log, which indicates the number of records present in the input file and the number of records loaded successfully.

Major Input

GAOP Transaction XML file

Batch Parameters

Parameter	Description	Default Value
PARM_FILE Parameter file to Load Transactions	Parameter file to load transactions.	\$\$AMSPARM\$\$/LoadGAOPParam.txt

Note: This PARM_FILE only contains the following subset of SMU parameters:

Parameter	Default Value
Action Code (ACTN_CD)	171
Commit Block Size (COMMIT_BLOCK)	1
Transaction Status Code (DOC_STA_CD)	2
Error File Name (ERROR_FILE_NM)	/GAOPUploadError.txt
File Name To Be Imported (FILE_NM)	/GAOPDocument.xml
Apply Overrides (APPLY_OVERRIDES)	True

Parameter	Default Value
By Pass Auto Transaction Number (BYPAS_ADNT_FL)	True

Please refer to the “SMU Transaction Upload Job” Run Sheet in the *CGI Advantage Financial – Utilities Run Sheets* guide for the full list of SMU Transaction upload batch parameters.

Major Output

GAOP Transactions in draft version.

Batch Return Codes

The following table shows the potential job Return Codes for the GAOP Upload job.

Return Code	Condition
Successful (1)	All of the records are loaded into the Transaction Catalog successfully or the input file is empty.
Warning (4)	This Return Code is issued when some of the records failed to load but all other records were loaded successfully.
Non Fatal Error (8)	None of the records get loaded into the Transaction Catalog.
Failed (12)	The job may fail under the following conditions: <ul style="list-style-type: none"> Parameters are invalid. When the input file is not found in the specified directory. Runtime exceptions encountered for any unexpected situations. When the job ends with a Return Code of <i>Failed</i> , the subsequent jobs in the chain are set to <i>Inactive</i> .
Terminated (16)	This Return Code is issued when the job is terminated by the user. When the job ends with a Return Code of <i>Terminated</i> , the subsequent jobs in the chain are set to <i>Inactive</i> .
System Failure (20)	This Return Code is issued when the job is terminated because of database server or network issues. When this job ends with a Return Code of <i>System Failure</i> , the subsequent jobs in the chain are set to <i>Inactive</i> .

Sort Sequence

N/A

Selection Criteria

N/A

Problem Resolution

The following table shows the possible Return Codes and recommendations for each processing step specific to the job in the chain. For general errors and recommendations, refer to the “SMU Transaction Upload Job” run sheet in the *CGI Advantage Financial – Utilities Run Sheets* guide.

Possible Return Codes	Condition	Recommendation	Other Instructions
Successful (1)	All of the records are successfully loaded. This is done by the SysManUtil “upload” action functionality.	N/A	N/A
Warning (4)	N/A	N/A	N/A
Non Fatal Error (8)	N/A	N/A	N/A
Failed (12)	The job failed due to fatal conditions	In this step, the job can fail if it encounters any runtime exceptions. Investigate the exception reported by the process, resolve the error and reschedule the job.	Schedule a new job
Terminated (16)	The job is terminated manually by the user.	The reason for the termination needs to be investigated. A new job can be scheduled.	N/A

Generate Federal Offset Payment Chain: ITO Transaction Submission Job

Job Name	ITO Transaction Submission
Recommended Frequency	This job can be run on a daily basis as part of the nightly cycle or on demand. It can be run on demand for a small set of records from the FOTA table to transfer the cash collected or reversed from the Bureau of Fiscal Service (BFS) against the internal and external debts.
Single Instance Required	No
Can be restarted?	No.
Report Generated	No. All of the exceptions are written to the error file.

Overview

This job submits the transactions listed in the input parameter files that were generated by the ITO XML Creation job. This process is a part of the GOP chain job that reads the SMU job parameter file to spawn multiple SysManUtil Submit jobs. In order to run the ITO / GAOP Submit step in parallel, the Job Interaction Client (JIC) must be used (refer to the *CGI Advantage System Administration Guide* for more information on JIC). When running the ITO / GAOP Submit step in

parallel, the "Process Assigned Jobs Only" flag must be set to *FALSE* on Job Server Control for all job managers.

Major Input

- SMU job parameter file
- Draft Transfer ITO Transactions on the Transaction Catalog

Batch Parameters

Parameter	Description	Default
PARM_FILE Parameter File	The Parameter File prefix used in the SMU job parameter file name. This parameter is set in the GOP Chain level and is not overrideable.	\$\$AMSPARM\$/SubmitITOParm.txt

Note: This job uses only a subset of the SMU submit job parameters. For a full list of available parameters for the SMU submit job, refer to the "SMU Transaction Submit Job" run sheet in the *CGI Advantage Financial – Utilities Run Sheets* guide.

Major Output

The transactions would have been processed to "Final" or "Rejected".

- Intercept Activity table
- Intercept Request table
- Federal Offset Request table

Batch Return Codes

The following table shows the potential job Return Codes for the individual ITO submit job.

Return Code	Condition
Successful (1)	All of the transactions generated in that run are submitted successfully.
Warning (4)	N/A
Non Fatal Error (8)	N/A
Failed (12)	The job may fail under the following conditions: <ul style="list-style-type: none"> • Input parameter file is not found. • Runtime exceptions encountered for any unexpected situations. When the job ends with a Return Code of <i>Failed</i> , the subsequent jobs in the chain are set to <i>Inactive</i> .
Terminated (16)	This Return Code is issued when the job is terminated by the

Return Code	Condition
	user. When the job ends with a Return Code of <i>Terminated</i> , the subsequent jobs in the chain are set to <i>Inactive</i> .
System Failure (20)	This Return Code is issued when the job is terminated because of database server or network issues. When this job ends with a Return Code of <i>System Failure</i> , the subsequent jobs in the chain are set to <i>Inactive</i> .

If the ITO Transaction Submission job uses the Job Interaction Client, then the Return Code of the ITO Transaction Submission job depends upon the Return Codes of the individual jobs that were spawned during the processing.

Return Code	Condition
Successful (1)	All of the individual jobs ran successfully.
Warning (4)	One of the jobs failed with a Return Code of "Warning".
Non Fatal Error (8)	One of the jobs failed with a Return Code of "Non Fatal Error".
Failed (12)	One of the jobs failed with a Return Code of "Failed".
Terminated (16)	One of the jobs failed with a Return Code of "Terminated".
System Failure (20)	One of the jobs failed with a Return Code of "System Failure".

Sort Sequence

N/A

Selection Criteria

N/A

Problem Resolution

The following table shows the possible Return Codes and recommendations for each processing step specific to the job in the chain. For general errors and recommendations, refer to the "SMU Transaction Submit Job" run sheet in the *CGI Advantage Financial – Utilities Run Sheets* guide:

Possible Return Codes	Condition	Recommendation	Other Instructions
Successful (1)	All of the records are successfully loaded. This is done by the SysManUtil "submit" action functionality.	N/A	N/A
Warning (4)	N/A	N/A	N/A

Possible Return Codes	Condition	Recommendation	Other Instructions
Non Fatal Error (8)	N/A	N/A	N/A
Failed (12)	The job failed due to fatal conditions	In this step, the job may fail if it encounters any runtime exceptions. Investigate the exception reported by the process, resolve the error and reschedule the job.	Schedule a new job
Terminated (16)	The job is terminated manually by the user.	The reason for the termination needs to be investigated. A new job can be scheduled.	N/A

Generate Federal Offset Payment Chain: GAOP Transaction Submission Job

Job Name	GAOP Transaction Submission
Recommended Frequency	This job can be run on a daily basis as part of the nightly cycle or on demand. It can be run on demand for a small set of records from the FOTA table to transfer the cash collected or reversed from the Bureau of Fiscal Service (BFS) against the external debts.
Single Instance Required	No
Can be restarted?	No
Report Generated	No. All of the exceptions are written to the error file.

Overview

This job submits the transactions listed in the input parameter files that were generated by the GAOP XML Creation job. This process is a part of the GOP Chain batch job that reads the SMU job parameter file to spawn multiple SysManUtil Submit jobs. In order to run the GAOP Submit step in parallel, the Job Interaction Client (JIC) must be used (refer to the *CGI Advantage System Administration Guide* for more information on JIC). Also, when running the GAOP Submit step in parallel, the "Process Assigned Jobs Only" flag must be set to *FALSE* on Job Server Control for all job managers.

Major Input

- SMU job parameter file
- Draft Transfer GAOP transactions on the Transaction Catalog

Batch Parameters

Parameter	Description	Default value
PARM_FILE Parameter File	Parameter file prefix used in the SMU job	For GAOP

	parameter file name. This parameter is set in the GOP chain level and is not overrideable.	\$\$AMSPARM\$\$/SubmitGAOPParm.txt
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Note: This job uses only a subset of the SMU submit job parameters. For a full list of available parameters for the SMU submit job, refer to the “SMU Transaction Submit Job” run sheet in the *CGI Advantage Financial – Utilities Run Sheets* guide.

Major Output

The transactions would have been processed to “Final” or “Rejected”.

- Intercept Activity table
- Intercept Request table
- Federal Offset Request table

Batch Return Codes

The following table shows the potential job Return Codes for the individual GAOP Submit job in the Transaction Submit step.

Return Code	Condition
Successful (1)	All of the transactions generated in the run are submitted successfully.
Warning (4)	N/A
Non Fatal Error (8)	N/A
Failed (12)	The job may fail under the following conditions: <ul style="list-style-type: none"> • Input parameter file is not found. • Runtime exceptions encountered for any unexpected situations. When the job ends with a Return Code of Failed, the subsequent jobs in the chain are set to <i>Inactive</i> .
Terminated (16)	This Return Code is issued when the job is terminated by the user. When the job ends with a Return Code of <i>Terminated</i> , the subsequent jobs in the chain are set to <i>Inactive</i> .
System Failure (20)	This Return Code is issued when the job is terminated because of database server or network issues. When this job ends with a Return Code of <i>System Failure</i> , the subsequent jobs in the chain are set to <i>Inactive</i> .

If the GAOP Transaction Submission job uses the Job Interaction Client, then the Return Code of the GAOP Transaction Submission job depends upon the Return Codes of the individual jobs that were spawned during the processing.

Return Code	Condition
Successful (1)	All of the individual jobs ran successfully.
Warning (4)	One of the jobs failed with a Return Code of "Warning".
Non-Fatal Error (8)	One of the jobs failed with a Return Code of "Non Fatal Error".
Failed (12)	One of the jobs failed with a Return Code of "Failed".
Terminated (16)	One of the jobs failed with a Return Code of "Terminated".
System Failure (20)	One of the jobs failed with a Return Code of "System Failure".

Sort Sequence

N/A

Selection Criteria

N/A

Problem Resolution

The following table shows the possible Return Codes and recommendations for each processing step specific to the job in the chain. For general errors and recommendations, refer to the "SMU Transaction Submit Job" Run Sheet in the *CGI Advantage Financial – Utilities Run Sheets* guide.

Possible Return Codes	Condition	Recommendation	Other Instructions
Successful (1)	All of the records are successfully loaded. This is done by the SysManUtil "submit" action functionality.	N/A	N/A
Warning (4)	N/A	N/A	N/A
Non Fatal Error (8)	N/A	N/A	N/A
Failed (12)	The job failed due to fatal conditions	In this step, the job may fail if it encounters any runtime exceptions. Investigate the exception reported by the process, resolve the error and reschedule the job.	Schedule a new job
Terminated (16)	The job is terminated manually by the user.	The reason for the termination needs to be investigated. A new job can be scheduled.	N/A

Generate Federal Offset Payment Chain: ITO Transaction Exception Job

Job Name	ITO Transaction Exception
Recommended Frequency	This job can be run on a daily basis as part of the nightly cycle or on demand.
Single Instance Required	Yes
Can be restarted?	No
Report Generated	Yes. The job generates the report in PDF and HTML formats.

Overview

The ITO Transaction Exception job in the GFOP chain generates an Exception report that lists all of the errors encountered when the ITO transaction was submitted during the ITO Transaction Submission job. The Exception report contains the following information:

- Transactions that failed during the submission
- Detailed error description along with the error code

The following table shows the progression messages issued in this job.

Process Steps	Messages
Creating exception report	<ul style="list-style-type: none"> • Validating batch parameters. • Parameter validation completed. • Selecting the records for reporting. • Total Number of records selected to write Exception report: 'n'. • Number of transactions processed for report: 'n' where n being the progression counter size. • Writing records to the report. • Number of records inserted in report: 'n' where n is the progression counter size. • Processing completed.

Restartability Information

This job cannot be restarted.

Major Input

Draft Transfer Transactions (ITO) in the Transaction Catalog with a Status of *Rejected*.

Batch Parameters

Parameter	Description	Default Value
AMSLOGS	Logs Location of ITO Transaction Exception Job	No Default
Client name for Report (CLIENT_NM)	Optional field. Entry of a value in this field specifies the name that appears on the report.	No Default
Exception File Name (EXCEP_REP_FILE_NM)	Required field. Exception File Name.	ExpRepFlatFile.txt
REPORT_ID	Optional field. The Report Id displayed in the Exception Report.	No Default
Exception Severity Flag (EXP_SEV_FL)	If enabled, only errors with a severity of 'Error' or 'Severe' are displayed on the Exception report. When disabled, all errors are displayed. Valid values are 0 (False/disabled) or 1 (True/enabled)/	1
Progression Counter Size	Optional field. During processing, the job writes messages to the log to report on its progress based on the number of records already processed. When this parameter is specified, the value controls the interval at which these progression messages are written to the job log. The specified value should be a positive integer.	500

Output

ITO Transaction Exception Report

Batch Return Codes

The following table shows the potential job Return Codes for the individual ITO Transaction Exception job in the GOP chain.

Return Code	Condition
Successful (1)	All of the transactions generated in the run are submitted successfully.
Warning (4)	N/A
Non Fatal Error (8)	N/A
Failed (12)	<ul style="list-style-type: none"> • The job may fail under the following conditions: • Input file is blank. • Input parameter file is not found in the specified folder. • Runtime exceptions encountered for any unexpected

Return Code	Condition
	situations. When the job ends with a Return Code of <i>Failed</i> , the subsequent jobs in the chain are set to <i>Inactive</i> .
Terminated (16)	This Return Code is issued when the job is terminated by the user. When the job ends with a Return Code of <i>Terminated</i> , the subsequent jobs in the chain are set to <i>Inactive</i> .
System Failure (20)	This Return Code is issued when the job is terminated because of database server or network issues. When this job ends with a Return Code of <i>System Failure</i> , the subsequent jobs in the chain are set to <i>Inactive</i> .

Sort Sequence

N/A

Selection Criteria

The job selects all of the draft ITO Transactions in the Transaction Catalog with a Status of *Rejected*.

Problem Resolution

The following table shows the possible Return Codes and recommendations for each processing step specific to the job in the chain.

Possible Return Codes	Condition	Recommendation	Other Instructions
Successful (1)	Successful	N/A	N/A
Warning (4)	N/A	This step does not issue this Return Code.	N/A
Non Fatal Error (8)	N/A	This step does not issue this Return Code.	N/A
Failed (12)	The input file is not entered. Sample Message: "Exception file is required"	Specify the Input file name and schedule a new job.	
	The input file is not found on the specified directory. Sample Message: "The system cannot find the specified file."	Make sure that the specified file exists in the directory and schedule a new job. Sometimes, the directory path may not be correct. In that case, enter the correct	

Possible Return Codes	Condition	Recommendation	Other Instructions
		directory path and restart the job. If the job cannot be restarted, schedule a new job.	
	The job failed because of runtime exceptions for an unexpected situation.	If the job fails with fatal conditions on encountering unknown exceptions, then investigate the exception reported by the process, resolve the error, and restart the job. If the job cannot be restarted, schedule a new job.	
Terminated (16)	The job is terminated manually by the user.	The reason for the termination needs to be investigated. The job can be rescheduled.	
System Failure (20)	The job is terminated because of database server or network issues.	The reason for the System Failure needs to be investigated. The job can be rescheduled.	

Generate Federal Offset Payment Chain: GAOP Transaction Exception Job

Job Name	GAOP Transaction Exception
Recommended Frequency	This job can be run on a daily basis as part of the nightly cycle or on demand.
Single Instance Required	Yes
Can be restarted?	No
Report Generated	Yes. The job generates the report in PDF and HTML formats.

Overview

The GAOP Transaction Exception job in the GAOP chain generates an exception report that lists all of the errors encountered when the GAOP transaction was submitted during the GAOP Transaction Submission job. The report contains the following information:

- Transactions that failed during the submission.
- Detailed error description along with the error code.

The following table shows the progression messages issued in this job.

Process Steps	Messages
Creating Exception Report	<ul style="list-style-type: none"> Validating batch parameters. Parameter validation completed. Selecting the records for reporting. Total Number of records selected to write Exception report: 'n'. Number of transactions processed for report: 'n'. Where n is the progression counter size. Writing records to the report. Number of records inserted in report: 'n' where n is the progression counter size. Processing completed.

Restartability Information

The job cannot be restarted.

Major Input

- Draft Transfer Transactions (GAOP) in the Transaction Catalog with a Status of *Rejected*.

Batch Parameters

Parameter	Description	Default Value
AMSLOGS	Logs Location at GAOP Transaction Exception Job	No Default
Client name for Report (CLIENT_NM)	Optional field. Entry of a value in this field specifies the name that appears on the report.	No Default
Exception File Name (EXCEP_REP_FILE_NM)	Required field. Exception File Name.	ExpRepFlat File.txt
REPORT_ID	Optional field. The Report Id that is displayed in the Exception Report.	No Default
Exception Severity Flag (EXP_SEV_FL)	If enabled, only errors with a severity of 'Error' or 'Severe' are displayed on the Exception report. When disabled, all errors are displayed. Valid values are 0 (false/disabled) or 1 (true/enabled).	1
Progression Counter Size	Optional field. During processing, the job writes messages to the log to report on its progress based on the number of records already processed.	500

Parameter	Description	Default Value
	When this parameter is specified, the value controls the interval at which these progression messages are written to the job log. A specified value should be a positive integer.	

Major Output

GAOP Transaction Exception Report

Batch Return Codes

The following table shows the potential job Return Codes for the individual GAOP Transaction Exception job in the GFOP chain:

Return Code	Condition
Successful (1)	All of the transactions generated in that run are submitted successfully.
Warning (4)	N/A
Non Fatal Error (8)	N/A
Failed (12)	<ul style="list-style-type: none"> • The job may fail under the following conditions: • Input file is blank. • Input parameter file is not found in the specified folder. • Runtime exceptions encountered for any unexpected situations.
Terminated (16)	This Return Code is issued when the job is terminated by the user.
System Failure (20)	This Return Code is issued when the job is terminated because of database server or network issues.

Sort Sequence

N/A

Selection Criteria

The job selects all of the draft GAOP Transactions on the Transaction Catalog with a Status of *Rejected*.

Problem Resolution

The following table shows the possible Return Codes and recommendations for each processing step specific to the job in the chain.

Possible Return Codes	Condition	Recommendation	Other Instructions
Successful (1)	Successful	N/A	N/A
Warning (4)	N/A	This step does not issue this Return Code.	N/A
Non Fatal Error (8)	N/A	This step does not issue this Return Code.	N/A
Failed (12)	The input file is not entered. Sample Message: "Exception file is required."	Specify the Input file name and schedule a new job.	
	The input file is not found on the specified directory. Sample Message: "The system cannot find the specified file."	Make sure that the specified file exists in the directory and reschedule a new job. Sometimes, the directory path may not be correct. In that case, enter the correct directory path and restart the job. If the job cannot be restarted, schedule a new job.	
	The job failed while restarting the job, since another instance of the job has already been run successfully. Sample Message: "Cannot restart the job since another instance of this job has already been run successfully."	Schedule a new job.	
	The job failed because of runtime exceptions for an unexpected situation.	If the job fails with fatal conditions on encountering unknown exceptions, then investigate the exception reported by the process, resolve the error and restart the job.	

Possible Return Codes	Condition	Recommendation	Other Instructions
		If the job cannot be restarted, schedule a new job.	
Terminated (16)	The job is terminated manually by the user.	The reason for the termination needs to be investigated. The job can be rescheduled.	
System Failure (20)	The job is terminated because of database server or network issues.	The reason for the System Failure needs to be investigated. The job can be rescheduled.	

2.1.14 Hold Payments for Pending Debts

Chain or Job Name	Hold Payments for Pending Debts
Recommended Frequency	The job can be run daily as part of the nightly cycle or on demand.
Single Instance Required	No
Can be restarted?	No. The job cannot be restarted.
Reports generated	None

Overview

This batch job selects intercept request (INTR) records that have the Status indicator set to 'In Review' and place pending payment requests with the corresponding TIN and TIN Type combination on intercept hold.

Process Steps

1. This process performs a lookup to the System Options (SOPT) table to verify the setting of the Payment Intercept flag.
 - If this flag is set to No (not selected) then the system is not set up to intercept payments and the job will terminate with a Return Code of Warning.
 - If Payment Intercept is set to Yes (*selected*), then the process will retrieve the value of the Intercept Miscellaneous Vendor Payment flag on SOPT and continue.
 - If no record is found on the Disbursement Hold Reason (HLDR) page with the Intercept Hold flag set to Yes (*selected*), then the job will terminate with a Return Code of Failed.
2. The process will then check INTR records for a Status of *In Review* and find matching DISRQ records.
3. The process will then perform a lookup based on the below conditions-.
 - Check SOPT Intercept flag is *True*, If Yes then
 - Check INTR records with a Status of *In Review* and if records are found then
 - Check whether a matching DISRQ record is found and is eligible based on
 - INTDBEX
 - Miscellaneous Account flag on DISRQ
4. For each matching disbursement request, the process will set the following values on the DISRQ record associated with the matching disbursement request:
 - User Hold is set to Yes (*selected*)
 - Hold Payment Reason is set to the Hold Reason that has the Intercept Hold flag set to Yes (*selected*) on HLDR.

Process Steps	Messages
1. Parameter Validation	<ul style="list-style-type: none"> • None

Process Steps	Messages
2. Selection of Records	<ul style="list-style-type: none"> No intercepts records on INTR found with a status of <i>In Review</i>. No disbursement requests were placed on Hold for an intercept in review.

This job cannot be restarted. If the job fails during any of the above steps, then a new job should be scheduled after correcting the errors that caused the job to fail.

Major Input

- System Option (SOPT) table
- Disbursement Hold Reason (HLDR) table
- Intercept Request (INTR) table
- Disbursement Request (DISRQ) table
- Intercept Disbursement Exception (INTDBEX) table

Batch Parameters

This job does not contain any batch parameters.

Parameter	Description	Default Value
N/A	N/A	N/A

Major Output

- Disbursement Request (R_AP_DISB_RQST) DISRQ Table

Job Return Code

Return Code	Condition
Successful (1)	<ul style="list-style-type: none"> All of the selected intercepted payments records are processed successfully. If the process does not update a single DISRQ record for an intercept hold, the system shall write a message to the job log and terminate the job with a Return Code of 'Successful'.
Warning (4)	<p>No eligible records found. This could be because of the following reasons:</p> <ul style="list-style-type: none"> No intercepts records on INTR found with a status of 'In Review'. Payment Intercepts are not allowed for the current fiscal year; therefore, payments cannot be placed on hold.
Non-Fatal Error (8)	None

Return Code	Condition
Failed (12)	The job will fail under the following conditions: <ul style="list-style-type: none"> • If a record does not exist on the Disbursement Hold Reason (HLDR) table with the Intercept Hold flag set to 'Yes', the system shall terminate the job. • Run time exceptions for unexpected situations.
Terminated (16)	This return code is issued when the job is terminated by the user. When this job ends with a Return Code of Terminated.
System Failure (20)	This return code is issued when the job is terminated because of database server or network issues.

Sort Criteria

Selected records on DISRQ Sorting Criteria are based on TIN and TIN_TYP.

Selection Criteria

Select Intercept Request (INTR) records where the following conditions are true for the INTR:

- Status is equal to *In Review*; and
- One of the following is true:
 - (*Internal debt*) If the Transaction Code on INTR does not equals NA and (Outstanding Amount (INTR) – Intercepted Amount (INTR) > 0); or
 - (*External debt*) If the Transaction Code on INTR equals NA and (Outstanding Amount (INTR) – Intercepted Amount (INTR) – Transferred Amount > 0).

If INTR records have been selected, the process will perform a look up to the Disbursement Request (DISRQ) table records for non-miscellaneous vendors where the following conditions are true:

- Miscellaneous Account flag equals *No*; and
- DISRQ record is not already on a non-system hold (User Hold and Disbursement Management Hold = *No*); and
- Account Line Amount > 0; and
- Procurement Card Payment flag is equal to *No*; and
- DISRQ record does not satisfy intercept exception criteria defined on the Intercept Disbursement Exemption (INTDBEX).

Since Disbursement Requests records for non-miscellaneous vendors does not contain TIN and TIN Type information for the vendor, the process performs a lookup to the Vendor Customer (VCUST) table for the Vendor Customer Code specified on the DISRQ record and retrieves the TIN and TIN Type. Note: disbursement requests records are exempt from intercept processing if the disbursement request of any combination on the DISRQ record (Transaction Code, Transaction Department, Transaction Unit, Transaction ID, Department, Appropriation, Object, or TIN and TIN Type) is present on an Intercept Disbursement Exception (INTDBEX) table record.

If the Intercept Miscellaneous Vendor Payment flag on the System Option (SOPT) table for the Fiscal Year for the current application date is set to Yes, then the process will retrieve disbursement requests for miscellaneous vendors by performing a lookup to the Disbursement Request (DISRQ) table records for miscellaneous vendors where the following conditions are true:

- Miscellaneous Account flag equals Yes; and
- DISRQ record is not already on a non-system hold (User Hold and Disbursement Management Hold = No); and
- Account Line Amount > 0; and
- Procurement Card Payment flag is equal to No; and
- TIN is not equal to null; and
- TIN Type is not equal to null; and
- DISRQ record does not satisfy intercept exception criteria defined on the Intercept Disbursement Exemption (INTDBEX).

Problem Resolution

The following table shows the possible return codes and recommendations for each processing step.

Step 1: Parameter Validation

Possible Return Codes	Condition	Recommendation	Other Instructions
Successful (1)	N/A	N/A	N/A
Warning (4)	N/A	N/A	N/A
Non Fatal Error (8)	N/A	N/A	N/A
Failed (12)	N/A	N/A	N/A
Terminated (16)	N/A	N/A	N/A
System Failure (20)	N/A	N/A	N/A

Step 2: Selection of Records:

Possible Return Codes	Condition	Recommendation	Other Instructions
Successful (1)	All of the selected intercept payment	N/A	N/A

Possible Return Codes	Condition	Recommendation	Other Instructions
	<p>records are processed successfully.</p> <p>If the process does not update a single DISRQ record for an intercept hold, the system shall write a message to the job log and terminate the job with a Return Code of <i>Successful</i>.</p> <p>Sample Message: “No disbursement requests were placed on Hold for an intercept in review.”</p>		
Warning (4)	<ul style="list-style-type: none"> • Payment Intercept flag on SOPT is set to ‘No’ • No intercepts records on INTR found with a status of <i>In Review</i>. <p>Sample Message: “Payment Intercepts are not allowed for the current fiscal year hence payments cannot be placed on Intercept hold.”</p> <p>No intercepts records on INTR found with a status of ‘In Review’.</p>	<ul style="list-style-type: none"> • NA • NA 	N/A
Non Fatal Error (8)	N/A	N/A	N/A
Failed (12)	<ul style="list-style-type: none"> • If a record does not exist on the Disbursement Hold 	<ul style="list-style-type: none"> • Select the Intercept Hold flag for one record on HLDR. 	N/A

Possible Return Codes	Condition	Recommendation	Other Instructions
	<p>Reason (HLDR) table with the Intercept Hold flag set to Yes, then the system shall terminate the job.</p> <ul style="list-style-type: none"> • Run time exceptions for unexpected situations. <p>Sample Message: “A Disbursement Hold Reason (HLDR) record with the Intercept Hold set to Yes does not exist and is required.”</p>	<ul style="list-style-type: none"> • If the job fails because of the runtime exceptions, investigate the exception reported by the process, resolve the error, and reschedule the job. 	
Terminated (16)	Job is terminated manually by the user.	The reason for the termination needs to be investigated. Then you can schedule a new job.	N/A
System Failure (20)	When the job is terminated because of database server or network issues.	The reason for the System Failure needs to be investigated. A new job can be scheduled.	N/A

2.1.15 Intercept Activity Export

Job Name	Intercept Activity Export
Recommended Frequency	On demand after the AD Chain has processed intercepts.
Single Instance Required	Yes
Can be restarted?	No
Reports generated	No

Overview

This batch job extracts records from Intercept Activity to an XML file based on specified parameters so that the information can be used to update an external debt system. By specifying parameters, users can precisely define the subset of records to extract, ensuring targeted and relevant data retrieval.

The fields are exported in the following order:

Vendor Customer – intercepted (VEND_CUST_CD, TIN (TIN), TIN Type (TIN_TYP), Intercepted (OFST_AM), Internal Transaction Code (ID_DOC_CD), Internal Transaction Dept (ID_DOC_DEPT_CD), Internal Transaction ID (ID_DOC_ID), Entity (ENTY_CD), Debt Type (DEBT_TYP_CD), Intercept ID (INT_ID), Intercept Date (INT_DT), Receivable Transaction Code (RE_DOC_CD), Receivable Transaction ID (RE_DOC_ID), Receivable Transaction Dept (RE_DOC_DEPT_CD), First Name (FRST_NM), Last Name (LAST_NM), Table Last Date (TBL_LAST_DT), TOP Trace Number (TOP_TRACE_NO), Federal Offset Debt Number (FED_OFST_DEBT_NO), Individual or Business Indicator (INDV_OR_BUS_IND), Name Control (NM_CTRL), Federal Offset Amount (FED_OFST_AM), Offset Date (OFST_DT), Reversal Indicator (RVRSL_IND), Reversal Amount (RVRSD_AMT), Reversed Date (RVRSD_DT), Year of Original Offset (YR_ORIG_OFST), Address Line 1 (STR_1_NM), Address Line 2 (STR_2_NM), Zip/Postal Code (ZIP), Country (CTRY_CD), Internal Vendor Line (ID_DOC_VEND_LN_NO), Internal Accounting Line (ID_DOC_ACTG_LN_NO), Refund Line Amount (ID_DOC_LN_AM), GAOP Transaction Code (GAOP_DOC_CD), GAOP Transaction Dept (GAOP_DOC_DEPT_CD), GAOP Transaction ID (GAOP_DOC_ID), GAOP Vendor Line (GAOP_VEND_LN_NO), GAOP Accounting Line (GAOP_ACTG_LN_NO), and Federal Offset Fee Collected (FED_OFST_FEE_COLL).

If other fields are desired, then the Additional Data parameter is used.

The process performs the following processing steps.

Process Steps	Messages
1. Parameter Validation	<ul style="list-style-type: none"> Validating Batch Parameters Parameters are valid or invalid depending on the Validation. If the parameter is invalid, the invalid value is displayed in the log. Batch Parameter validation completed
2. File Creation	<ul style="list-style-type: none"> Total Number records exported. Failed and Succeeded numbers

Major Input

- Intercept Activity (INTA / AP_INCT_ACTV)

Batch Parameters

The following are the delivered parameter values which may have been updated through Batch Setup to meet local needs.

Parameter	Description	Default Value
Commit Block Size (COMMIT_BLOCK_SIZE)	A required performance parameter that controls the number of records written to the output file in a single instance.	100
Debt Type Code (DEBT_TYP_CD)	An optional selection parameter.	No Default
Entity Code (ENTY_CD)	An optional selection parameter that is commonly used to select only records that match the external debt system.	No Default
Export All Rows (EXPORT_ALL_ROWS)	An optional selection parameter that will result in all rows being selected. Please enter as <i>Yes</i> or <i>No</i> .	No
Intercept Date (INTERCEPT_DT)	An optional selection parameter for a given date when the Application Date is not desired. Please enter as MM/DD/YYYY.	No Default
Receivable Transaction Code (RE_DOC_CD)	A required selection parameter.	No Default
Receivable Transaction Department Code (RE_DOC_DEPT_CD)	An optional selection parameter.	No Default
Table to Be Exported (TABLE_NM)	The required table name for the Intercept Activity table. This is a read-only field and cannot be modified.	AP_INCT_ACTV
Additional Data (ADDN_DATA)	An optional output parameter that contains any AP_INCT_ACTV fields not commonly exported.	No Default
Export File Directory (AMSEXPORT)	The required folder location where the output file is written.	\$\$AMSROOT\$\$/ExportImport
File Name (EXPORT_FILE)	Allows the users to enter the required name of the output XML file.	APIInctActvExport.xml

Major Output

- APInctActvExport.xml

Job Return Codes

Return Code	Condition
Successful (1)	The job ends as successful when all parameters are valid and at least 1 record is written to the output file.
Warning (4)	When no matching records are found.
Non-Fatal Error (8)	This job does not use this return code.
Failed (12)	The job fails under the following conditions: <ul style="list-style-type: none"> • Parameters are invalid. • Run time exceptions for unexpected situations. When this job fails, subsequent jobs in the chain are set to <i>Inactive</i> .
Terminated (16)	The job is terminated by the user. When this job is terminated, subsequent jobs in the chain are set to <i>Inactive</i> .
System Failure (20)	A system failure is issued when the job is terminated because of database server or network issues. When this job encounters a system failure, subsequent jobs in the chain are set to <i>Inactive</i> .

Sort Criteria

None as records are written out as stored on AP_INCT_ACTV.

Selection Criteria

Selection is based on which parameters are used.

Problem Resolution

The following table shows the potential job return codes for this job.

Step 1: Parameter Validation

Return Code	Condition	Recommendation	Other Instructions
Successful (1)	Parameters are valid	N/A	N/A
Warning (4)	N/A	N/A	N/A
Non-Fatal Error (8)	N/A	N/A	N/A

Return Code	Condition	Recommendation	Other Instructions
Failed (12)	The job failed due to a fatal condition such as: <ul style="list-style-type: none"> Invalid parameters Required parameters not supplied 	Correct parameters before subsequent run.	N/A
Terminated (16)	The job was terminated manually by the user.	The reason for the termination needs to be addressed.	If another instance of the chain has already been scheduled and run successfully, then this job should not be restarted.
System Failure (20)	The job was terminated because of database server or network issues.	The reason for the System Failure needs to be investigated.	If another instance of the chain has already been scheduled and run successfully, then this job should not be restarted.

File Creation

Possible Return Codes	Condition	Recommendation	Other Instructions
Successful (1)	At least one record was found and successfully written to the output file.	N/A	N/A
Warning (4)	The job ended with Warning because no records were found that matched selection criteria. Sample Message: Total # Processed 0 :Failed 0 :Succeeded 0	Review data on INTA against selection criteria used. If there was data that should have been exported, adjust selection criteria in a subsequent run.	Alternatively, the job can be rescheduled with a different set of parameters.
Non-Fatal Error (8)	N/A	N/A	N/A
Failed (12)	Job failed due to Fatal conditions.	In this step, the job can fail under the following condition: <ul style="list-style-type: none"> Encounters any runtime exceptions. If the job fails because of	If another instance of the job has already been scheduled and run successfully, then This job should not be restarted – only a new job should be

Possible Return Codes	Condition	Recommendation	Other Instructions
		the runtime exceptions, investigate the exception reported by the process, resolve the error, and restart the job.	scheduled.
Terminated (16)	Job is terminated manually by the user.	The reason for the termination needs to be investigated. The job can either be restarted or schedule a new job.	If another instance of the job has already been scheduled and run successfully, then this job should not be restarted – only a new job should be scheduled.
System Failure (20)	When the job is terminated because of database server or network issues.	The reason for the System Failure needs to be investigated. The job can either be restarted or schedule a new job.	If another instance of the job has already been scheduled and run successfully, then this job should not be restarted – only a new job should be scheduled.

2.1.16 Intercept Notice (Notice of Intent to Intercept)

Description

The purpose of the Intercept Notice batch job is to print the Notice of Intent to Intercept Letter for internal and external debtors. This process should be run after the Intercept Selection and the Load External Debts into INTR jobs have been run. This process will read the INTR table and a Notice of Intent to Intercept letter will be generated for a debtor if **all** the following conditions are true:

- Print Letter Status on INTR is set to “Ready for Print” or “Ready for Reprint”.
- Scheduled Print Date on INTR is less than or equal to Application Control Date.
- Claim Status on INTR is “Active”.

The letter should include and print the following information:

- The text of the letter will be inferred from the Notice of Intent Text table based on the Entity Code and Debt Type being processed from the INTR table. It is assumed that this letter text includes the return Contact Address information.
- Debtor’s address information will be inferred from the INTR table based on the Entity Code and Debt Type being processed.
- The Date of the letter should be set to the Application Control Date.

When to Run

This process can be run weekly, monthly, yearly or it can be run on demand. It should be run after Intercept Selection and Load External Debts into INTR jobs and before the Export INTR records to Intercept Externally job.

Major Input

- Intercept Request (R_AP_INCT_RQST)
- Intercept Options (R_INT_OPT)
- Notice of Intent Text (R_NT_INT_TXT)
- Billing Profile (R_BPRO)
- Entity (R_ENTY)
- Debt Type (R_DEBT_TYP)

Output

- Records will be inserted into the Notice of Intent Print History (R_NT_INT_PRN_HST) table.
- The Last Printed Date (LAST_PRN_DT) field will be updated to the Application Control Date on the Intercept Request (R_AP_INCT_RQST) table.
- The Print Letter Status (NOTICE_PRN_STA) field will be updated to either “3” (Printed) or “4” (Reprinted) on the Intercept Request (R_AP_INCT_RQST) table.
- Data file (XXX.dat) will be created and sent to Jetforms server to print letters of notification.
- An Exception Report will be generated.

Parameters

Job	Parameter	Description	Default Value
Intercept Selection	Export Location (AMSEXPORT)	Required Field. Location of the .dat file generated by the job.	\$\$AMSR00T\$\$/ExportImport
	Application Resource Identifier (APPL_RSRC_ID)	Required Field.	INC_LTR
	Debt Type Code (DEBT_TYP_CD)	Optional field. Used for criteria to select a subset of records on R_AP_INCT_RQST	No Default
	Entity Code (ENTY_CD)	Optional field. Used for criteria to select a subset of records on R_AP_INCT_RQST	No Default
	Print Job Code (PRINT_JOB_NAME)	Required Field.	INC_LTR_FORM
	Print Resource Identifier (PRINT_RSRC)	Required field. The printer to be used to produce the paper statement.	
	Report ID (REPORT_ID)	Optional field. This is a user entered field that populates the Report ID on the Exception Report.	No Default
	View Forms (VIEW_FORMS)	Optional field. Enter Y to send forms output to job status inquiries (must use a PDF print resource). Enter N to send forms output directly to print resource destination.	Y

Selection Criteria

Records will be selected from Intercept Request (R_AP_INCT_RQST) table based on the following criteria:

- Corresponding record exists on R_NT_INT_TXT (NOIT) - joined by ENTY_CD and DEBT_TYP_CD
- Print Letter Status (NOTICE_PRN_STA) is Ready for Print or Ready for Reprint (“1” or “2”)
- Claim Status (CLM_STA) is Active (“1”)
- Scheduled Print Date (NOTICE_SCH_PRN_DT) is before the Application Control Date.
- Entity Code (ENTY_CD) and Debt Type Code (DEBT_TYP_CD) match the optional parameters specified by the user.

Problem Resolution

The batch job is not restartable.

2.1.17 Intercept Refund Process

Chain Name	Intercept Refund Process
Recommended Frequency	Daily as part of the nightly cycle or on demand
Single Instance Required	Yes
Can be restarted?	Yes, see the individual jobs for more details.
Reports generated	Yes, some of the jobs in the chain generate the exception report. Please refer to the individual jobs for more details.

Overview

The Intercept Refund Process Chain job is a group of jobs that work together to create and submit a GAX transaction to refund the intercepted amount to the vendor/customer. This process selects the Refund Requested records from the Request Intercept Refund (RFDRQST) page where the Protest Outcome Status is *Refund Requested*. The Intercept Refund Process has the following jobs:

1. [Record Selection](#)
2. [Payment Upload](#)
3. [Payment Submit](#)
4. [Intercept Refund Transaction Exception](#)

Note: Even though the above jobs in the chain can be run individually by disabling other jobs, it is recommended to always run the entire chain.

Major Input

- Request Intercept Refund (RFDRQST / R_AP_RFD_RQST)

Major Output

- Request Intercept Refund (RFDRQST / R_AP_RFD_RQST)
- Refund Transactions (ABS/GAX or any other Transaction Code)
- Intercept Refund Exception Report

Chain Return Code

The following table shows the Potential Return codes for the Intercept Refund Process. Note that the Chain job will end with the highest Return Code across all of the jobs.

Return Code	Condition
Successful (1)	All of the jobs end successfully.
Warning (4)	One of the jobs in the chain ends with a Return Code of <i>Warning</i> .
Non-Fatal Error (8)	One of the jobs in the chain ends with a Return Code of <i>Non-Fatal Error</i> .
Failed (12)	One of the jobs in the chain ends with a Return Code of <i>Failed</i> .

Terminated (16)	One of the jobs in the chain ends with a Return Code of <i>Terminated</i> .
System Failure (20)	One of the jobs in the chain ends with a Return Code of <i>System Failure</i> .

Intercept Refund Process: Record Selection

Job Name	Record Selection
Recommended Frequency	See Intercept Refund Process
Single Instance Required	Yes
Can be restarted?	No
Reports Generated	No

Overview

The Record Selection job selects the records from the Request Intercept Refund (RFDRQST) page where the Protest Outcome is *Refund Requested*.

After successful parameter validation, the process generates the transaction XML file. The process also updates the selected Request Intercept Refund (RFDRQST) records, setting the Protest Outcome to *Refund Created* and Protest Resolution Date to the current Application System Date.

The following table shows the various steps that the Record Selection process goes through and the messages issued at each step.

Process Steps	Messages
1. Parameter Validation	<ul style="list-style-type: none"> Validating Batch Parameters Parameters are valid or invalid depending on the validation. If the parameter is invalid, the invalid value is displayed in the log. Batch parameter validation completed.
2. Selection of Records	<ul style="list-style-type: none"> Selecting eligible records. If the selection returns 0 records, then the following message is issued: "No eligible records found". Number of records (count) selected is displayed.
3. XML Creation	<ul style="list-style-type: none"> Generating the Intercept Refund Transaction file. Intercept Refund Transaction XML file generated. Number of transactions inserted in Intercept Refund Transaction XML file is provided. Submit parameter file created.

Restartability Information

The job cannot be restarted. If the job fails in any of the above steps, a new job should be scheduled after correcting the errors that caused the job to fail.

Major Input

Tables

- Request Intercept Refund (RFDRQST / R_AP_RFD_RQST)
- Accounting Template (ACTPL)

Batch Parameters

Parameter	Description	Default Value
Export Location (AMSEXPORT)	The required location where the XML file is saved.	\$\$AMSROOT\$\$/ ExportImport
Parameter Location (AMSPARM)	The required location where the process writes the parameter file for the later job steps.	\$\$AMSROOT\$\$/ Parms
Transaction Code (DOC_CD)	The required output parameter of the transaction code created for refunds. It must be in the Accounting Based Spending transaction type and GAX sub-type.	GAX
Transaction Department Code (DOC_DEPT_CD)	The required output parameter of a department for transaction numbering security purposes.	No Default
Transaction Unit Code (DOC_UNIT_CD)	An optional output parameter of a unit for security purposes.	No Default
Transaction ID Prefix (PFX)	An optional output parameter of a prefix for transaction numbering.	No Default
Event Type ID for Refund Transactions (EVNT_TYP_ID)	The required output parameter of an event type that determines the accounting model of a refund. Ensure that the COA on the accounting template parameter work with the selected event type, knowing that balance sheets will default as setup for the posting codes involved.	No Default
Accounting Template (ACTG_TEMP_ID)	An optional output of an accounting template providing COA for the refund when the COA from the disbursement transaction that took the intercept is not desired.	No Default
Accounting Template ID for Intercept Fee (INCT_FEE_ACTG_TE	An optional output parameter of an accounting template providing COA for the fee accounting line. If left blank	No Default

Parameter	Description	Default Value
MP_ID)	COA will infer from the disbursement transaction.	
Line Description for Intercept Fee (INCT_FEE_LN_DES)	An optional output parameter to populate the line description for Intercept Fee accounting line.	Intercept Fee
Debt Type/s (multiple values comma separated) (DEPT_TYPS)	An optional selection parameter for Request Intercept Refund records instead of processing all eligible records Multiple values are allowed when comma-separated.	No Default
Transaction Exception File Name (EXCEP_FILE_NM)	A required output parameter Indicating the file name for exception reporting.	\$\$AMSLOGS\$\$/InterceptRefundTransErrors.txt
Deactivate Intercept Request (INCT_RQST_DEACTV_FL)	An optional parameter to control the deactivation of Intercept Request (INTR) records when the Refund Type is Entire Claim, Refund Only or Specific Offset.	No Default

Major Output

- InterceptRefundTrans.xml file
- SMU job parameter file
- Updates to Request Intercept Refund (RFDRQST / R_AP_RFD_RQST)

Job Return code

The following table shows the potential job return codes for the Record Selection job.

Return Code	Condition
Successful (1)	All of the selected ABS Transactions are processed successfully.
Warning (4)	No eligible records found. This could be because of the following reason: <ul style="list-style-type: none"> • No record exists on RFDRQST with protest outcome equal to <i>Refund Requested</i>.
Non-Fatal Error (8)	This step does not issue this return code.
Failed (12)	The job will fail under the following conditions: <ul style="list-style-type: none"> • Parameters are invalid • Run time exceptions for unexpected situations. When this job ends with a Return Code of <i>Failed</i> , the subsequent jobs in the chain are set to <i>Inactive</i> .
Terminated (16)	This Return Code is issued when the job is terminated by the user. When this job ends with a Return Code of <i>Terminated</i> ,

Return Code	Condition
	the subsequent jobs in the chain are set to <i>Inactive</i> .
System Failure (20)	This Return Code is issued when the job is terminated because of database server or network issues. When this job ends with a Return Code of <i>System Failure</i> , the subsequent jobs in the chain are set to <i>Inactive</i> .

Sort Sequence

The Refund Intercept Request lines are sorted by the following fields to create the InterceptRefundTrans.xml file.

- Intercept ID
- Vendor/Customer code

Selection Criteria

The Record Selection process selects the records from RFDRQST based on the following selection criteria:

- Protest Outcome = Refund Requested

Problem Resolution

The job cannot be restarted. If the job fails in any of the above steps, a new job should be scheduled after correcting the errors that caused the job to fail.

The following table shows the possible return codes and recommendations for each processing step.

Step 1: Parameter Validation

Possible Return Codes	Condition	Recommendation	Other Instructions
Successful (1)	Successful	N/A	N/A
Warning (4)	N/A	This step does not issue this return code.	N/A
Non-Fatal Error (8)	N/A	This step does not issue this return code.	N/A
Failed (12)	Required Parameters are not entered Sample Message: <ul style="list-style-type: none"> • Transaction code required • Department code is required 	The job can be rescheduled after correcting the parameters.	N/A

Possible Return Codes	Condition	Recommendation	Other Instructions
	<ul style="list-style-type: none"> Event type is required 		
	Entered Parameters are not valid Sample Message: <ul style="list-style-type: none"> Transaction code is invalid. Department code is invalid. Event type is invalid Unit code is invalid 	The job can be rescheduled after correcting the parameters.	N/A
	SOPT record not found. Sample Message: SOPT record not found for the fiscal year yyyy	Make sure that the SOPT record exists for the Fiscal Year (FY) associated.	N/A
	Failed because of runtime exceptions for an unexpected situation.	The reason for the failure needs to be investigated before rescheduling the job.	N/A
Terminated (16)	Job is terminated manually by the user.	The reason for the termination needs to be investigated. The job can be rescheduled.	N/A
System Failure (20)	When the job is terminated because of database server or network issues.	The reason for the System Failure needs to be investigated. The job can be rescheduled.	N/A

Step 2: Selection of Records

Possible Return Codes	Condition	Recommendation	Other Instructions
Successful (1)	Successful	N/A	N/A
Warning (4)	Job ended with a Warning because there is no eligible record found on Request Intercept Refund. Sample Message: No Records available for Intercept Refund Processing.	Possibly nothing to do as there were none approved for refund.	N/A

Possible Return Codes	Condition	Recommendation	Other Instructions
Non-Fatal Error (8)	N/A	This step does not issue this return code.	N/A
Failed (12)	Failed because of runtime exceptions for an unexpected situation.	The reason for the failure needs to be investigated before rescheduling the job.	N/A
Terminated (16)	Job is terminated manually by the user.	The reason for the termination needs to be investigated. The job can be rescheduled.	N/A
System Failure (20)	When the job is terminated because of database server or network issues.	The reason for the System Failure needs to be investigated. The job can be rescheduled.	N/A

Step 3: XML Creation

Possible Return Codes	Condition	Recommendation	Other Instructions
Successful (1)	Successful	N/A	N/A
Warning (4)	N/A	This step does not issue this return code.	N/A
Non-Fatal Error (8)	N/A	This step does not issue this return code.	N/A
Failed (12)	Job failed due to Fatal conditions.	At this step, the job can fail under the following two conditions. <ul style="list-style-type: none"> Encounters any runtime exceptions If the job fails because of the runtime exceptions, investigate and then schedule a new job.	N/A
Terminated (16)	Job is terminated manually by the user.	The reason for the termination needs to be investigated. The job can be rescheduled.	N/A
System Failure (20)	When the job is terminated because of database server or	The reason for the System Failure needs to be investigated. The job can be rescheduled.	N/A

Possible Return Codes	Condition	Recommendation	Other Instructions
	network issues.		

Intercept Refund Process: Payment Upload

Job Name	Payment Upload
Recommended Frequency	See Intercept Refund Process
Single Instance Required	Yes
Can be restarted?	Yes
Reports Generated	No

Overview

The Payment Upload job loads the records from the InterceptRefundTrans.xml file generated by the Record Selection job to the Transaction Catalog with the System Maintenance Utility. This process first validates the batch parameters. If the parameters are valid, then it loads the records into the Transaction Catalog.

Major Input

- InterceptRefundTrans.xml file

Batch Parameters

Parameter	Description	Default Value
Action Code (ACTN_CD)	Required field. Indicates the code representing the import transaction action.	171
Bypass Auto Transaction Numbering (BYPS_ADNT_FL)	Required field. An input parameter to the import process to bypass automatic transaction numbering because transaction IDs have already been defined in the XML.	True
Commit Block Size (COMMIT_BLOCK)	A performance parameter that control the number of transactions loaded in an instance.	10
Transaction Status Code (DOC_STA_CD)	Required field. indicates the input parameter of the process to state the transaction status of the loaded transactions	2

Parameter	Description	Default Value
File Name to Be Imported (FILE_NM)	Required field. Indicate the XML file name and location for importing.	\$\$MSIMPORT\$\$/ InterceptRefundT rans.xml

Major Output

- Refund transactions in draft version

Batch Return Codes

The following table shows the potential job Return Codes for the Payment Upload job.

Return Code	Condition
Successful (1)	All of the records are loaded into the Transaction Catalog successfully or the input file is empty.
Warning (4)	This Return Code is issued when some of the records failed to load whereas all other records were loaded successfully.
Non-Fatal Error (8)	None of the records get loaded into the Transaction Catalog.
Failed (12)	The job will fail under the following conditions: <ul style="list-style-type: none"> • Parameters are invalid When the input file is not found in the specified directory <ul style="list-style-type: none"> • Runtime exceptions encountered for any unexpected situations When the job ends with a Return Code of <i>Failed</i> , the subsequent jobs in the chain are set to <i>Inactive</i> .
Terminated (16)	This Return Code is issued when the job is terminated by the user. When the job ends with a Return Code of <i>Terminated</i> , the subsequent jobs in the chain are set to <i>Inactive</i> .
System Failure (20)	This Return Code is issued when the job is terminated because of database server or network issues. When this job ends with a Return Code of <i>System Failure</i> , the subsequent jobs in the chain are set to <i>Inactive</i> .

Sort Sequence

N/A

Selection Criteria

N/A

Problem Resolution

This job cannot be restarted. If the job fails, a new job should be scheduled after correcting the errors that caused the job to fail.

The following table shows the possible return codes and recommendations for each processing step specific to the job in the chain. For general errors and recommendations, refer to the “SMU Transaction Upload Job” run sheet in the *CGI Advantage Financial – Utilities Run Sheets guide*.

Possible Return Codes	Condition	Recommendation	Other Instructions
Failed (12)	Failed due to Runtime exceptions encountered for any unexpected situations.	Investigate and Schedule a new job.	N/A

Intercept Refund Process: Payment Submit

Job Name	Payment Submit
Recommended Frequency	See Intercept Refund Process
Single Instance Required	Yes
Can be restarted?	Yes
Reports Generated	No

Overview

The Payment Submit job uses the System Maintenance Utility to submit the transactions previously imported. When a transaction is rejected in the submission process, it is logged in an Exception file for later reporting.

Major Input

- Parameter file
- Refund transactions in draft

Batch Parameters

Parameter	Description	Default Value
Exception File Name (EXCEP_FILE_NM)	Required field. Indicates the file name and location of the exception file built with transaction errors for the next job step.	\$\$AMSLOGS\$\$/Intercept RefundTransErrors.txt
Parameter File (PARAM_FILE)	Required field. Indicates the file name and location of the parameter file generated earlier for submitting transactions.	\$\$AMSPARM\$\$/SubmitABSTransParam.txt

Note: This job uses only a subset of the SMU submit job parameters. For a full list of available parameters for the SMU submit job, refer to the “SMU Transaction Submit Job” run sheet in the *CGI Advantage Financial – Utilities Run Sheets guide*.

Major Output

- Submitted refund transactions
- InterceptRefundTransErrors.txt

Job Return code

The following table shows the potential job return codes for the Payment Submit.

Return Code	Condition
Successful (1)	All of the transactions generated in that run submitted successfully.
Warning (4)	Not Applicable for this job.
Non-Fatal Error (8)	Not Applicable for this job.
Failed (12)	The job will fail under the following conditions: <ul style="list-style-type: none"> • Input parameter file is not found. • Runtime exceptions encountered for any unexpected situations. When the job ends with a Return Code of <i>Failed</i> , the subsequent jobs in the chain are set to <i>inactive</i> .
Terminated (16)	This Return Code is issued when the job is terminated by the user. When the job ends with a Return Code of <i>Terminated</i> , the subsequent jobs in the chain are set to <i>Inactive</i> .
System Failure (20)	This Return Code is issued when the job is terminated because of database server or network issues. When this job ends with a Return Code of <i>System Failure</i> , the subsequent jobs in the chain are set to <i>Inactive</i> .

Sort Sequence

N/A

Selection Criteria

N/A

Problem Resolution

The job cannot be restarted. If the job fails in any of the above steps, a new job should be scheduled after correcting the errors that caused the job to fail. If the job, ends with a Return Code of *Failed*, *Terminated* or *System Failure* and another instance of the job has already been scheduled and run successfully, then this job should not be restarted – it should only be rescheduled.

The following table shows the possible Return Codes and recommendations for each processing step specific to the job in the chain. For general errors and recommendations, refer to the “SMU Transaction Submit Job” run sheet in the *CGI Advantage Financial – Utilities Run Sheets guide*.

Possible Return Codes	Condition	Recommendation	Other Instructions
Failed (12)	Failed in parameter validation for a Transaction code Sample Message: <ul style="list-style-type: none"> Parameter file not found. 	Provide a valid Transaction code and schedule a new job.	

Intercept Refund Process: Intercept Refund Transaction Exception

Job Name	Intercept Refund Transaction Exception
Recommended Frequency	See Intercept Refund Process
Single Instance Required	Yes
Can be restarted?	No
Reports Generated	Intercept Refund Exception Report

Overview

This job in the Intercept Refund chain generates an exception report that lists all of the errors encountered when the GAX transaction was submitted in the earlier step. The report contains the following information:

- GAX transaction details
- Detailed error description along with the error code.

The following table shows the progression messages issued in this job

Process Steps	Messages
Creating exception report	<ul style="list-style-type: none"> • Validating Batch Parameters • Parameter Validation completed • Selecting the records for reporting • Total Number of records selected to write Exception report: ‘n’ • Number of transactions processed for report: ‘n’ where n being the progression counter size. • Writing records to the report • Number of records inserted in report: ‘n’ where n being the progression counter size • Processing completed

Major Input

- InterceptRefundTransErrors.txt

Batch Parameters

Parameter	Description	Default Value
Exception File Name (AMSLOGS)	Required field, Indicates the location containing the Exception file built in the previous job step.	\$\$\$\$AMSROOT\$\$/Logs
Client Name for Report (CLIENT_NAME)	Optional field. Indicates the name for the header of the Exception report.	No default
Exception File Name (EXCEP_FILE_NM)	Required field. Indicates the file name and location of the Exception file built with transaction errors from the previous job step.	\$\$AMSLOGS\$\$/Intercept RefundTransErrors.txt
Exception Severity (EXP_SEV_FL)	Required field. A required parameter for report generation. Value should always be 1.	1
Report ID (REPORT_ID)	Optional field. An output parameter of a report ID in the report header for distribution purposes.	No default

Output

- Intercept Refund Exception Report

Job Return code

The following table shows the potential job Return Codes for the individual Intercept Refund Transaction Exception job in the Intercept Refund Process.

Return Code	Condition
Successful (1)	No transactions rejected.
Warning (4)	Not applicable for this job.
Non-Fatal Error (8)	At least one refund transaction failed because of errors listed in the exception report.
Failed (12)	<ul style="list-style-type: none"> • Input file is blank. • Input parameter file is not found in the specified folder • Runtime exceptions encountered for any unexpected situations.
Terminated (16)	This Return Code is issued when the job is terminated by the user.

Return Code	Condition
System Failure (20)	This Return Code is issued when the job is terminated because of database server or network issues.

Sort Sequence

N/A

Selection Criteria

N/A

Problem Resolution

The job cannot be restarted. If the job, ends with a return code of *Failed*, *Terminated* or *System Failure* and another instance of the job has already been scheduled and run successfully, then this job should not be restarted – it should only be rescheduled.

The following table shows the possible Return Codes and recommendations for each processing step specific to the job in the chain.

Possible Return Codes	Condition	Recommendation	Other Instructions
Failed (12)	<p>Input file is not entered. Sample Message: Exception file is required.</p> <p>Input file is not found on the specified directory. Sample Message: The system cannot find the specified file.</p> <p>Failed because of runtime exceptions for an unexpected situation</p>	<p>Specify the Input file name and schedule a new job.</p> <p>Make sure that the specified file exists in the directory and restart the job. Alternatively, a new job can be scheduled.</p> <p>If the job fails with fatal conditions on encountering unknown exceptions, then investigate the exception reported by the process, resolve the error and schedule a new job.</p>	N/A
Terminated (16)	Job is terminated manually by the user.	The reason for the termination needs to be investigated. The job can be rescheduled.	N/A
System Failure (20)	When the job is terminated because of database server or network issues.	The reason for the System Failure needs to be investigated. The job can be rescheduled.	N/A

2.1.18 Intercept Selection

Description

The purpose of the Intercept Selection process is to provide users with another way to collect past due receivables. If the customer is also a vendor, receivables can be collected by intercepting payment to the vendor / customer.

The Intercept Selection process selects eligible receivables and receivable accounting lines and uploads them to the Intercept Request Table, with a user-defined status (Active or Inactive). The automated disbursement process then reads the Intercept Request table and tries to intercept payments for eligible vendors.

When to Run

This process can be run weekly, monthly, yearly or it can be run on demand.

Major Input

- Receivable Header (RE_DOC_HDR)
- Receivable Vendor Line (RE_DOC_VEND)
- Receivable Account Line (RE_DOC_ACTG)
- System Options (R_RV_SOPT)
- Billing Profile (R_BPRO)
- Event Type (R_EVNT_TYP)
- Revenue Source (R_RSRC)
- Object (R_OBJ)
- Intercept Options (R_INT_OPT)

Output

- Records will be inserted into the Intercept Request Table (R_AP_INCT_RQST).
- Intercept Requested field on the Customer Account Table will be updated (R_CUST_ACCT).
- Corresponding Receivable will be updated with status of Intercept Requested (RE_DOC_VEND, RE_DOC_ACTG)

Parameters

Job	Parameter	Description	Default Value
Intercept Selection	Billing Profile Code (BPRO_CD)	Optional field. Entry of a value in this field controls which Billing Profile is selected by the batch process. If the field is left blank, all Billing Profiles are eligible for selection.	No Default
	Client Name for Report (CLIENT_NM)	Optional field. Entry of a value in this field specifies the name that will appear on report.	No Default
	AR Department Code (DEPT_CD)	Optional field. Used in decentralized AR processing.	No Default
	AR Unit Code (UNIT_CD)	Optional field. Used in decentralized AR processing.	No Default
	COMMIT_SIZE	Added COMMIT_SIZE parameter to Intercept Selection.	No Default

Selection Criteria

Records will be selected based on the following:

- No of days Past due specified in the SOPT / BPRO table, and
- The Event Type is selected as eligible for intercept, and
- The Revenue Source or Object are selected as eligible for intercept, and
- The Customer entered on the Receivable Vendor line must not be a Miscellaneous customer and must have a Tax Payer Identification Number (TIN) and TIN Type specified on the Vendor Customer Table.
- Dispute status is not equal to “Disputed” or “Disputed – No Auto Cash Application” on Receivable Header, and
- The Intercept Requested Flag in the Receivable Accounting Line is not set to no (the line has not yet been picked up for intercept). The Dispute Status is not equal to “Disputed” or “Disputed No Auto Cash Application” on Receivable Accounting Line.

Problem Resolution

No database restore is required. Correct the problem and return to the job-executing program.
No restoration of databases or files from the backups is required for this program.

2.1.19 Issue Payment for Intercepted External Debts

Description

As part of the External Debt portion of the Intercept Process, CGI Advantage Financial:

- Intercepts debts that originated outside of Advantage
- Records debts that originated outside of Advantage that were intercepted in an External Payment system

Once a debt is intercepted, the intercepted funds must be transferred to the external entity that is owed the intercepted funds. The intercepted funds can be transferred to the external entity either through the Disbursement Process (a check or EFT payment) or by passing necessary accounting entries to record the funds transfer (IT). The Intercept External Allocation table settings will govern the method of transferring the intercepted funds to the external entity. If the external entity would like to receive the intercepted funds via a check or EFT payment for a specific Debt Type, then the Issue Payment flag on the Intercept External Allocation table for that Entity and Debt Type will be set to True. When the Issue Payment flag is set to True, the AD and IT transactions will insert a record on the Pending Intercept Payment table for any intercepts involving the specific Entity and Debt Type. The Issue Payment for Intercepted External Debts batch job reads this table and creates GAIP transactions which will result in either a check or EFT payment to the specified external entity. If the No Payment Consolidation flag on the Intercept External Allocation table is set to True then the process will create a GAIP transaction for every payment record with matching Entity and Debt Type on the Pending Intercept Payment table.

When to Run

Daily

Major Input

- Intercept Payment Table (R_INT_PYMT)
- Auto Transaction Number Table (ADNT)

Output

- Transactions selected for intercept process for the given Entity are generated as a report
- General Accounting Intercept payment (GAIP) transactions in submitted phase

Parameters

Job	Parameter	Description	Default Value
Intercept Payment Transaction XML Creation	Export Location (AMSEXPORT) (* Refer to Note: Assumptions for SWBP on page no. 5)	Required. Export Location at Generate Intercept Payment Transactions Job	\$\$AMSROOT\$\$/ExportImport

Job	Parameter	Description	Default Value
	Parameter Location (AMSPARM) (** Refer to Note: Assumptions for SWBP on page no. 5)	Required. Parameter Location at Generate Intercept Payment Transactions Job	\$\$AMSROOT\$\$/P arms
	Check Description (CHK_DSCR)	Required. Check Description for Payment Transactions	
	Client name (CLIENT_NM)	Optional. Name of the Client for generated Intercept Payment Transactions	
	Transaction Code (DOC_CD)	Required. Transaction Code for generated Intercept Payment Transactions	
	Transaction Department Code (DOC_DEPT_CD)	Required. Transaction Department Code for generated Intercept Payment Transactions	
	Transaction Prefix (DOC_PFX)	Required. Transaction Prefix for generated Intercept Payment Transactions	
	Transaction Status Code (DOC_STA_CD)	Required. Transaction Status for generated Intercept Payment Transactions (1 - Held, 2 - Ready)	
	Transaction Unit Code (DOC_UNIT_CD)	Optional. Transaction Unit Code Intercept Payment Transactions	.
	Event Type ID (EVNT_TYP_ID)	Required. Event Type ID for Payment Transactions	

Job	Parameter	Description	Default Value
	EXP_FILE_NM	Required (and protected) Transaction XML file for the GAIP Transaction (.xml)	InctPymtDoc.xml
	Load Parameter File (LOAD_FILE_NM)	Required (and protected) Load Parameter File(.txt)	InctPymtLoadParams.txt
	Schedule Payment Date (SCHED_PYMT_DT)	Required. Schedule Payment Date(mm/dd/yyyy)	
	Submit Parameter File (SUBMIT_FILE_NM)	Required (and protected) Submit Parameter File(.txt)	InctPymtSubmitParams.txt
Load Intercept Payment Transactions	Parameter File (PARAM_FILE)	Required (and protected) Parameter File(.txt) containing Load Parameters	\$\$AMSPARM\$\$/InctPymtLoadParams.txt
Submit Intercept Payment Transactions	Parameter File (PARAM_FILE)	Required (and protected) field that will be used to define the parameters for submitting the transactions.	\$\$AMSPARM\$\$/InctPymtSubmitParams.txt

Sort Sequence

- Entity (ENTY_CD)
- Debt Type (DEBT_TYP_CD)
- Intercept ID (INT_ID)
- Intercept Date (INT_DT)

Selection Criteria

Select the transaction where

Transaction Generated (DOC_GEN_FL) == False on Intercept Payment Table.

Problem Resolution

No database restore is required.

This batch program produces new CGI Advantage transactions, which are subject to the line limit functionality constraints. Sites should ensure that they run this job with parameters set to ensure that the created transactions are within the line limit controls.

2.1.20 Load External Debts into INTR

Chain Name	Load External Debts into Intercept Request (INTR)
Recommended Frequency	On demand as frequently as needed
Single Instance Required	Multiple instances are allowed provided records in the input XML files are for different entities in different files.
Can be restarted?	No
Reports generated	No

Overview

The Load External Debts into INTR chain inserts debt records into Intercept Request (INTR) from external entities (debt not represented by a Receivable in Advantage) so that the debt may be intercepted on their behalf. The debt records can be intercepted internally, that is, during the Automated Disbursement process or externally by exporting the debt records to external entities. The chain also removes records from INTR as well as reports on the process.

The Load External Debts into INTR chain consists of the following individual jobs:

1. [Debt Records in Process Report](#)
2. [Load INTR Records](#)
3. [Debt Records Failed to Load Report](#)

Major Inputs

- INTR.xml file
- Intercept Request (INTR / R_AP_INCT_RQST)

Major Outputs

- Intercept Request (INTR / R_AP_INCT_RQST)
- External Debt Report
- External Debt Failed Report

Chain Job Return Codes

The following table shows the potential return codes for the Load External Debts into INTR chain. Note that the Chain ends with the highest return code across all of the individual jobs.

Return Code	Condition
Successful (1)	All of the jobs end successfully.
Warning (4)	One of the jobs in the chain ends with a return code of "Warning".
Non Fatal Error (8)	One of the jobs in the chain ends with a return code of "Non Fatal Error".
Failed (12)	One of the jobs in the chain ends with a return code of "Failed".

Terminated (16)	One of the jobs in the chain ends with a return code of "Terminated".
System Failure (20)	One of the jobs in the chain ends with a return code of "System Failure".

Problem Resolution

Please refer to the individual job "Problem Resolution" section for more details.

Load External Debts into INTR Chain: Debt Records in Process Report

Job Name	Debt Records in Process Report
Recommended Frequency	On Demand
Single Instance Required	No
Can be restarted?	No
Reports Generated	Yes. External Debt Report for In Progress debt records.

Overview

The Debt Records in Process Report job selects the records from Intercept Request (INTR) for deletion before loading new records.

This job does the following steps:

- Parameter validation
- Reads the XML file for the Debt Type and Entity combination and then selects any Intercept Request (INTR) records for records of the same Debt Type/Entity.
- Deletes the matching INTR records
- Writes to the External Debt Report all records where the Intercepted Amount is not equal to zero.

The following table shows the various steps that the External Debt Report Job goes through and the messages issued at each step.

Process Steps	Messages
1. Parameter Validation	Run Started <ul style="list-style-type: none"> • Parameters listed with supplied values • Any parameters missing or invalid are listed with a brief error message Run Ended
2. Selection & Deletion of Records	No messages for this step
3. Report Generation	Reports output folder mapped HTML report path listed PDF report path listed

Process Steps	Messages
	Rendering report started Rendering report completed

Restartability Information

This job cannot be restarted.

Major Input

- INTR.xml file
- Intercept Request (INTR / R_AP_INCT_RQST)

Batch Parameters

Parameter	Description	Default Value
Action Code (ACTN_CD)	A required parameter to control which report is generated and what tasks the job performs. It should always be 1 for this job step. 1 - INTR Exception Records report and INTR deletion 2 - Import Failed INTR Records	1
XML File Location (AMSIMPORT)	The required directory where the input XML file is located.	\$\$AMSROOT\$\$/ExportImport
Commit Block Size (COMMIT_BLK_SIZE)	A required commit block size used to control record selection for processing.	100
XML File Name (FILE_NM)	The required file name of the XML debt file for INTR record deletion.	INTR.xml
Program ID (PROGRAM_ID)	Optional field. Entry of a value in this field specifies the ID that will appear on the report.	(none)
Purge All (IGNORE_INTR_AMT_PURGE)	A required parameter that will direct the job to purge only matching records on Entity and Debt Type when the Intercepted Amount is \$0 (<i>false</i>) or without considering the Intercepted Amount (<i>true</i>). If left blank, <i>false</i> defaults.	false

Major Output

- External Debt Report
- Intercept Request (INTR / R_AP_INCT_RQST)

Job Return Code

The following table shows the potential job return codes for the Debt Records in Process Report job.

Return Code	Condition
Successful (1)	External Debt Report generated successfully.
Warning (4)	N/A
Non Fatal Error (8)	N/A
Failed (12)	<p>The job fails under the following conditions:</p> <ul style="list-style-type: none"> • Parameters are invalid • Run time exceptions for unexpected situations • Technical/System failure <p>When this job ends with a return code of Failed, subsequent jobs in the chain are set to inactive.</p>
Terminated (16)	<p>This return code is issued when the job is terminated by the user. When this job ends with a return code of Terminated, subsequent jobs in the chain are set to inactive.</p>
System Failure (20)	<p>This return code will be issued when the job is terminated because of database server or network issues. When this job ends with a return code of System Failure, subsequent jobs in the chain will be set to inactive.</p>

Sort Sequence

None.

Selection Criteria

The job selects the records lines from Intercept Request based on the following selection criteria:

- Select all records from INTR table for the same Debt Type/Entity as the Debt Type/Entity values on the XML debt file, the same TIN Type, and the Transaction Type is not RE.
- Additional selection is based on the Purge Type parameter chosen where *false* means only those not intercepted (Intercepted Amount = \$0) and *true* results in no further selection logic besides those in the above bullet point.

Problem Resolution

The following table shows the possible return codes and recommendations for each processing step.

Step 1: Parameter Validation

Possible Return Codes	Condition	Recommendation	Other Instructions
Successful	All of the table validations are successful, that is,	N/A	N/A

Possible Return Codes	Condition	Recommendation	Other Instructions
(1)	there are no errors raised during validations.		
Warning (4)	N/A	N/A	N/A
Non Fatal Error (8)	N/A	N/A	N/A
Failed (12)	All of the required parameters are not entered. Sample Message: Invalid debt file name provided Recommendation: Enter the debt file name.	If the required parameters are not entered, enter the required parameters and schedule a new job.	
	Entered Parameters are not valid Sample Message: The value entered in the AMSIMPORT parameter is not a valid directory. Recommendation: Enter a valid value for AMSIMPORT.	If the parameters are invalid, enter the valid parameter and Schedule a new job.	
	Failed because of runtime exceptions for an unexpected situation.	Failure reason needs to be investigated before scheduling a new job.	
Terminated (16)	Job is terminated manually by the user.	The reason for the termination needs to be investigated before scheduling a new job.	
System Failure (20)	When the job is terminated because of database server or network issues.	The reason for the System Failure needs to be investigated before scheduling a new job.	

Step 2: Selection of Records

Possible Return Codes	Condition	Recommendation	Other Instructions
Successful (1)	The External Debt Report is generated successfully.	N/A	N/A

Possible Return Codes	Condition	Recommendation	Other Instructions
Warning (4)	N/A	N/A	N/A
Non Fatal Error (8)	N/A	N/A	N/A
Failed (12)	Failed because of runtime exceptions for an unexpected situation.	Failure reason needs to be investigated before scheduling a new job.	N/A
Terminated (16)	Job is terminated manually by the user.	The reason for the termination needs to be investigated before scheduling a new job.	N/A
System Failure (20)	When the job is terminated because of database server or network issues.	The reason for the System Failure needs to be investigated before scheduling a new job.	N/A

Load External Debts into INTR Chain: Load INTR Records

Job Name	Load INTR Records
Recommended Frequency	On Demand
Single Instance Required	No
Can be restarted?	No
Reports Generated	No

Overview

The Load INTR Records job is a SysManUtil job, which will load all records to INTR from the XML debt file and execute a 'Save'. All records that could not be saved are written to an Error XML File with the error reason(s).

Restartability Information

This job cannot be restarted.

Major Input

- INTR.xml file

Batch Parameters

Parameter	Description	Default Value
SMU Action Code (ACTN_CD)	This required parameter instructs the job to do the Table Insert action.	201
Enable Detailed Reporting (DTL_IMP_MSG_FL)	The required parameter to instruct the job to collect details on any record that fails to add for exception reporting.	TRUE
INTR Import Error File Name (ERROR_FILE_NM)	The required file location and name for recording errors on any record that fails to load.	\$\$AMSLOGS\$\$/INTRImpErr.xml
XML File Name (FILE_NM)	The required file name and location of the XML debt file for INTR record insertion.	\$\$AMSIMPORT\$\$/INTR.xml

Major Output

- INTRImpErr.xml
- Intercept Request (INTR / R_AP_INCT_RQST)

Job Return Code

The following table shows the potential job return codes for the Load INTR Records job:

Return Code	Condition
Successful (1)	All records from the XML file are successfully loaded into INTR.
Warning (4)	This return code is issued when some of the records failed to load, but other records were loaded successfully.
Non Fatal Error (8)	None of the records were loaded.
Failed (12)	The job will fail under the following conditions: <ul style="list-style-type: none"> • Parameters are invalid • Issues in reading the input file • All records could not be loaded • Technical failure When this job ends with a return code of Failed, subsequent jobs in the chain continue.
Terminated (16)	This return code is issued when the job is terminated by the user. When this job ends with a return code of Terminated, subsequent jobs in the chain are set to inactive.
System Failure (20)	This return code is issued when the job is terminated because of database server or network issues. When this job ends with a return code of System Failure, subsequent jobs in the chain are set to inactive.

Sort Sequence

None.

Selection Criteria

None.

Problem Resolution

Possible Return Codes	Condition	Recommendation	Other Instructions
Successful (1)	All parameters are valid and all of the records are loaded successfully.	N/A	N/A
Warning (4)	This return code will be issued when the job fails to load some of the records.	Refer to the External Debt Failed Report generated in the next job to find out why the records could not be loaded.	Correct failed records in a new file and run the chain again for that file.
Non Fatal Error (8)	This return code will be issued when the job fails to load all of the records.	Refer to the External Debt Failed Report generated in the next job to find out why the records could not be loaded.	Likely have to correct each record in the file and run the chain again for that file.
Failed (12)	All of the required parameters are not entered. Sample Message: Invalid debt file name provided. Recommendation: Enter the debt file name.	If the required parameters are not entered, enter the required parameters and Schedule a new job.	
	Entered Parameters are not valid Sample Message: The value entered in the AMSIMPORT parameter is not a valid directory. Recommendation: Enter a valid value for AMSIMPORT.	If the parameters are invalid, enter the valid parameter and Schedule a new job.	

Possible Return Codes	Condition	Recommendation	Other Instructions
	Failed because of runtime exceptions for an unexpected situation.	Failure reason needs to be investigated before scheduling a new job.	
Terminated (16)	Job is terminated manually by the user.	The reason for the termination needs to be investigated. A new job can then be scheduled.	
System Failure (20)	When the job is terminated because of database server or network issues.	The reason for the System Failure needs to be investigated. A new job can then be scheduled.	

Load External Debts into INTR Chain: Debt Records Failed to Load Report

Job Name	Debt Records Failed to Load Report
Recommended Frequency	On Demand
Single Instance Required	No
Can be restarted?	No
Reports Generated	No

Overview

The Debt Records Failed to Load Report job is created using the error XML file created from the previous job as Input. This report displays records that could not be loaded because of table edits executed on save. The report will list all Exception records along with the reason of why it could not be saved.

Restartability Information

This job cannot be restarted.

Major Input

- INTRImpErr.xml file containing the Exception records

Parameter	Description	Default Value
Action Code (ACTN_CD)	A required parameter to control which report is generated and what tasks the job performs. It should always be 2 for this job step. 1 - INTR Exception Records report and	2

	INTR deletion. 2 - Import Failed INTR Records	
Logs Location at External Debt (AMSLOGS)	The required file location of where the error log file created in the previous job step was written.	\$\$AMSROOT\$\$/Logs
Commit Block Size (COMMIT_BLK_SIZE)	A required performance parameter that controls the writing of information to the report.	100
INTR Import Error File Name (FILE_NM)	The required file name of the error log file created in the previous job step.	INTRImpErr.xml
Program ID	Optional field. Entry of a value in this field specifies the ID that will appear on the report.	No Default
Purge All (IGNORE_INTR_AMT_PURGE)	A required parameter that is not used in this job step.	false

Major Output

The External Debt Failed Report that can be viewed in HTML and PDF format from Advantage Job Manager.

Job Return Code

The following table shows the potential job return codes for the Debt Records Failed to Load Report job.

Return Code	Condition
Successful (1)	External Debt Failed Report generated successfully.
Warning (4)	N/A
Non Fatal Error (8)	N/A
Failed (12)	The job will fail under the following conditions: <ul style="list-style-type: none"> Parameters are invalid Run time exceptions for unexpected situations Issues in reading the input file Technical/System failure
Terminated (16)	This return code will be issued when the job is terminated by the user.
System Failure (20)	This return code will be issued when the job is terminated because of database server or network issues.

Sort Sequence

None.

Selection Criteria

None.

Problem Resolution

Possible Return Codes	Condition	Recommendation	Other Instructions
Successful (1)	All of the parameter validations are successful and the Report created successfully.	N/A	N/A
Warning (4)	The job does not end with this return code	N/A	N/A
Non Fatal Error (8)	The job does not end with this return code	N/A	N/A
Failed (12)	All the required parameters are not entered. Sample Message: Invalid debt file name provided. Recommendation: Enter the debt file name.	If the required parameters are not entered, enter the required parameters and Schedule a new job.	
	Entered Parameters are not valid. Sample Message: The value entered in the AMSIMPORT parameter is not a valid directory. Recommendation: Enter a valid value for AMSIMPORT.	If the parameters are invalid, enter the valid parameter and schedule a new job.	
	Failed because of runtime exceptions for an unexpected situation.	Failure reason needs to be investigated before scheduling a new job.	
Terminated (16)	Job is terminated manually by the user.	The reason for the termination needs to be investigated before scheduling a new job.	

Possible Return Codes	Condition	Recommendation	Other Instructions
System Failure (20)	When the job is terminated because of database server or network issues.	The reason for the System Failure needs to be investigated before scheduling a new job.	

2.1.21 Record Externally Intercepted Debts

Description

The Record Externally Intercepted Debts batch process is used to generate IT transactions to record the Intercepts that occurred in an External Payment system and have been uploaded to the Externally Intercepted Debt table (EXINCTDB). The Record Externally Intercepted Debts process is a chain job that has the following batch jobs:

- IT Transaction XML Creation - This batch job creates the IT transaction XML file for the Debt records stored on the Externally Intercepted Debt Table. This process also generates a Process Report that lists the Transactions generated during that particular Run.
- Load IT Transactions - This batch job uses the XML file generated by the IT Transaction XML Creation process and loads the IT Transactions in CGI Advantage Application. This batch job uses the CGI Advantage SysManUtil feature to load the Transactions.
- Submit IT Transactions - This batch submits the IT transactions generated during that run.

When to Run

Daily

Major Input

- Externally Intercepted Debt (R_EXT_INT_DEBT) table
- Auto Transaction Number Table (ADNT)

Output

- Transactions selected for intercept process for given Entity are generated as report.
- IT Transactions in submitted phase

Parameters

Job	Parameter	Description	Default Value
IT Transaction XML Creation	Export Location (AMSEXPORT) (** Refer to Note: Assumptions for SWBP on page no. 5)	Required. Export Location at Generate External Intercept Payment Transactions Job	
	Parameter Location (AMSPARM) (** Refer to Note: Assumptions for SWBP on page no. 5)	Required. Parameter Location at Generate External Intercept Payment Transactions Job	

Job	Parameter	Description	Default Value
	Client name (CLIENT_NM)	Optional. Client Name	
	Transaction Code (DOC_CD)	Required. Transaction Code	
	Transaction Department Code (DOC_DEPT_CD)	Required. Transaction Department Code	
	Transaction Prefix (DOC_PFX)	Required. Transaction Prefix	
	Transaction Status Code (DOC_STA_CD)	Required. Transaction Status (1 - Held, 2 - Ready)	1
	Transaction Unit Code (DOC_UNIT_CD)	Optional. Transaction Unit Code	
	EXP_FILE_NM	Required. Transaction XML file for the IT Transaction (.xml)	ExtInctPymtDoc.xml
	LOAD_FILE_NM	Required. Load Parameter File(.txt)	ExtInctPymtLoadParams.txt
	SUBMIT_FILE_NM	Required. Submit Parameter File(.txt)	ExtInctPymtSubmitParams.txt
Load IT Transactions	Parameter File (PARAM_FILE)	Required (and protected) Parameter File(.txt) containing Load Parameters	\$\$AMSPARM\$\$/ExtInctPymtLoadParams.txt

Job	Parameter	Description	Default Value
Submit IT Transactions	Parameter File (PARAM_FILE)	Required (and protected) field that will be used to define the parameters for submitting the transactions.	\$\$AMSPARM\$\$/ExtInctPymtSubmitParams.txt

Sort Sequence

- Entity (ENTY_CD)
- Debt Type (DEBT_TYP_CD)
- Intercept ID (INT_ID)
- Accounting Line (DOC_ACTG_LN_NO)

Selection Criteria

Select the transaction where

IT Generated Flag (DOC_GEN_FL) == False on Externally Intercepted Debt table.

Problem Resolution

No database restore is required.

This batch program produces new Advantage transactions, which are subject to the line limit functionality constraints. Sites should ensure that they run this job with parameters set to ensure that the created transactions are within the line limit controls.

2.2 Intercept Report Processes

The Intercept report run sheets included in this section are:

- [Intercept Activity by Vendor Report](#)

2.2.1 Intercept Activity by Vendor Report

Description

This report will list all the payment-offset activity by Vendor for a specified data range.

When to Run

This process is expected to run *Monthly*, but can be run at the end of the each Disbursement Run.

Major Input

- AD Transaction Accounting Line
- Intercept Activity Table

Major Output

Intercept Activity by Vendor Report

Parameters

Description (Caption)	Parameter Name	Default Value
Start Date	END_DT	Required
End Date	STRT_DT	Required

If default values are entered through Configure Batch Control, they can be changed when the process is being executed through Setup Parameters (when a new job is submitted).

Sort Criteria

- VEND_CUST_CD - Vendor Customer
- Intercept Type

Selection Criteria

Select all the AD transactions where the Transaction Creation Date is within the Date Range specified in the Parameter.

Table Updates

None.

Troubleshooting

No database restore is required. Correct the problem and rerun the job executing the program. No restoration of data sets or files from backups is required for this program.