



DEVELOPER GUIDE

PART B – CONNECTOR REQUIREMENTS

Warning: This is a redacted version of the SIDES Developer Guide and is NOT the latest version. For development, log into the Members Site and obtain the latest version.

Version: 2.3

Date: February 22, 2017

Copyright © 2017, National Association of State Workforce Agencies.

All Rights Reserved.

Revision History

Date	Version	Description	Author
8/20/2010	1.0	Version 1.0	SIDES Team
9/27/2010	1.1	<p>Updated: Part C – Development Steps.</p> <p>Added discussion on Combined.xsd to document. See Sections 3.3, 3.3.1.4, and 4.6.1.</p> <p>Enhanced the description of a GUID. See Section 4.2.2.</p> <p>Enhanced discussion on certification test data files to indicate that connectors may need to edit certification test data files. See Section 8.1.1.1.1.</p>	SIDES Team
12/09/2010	1.2	<p>Updated: Part C – Development Steps.</p> <p>Under section 9.1, Common Mistakes, two new sections were added.</p> <p>Section 9.1.7 clarifies the interpretation of numeric fields used to store money values.</p> <p>Section 9.1.8 provides guidance on populating the StateEmployerAccountNbr field so employers and TPAs can use this data to look up employer information in their automated systems.</p>	SIDES Team
4/7/2011	2.0	<p>Added Earnings Verification requirements, modified requirements to be specific to their exchange, added requirements from CCB#9 (C-2.3.3.1-4, 2.3.3.1-5, and 2.3.3.1-6, added model connector.</p>	SIDES Team
5/20/2011	2.1	<p>Updated Part C. Added Employer Model Connector; Jax-WS Model Connector and .Net Model Connector; Corrected SOAP header information relating to the Earnings Verification exchange</p>	SIDES Team

Date	Version	Description	Author
11/18/2011	2.2	<p>Updated Part B.</p> <p>Added section C-2.10 SEW and added in the requirement to specify the size of the SEW custom logo to C-2.10.1.</p> <p>Identified requirements met through the use of the SIDES Model Connector.</p>	SIDES Team
2/22/2017	2.3	Updated SIDES Logo	SIDES Team

TABLE OF CONTENTS

1	INTRODUCTION	5
2	CONNECTOR REQUIREMENTS	7
	C-2.1: GENERAL REQUIREMENTS	7
	C-2.1.1: Connector Systems.....	7
	C-2.1.2: Conformance to Standards and Certification.....	7
	C-2.1.3: Timely Response.....	8
	C-2.1.4: Date of Record.....	8
	C-2.1.5: Data Pickup and Retention.....	8
	C-2.1.6: 'Code 99 Response'.....	8
	C-2.1.7: Repeated File Transmission Errors.....	9
	C-2.1.8: Rollback to pre-SIDES Procedures.....	9
	C-2.3: FILES AND RECORDS	11
	C-2.3.1: Files.....	11
	C-2.3.2: XML.....	11
	C-2.3.3: Records.....	12
	C-2.4: POST/PULL	15
	C-2.4.1: General.....	15
	C-2.4.2: Post [synchronous].....	15
	C-2.4.3: Pull [synchronous].....	15
	C-2.4.4: Push.....	15
	C-2.4.5: Acknowledgement.....	15
	C-2.4.6: Re-pull.....	16
	C-2.4.7: Resending Records.....	16
	C-2.4.8: Duplicate Processing.....	16
	C-2.5: MESSAGING	17
	C-2.5.1: Unique IDs.....	17
	C-2.5.2: SOAP Message.....	17
	C-2.5.3: Message-layer Security Order for SOAP Message.....	26
	C-2.6: DATA TRANSPORT	27
	C-2.6.1: Acknowledgements.....	27
	C-2.6.2: Non-Broker Returns.....	27
	C-2.7: WSDLs AND XSD	28
	C-2.7.1: WSDLs.....	28
	C-2.7.2: XSD for Separation Information.....	28
	C-2.7.3: XSD for Earnings Verification.....	29
	C-2.8: BUSINESS RULES ERROR CODES	31
	C-2.9: DISASTER RECOVERY	42
	C-2.10: SIDES EMPLOYER WEBSITE	42

1 INTRODUCTION

This part of the Developer Guide package provides information specific to the connector requirements and what data needs to be collected and how it should be arranged. The connector requirements documented herein have been extracted from the **SIDES Central Broker** requirements documentation baseline.

While the bulk of the entire Developer Guide package is devoted to presenting and explaining the steps to developing a connector, it is vital that you understand and are able to comply with the requirements before starting the work detailed in Part C – Development Steps.

The individual sections are as follows:

- General Requirements
- Security
- Files and Records
- Post/Pull
- Messaging
- Data Transport
- WSDLs and XSD
- Business Rules Error Codes
- Disaster Recovery

See also the Implementation Guide for the **Separation Information Exchange Format** that must be used with **SIDES** when implementing a separation exchange with the Central Broker.

Please make a note of the numbering format used in this document. This will help you understand the structure of the document as well as help **SIDES** technical staff when you have questions.

C = connector • **#** = document section • **#** = requirement section ■ **#** = requirement


➤ = detailed points regarding the requirement

Example:

C.2.1 Requirement Section

C.2.1-1 “Requirement”

➤ Detail point

Any requirement with a  symbol at the end of it is completely handled by the SIDES Model Connector software. Therefore, if an endpoint were to use the SIDES Model Connector, then the endpoint would automatically be in compliance with the requirement.

2 CONNECTOR REQUIREMENTS


Requirements listed below and throughout this document have been extracted from the **Central Broker** requirements baseline and design.

C-2.1: General Requirements

C-2.1.1: Connector Systems

- C-2.1.1-1: The parties will back up their **SIDES** data at least every 24 hours. This will minimize the number of “resends” of data from the **Central Broker** (reduce operation costs) and avoid loss of data by a participant.
- C-2.1.1-2: The parties will size their production systems to be capable of supporting the exchange of data flow during peak workload periods with other **SIDES** participants.
- C-2.1.1-3: The parties agree to support as necessary three environments for **SIDES** exchanges for which they have elected to participate:
- A Development System for the development of end-point **SIDES** interfaces and/or future upgrades and enhancements.
 - A Test System for debugging and testing of the **SIDES** system or future upgrades or enhancement of the system.
 - A Production System for processing of the exchange information for which the party has elected to participate.
 - Each of the parties agrees to create a disaster recovery and continuity of operations (“COOP”) plan that functions in conjunction with the mutually agreed to **Central Broker** COOP plan.

C-2.1.2: Conformance to Standards and Certification

- C-2.1.2-1: The parties agree to certification testing of their interfaces to insure proper operations prior to initiation of full production and connection to the **SIDES** production system.
- C-2.1.2-2: The connector shall be developed in a manner that enables injection of certification test files into the connector for certification testing of post, pull, and post transactions. 
- C-2.1.2-3: The parties agree to conform to the **SIDES** Standards established for the exchanges for which they have elected to participate:
- XML Request and Response file formats, including validation rules,
 - WSDL (includes SOAP request/response messaging formats and attachment processing),
 - Security Requirements, and
 - Request and Response Business Rule Requirements.
 - The parties agree to use only the printable US American Standard Code for Information Interchange (US ASCII) characters 32 – 126 decimal in all **Central Broker** communications.

C-2.1.3: Timely Response

C-2.1.3-1: Timely Response:

- The parties agree that responses successfully submitted to the **Central Broker** by 11:59 PM Eastern Time on the Response Due Date are considered to have been submitted timely by the state.
- In the event of a rejected Request for Information due to failed validation, the state Response Due Date, if any, shall be adjusted for the delay when the state corrects the request and successfully resends the request.
- Participating **SIDES** members agree that the response due date for a request is contained in the A-30 field of the Separation Information Request record.

C-2.1.3-2: Dates/Time Zone:

- All dates in the **Central Broker** will be displayed on the Web as Eastern.
- The **Central Broker** shall use Eastern Time for date and time stamping all transactions.

C-2.1.4: Date of Record

C-2.1.4-1: The parties agree that the date an employer / TPA's response is successfully submitted to the **Central Broker** is the Official Date of receipt by the State Agency.

C-2.1.4-2: The **Central Broker** shall record the end time of a Push transaction which becomes the date of record for sending the file to an Employer/TPA.

C-2.1.4-3: The **Central Broker** shall record the end time of a Pull transaction which becomes the date of record for sending to the State/Employer/TPA.

C-2.1.4-4: The **Central Broker** shall record the Post end time, which shall become the date of record for receiving the record from the State/Employer/TPA.

C-2.1.5: Data Pickup and Retention

C-2.1.5-1: The parties will obtain **SIDES** data from the **Central Broker** at least once every 24 hours to minimize prolonged storage of **SIDES** data on the **Central Broker**.

C-2.1.5-2: The Employer/TPA shall not have to have a 1 to 1 response of every transaction sent to it as agreed upon with the State. [**Duplicate requests do not have to be responded to**].

C-2.1.5-3: Data Retention Policy:

- All data records are purged from the system [**Central Broker**] 7 calendar days after acknowledgement. (This does not include reporting data). [**related to re-pull**]

C-2.1.6: 'Code 99 Response'

C-2.1.6-1: Employer/TPA participants understand that use of the "99 Code" for any response item for which it is permitted means that they do not have and/or cannot present the information requested and the participating state should proceed based on information they are providing:

- The employer / TPA understands and agrees that the state should proceed with making a determination without this additional information and that the Employer/TPA may not be allowed to present the omitted information at a later time.
- The result of using the Code 99 may result in an adverse effect on the Employer account and its standing regarding the issue.

C-2.1.7: Repeated File Transmission Errors

C-2.1.7-1: The following procedures must be established as to what a party must do if it has repeated file transmission failures (repeated file transmission failures is defined as after 2 re-sends, or 3 total consecutive transmission attempts, in which a file transmission fails):

- The party must troubleshoot its own system, hardware, software, security s, etc.
- A party failing to identify the failure cause through internal troubleshooting will contact the **Broker Administrator** to describe fault and situation or conditions, and coordinate further troubleshooting with the **Central Broker** to establish the nature of the problem.
- Take agreed upon corrective action regarding internal faults.
- Initiate re-transmission of all failed files.

C-2.1.8: Rollback to pre-SIDES Procedures

C-2.1.8-1: If a party cannot transmit and or pick up files for five (5) consecutive days, rollback to that entity's legacy method shall occur within a total of seven (7) days:

- A party may rollback to that entity's legacy method earlier than five (5) days if the party deems it necessary.
- The connector shall also change its status in the **SIDES Central Broker** to "non-participant" until the party can become operational again, at which time the party will update itself as a "participant" again.

C-2.2: Security

REDACTED

C-2.3: Files and Records

C-2.3.1: Files

C-2.3.1-1: A Request/Response file will contain 1 to n number of records and is implemented in XML format.

C-2.3.1-2: The maximum request file size, including attachments, encoded, non-encrypted is 8 MB.

C-2.3.1-3: The maximum response file size, including attachments, encoded, non-encrypted is 8 MB.

C-2.3.1-4: A file GUID shall be used to uniquely identify request / response files:

- The **SIDES** GUID shall be a 32-character string, without ‘-’.

C-2.3.1.1: State request file

C-2.3.1.1-1: A Request File from a State must contain only one Employer/TPA that all the records in a file get routed to.

C-2.3.1.2: Employer/TPA response file

C-2.3.1.2-1: A Response File from an Employer/TPA must contain only one State that all the records in a file get routed to.

C-2.3.1.1-2: Responses can only be sent by the party receiving a request for information [including the response indicating a misdirected request or if an employer / TPA is not representing the claimant].

C-2.3.2: XML

C-2.3.2.1: Null/empty values

C-2.3.2.1-1: Any element that does not have a value must not appear in the XML file sent to the **Central Broker**.

C-2.3.2.1-2: The **Central Broker** returns an XSD error for an empty optional string element (an XML parser will not identify empty optional strings as an XSD error); connectors shall process **Central Broker** return code for an empty optional string element and resend the record.

C-2.3.2.1-3: Data elements that are required, which will have no data shall be assigned a space (in *Separation Information* these are ClaimantFirstName and ClaimantLastName only).

C-2.3.2.2: Dates

C-2.3.2.2-1: Dates are defined as data type xs:date in XSD.

C-2.3.2.2-2: Dates shall be restricted to 10 characters in total (year, month, day, including dashes ('-')).

C-2.3.2.3: Full date and time

C-2.3.2.3-1: **SIDES** requires the use of the date and time fields in xs:dateTime.

C-2.3.2.3-2: The time zone component in the *xs:dateTime* must be identified as Greenwich Mean Time (UTC) or an offset thereof.

C-2.3.2.4: Message Transmission Optimization Mechanism (MTOM)

C-2.3.2.4-1: Request / Response attachments shall use MTOM and data type base64Binary.

C-2.3.3: Records

C-2.3.3.1: Records from a state

- C-2.3.3.1-1.1: Each request record from a State must include a unique StateRequestRecordGUID for *Separation Information*.
- C-2.3.3.1-1.2: Each request record from a State must include a unique StateEarningsVerificationRequestRecordGUID for *Earnings Verification*.
- C-2.3.3.1-2: The BrokerRecordTransactionNumber is given to each separation request record on entry into the **Central Broker** and is generated by the **Central Broker**.
- C-2.3.3.1-3: All records bundled in a file for transport to the Employer/TPA get an EmployerSOAPTransactionNumber identifier [record once in SOAP header]. This number is related to resend.
- C-2.3.3.1-4: State UI agencies shall ensure RecordGUIDs are not reused for a time period of 10 years.
- C-2.3.3.1-5: For exception processing, state UI agencies may reuse the already assigned RecordGUID when the Broker acknowledgement to the Post was not received by the state UI agency.
- C-2.3.3.1-6: For exception processing, state UI agencies may reuse the already assigned RecordGUID when the Broker acknowledgement to the Post returns a message code = 2 (total file failure), or when the Broker acknowledgement returns a message code = 3 and the record with the RecordGUID is identified as a record in error.

C-2.3.3.2: Records from an Employer to a state

- C-2.3.3.2-1.1: A response record from an employer must include a unique StateRequestRecordGUID [backfill] and other Control data for *Separation Information*.
- C-2.3.3.2-1.2: A response record from an employer must include a unique StateEarningsVerificationRequestRecordGUID [backfill] and other Control data for *Earnings Verification*.
- C-2.3.3.2-2: The BrokerRecordTransactionNumber must be backfilled in the separation response that the employer or TPA sends to the **Central Broker**.
- C-2.3.3.2-3: All records bundled in a file for transport to the State get a StateSOAPTransactionNumber identifier [record once in SOAP header]. This number is related to resend.
- C-2.3.3.2-4: The following data elements shall be backfilled from the separation request into the separation response:

Table 1 – Backfilled Data

Element Name	Separation Information Exchange Format Sequence Number	Notes
StateRequestRecordGUID	B-59	

Element Name	Separation Information Exchange Format Sequence Number	Notes
BrokerRecordTransactionNumber	B-60	
SSN	B-1	
ClaimEffectiveDate	B-2	
ClaimNumber	B-3	If this was not included in the separation request, then it must not be included in the separation response.
StateEmployerAccountNbr	B-4	

C-2.3.3.2-5: The following data elements shall be backfilled from the earnings verification request into the earnings verification response:


Table 2 – Backfilled Data

Element Name	Earnings Verification Exchange Format Sequence Number	Notes
StateEarningsVerificationRequestRecordGUID	ER-1	
BrokerRecordTransactionNumber	ER-2	
RequestingStateAbbreviation	ER-3	
UIOfficeName	ER-4	
StateEmployerAccountNbr	ER-5	
FEIN	ER-6	
EmployerName	ER-8	
SSN	ER-10	
NumberOfWeeksRequested	ER-12	
EarningsVerificationWeekEndDate	ER-13	




Element Name	Earnings Verification Exchange Format Sequence Number	Notes
EarningsVerificationWeekEndDate	ER-14	
EarningsVerificationSourceCode	ER-32	

C-2.4: Post/Pull




C-2.4.1: General

- C-2.4.1-1: The Broker web service shall accept one (1) file at a time from the state and employer / TPA systems [message code is send after each file is accepted].
- C-2.4.1-2: The Broker web service shall feed the state and employer / TPA systems connector one (1) file at a time.
- C-2.4.1-3: The state/employer / TPA/Central Broker shall set a timeout value of 15 minutes for receiving acknowledgement of a sent file. [from Central Broker] See resending records / duplicate processing. 

C-2.4.2: Post [synchronous]

- C-2.4.2-1: The state and employer / TPA shall have the ability to Post a file to the **Central Broker**:
- Connector posts its request (if a state), or response (if an employer or TPA) files to the **Central Broker** in an HTTP request to the **Central Broker**. 
 - Connector receives receipt of file in an HTTP response from the **Central Broker**. 
- C-2.4.2-2: The next file is to be sent by the state or employer / TPA (if there is one) after the **Central Broker** message code is returned [related to timeout value of 15 minutes].
- C-2.4.2-3: The parties' [state and employer / TPA] files or records which fail the standards will be returned to the sender as a failed transmission and will NOT be sent to their destination. 

C-2.4.3: Pull [synchronous]


- C-2.4.3-1: The state and employer / TPA shall have the ability to Pull a file from the **Central Broker**, which is performed in 2 separate HTTP request/response patterns:
- HTTP request/response pattern 1
 - Connector asks for its files (responses if a state, requests if an employer or TPA) in an HTTP request to the **Central Broker**. 
 - Connector receives its files in an HTTP response from the **Central Broker**. 
 - HTTP request/response pattern 2
 - Connector acknowledges its receipt of file in an HTTP request to the **Central Broker**. 
- C-2.4.3-2: The records for a Pull will be in order by **Central Broker** received date, with the first record being the oldest record that has not been collected.

C-2.4.4: Push

- C-2.4.4.1: The **Central Broker** shall have the ability to Push a file to an Employer/TPA that has a web service.

C-2.4.5: Acknowledgement

C-2.4.5.1: Pull

- The state and employer / TPA shall have the responsibility to send an acknowledgement that they received the file to the **Central Broker** .

C-2.4.5.2: Post

- **Central Broker** acknowledges that state or employer / TPA file was received via delivery of a message code.

C-2.4.6: Re-pull

C-2.4.6-1: The ability to re-Pull a file is only available while the file is maintained on the **Central Broker** which is determined by the purge policy [7 days]:

- 7 days except if a re-pull is requested, then the data is retained for 14 days (can only extend the purge date one time).

C-2.4.6-2: The state shall have the ability to re-Pull a file from the **Central Broker** by sending the StateSOAPTransactionNumber.

C-2.4.6-3: The employer / TPA shall have the ability to re-Pull a file from the **Central Broker** by sending the EmployerSOAPTransactionNumber.

C-2.4.6-4: The state and employer / TPA shall have the ability to re-Pull a file from the **Central Broker** by date range.

C-2.4.7: Resending Records


C-2.4.7-1: The state and employer / TPA shall have the ability to send a record multiple times, allowing duplicates of the same record:

- Both in the same file
- Different files

C-2.4.8: Duplicate Processing

C-2.4.8-1: Duplicate processing is responsibility of the connector.

C-2.4.8-2: State and Employer/TPA logs duplicate files and records.

C-2.4.8-3: All connectors shall resend a file when no acknowledgement is received [from **Central Broker**] up to maximum of 2 times (for a total of 3 attempts at sending the file). After three times, the system [connector administrator] shall examine the reason for their communications problem and if necessary notify the **Broker Administrator** to continue research into the error. 

- Two possible cases:
 - **Central Broker** sends acknowledgement, but connector does not receive or process it.
 - **Central Broker** is not able to send acknowledgement.

C-2.4.8-4.1: Employer / TPA connector shall ensure their software accounts for and processes duplicate StateRequestRecordGUIDs across states for *Separation Information*. (There is a minor chance that the employer / TPA can receive different request records from multiple states that may contain the same StateRequestRecordGUID).

C-2.4.8-4.2: Employer / TPA connector shall ensure their software accounts for and processes duplicate StateEarningsVerificationRequestRecordGUIDs across states for *Earnings Verification*. (There is a minor chance that the employer / TPA can receive different request records from multiple states that may contain the same StateEarningsVerificationRequestRecordGUID).

C-2.5: Messaging

C-2.5.1: Unique IDs

C-2.5.1-1: Each state, employer, and TPA shall use their assigned Unique ID:

Table 3 - Unique IDs of Current Participating States


State	Unique ID
REDACTED	

Table 4 - Unique IDs of Current Participating Employer/TPAs

Employer/TPA	Unique ID
REDACTED	


C-2.5.2: SOAP Message

C-2.5.2.1: SOAP File

C-2.5.2.1-1: A SOAP file will contain a header and a payload. 

C-2.5.2.2: SOAP Header

C-2.5.2.2-1: The SOAP header shall contain the **REDACTED** information (**REDACTED**). 

C-2.5.2.2-2: The SOAP header shall contain a File Message Code (**return on pull; acknowledgement of post; acknowledgement on pull**) and the connector shall process the Message Code. 

➤ Pull

Table 5 - Pull-Response Message Codes

Code	Message	Notes
1	File Contained in Payload	The file is contained in the payload of the SOAP Message
2	End Of Files	The are no files available to download

➤ Post

Table 6 - Post-Acknowledgement Message Codes

Code	Message	Notes
1	File Success	Successful Transmission; no rejects
2	File Failure	File size too large; no records in file; all records failed
3	File Success with Rejected Records	Rejected records included

C-2.5.2.2-3: The SOAP header shall contain a File Message Code

➤ Acknowledgements from State/Employer/TPA on a Pull

Table 7 - Pull Acknowledgement Codes

Code	Message	Notes
1	File Success	Successful Transmission
2	File Failure	Did not receive file; any file problems

- C-2.5.2.2.1: The SOAP header shall contain Custom header data
- C-2.5.2.2.1-1.1: State Post to **Central Broker** for *Separation Information*:
The State shall include the following data in the custom header: To, From, and StateRequestFileGUID.
- C-2.5.2.2.1-1.2: State Post to **Central Broker** for *Earnings Verification*:
The State shall include the following data in the custom header: To, From, and StateEarningsVerificationRequestFileGUID.
- C-2.5.2.2.1-2.1: State Post to SEW for *Separation Information*:
The State shall include the following data in the custom header: To, From, and StateRequestFileGUID, SEIN, and PIN.
- C-2.5.2.2.1-2.2: State Post to SEW for *Earnings Verification*:
The State shall include the following data in the custom header: To, From, and StateEarningsVerificationRequestFileGUID, and PIN.
- C-2.5.2.2.1-3.1: **Central Broker** acknowledgement to State Post for *Separation Information*:
The State shall receive and process the following data in the custom header: To, From, StateRequestFileGUID, and Message Code.
- C-2.5.2.2.1-3.2: **Central Broker** acknowledgement to State Post for *Earnings Verification*:
The State shall receive and process the following data in the custom header: To, From, StateEarningsVerificationRequestFileGUID, and Message Code.
- C-2.5.2.2.1-4: State Pull Request (regular):
The State shall include the following data in the custom header: To, From, and PullCollection.
- C-2.5.2.2.1-5: **Central Broker** Response to Pull:
The State shall receive and process the following data in the custom header: To, From, StateSOAPTransactionNumber, and Message Code.
- C-2.5.2.2.1-6: State acknowledgement to Pull (regular):
The State shall include the following data in the custom header: To, From, StateSOAPTransactionNumber, MessageCode.
- C-2.5.2.2.1-7: State Pull from **Central Broker** – Re-Pull by StateSOAPTransactionNumber:
The State shall include the following data in the custom header: To, From, PullCollection, and StateSOAPTransactionNumber.
- C-2.5.2.2.1-8: **Central Broker** Response to Request (Re-Pull by StateSOAPTransactionNumber):
The State shall receive and process the following data in the custom header: To, From, StateSOAPTransactionNumber, and Message Code.
- C-2.5.2.2.1-9: State Acknowledgment to **Central Broker** (Re-Pull by StateSOAPTransactionNumber):
The State shall include the following data in the custom header: To, From, StateSOAPTransactionNumber, MessageCode.
- C-2.5.2.2.1-10: State Request to **Central Broker** (Re-Pull by Date Range):
The State shall include the following data in the custom header: To, From, PullCollection, and StateSOAPTransactionNumber.
- C-2.5.2.2.1-11: **Central Broker** Response to Request (Re-Pull by Date Range):

The State shall receive and process the following data in the custom header: To, From, StateSOAPTransactionNumber, Message Code, NextStateSoapTransactionNumber.

C-2.5.2.2.1-12: State Acknowledgment to **Central Broker** (Re-Pull by Date Range):

The State shall include the following data in the custom header: To, From, StateSOAPTransactionNumber, MessageCode.

C-2.5.2.2.1-13.1: Employer/TPA Post to **Central Broker** for *Separation Information*:

The Employer shall include the following data in the custom header: To, From, EmployerTPAResponseFileGUID.

C-2.5.2.2.1-13.1: Employer/TPA Post to **Central Broker** for *Earnings Verification*:

The Employer shall include the following data in the custom header: To, From, EmployerTPAEarningsVerificationResponseFileGUID.

C-2.5.2.2.1-14.1: **Central Broker** Acknowledgement to Employer/TPA Post for *Separation Information*:

The Employer shall receive and process the following data in the custom header: To, From, EmployerTPAResponseFileGUID, MessageCode.

C-2.5.2.2.1-14.2: **Central Broker** Acknowledgement to Employer/TPA Post for *Earnings Verification*:

The Employer shall receive and process the following data in the custom header: To, From, EmployerTPAEarningsVerificationResponseFileGUID, MessageCode.

C-2.5.2.2.1-15: Employer/TPA Request to **Central Broker** (Regular Pull):

The Employer shall include the following data in the custom header: To, From, PullCollection.

C-2.5.2.2.1-16: **Central Broker** Response to Request (Regular Pull):

The Employer shall receive and process the following data in the custom header: To, From, EmployerTPASOAPTransactionNumber, Message Code.

C-2.5.2.2.1-17: Employer/TPA Acknowledgment to **Central Broker** (Regular Pull):

The Employer shall include the following data in the custom header: To, From, EmployerTPASOAPTransactionNumber, MessageCode.

C-2.5.2.2.1-18: Employer/TPA Pull from **Central Broker** – Re-Pull by EmployerTPASOAPTransactionNumber:

The Employer shall include the following data in the custom header: To, From, PullCollection, and EmployerTPASOAPTransactionNumber.

C-2.5.2.2.1-19: **Central Broker** Response to Request (Re-Pull by EmployerTPASOAPTransactionNumber):

The Employer shall receive and process the following data in the custom header: To, From, EmployerTPASOAPTransactionNumber, MessageCode.

C-2.5.2.2.1-20: Employer/TPA Acknowledgment to **Central Broker** (Re-Pull by EmployerTPASOAPTransactionNumber):

The Employer shall include the following data in the custom header: To, From, EmployerTPASOAPTransactionNumber, MessageCode.

C-2.5.2.2.1-21: Employer/TPA Request to **Central Broker** (Re-Pull by Date Range):

The Employer shall include the following data in the custom header: To, From, PullCollection, EmployerTPASOAPTransactionNumber.

C-2.5.2.2.1-22: **Central Broker** Response to Request (Re-Pull by Date Range):

The Employer shall receive and process the following data in the custom header: To, From, EmployerTPASOAPTransactionNumber, MessageCode, NextEmployerTPASOAPTransactionNumber.

C-2.5.2.2.1-23: Employer/TPA Acknowledgment to **Central Broker** (Re-Pull by Date Range):

The Employer shall include the following data in the custom header: To, From, EmployerTPASOAPTransactionNumber, MessageCode.

C-2.5.2.3: SOAP Payload

C-2.5.2.3-1: A SOAP payload will contain a request or response file with associated attachments **[embedded in request/response file; Separation Information only]**. 

C-2.5.2.3.1: State post payload

C-2.5.2.3.1-1.1: The SOAP message for *Separation Information* is the data defined in the StateSeparationRequestCollection defined in the Separation Request xsd.

C-2.5.2.3.1-1.2: The SOAP message for *Earnings Verification* is the data defined in the StateEarningsVerificationRequestCollection defined in the Earnings Verification Request xsd.

C-2.5.2.3.1-2: **Central Broker** acknowledgement to State Payload:

- The **Central Broker** sends back a response that contains the number of separation requests it received, the number in error, and the dates that it started receiving the records and finished receiving the records. This verifies to the state that the **Central Broker** received the desired file so it can move on to the next file.
- The state shall process the **Central Broker** acknowledgement for *Separation Information*, including error code processing as specified by the contents of the FailedSeparationRequest element.
- The state shall process the **Central Broker** acknowledgement for *Earnings Verification*, including error code processing as specified by the contents of the FailedEarningsVerificationRequest element.

C-2.5.2.3.2: Employer / TPA post payload

C-2.5.2.3.2-1.1: The “Post” payload in the SOAP message for *Separation Information* is the data defined in the EmployerTPASeparationResponseCollection defined in the Separation Response xsd.

C-2.5.2.3.2-1.2: The “Post” payload in the SOAP message for *Earnings Verification* is the data defined in the EmployerTPAEarningsVerificationResponseCollection defined in the Earnings Verification Response xsd.

C-2.5.2.3.2-2: **Central Broker** acknowledgement to Employer / TPA Payload:

- The **Central Broker** sends back a response that contains the number of separation responses it received, the number in error, and the dates that it started receiving the records and finished receiving the records. This verifies to the employer / TPA that the **Central Broker** received the desired file so it can move on to the next file.
- The employer / TPA shall process the **Central Broker** acknowledgement for *Separation Information*, including error code processing as specified by the contents of the FailedSeparationResponse element.

- The employer / TPA shall process the **Central Broker** acknowledgement for *Earnings Verification*, including error code processing as specified by the contents of the FailedEarningsVerificationResponse element.

C-2.5.2.3.3: State pull payload

C-2.5.2.3.3-1.1: For *Separation Information*, the StateSeparationResponseCollectionQuery defined in the StateTransmissionQuery.xsd is a complex type that allows the caller to specify one of three operations: a Pull, a Re-Pull by StateSOAPTransactionNumber, and a Re-Pull by a Date Range:

- Pull: The state shall supply the state Unique ID.
- Re-Pull by StateSOAPTransactionNumber: The state shall supply the state Unique ID and the StateSOAPTransactionNumber element out of the StateSeparationResponseCollectionQueryCriteriaType.

C-2.5.2.3.3-1.2: For *Earnings Verification*, the StateEarningsVerificationResponseCollectionQuery defined in the StateEarningsVerificationTransmissionQuery.xsd is a complex type that allows the caller to specify one of three operations: a Pull, a Re-Pull by StateSOAPTransactionNumber, and a Re-Pull by a Date Range:

- Pull: The state shall supply the state Unique ID.
- Re-Pull by StateSOAPTransactionNumber: The state shall supply the state Unique ID and the StateSOAPTransactionNumber element out of the StateEarningsVerificationResponseCollectionQueryCriteriaType.

C-2.5.2.3.3-2.1: Re-Pull by date range for *Separation Information*:

- For *Separation Information*, the state shall supply the state Unique ID and the StateSeparationResponseCollectionQueryCriteriaGroup element out of the StateSeparationResponseCollectionQueryCriteriaType.
- The state shall ensure that the StateSOAPTransactionNumber IS null and the date range that the connector requires to Re-Pull within are included the first time this operation is called.
- The state shall include the NextStateSOAPTransactionNumber SOAP header value as the StateSOAPTransactionNumber along with the date range for subsequent calls to differentiate to the **Central Broker** the next call in the series from a brand new Re-Pull by Date request.
- The state shall recognize the last file sent back to the connector is indicated by a null value for the next StateSOAPTransactionNumber (in element name NextStateSOAPTransactionNumber).

C-2.5.2.3.3-2.2: Re-Pull by date range for *Earnings Verification*:


- For *Earnings Verification*, the state shall supply the state Unique ID and the StateEarningsVerificationResponseCollectionQueryCriteriaGroup element out of the StateEarningsVerificationResponseCollectionQueryCriteriaType.
- The state shall ensure that the StateSOAPTransactionNumber IS null and the date range that the connector requires to Re-Pull within are included the first time this operation is called.


- The state shall include the NextStateSOAPTransactionNumber SOAP header value as the StateSOAPTransactionNumber along with the date range for subsequent calls to differentiate to the **Central Broker** the next call in the series from a brand new Re-Pull by Date request.
- The state shall recognize the last file sent back to the connector is indicated by a null value for the next StateSOAPTransactionNumber (in element name NextStateSOAPTransactionNumber).


C-2.5.2.3.4: Central Broker response to a state pull [Not a Connector Requirement – sets context]


- The **Central Broker** constructs a SOAP message according to the rules for a SOAP message (less than 8MB, one employer or TPA per message, etc.). It adds the additional field BrokerRecordEffectiveDate to the separation response, which indicates the date that it was accepted into the **Central Broker**. It then sends the responses in the HTTP response.


C-2.5.2.3.5: State Acknowledgement to Central Broker [occurs after Central Broker fulfils the state’s pull]


C-2.5.2.3.5-1.1: For *Separation Information*, the state shall initiate the StateSeparationResponseCollectionAcknowledgement upon receipt of the file from the **Central Broker**. 

C-2.5.2.3.5-1.2: For *EarningsVerification*, the state shall initiate the StateEarningsVerificationResponseCollectionAcknowledgement upon receipt of the file from the **Central Broker**. 

C-2.5.2.3.5-2: The state shall provide an acknowledgement for every state Pull request, as this is the manner in which the **Central Broker** knows that the state Pull was successful. 

C-2.5.2.3.5-3: The state shall provide an acknowledgement when the **Central Broker** has sent back an empty file and a MessageCode of 2. 

C-2.5.2.3.5-4: The state shall populate the key field in this message, StateSOAPTransmissionNumber, with the StateSOAPTransactionNumber that must correspond with the **Central Broker** Response to the state. 

C-2.5.2.3.5-5: The state shall populate the remainder of the message with reporting information; the values are not used for anything at this time. If the state does not collect this information, return 0 for the number of records and place a valid date in the date fields. 

Note: If the **Central Broker** receives 3 unanswered Pull requests the state will be suspended from making pull requests and the **Broker Administrator** must ‘unlock’ the state.

C-2.5.2.3.6: Employer / TPA pull payload

C-2.5.2.3.6-1.1: For *Separation Information*, the EmployerTPASeparationRequestCollectionQuery is a complex type that allows the caller to specify one of three operations: a Pull, a Re-Pull by EmployerTPASOAPTransactionNumber, and a Re-Pull by a Date Range:

- Pull: The employer / TPA shall supply the employer or TPA Unique ID.
- Re-Pull by EmployerTPASOAPTransactionNumber: The employer / TPA shall supply the Employer/TPA Unique ID and the EmployerTPASOAPTransactionNumber element out of the EmployerTPASeparationResponseCollectionQueryCriteriaType.

C-2.5.2.3.6-1.2: For *Earnings Verification*, the

EmployerTPAEarningsVerificationRequestCollectionQuery is a complex type that allows the caller to specify one of three operations: a Pull, a Re-Pull by EmployerTPASOAPTransactionNumber, and a Re-Pull by a Date Range:

- Pull: The employer / TPA shall supply the employer or TPA Unique ID.
- Re-Pull by EmployerTPASOAPTransactionNumber: The employer / TPA shall supply the Employer/TPA Unique ID and the EmployerTPASOAPTransactionNumber element out of the EmployerTPAEarningsVerificationResponseCollectionQueryCriteriaType.

C-2.5.2.3.6.1: Re-Pull by date range

C-2.5.2.3.6.1-1.1.1: For *Separation Information*, the employer / TPA shall supply the EmployerTPA Unique ID and the EmployerTPASeparationResponseCollectionQueryCriteriaGroup element out of the EmployerTPASeparationResponseCollectionQueryCriteriaType.

C-2.5.2.3.6.1-1.1.2: For *Earnings Verification*, the employer / TPA shall supply the EmployerTPA Unique ID and the EmployerTPAEarningsVerificationResponseCollectionQueryCriteriaGroup element out of the EmployerTPAEarningsVerificationResponseCollectionQueryCriteriaType.

C-2.5.2.3.6.1-1.2.1: For *Separation Information*, the employer / TPA shall supply the EmployerTPA Unique ID and the EmployerTPASeparationResponseCollectionQueryCriteriaGroup element out of the EmployerTPASeparationResponseCollectionQueryCriteriaType.

C-2.5.2.3.6.1-1.2.2: For *Earnings Verification*, the employer / TPA shall supply the EmployerTPA Unique ID and the EmployerTPAEarningsVerificationResponseCollectionQueryCriteriaGroup element out of the EmployerTPAEarningsVerificationResponseCollectionQueryCriteriaType.

C-2.5.2.3.6.1-2: The employer / TPA shall ensure that the EmployerTPASOAPTransactionNumber IS null and the date range that the connector requires to Re-Pull within are included the first time this operation is called.


C-2.5.2.3.6.1-3: The employer / TPA shall provide in the next call to this operation, the NextEmployerTPASOAPTransactionNumber SOAP header value as the EmployerTPASOAPTransactionNumber along with the date range. (This differentiates to the **Central Broker** the next call in the series from a brand new Re-Pull by Date request).


C-2.5.2.3.6.1-4: The employer / TPA shall recognize the last file sent back to the connector is indicated by a null value EmployerTPASOAPTransactionNumber (in element name NextEmployerTPASOAPTransactionNumber).


C-2.5.2.3.7: Central Broker response to an Employer / TPA pull [Not a Connector Requirement – sets context]:


- The **Central Broker** constructs a SOAP message according to the rules for a SOAP message (less than 8MB, one employer or TPA per message, etc.). It adds two additional fields to the Request - the BrokerRecordEffectiveDate and the BrokerRecordTransactionNumber. The BrokerRecordEffectiveDate indicates the date that it was accepted into the **Central Broker**. The BrokerRecordTransactionNumber is a unique record tracking number and must be returned on the response for this record. It then sends the separation requests in the HTTP response.


C-2.5.2.3.8: Employer/TPA Acknowledgement to Central Broker [occurs after Central Broker fulfils the employer / TPA pull]


C-2.5.2.3.8-1.1: For *Separation Information*, the employer / TPA shall initiate the EmployerTPASeparationRequestCollectionAcknowledgement upon receipt of the file from the **Central Broker**. 

C-2.5.2.3.8-1.2: For *Earnings Verification*, the employer / TPA shall initiate the EmployerTPAEarningsVerificationRequestCollectionAcknowledgement upon receipt of the file from the **Central Broker**. 

C-2.5.2.3.8-2: The employer / TPA shall provide an acknowledgement for every employer / TPA Pull request, as this is the manner in which the **Central Broker** knows that the Pull was successful. 

C-2.5.2.3.8-3: The employer / TPA shall provide an acknowledgement when the **Central Broker** has sent back an empty file and a MessageCode of 2. 

C-2.5.2.3.8-4: The employer / TPA shall populate the key field in this message, EmployerTPASOAPTransmissionNumber, with the EmployerTPASOAPTransactionNumber that must correspond with the **Central Broker** Response to the employer / TPA. 

C-2.5.2.3.8-5: The Employer / TPA shall populate the remainder of the message with reporting information; the values are not used for anything at this time. If the employer / TPA does not collect this information, return 0 for the number of records and place a valid date in the date fields. 

Note: If the **Central Broker** receives 3 unanswered Pull requests the employer / TPA will be suspended from making pull requests and the **Broker Administrator** must ‘unlock’ the employer / TPA.

C-2.5.2.4: SOAP Action

C-2.5.2.4-1: Connectors shall specify a valid **SIDES** SOAP action in the SOAP message. 

C-2.5.2.4-2: Connectors shall consult that **SIDES** WSDL to determine which SOAP action is required for a particular SOAP message. 

C-2.5.2.4-3.1: Valid SOAP actions for *Separation Information* defined in **SIDES** are:

- postStateSeparationRequestCollection
- pullStateSeparationResponseCollection

- pullStateSeparationResponseCollectionAcknowledgement
- postEmployerTPASeparationResponseCollection
- pullEmployerTPASeparationRequestCollection
- pullEmployerTPASeparationRequestCollectionAcknowledgement

Note: If the SOAP action is not included, the **Central Broker** will not send a SOAP message response to the connector for security purposes. The connector will NOT receive an explicit message code or error code from the **Central Broker**, but must process the http response (example null value, 404 error, etc).

C-2.5.2.4-3.2: Valid SOAP actions for *Earnings Verification* defined in **SIDES** are:


- postStateEarningsVerificationRequestCollection
- pullStateEarningsVerificationResponseCollection
- pullStateEarningsVerificationResponseCollectionAcknowledgement
- postEmployerTPAEarningsVerificationResponseCollection
- pullEmployerTPAEarningsVerificationRequestCollection
- pullEmployerTPAEarningsVerificationRequestCollectionAcknowledgement

Note: If the SOAP action is not included, the **Central Broker** will not send a SOAP message response to the connector for security purposes. The connector will NOT receive an explicit message code or error code from the **Central Broker**, but must process the http response (example null value, 404 error, etc).

C-2.5.3: Message-layer Security Order for SOAP Message

- **REDACTED**

C-2.6: Data Transport

C-2.6-1: The handshake messaging between connectors (State and Employer/TPA) and the **Central Broker** is http request/response based. 

C-2.6-2.1: The connectors shall use the following destination addresses for all messaging with the **Central Broker** for *Separation Information*:

➤ **REDACTED**





C-2.6-2.2: The connectors shall use the following destination addresses for all messaging with the **Central Broker** for *Earnings Verification*:

➤ **REDACTED**



C-2.6.1: Acknowledgements

C-2.6.1-1: Connectors shall assume that if an acknowledgement is not received within 15 minutes of sending a message, failure has taken place and the message should be sent again. 

C-2.6.1-2: Connectors shall implement message failure re-sends to occur three times (an initial time plus two retries) before contacting the connector's **SIDES** administrator to avoid an infinite cycle if the connector is having difficulty. 

C-2.6.2: Non-Broker Returns

C-2.6.2-1: The connectors shall handle the following system related return messages from the **Central Broker**:

- “UI **SIDES** Server Error has occurred. Please try again in a few minutes or contact your UI **SIDES** Administrator for assistance.”
 - This can occur if the connector was not set up properly or changed on the **SIDES** Admin Web site (the required **REDACTED** phrase has been removed from the Connector Tab).
 - This can also occur if the **SIDES** database has become unavailable and there is no way to process the message.
- A no response. A [404] Http Error.
 - This is most common if the security parameters in the SOAP message do not align with what the **Central Broker** was expecting. The **Central Broker** does not want to give any information to a would-be hacker that would make it easier to compromise the system.
 - This will also occur if the route between the endpoint and the **Central Broker** has been disrupted in anyway.

C-2.7: WSDLs and XSD

C-2.7.1: WSDLs

- C-2.7.1-1.1: A WSDL file **REDACTED** for *Separation Information* shall be given to the state that defines the communication between itself and the **Central Broker**.
- C-2.7.1-1.2: A WSDL file **REDACTED** for *Earnings Verification* shall be given to the state that defines the communication between itself and the **Central Broker**.
- C-2.7.1-2.1: A WSDL file **REDACTED** for *Separation Information* shall be given to the employer / TPA that defines the communication between itself and the **Central Broker**.
- C-2.7.1-2.2: A WSDL file **REDACTED** for *Earnings Verification* shall be given to the employer / TPA that defines the communication between itself and the **Central Broker**

C-2.7.2: XSD for *Separation Information*

- C-2.7.2-1: Request and response files must validate against the exchange's XML schema definition (XSD).
- C-2.7.2-2: Any violation of the XSD will result in an error indicating that the request or response was not successfully processed and must be fixed by the sender and resubmitted to **SIDES**.

C-2.7.2.1: REDACTED

- C-2.7.2.1-1: An XSD file shall be given to the state that defines the XML for a Request File used in the Post.
- C-2.7.2.1-2: An XSD file shall be given to the state that defines the XML for an Acknowledgement File from the Post.
- C-2.7.2.1-3: An XSD file shall be given to the employer / TPA that defines the XML for a Request File used in the Pull.
- C-2.7.2.1-4: An XSD file shall be given to the employer / TPA that defines the XML for an Acknowledgement File from a Pull.

C-2.7.2.2: REDACTED

- C-2.7.2.2-1: An XSD file shall be given to the state that defines the XML for a Response File from the employer / TPA.
- C-2.7.2.2-1: An XSD file shall be given to the employer / TPA that defines the XML for a Response File used in the Post.
- C-2.7.2.2-2: An XSD file shall be given to the employer / TPA that defines the XML for an Acknowledgement used from a Post.
- C-2.7.2.2-3: An XSD file shall be given to the state that defines the XML for an Acknowledgement used from a Pull.

C-2.7.2.3: Push

- C-2.7.2.3-1: An XSD file shall be given to the employer / TPA that defines the XML for a Push. **[employers to publish SIDES defined XSD]**.
- C-2.7.2.3-2: An XSD file shall be given to the employer / TPA that defined the XML for an Acknowledgement used from a Push. **[employers to publish SIDES defined XSD]**.

C-2.7.2.4: RequestResponseTypeElements.xsd

- C-2.7.2.4-1: A helper XSD shall be used to support the SeparationRequest.xsd and SeparationResponse.xsd.

C-2.7.2.5: Transmission-layer XSDs

- C-2.7.2.5-1: Connectors shall use transmission-layer XSDs, which define the SOAP headers and payloads for pull requests:
- EmployerTPATransmissionQuery.xsd,
 - StateTransmissionQuery.xsd, and
 - TransmissionQueryCommonElements.xsd **[helper XSD for EmployerTPATransmissionQuery.xsd and StateTransmissionQuery.xsd]**.

C-2.7.3: XSD for *Earnings Verification*

- C-2.7.3-1: Request and response files must validate against the exchanges XML schema definition (XSD).
- C-2.7.3-2: Any violation of the XSD will result in an error indicating that the request or response was not successfully processed and must be fixed by the sender and resubmitted to **SIDES**.

C-2.7.1.1: REDACTED

- C-2.7.3.1-1: An XSD file shall be given to the state that defines the XML for a Request File used in the Post.
- C-2.7.3.1-2: An XSD file shall be given to the state that defines the XML for an Acknowledgement File from the Post.
- C-2.7.3.1-3: An XSD file shall be given to the employer / TPA that defines the XML for a Request File used in the Pull.
- C-2.7.3.1-4: An XSD file shall be given to the employer / TPA that defines the XML for an Acknowledgement File from a Pull.

C-2.7.3.2: REDACTED

- C-2.7.3.1: An XSD file shall be given to the state that defines the XML for a Response File from the employer / TPA.
- C-2.7.3.2-1: An XSD file shall be given to the employer / TPA that defines the XML for a Response File used in the Post.
- C-2.7.3.2-2: An XSD file shall be given to the employer / TPA that defines the XML for an Acknowledgement used from a Post.
- C-2.7.3.2-3: An XSD file shall be given to the state that defines the XML for an Acknowledgement used from a Pull.

C-2.7.3.3: Push

C-2.7.3.3-1: An XSD file shall be given to the employer / TPA that defines the XML for a Push. [employers to publish SIDES defined XSD].

C-2.7.3.3-2: An XSD file shall be given to the employer / TPA that defined the XML for an Acknowledgement used from a Push. [employers to publish SIDES defined XSD].

C-2.7.3.4: RequestResponseTypeElements.xsd

C-2.7.3.4-1: A helper XSD shall be used to support the EarningVerificationSeparationRequest.xsd and EarningsVerificationSeparationResponse.xsd.

C-2.7.3.5: EarningsVerificationTypeElements.xsd

C-2.7.3.4-1: A helper XSD shall be used to support the EarningVerificationSeparationRequest.xsd and EarningsVerificationSeparationResponse.xsd.

C-2.7.3.6: Transmission-layer XSDs

C-2.7.3.6-1: Connectors shall use transmission-layer XSDs, which define the SOAP headers and payloads for pull requests:

REDACTED

C-2.8: Business Rules Error Codes

C-2.8-1: Connectors shall handle business rule error codes:

- Separation request error codes

Table 8 – Separation Request Error Codes

Error Code	Error Message
101.	XSD validation violation
102.	Business Rule violation - Two or more UniqueAttachmentIDs assigned to a specific Separation Information Request are the same. They must be unique.
110.	Business Rule violation - There is no Employer URI lookup
111.	Business Rule violation - There must be a value (Date) for WagesNeededBeginDate if WagesWeeksNeededCode = <i>WO/WW</i>
112.	Business Rule violation - There must be a value (Date) for WagesNeededEndDate if WagesWeeksBeginDate is completed

- Separation response error codes

Table 9 - Separation Response Error Codes

Error Code	Error Message
201.	XSD validation violation
202.	Business Rule violation - Two or more UniqueAttachmentIDs assigned to a specific Separation Information Response are the same - they must be unique
210.	Business Rule violation - There is no matching Claim Request record with fields matching A1 to B1, A2 to B2, A3 to B3, A4 to B4, the StateRequestRecordGUID, and the BrokerRecordTransactionNumber
211.	Business Rule violation - There must be a value (Character – Size 1) for TotalEarnedWagesNeededInd if WagesWeeksNeededCode = <i>WO/WW</i> and EmployerSeparationReasonCode does not equal 20 or 21
212.	Business Rule violation - There must be a value (Numeric – Size 15.2) for TotalEarnedWages if TotalEarnedWagesNeededInd = 1 for <i>Wages are Available</i>
213.	Business Rule violation - There must be a value (Character – Size 1) for TotalWeeksWorkedNeededInd if WagesWeeksNeededCode = <i>WW</i> and

Error Code	Error Message
	EmployerSeparationReasonCode does not equal 20 or 21
214.	Business Rule violation - There must be a value (Numeric – Size 2) for TotalWeeksWorked if TotalWeeksWorkedNeededInd = 1 for <i>Weeks are Available</i>
215.	Business Rule violation - There must be a value (Numeric – Size 2) for NumberOfHoursWorkedAfterClaimEffectiveDate if WagesEarnedAfterClaimEffectiveDate > 0
216.	Business Rule violation - There must be a value (Numeric – Size 15.2) for AverageWeeklyWage if remuneration included
217.	Business Rule violation - There must be a value (Character – Size 1 – Values Y N) for ReturnToWorkInd if EmployerSepReasonCode is 4 for <i>Vacation/Holiday Shutdown</i> or is 7 for <i>School Employee Between Semesters or Terms, Likely to Return</i> or is 17 for <i>Professional Athlete Between Sports Seasons</i> or is 1 for <i>Temporary Layoff</i> or is 15 for <i>Disciplinary Suspension</i>
218.	Business Rule violation - There must be a value (Date) for ReturnToWorkDate if ReturnToWorkInd = ‘Y’.
219.	Business Rule violation - There must be a value (Character – Size 2 – Values Y N 99) for WorkingAllAvailableHoursInd if EmployerSepReasonCode is 11 for <i>Still Employed, Hours Reduced by Employer</i>
220.	Business Rule violation - There must be a value (Character –Size 500) for NotWorkingAvailableHoursReason if WorkingAllAvailableHoursInd = N
221.	Business Rule violation - There must be a value (Character – Size 1 – Values S L) for LaborDisputeTypeInd if EmployerSepReasonCode is 16 for <i>Labor Dispute</i>
222.	Business Rule violation - There must be a value (Date) for AllocationBeginDate if EmployerAllocationCode is Y
223.	Business Rule violation - There must be a value (Date) for AllocationEndDate if EmployerAllocationCode is Y
224.	Business Rule violation - There must be a value (Numeric – Size 2) for AverageNumberHoursWorkedPerWeek if remuneration included
225.	Business Rule violation - There must be a value (Character – Size 1 – Values Y N) for MandatoryRetirementInd if EmployerSepReasonCode = 14 for <i>Retirement</i>
226.	Business Rule violation - There must be a value (Character – Size 1 – Values Y N) for MandatoryPension if any entry for RemunerationTypeCode = 5 for <i>Pension</i>
227.	Business Rule violation - There must be a value (Character – Size 1 – Values Y N) for

Error Code	Error Message
	ContributoryOrNotContributoryClaimantInd if any entry for RemunerationTypeCode = 5 for <i>Pension</i>
228.	Business Rule violation - There must be a value (Numeric – Size 3) for ClaimantPensionContributionPercent if ContributoryOrNotContributoryClaimantInd is Y
229.	Business Rule violation - There must be a value (Character – Size 2000) for EmployerSepReasonComments if EmployerSepReasonCode is other than 3 for <i>Discharged</i> or 6 for <i>Voluntary Quit</i>
230.	Business Rule violation - There must be a value (Character – Size 2 – Value 1-8 or 99) for DischargeReasonCode if EmployerSepReasonCode is 3 for <i>Discharged</i> or 5 for <i>Asked to Resign</i>
231.	Business Rule violation - There must be a value (Character – Size 1000) for FinalIncidentReason if DischargedReasonCode is 2-8
232.	Business Rule violation - There must be a value (Date) for FinalIncidentDate if FinalIncidentReason is completed
233.	Business Rule violation - There must be a value (Character – Size 1 – Values Y N) for ViolateCompanyPolicyInd if DischargeReasonCode is 2-8
234.	Business Rule violation - There must be a value (Character – Size 1 – Values Y N) for DischargePolicyAwareInd if ViolateCompanyPolicyInd is Y
235.	Business Rule violation - There must be a value (Character – Size 1 – Values W V) for DischargePolicyAwareExplanationCode if DischargePolicyAwareInd is Y
236.	Business Rule violation - There must be a value (Date) for PriorIncidentWarningDate if PriorIncidentWarningInd is Y
237.	Business Rule violation - There must be a value (Character – Size 1000) for PriorIncidentWarningDescription if PriorIncidentWarningInd is Y
238.	Business Rule violation - There must be a value (Character – Size 60) for WhoDischargedName if DischargeReasonCode is included
239.	Business Rule violation - There must be a value (Character – Size 60) for WhoDischargedTitle if DischargeReasonCode is included
240.	Business Rule violation - There must be a value (Character – Size 1000) for DischargeReasonComments if DischargeReasonCode is 8 for <i>Other</i>
241.	Business Rule violation - There must be a value (Character – Size 2 – Values 1-10 or 99) for VoluntarySepReasonCode if EmployerSepReasonCode is 6 for <i>Voluntary Quit</i>

Error Code	Error Message
242.	Business Rule violation - There must be a value (Character – Size 1 – Values 1-6)for HiringAgreementChangeCode if VoluntarySepReasonCode is 9 for <i>Working Conditions</i>
243.	Business Rule violation - There must be a value (Character – Size 1000) for HiringAgreementChangeComments if HiringAgreementChangeCode is 2-6
244.	Business Rule violation - There must be a value (Character – Size 1 – Values Y N) for ClaimantActionsAvoidQuitInd if VoluntarySepReasonCode is included
245.	Business Rule violation - There must be a value (Character – Size 1000) for ActionTakenComments if VoluntarySepReasonCode is included and if ClaimantActionsToAvoidQuitInd = Y
246.	Business Rule violation - There must be a value (Character – Size 1 – Values Y N) for ContinuingWorkAvailableInd if VoluntarySepReasonCode is included
247.	Business Rule violation - There must be a value (Character – Size 2000) for VoluntarySepReasonComments if VoluntarySepReasonCode is 10 for <i>Other</i>
248.	Business Rule violation - There must be a value (Character – Size 60) for PreparerCompanyName if PreparerTypeCode = T for <i>Third Party Administrator</i>
249.	Business Rule violation - If PreparerTypeCode is "E" for employer, then valid EmployerSepReasonCode (B-20) codes are 1-20 or 99. If PreparerTypeCode is "T" for Third Party Administrator then valid EmployerSepReasonCode (B-20) codes are 1-21 or 99
250.	Business Rule violation - If the value for EmployerSepReasonCode is 21 for <i>TPA does not represent this employer</i> then the value for PreparerTypeCode must be T for <i>Third-Party Administrator</i>
251.	Business Rule violation – EmployerReportedClaimantFirstDayofWork (Date) must be in the past
252.	Business Rule violation – EmployerReportedClaimantFirstDayofWork (Date) must be before or equal to EmployerReportedClaimantLastDayofWork
253.	Deprecated
254.	Business Rule violation – EmployerReportedClaimantLastDayofWork (Date) must be after or equal to EmployerReportedClaimantFirstDayofWork
255.	Deprecated
256.	Business Rule violation – ReturnToWorkDate (Date) must be after ClaimEffectiveDate

Error Code	Error Message
257.	Business Rule violation – FinalIncidentDate (Date) must be in the past
258.	Business Rule violation – PriorIncidentDate (Date) #<number> must be in the past
259.	Business Rule violation – PriorIncidentWarningDate (Date) #<number> must be in the past
260.	Business Rule violation – AmendedResponseDescription (Character – Size 2000) cannot be empty when AmendedResponse is not null
261.	Business Rule violation - EffectiveSeparationDate (Date) must be after or equal to EmployerReportedClaimantLastDayofWork
262.	Responding Employer/TPA does not match the Employer/TPA to which the request was sent
263.	State to which the employer or TPA is responding does not match the State from which the request was sent
264.	Business Rule violation – OtherSSN (Character – Size 9) cannot equal the SSN used for the claim

➤ Earnings Verification request error codes

Table 10 – Earnings Verification Request Error Codes

Error Code	Error Message
301.	XSD validation violation
302.	Business Rule violation – There is no Employer URI lookup.
313.	Business Rule violation – The NumberofWeeksRequested (Character – Size 2) must equal the number of days included in EarningsVerificationWeekBeginDate thru EarningsVerificationWeekEndDate divided by 7 days.
314.	Business Rule violation – The EarningsVerificationWeekBeginDate thru EarningsVerificationWeekEndDate does not divide evenly by 7 days.

➤ Earnings Verification response error codes

Table 11 – Earnings Verification Request Error Codes

Error Code	Error Message
401.	XSD validation violation
410.	Business Rule violation - There is no matching Claim Request record with fields matching E3 to ER3, E4 to ER4, E7 to ER5, E8 to ER6, E9 to ER8, E10 to ER10, E15 to ER12, E16 to ER13, E17 to ER14, E30 to ER32 the StateEarningsVerificationRequestRecordGUID, and the BrokerRecordTransactionNumber.
411.	Business Rule violation - There must be a value (Character – Size 1) for EmployerEarningsCode if ClaimantEmployerWorkRelationship = 1 for <i>The Claimant works/worked for the Employer</i>
412.	Business Rule violation - There must be a value (Date) for FirstDayWorkedinPeriod if EmployerEarningsCode = 1 for <i>Yes, this individual had earnings during the time frame requested</i> or 2 for <i>Claimant performs work and did not have earnings (100% sales person)</i>
413.	Business Rule violation – The value (Date) for FirstDayWorkedinPeriod must be between EarningsVerificationWeeksBeginDate and EarningsVerificationEndDate if included.
414.	Business Rule violation - There must be a value (Character – Size 1) for StillWorkingCode if EmployerEarningsCode = 1 for <i>Yes, this individual had earnings during the time frame requested</i> or 2 for <i>Claimant performs work and did not have earnings (100% sales person)</i>
415.	Business Rule violation - There must be a value (Date) for LastDayWorked if StillWorkingCode = 2 for <i>No</i>
416.	Business Rule violation - There must be a value (Character - Size 2) for EmployerSepReasonCode if StillWorkingCode = 2 for <i>No</i>
417.	Business Rule Violation – EarningsVerificationResponseComment (Character – Size 1000) must be null when EarningsVerificationResponseCommentIndicator in the Request equals 2 for <i>No</i>
418.	Business Rule violation - There must be <i>N</i> Repeatable Weekly Earnings Verifications if EmployerEarningsCode = 1 for <i>Yes, this individual had earnings during the time frame requested</i> or 2 for <i>Claimant performs work and did not have earnings (100% sales person)</i> where <i>N</i> is equal to the NumberOfWeeksRequested.

419.	Business Rule violation - There must be a value (Date) for WeekBeginDate in Repeatable Weekly Earnings Verification that begins with the EarningsVerificationWeekBeginDate.
420.	Business Rule violation - There must be a value (Date) for WeekEndDate in Repeatable Weekly Earnings Verification that is not after EarningVerificationWeekEndDate.
421.	Business Rule violation - There must be a value (Date) for WeekBeginDate in Repeatable Weekly Earnings Verification #<number> that is a multiple of 7 days from EarningsVerificationWeekBeginDate.
422.	Business Rule violation - All WeekBeginDates must be unique in Repeatable Weekly Earnings Verification
423.	Business Rule violation - There must be a value (Date) for WeekEndDate in Repeatable Weekly Earnings Verification #<number> that is 6 days later than WeekBeginDate.
424.	Business Rule violation - There must be a value (Numeric – 7.2) for AmountEarnedForWeek in Repeatable Weekly Earnings Verification #<number> if HoursWorked > 0.
425.	Business Rule violation - The value (Numeric – 7.2) for AmountEarnedForWeek in Repeatable Weekly Earnings Verification #<number> must be 0 if HoursWorked = 0.
426.	Business Rule violation - There must be a value (Date) for EarningsPaidDate in Repeatable Weekly Earnings Verification #<number> if EarningsStatusCode (from Request) = 3 for <i>Field Required, Date Required, Date Paid</i> or 4 for <i>Field Required, Date Required, Date Allocated</i> and AmountEarnedForWeek is > 0
427.	Business Rule violation – There cannot be a value (Date) for EarningsPaidDate in Repeatable Weekly Earnings Verification #<number> if EarningsStatusCode (from Request) = 2 for <i>Field Required, Date Not Required</i>
428.	Business Rule violation - There must be a value (Numeric – 7.2) for TipsAmountEarnedForWeek in Repeatable Weekly Earnings Verification #<number> if TipsStatusCode (from Request) = 2 for <i>Field Required, Date Not Required</i> or 3 for <i>Field Required, Date Required, Date Paid</i> or 4 for <i>Field Required, Date Required, Date Allocated</i>
429.	Business Rule violation – There cannot be a value (Numeric – 7.2) for TipsAmountEarnedForWeek in Repeatable Weekly Earnings Verification #<number> if TipsStatusCode (from Request) = 1 for <i>Field</i>

	<i>not present/required</i>
430.	Business Rule violation - There must be a value (Date) for TipsPaidDate in Repeatable Weekly Earnings Verification #<number> if TipsStatusCode (from Request) = 3 for <i>Field Required, Date Required, Date Paid</i> or 4 for <i>Field Required, Date Required, Date Allocated</i> and TipsAmountEarnedForWeek is > 0
431.	Business Rule violation - There cannot be a value (Date) for TipsPaidDate in Repeatable Weekly Earnings Verification #<number> if TipsStatusCode (from Request) = 1 for <i>Field not present/required</i> or 2 for <i>Field Required, Date Not Required</i>
432.	Business Rule violation - There must be a value (Numeric – 7.2) for CommissionAmountEarnedForWeek in Repeatable Weekly Earnings Verification #<number> if CommissionStatusCode (from Request) = 2 for <i>Field Required, Date Not Required</i> or 3 for <i>Field Required, Date Required, Date Paid</i> or 4 for <i>Field Required, Date Required, Date Allocated</i>
433.	Business Rule violation – There cannot be a value (Numeric – 7.2) for CommissionAmountEarnedForWeek in Repeatable Weekly Earnings Verification #<number> if CommissionStatusCode (from Request) = 1 for <i>Field not present/required</i>
434.	Business Rule violation - There must be a value (Date) for CommissionPaidDate in Repeatable Weekly Earnings Verification #<number> if CommissionStatusCode (from Request) = 3 for <i>Field Required, Date Required, Date Paid</i> or 4 for <i>Field Required, Date Required, Date Allocated</i> and CommissionAmountEarnedForWeek is > 0
435.	Business Rule violation - There cannot be a value (Date) for CommissionPaidDate in Repeatable Weekly Earnings Verification #<number> if CommissionStatusCode (from Request) = 1 for <i>Field not present/required</i> or 2 for <i>Field Required, Date Not Required</i>
436.	Business Rule violation - There must be a value (Numeric – 7.2) for BonusAmountEarnedForWeek in Repeatable Weekly Earnings Verification #<number> if BonusStatusCode (from Request) = 2 for <i>Field Required, Date Not Required</i> or 3 for <i>Field Required, Date Required, Date Paid</i> or 4 for <i>Field Required, Date Required, Date Allocated</i>
437.	Business Rule violation – There cannot be a value (Numeric – 7.2) for BonusAmountEarnedForWeek in Repeatable Weekly Earnings Verification #<number> if BonusStatusCode (from Request) = 1 for <i>Field not present/required</i>

438.	Business Rule violation - There must be a value (Date) for BonusPaidDate if BonusStatusCode (from Request) = 3 for <i>Field Required, Date Required, Date Paid</i> or 4 for <i>Field Required, Date Required, Date Allocated</i> and BonusAmountEarnedForWeek is > 0
439.	Business Rule violation - There cannot be a value (Date) for BonusPaidDate in Repeatable Weekly Earnings Verification #<number> if BonusStatusCode (from Request) = 1 for <i>Field not present/required</i> or 2 for <i>Field Required, Date Not Required</i>
440.	Business Rule violation - There must be a value (Numeric – 7.2) for VacationAmountPaidForWeek in Repeatable Weekly Earnings Verification #<number> if VacationStatusCode (from Request) = 2 for <i>Field Required, Date Not Required</i> or 3 for <i>Field Required, Date Required, Date Paid</i> or 4 for <i>Field Required, Date Required, Date Allocated</i>
441.	Business Rule violation – There cannot be a value (Numeric – 7.2) for VacationAmountEarnedForWeek in Repeatable Weekly Earnings Verification #<number> if VacationStatusCode (from Request) = 1 for <i>Field not present/required</i>
442.	Business Rule violation - There must be a value (Date) for VacationPaidDate if VacationStatusCode (from Request) = 3 for <i>Field Required, Date Required, Date Paid</i> or 4 for <i>Field Required, Date Required, Date Allocated</i> and VacationAmountPaidForWeek is > 0
443.	Business Rule violation - There cannot be a value (Date) for VacationPaidDate in Repeatable Weekly Earnings Verification #<number> if VacationStatusCode (from Request) = 1 for <i>Field not present/required</i> or 2 for <i>Field Required, Date Not Required</i>
444.	Business Rule violation - There must be a value (Numeric – 7.2) for SickAmountPaidForWeek in Repeatable Weekly Earnings Verification #<number> if SickStatusCode (from Request) = 2 for <i>Field Required, Date Not Required</i> or 3 for <i>Field Required, Date Required, Date Paid</i> or 4 for <i>Field Required, Date Required, Date Allocated</i>
445.	Business Rule violation – There cannot be a value (Numeric – 7.2) for SickAmountEarnedForWeek in Repeatable Weekly Earnings Verification #<number> if SickStatusCode (from Request) = 1 for <i>Field not present/required</i>
446.	Business Rule violation - There must be a value (Date) for SickPaidDate if SickStatusCode (from Request) = 3 for <i>Field Required, Date Required, Date Paid</i> or 4 for <i>Field Required, Date Required, Date Allocated</i> and

	SickAmountPaidForWeek is > 0
447.	Business Rule violation - There cannot be a value (Date) for SickPaidDate in Repeatable Weekly Earnings Verification #<number> if SickStatusCode (from Request) = 1 for <i>Field not present/required</i> or 2 for <i>Field Required, Date Not Required</i>
448.	Business Rule violation - There must be a value (Numeric – 7.2) for HolidayAmountPaidForWeek in Repeatable Weekly Earnings Verification #<number> if HolidayStatusCode (from Request) = 2 for <i>Field Required, Date Not Required</i> or 3 for <i>Field Required, Date Required, Date Paid</i> or 4 for <i>Field Required, Date Required, Date Allocated</i>
449.	Business Rule violation – There cannot be a value (Numeric – 7.2) for HolidayAmountEarnedForWeek in Repeatable Weekly Earnings Verification #<number> if HolidayStatusCode (from Request) = 1 for <i>Field not present/required</i>
450.	Business Rule violation - There must be a value (Date) for HolidayPaidDate in Repeatable Weekly Earnings Verification #<number> if HolidayStatusCode (from Request) = 3 for <i>Field Required, Date Required, Date Paid</i> or 4 for <i>Field Required, Date Required, Date Allocated</i> and HolidayAmountPaidForWeek is > 0
451.	Business Rule violation - There cannot be a value (Date) for HolidayPaidDate in Repeatable Weekly Earnings Verification #<number> if HolidayStatusCode (from Request) = 1 for <i>Field not present/required</i> or 2 for <i>Field Required, Date Not Required</i>
452.	Business Rule violation - There must be a value (Numeric – 7.2) for SeveranceAmountPaidForWeek in Repeatable Weekly Earnings Verification #<number> if SeveranceStatusCode (from Request) = 2 for <i>Field Required, Date Not Required</i> or 3 for <i>Field Required, Date Required, Date Paid</i> or 4 for <i>Field Required, Date Required, Date Allocated</i>
453.	Business Rule violation – There cannot be a value (Numeric – 7.2) for SeveranceAmountPaidForWeek in Repeatable Weekly Earnings Verification #<number> if SeveranceStatusCode (from Request) = 1 for <i>Field not present/required</i>
454.	Business Rule violation - There must be a value (Date) for SeverancePaidDate in Repeatable Weekly Earnings Verification #<number> if SeveranceStatusCode (from Request) = 3 for <i>Field Required, Date Required, Date Paid</i> or 4 for <i>Field Required, Date Required, Date Allocated</i> and SeveranceAmountPaidForWeek is > 0

455.	Business Rule violation - There cannot be a value (Date) for SeverancePaidDate in Repeatable Weekly Earnings Verification #<number> if SeveranceStatusCode (from Request) = 1 for <i>Field not present/required</i> or 2 for <i>Field Required, Date Not Required</i>
456.	Business Rule violation - There must be a value (Numeric – 7.2) for WagesInLieuAmountPaidForWeek in Repeatable Weekly Earnings Verification #<number> if WagesInLieuStatusCode (from Request) = 2 for <i>Field Required, Date Not Required</i> or 3 for <i>Field Required, Date Required, Date Paid</i> or 4 for <i>Field Required, Date Required, Date Allocated</i>
457.	Business Rule violation – There cannot be a value (Numeric – 7.2) for WagesInLieuAmountPaidForWeek in Repeatable Weekly Earnings Verification #<number> if WagesInLieuStatusCode (from Request) = 1 for <i>Field not present/required</i>
458.	Business Rule violation - There must be a value (Date) for WagesInLieuPaidDate in Repeatable Weekly Earnings Verification #<number> if WagesInLieuStatusCode (from Request) = 3 for <i>Field Required, Date Required, Date Paid</i> or 4 for <i>Field Required, Date Required, Date Allocated</i> and WagesInLieuAmountPaidForWeek is > 0
459.	Business Rule violation - There cannot be a value (Date) for WagesInLieuPaidDate in Repeatable Weekly Earnings Verification #<number> if WagesInLieuStatusCode (from Request) = 1 for <i>Field not present/required</i> or 2 for <i>Field Required, Date Not Required</i>
460.	Business Rule violation - There must be a value (Character – Size 60) for PreparerCompanyName if PreparerTypeCode = T for <i>Third Party Administrator</i>
461.	Business Rule violation – AmendedResponseDescription (Character – Size 2000) cannot be empty when AmendedResponse is not null
462.	Responding Employer/TPA does not match the Employer/TPA to which the request was sent
463.	State to which the employer or TPA is responding does not match the State from which the request was sent

C-2.9: Disaster Recovery

C-2.9-1: Connectors shall develop a Disaster Recovery plan.

C-2.9.1.1 State connectors shall re-post all requests (using the file that was previously posted and not regenerate the requests) that were previously posted to the **Central Broker** after the date/time of the disaster declaration.

C-2.9.1.2 Employer / TPA connectors perform the following:

- a. Employer / TPA connectors shall ignore, not process, and dispose of all requests with a BrokerRecordEffectiveDate after the date/time of the disaster declaration.
- b. Employer / TPA connectors shall pull state requests from **Central Broker**.
- c. Employer / TPA shall re-post any responses that were posted after the date/time of the disaster declaration for those requests that have a BrokerRecordEffectiveDate PRIOR to the disaster declaration.
- d. Employer / TPA shall post responses to state connector requests that were re-posted after the disaster declaration date/time when they are available.

C-2.9.1.3 Connectors shall maintain their request/response data for at least 48 hours after it is sent so that if there is a Disaster Recovery declaration they can respond to C-2.9.1.1/C-2.9.1.2 accordingly.

C-2.10: SIDES Employer Website

C-2.10.1 The custom graphics for a State's UI office logo is to be 525 pixels wide and 49 pixels high. Any other dimensions will be stretched or shrunk to fit 525x49.