# Office of Long Term Services and Supports Utah Electronic Visit Verification (UEVV)

**Technical Specifications** 

Version 1.7



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# **Contact**

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# 1. Introduction

The Utah Electronic Visit Verification (UEVV) project's purpose is to employ automated solutions to achieve compliance with Electronic Visit Verification (EVV) requirements in Section 12006 of the 21<sup>st</sup> Century CURES Act. This will allow providers to reduce costs associated with EVV and the State to assure claims/encounters associated with Personal Care Services (PCS) and Home Health Services (HHS) can be validated as required by the Act.

The goal is to develop a system for providers to submit EVV records via two transmission methods: an Application Programming Interface (API) channel and a Secure Web portal channel. Both the API and Web portal channels will also support synchronous status responses (was the transmission accepted or rejected).

### 1.1. Identification

The purpose of this document is to provide guidance to all types of external transmitters about composing and successfully transmitting compliance EVV data submissions to the Utah Medicaid.

The audiences of this document are:

- Provider A Medicaid provider who is required to submit EVV records.
- User A person who works for a Medicaid provider and is submitting the required data on behalf of the provider.
- Software Developer the party who is writing either the origination or the transmission software according to UEVV specifications.
- Transmitter is collectively referred to as Provider, User, or Software Developer who is sending the transactions.

### **1.2. Scope**

This document covers details on composing and submitting required EVV records by transmitters to the Utah Medicaid. The scope of the document addresses the API-application based via Simple Object Access Protocol (SOAP) messages exchanged between external providers applications and Utah Medicaid's exposed Web Service (WS) endpoints, as well as the Web portal-based channel that allow human initiation to securely submit data.

### 1.3. Purpose

The purpose of this document is to provide sufficient technical information to the transmitters so that they are able to compose and submit valid data submissions. The document also addresses how the State's acknowledgement response is transmitted to transmitters, as part of the synchronous session as the records are received.

### **1.4. Definitions, Acronyms and Abbreviations**

Name	Definition	
API	Application Programming Interface	
СА	Certificate Authority	
СРТ	Current Procedural Terminology	
CSV	Comma-Separated Value	
DSPD	Division of Services for People with Disability	
DTS	Department of Technology Services	
EVV	Electronic Visit Verification	
HCPCS	Healthcare Common Procedure Coding System	
HHS	Home Health Services	
HTTPS	Hypertext Transfer Protocol Secure	
IT	Information Technology	
NPI	National Provider Identification	
PCS	Personal Care Services	
PRISM	Provider Reimbursement Information System for Medicaid	
SOAP	Simple Object Access Protocol	
SQL	Structured Query Language	
SSL	Secure Socket Layer	
SSO	Single Sign-On	
UEVV	Utah Electronic Visit Verification	
UTC	Coordinated Universal Time	
WS	Web Service	
WS-Addressing	Web Service Addressing	
XML	Extensible Markup Language	

Table 1: Definitions, Acronyms and Abbreviations

# 2. Interface Overview

The Web interface uses Hypertext Transfer Protocol Secure (HTTPS) for user's data input, submission and receive acknowledgement response. The Utah ID Single Sign-On (SSO) is used to authenticate and authorize user's access to use the portal.

The EVV data is exchanged and encrypted between Transmitters and Utah Medicaid using Secure Socket Layer (SSL) protocol via SOAP message exchange with Extensible Markup Language (XML) file format. The SOAP data structures and XML Schema are specified in this document.

# 3. Secure Web Portal Channel

In this channel, a user is first presented with a SSO login screen where a Utah ID is required to gain access, if authenticated and authorized, the user will be redirected to the Web interface to initiate and submit EVV data.

### 3.1. CSV File

The CSV File method is for third-party software solutions to export electronically captured EVV data in a format the Utah Medicaid system will accept. The CSV File method is not to be used as a manual input method.

To submit CSV files, login to the Utah EVV Portal at: <u>https://evv.medicaid.utah.gov/evvsubmit/</u> click on the button 'Continue to application', choose the file to be uploaded and select 'Upload CSV'.

Download a copy of the CSV template. Use the template to ensure necessary formatting and column order for your CSV to be uploaded to the EVV system. Required fields are marked in the header row with (req) after the column names. If using Excel to adjust the CSV file see <u>Appendix A</u>.

#### Please note:

- 1. If using your own CSV file, the first row will always be treated as a header and thus ignored.
- 2. The file submission process can take a long time, especially for files containing more than 2,000 records. If you have more than 2,000 records to submit, it is recommended to split them into multiple files. Submit each file after receiving the confirmation email from the previous submission.

Depending on the number of records and processing time, you may receive a confirmation displayed on the web page followed by an email confirmation. Larger files take longer and confirmation will be sent via email after processing is complete. The confirmation email will have information regarding the total records sent, rejected, and accepted. Rejected records will need to be corrected and resubmitted.

The follow table displays the user's options:

User Option	Functionality	
"Download CSV template"	Initializes the download process for the CSV template.	
button		
"Choose File" button	Opens the file browser and allows a single CSV file to be uploaded. After selection the file name is displayed adjacent to the button.	
"Upload CSV" button	Initializes the CSV file upload. A status bar will appear and show the progress.	

Table 2:	Upload	CSV	<b>Options and</b>	Functionalities
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### **3.2. EVV Allowed Character Sets**

The following list provides information regarding the different character sets of available symbols used by EVV data elements submitted using the Web portal or CSV.

Character Set	Description	Allowed Symbols	Notes
Numeric	Strictly whole numbers, without decimals,	0123456789	All other symbols are forbidden.
	separating commas or negatives.		Validates against the following regular expression: ^\d+\$
Decimal	Numeric values with optional decimal portions. May be negative. No separating commas.	0123456789	All other symbols are forbidden.
			The minus sign (hyphen) is optional, is allowed only once if used, and must be the first symbol in the entry.
			The decimal point (period) is optional and is allowed only once if used.
			Validates against the following regular expression: ^-?\d+\.?\d*\$
Hexadecimal	Hexadecimal whole numbers, without	0123456789ABC DEF	Lower-case letters are silently capitalized.
	decimals, separating commas or negatives.		All other symbols are forbidden.
			Validates against the following regular expression: ^[A-F0-9]+\$
Alphabetic	Letters of any case only.	abcdefghijklmnop qrstuvwxyzABCD	All other symbols are forbidden.
		EFGHIJKLMNOP QRSTUVWXYZ	Validates against the regular expression:
			^[A-Za-z]+\$

 Table 3: The Available EVV Character Sets

Character Set	Description	Allowed Symbols	Notes
Alphanumeric	Letters of any case, and whole numbers. No spacing, decimals, separating commas, or negatives.	abcdefghijklmnop qrstuvwxyzABCD EFGHIJKLMNOP QRSTUVWXYZ0 123456789	All other symbols are forbidden. Validates against the following regular expression: ^[A-Za-z0-9]+\$
Plain Text	Mostly arbitrary text with certain forbidden symbols.	Any except those forbidden (see notes).	The following symbols are replaced with white space: \t\u00A0\u1680\u180e\u2 000\u200a\u2007\u202f\u 205f\u3000 The following symbols will either be silently removed or are forbidden: ;<>{}\=&#'</td></tr><tr><td>Date</td><td>A date string with a fixed format.</td><td>See notes.</td><td>The date string must match the general pattern of M/D/YYYY where: - M is a one- or two- digit month (1-12) - D is a one- or two- digit day (1-31, size of month permitting) - YYYY is a four-digit year Leading zeroes on month and day are allowed, but not required. The forward slashes are required.</td></tr><tr><td>Time</td><td>A time string with a fixed format.</td><td>See notes.</td><td>The time string must match the general pattern of H:M:S or H:M:S A where: - H is a one- or two- digit hour (1-12 or 0- 23) - M is a one- or two- digit minute (0-59) - S is a one- or two- digit second (0-59)</td></tr></tbody></table>

Character Set	Description	Allowed Symbols	Notes
			<ul> <li>A is an optional meridiem (AM or PM)</li> </ul>
			If the meridiem is not given, the hour must be given as a 24-hour style instead of only 12.
			The seconds value is required, but can be set to 0.
			Leading zeroes are allowed but not required.
			The separating colons around minutes are required.
			The trailing space after seconds is required only if the meridiem is given.

### **3.3. EVV Data Elements**

The following table provides information regarding the required input EVV data elements using the Web portal or CSV.

Data Elements	Data Description	Required	Expected Format (Allowed Length)
Member	Member ID – Medicaid Member ID	Yes	Numeric (9-10)
	First name	Yes	Plain Text (1-255)
	Middle initial	No	Plain Text (0-255)
	Last name	Yes	Plain Text (1-255)
Service	Service Code (HCPCS/CPT code or DSPD service code)	Yes	Alphanumeric (3-5) **
	Service Description	No	Plain Text (0-255)
Servicing Provider	Provider PRISM ID (preferred) or Provider NPI	Yes	Numeric (4-12) ***

 Table 4: The Input EVV Data Elements

Data Elements	Data Description	Required	Expected Format (Allowed Length)
	Name of employee performing service	Yes	Plain Text (1-255)
Begin Date of	Begin date	Yes	Date
Service	Start time	Yes	Time
Beginning	Begin Street Address	Yes*	Plain Text (1-255)
Service location	Begin Apt/Suite/Floor	No	Plain Text (0-255)
location	Begin City	Yes*	Plain Text (1-60)
	Begin State	No	Plain Text (0-20)
	Begin Zip	No	Plain Text (0-10)
	Begin Geo Latitude	No*	Decimal (0-38) ****
	Begin Geo Longitude	No*	Decimal (0-38) ****
			Example:
			28.523
End Date of	End date	Yes	Date
Service	End time	Yes	Time
Ending	End Street Address	Yes*	Plain Text (1-255)
Service location	End Apt/Suite/Floor	No	Plain Text (0-255)
location	End City	Yes*	Plain Text (1-60)
	End State	No	Plain Text (0-20)
	End Zip	No	Plain Text (0-10)
	End Geo Latitude	No*	Decimal (0-38) ****
	End Geo Longitude	No*	Decimal (0-38) ****
			Example:
			-28.523
Receipt ID	Original Receipt-ID of previous submitted record. <b>Required if</b> <b>submit a correction record.</b>	No	Hexadecimal (32)
Batch ID	Submitter may select the method to create Batch IDs. <b>Required.</b>	Yes	Numeric (1-10)

Data Elements	Data Description	Required	Expected Format (Allowed Length)
	Original Batch-ID of previous submitted record, if submitting a correction.		
Record ID	Submitter may select the method to create Record IDs. <b>Required.</b>	Yes	Numeric (1-10)
	Original Record ID of previous submitted record, if submitting a correction.		
EVV Vendor	EVV Solution Vendor Name	Yes	Plain Text (1-255)

**NOTE**: \*Address/City OR GPS info is required for Service Begin and Service End. Combinations are allowed, e.g. BeginAddress1/BeginCity with EndGeolatitude/EndGeolongitude OR BeginGeolatitude/BeginGeolongitude with EndAddress1/EndCity.

\*\* Hyphens, underscores, and spaces will be silently stripped from the Service Code and do not count against the allowed length of the field.

\*\*\* A provider ID (NPI or PRISM ID) cannot have more than 5 leading zeroes.

\*\*\*\* Latitude and longitude allowed lengths includes negative signs and decimal points; only up to 10 digits are permitted past the decimal point.

### **3.4. Input Data Validations and Error Message**

The Web application will check for valid input data fields and the table below provides information regarding the front-end validation and error messages.

Input Field	Data Input Validations	Error Message
Member ID	• If empty	• The member ID field is empty.
	• If non-numeric value	• The member ID field must consist of numbers only.
	• If under minimum length	• The member ID field is too short.

#### Table 5: Input Data Validations and Error Messages:

Input Field	Data Input Validations	Error Message
	• If over maximum length	• The member ID field is too long.
First Name	• If empty	• The first name field is empty.
	• If over maximum length	• The first name field is too long.
Middle Initial	• If over maximum length	• The middle initial field is too long.
Last Name	• If empty	• The last name field cannot be empty.
	• If over maximum length	• The last name field is too long.
Service Code	• If empty	• The service code field cannot be empty.
	• If over maximum length	• The service code field is too long.
	• If under minimum length	• The service code field is too short.
	• If there are invalid characters	• The service code must consist of only letters, numbers, hyphens, underscores, or spaces.
Service Description	• If over maximum length	• The service description is too long.
Provider ID	• If empty	• The provider ID cannot be empty.
	• If over maximum length	• The provider ID is too long.
	• If under minimum length	• The provider ID is too short.
	length	

Input Field	Data Input Validations	Error Message
	• If non-numeric value	• The provider ID must consist of numbers only.
	• If over maximum leading-zero count	• The provider ID has too many leading zeros.
Employee Performing Service	• If empty	• The employee providing the service cannot be empty.
	• If over maximum length	• The employee providing the service is too long.
Start Date/ Start Time	• If invalid format	• The begin date or begin time fields are incorrectly formatted.
	• If set to a future date.	• The begin date and time cannot be in the future.
End Date/ End Time	• If invalid format	• The end date or end time fields are incorrectly formatted.
	• If set to a future date	• The end date and time cannot be in the future.
General Start/End Date/Time	• If starting after ending.	• End Service date and time should be greater than Begin Service date and time.
Constraints *	• If over maximum age.	• Service date and time cannot exceed 1 year from Date of Service.
	• If over maximum duration.	• Service duration cannot exceed 24 hours.
Begin Street Address	• If empty (without Begin Geo latitude and Begin Geo longitude).	• The begin address field cannot be empty if the begin latitude and longitude fields are not provided.
	• If over maximum length.	• The begin address field is too long.
Begin Apt.	• If over maximum length.	• The begin apt/suite/floor field is too long.
Begin City	• If empty (without Begin Geo	• The begin city field cannot be empty if the begin latitude and longitude fields are not provided.

Input Field	Data Input Validations	Error Message
	latitude and Begin Geo longitude).	
	• If over maximum length.	• The begin city field is too long.
Begin State	• If over maximum length	• The begin state field is too long.
Begin Zip	• If over maximum length.	• The begin ZIP field is too long.
Begin Geo Latitude	• If non-decimal value.	• The begin geo latitude field must be a decimal value.
	• If fractional component over maximum length.	• The fractional component of the begin geo latitude field is too long.
	• If over maximum length.	• The begin geo latitude field is too long.
Begin Geo Longitude	• If non-decimal value	• The begin geo longitude field must be a decimal value.
	• If fractional component over maximum length.	• The fractional component of the begin geo longitude field is too long.
	• If over maximum length.	• The begin geo longitude field is too long.
General Begin Street Address/City and Geo Lat/Long Constraints *	• If at least one pair of fields does not exist.	• Either the begin address and city fields must be provided or the begin latitude and longitude fields must be provided.
End Street Address	• If empty (without End Geo latitude and End Geo longitude).	• The end address field cannot be empty if the end latitude and longitude fields are not provided.
	• If over maximum length.	• The end address field is too long.

Input Field	Data Input Validations	Error Message
End Apt.	• If over maximum length.	• The end apt/suite/floor field is too long.
End City	• If empty (without End Geo latitude and End Geo longitude).	• The end city field cannot be empty if the end latitude and longitude fields are not provided.
	• If over maximum length.	• The end city field is too long.
End State	• If over maximum length.	• The end state field is too long.
End Zip	• If over maximum length.	• The end ZIP field is too long.
End Geo Latitude	• If non-decimal value.	• The end geo latitude field must be a decimal value.
	• If fractional component over maximum length.	• The fractional component of the end geo latitude field is too long.
	• If over maximum length.	• The end geo latitude field is too long.
End Geo Longitude	• If non-decimal value	• The end geo longitude field must be a decimal value.
	• If fractional component over maximum length.	• The fractional component of the end geo longitude field is too long.
	• If over maximum length.	• The end geo longitude field is too long.
General End Street Address/City and Geo Lat/Long Constraints *	• If at least one pair of fields does not exist.	• Either the end address and city fields must be provided, or the end latitude and longitude fields must be provided.
Original Receipt ID	• If empty (if submitting a correction)	• The original receipt ID field cannot be empty when submitting a correction.

Input Field	Data Input Validations	Error Message
Batch ID	• If empty	• The batch ID field cannot be empty.
	• If non-numeric value	• The batch ID field must consist of numbers only.
	• If over maximum length	• The batch ID field is too long.
Record ID	• If empty	• The record ID field cannot be empty.
	• If non-numeric value	• The record ID field must consist of numbers only.
	• If over maximum length	• The record ID field is too long.
EVV Vendor	• If empty	• The EVV Vendor field cannot be empty.
	• If over maximum length	• The EVV Vendor field is too long.

**NOTE**: \* Given input fields are not actual fields but represent the combination of one or more previously listed fields whose validation constraints interconnect.

### 3.5. Receiving Submission Acknowledgement Response

Note: It is important for the user to capture and save this information for future reference, should they need to submit a correction to replace this record.

Once a record is submitted, the acknowledgement response (including the Receipt ID, Batch ID and Record ID) displays on the screen for the user's records and future reference.

Figure 1: Web Portal Submission Status and Acknowledgement

```
You have successfully submitted your record. Please record the following receipt ID, batch ID, and record number in case you need to submit a correction:
Receipt ID: 2d3237363039363333353132313338
Batch ID: 1
Record No: 1
```

### **3.6.** Correcting a Previous Entry

To submit a correction to a previous record, you will need to have the Original Receipt ID, Batch ID, and Record ID from the previous submission to populate the CSV template.

In the CSV template, it is important the "Orig\_receipt\_id" column is formatted as text. Otherwise, the system will truncate the entry and the file will fail.

Check the Correction checkbox then upload the CSV file.

### **3.7. Submitting Data for Testing Purposes**

As of October 5, 2023, Utah Medicaid will require all EVV data submitters to submit a successful Test message prior to receiving Production access. This requirement is for all providers submitting EVV data regardless of successful data submissions prior to October 5, 2023.

To submit test data (for example, while testing the initial setup of a new submission process), you must check the "Data is for Testing Purposes" checkbox before uploading the CSV file.

This can be done with either new or corrected data. Data submitted for testing purposes is expected to be transient in nature and may be removed from the system at any time.

If your account does not have access granted for the test environment (or the production environment when not checking the "Data is for Testing Purposes" checkbox), the submission will be rejected with a permissions error.

```
Receipt ID: 2d373636333031323837343231343431
Total Records Submitted: 2
Accepted: 0
Rejected: 2
```

There was an issue with your submission. The following records need to be corrected and resubmitted: An error occurred: You do not have permission to submit these records. Verify you are submitting to the correct environment or contact us at DMHF\_EVV@Utah.gov to resolve the issue

# 4. API Channel

In this channel, records are transmitted using the SOAP Web Services request-response model. An active provider's SSL Certificate must be sent to Utah Medicaid to be installed in the system in advance. Once the certificate is received and stored in the database, a Web Service Description Language (WSDL) endpoint will be communicated to the provider's identified responsible official or contact representative for the provider to set up and start the data submission.

The file submission SOAP messages from the providers are encrypted and will carry the authentication key in file's header for authentication and authorization process. The acknowledgement of file receipt will be returned as a synchronous XML SOAP message to the submitting providers.

A transmission consists of two parts: the Header and the Data File.

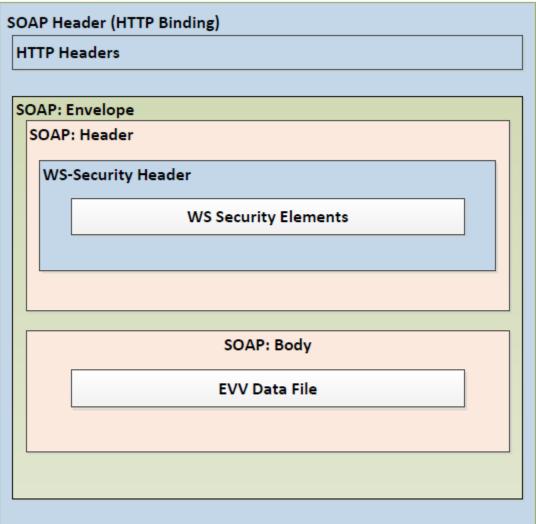
- The Header contains information about the transmitter, transmission and the payload
- The Data file contains one or more submissions in XML format

### 4.1. Basic SOAP Message Structure

A SOAP message is an XML structure consisting of *SOAP Envelope, SOAP Header and SOAP Body* which may contain payload data. A SOAP message starts with an XML declaration <?xml version="1.0" encoding="UTF-8"?>. The following section explains various segments and aspects of a SOAP message available to the transmitters. Please be advised that this document is not intended as a tutorial and therefore covers only important aspects of a SOAP message. Please refer to www.w3.org/TR/soap/ and other authoritative websites for more information.

The below figure describes the logical structure of basic messages with a SOAP Header and SOAP Body blocks within a SOAP Message Envelope. A SOAP message contains one SOAP Header and one SOAP Body within one SOAP Envelope.

- The SOAP Header contains the Web Services Addressing (WS-Addressing) and WS-Security,
- The SOAP Body contains the payload structure for the required EVV data file to be submitted.



#### Figure 2: An Example of SOAP Message Structure:

#### 4.1.1. Creating the SOAP Envelope

The SOAP Envelope consists of a SOAP header and a SOAP body. The SOAP header contains information about the transmitter, the transmission and metadata about the payload in the SOAP body. The SOAP body is also referred to as the content file, EVV Data File or simply payload.

#### 4.1.2. SQL Injection in the SOAP Message

The special characters listed below are treated as Structured Query Language (SQL) injections. SQL injections exploit security vulnerabilities in an application's software and are mostly known as an attack vector for websites or API communication between two sources. These may allow attackers to spoof identity, tamper with existing data, cause repudiation issues such as voiding transactions or changing balances, allow the complete disclosure of all data on the system, or destroy the data. Characters that are not allowed due to concerns about SQL Injections are shown in this table. If needed, the escape characters shown below can be used and are allowed.

Character	Character Description	Character Allowed?	Escape Characters	Escape Character Allowed
&	Ampersand	Rejected (malformed check)	&	Allowed
۰	Apostrophe	Rejected (sql injection check)	'	Allowed
"	Quotation Mark	Allowed	"	Allowed
	Double Dash	Rejected (sql injection check)	Not Available	N/A
#	Hash Key	Rejected (sql injection check)	Not Available	N/A
<	Less Then	Rejected (malformed check)	<	Allowed
>	Greater Than	Allowed	>	Allowed

Table 6: SQL Injection In The SOAP Message

**Note**: Allowed escaped characters may be identified as a potential threat (Error Code TPE 1204) when they are used in conjunction with certain words such as "and" and "or", as in "'OR". If this occurs troubleshoot by removing the apostrophe.

### 4.2. SOAP Header

Utah Medicaid defines what should be in the SOAP header. The following sections describe the elements in the SOAP header.

#### 4.2.1. WS-Security

Utah Medicaid EVV Web Services comply with Web Services Security (WS-Security) specification version 1.0 for implementing end to end message security. It is an open standard published by OASIS that defines mechanisms for signing and encrypting SOAP messages and provides transport-neutral mechanisms to enforce integrity and confidentiality on messages and allows the communication of various security token formats.

WS-Security defines SOAP extensions to implement client authentication, message integrity and message confidentiality on the message level. Authentication helps identify the Sender (the transmitter). Message integrity ensures the recipient receives unaltered requests. XML Signature specification ensures integrity of the message, which defines a methodology for

cryptographically signing XML. Message confidentiality is to make sure that the data can't be read during transit. The XML Encryption specification is the basis to encrypt the parts of SOAP message including headers, body blocks, and substructures, which may be encrypted.

To consume Utah Medicaid EVV web services, transmitter must use the X.509 authentication framework with the WS-Security specification. An X.509 certificate specifies a binding between a public key and a set of attributes that includes (at least) a subject name, issuer name, serial number, and validity interval. An X.509 certificate may be used to validate a public key that may be used to verify a SOAP message element or to identify the public key with SOAP message that has been digitally signed.

### 4.2.1.1. Creating the XML Signature

The signatures are defined using a <Signature> element and accompanying sub-elements as part of a security header. Note that the signature must be created after the content of the message is finalized. If changes are made to the message after the signature is created, it may result in a digest mismatch.

Below is a quick overview of how to create an XML signature. Note that XML Digital Signature APIs and XML Digital Signature libraries are also publicly available that may simplify development. An overview and tutorial can be found using the following URL: <a href="http://docs.oracle.com/javase/7/docs/technotes/guides/security/xmldsig/XMLDigitalSignature.html">http://docs.oracle.com/javase/7/docs/technotes/guides/security/xmldsig/XMLDigitalSignature.html</a>

#### 1. Determine which resources are to be signed.

#### 2. Calculate the digest for each resource:

Each referenced resource is specified through a <Reference> element and its digest (calculated on the identified resource and not the <Reference> element itself) is placed in a <DigestValue> child element mentioned in XML snippet below.

The <DigestMethod> element identifies the algorithm used to calculate the digest.

#### **3.** Collect the Reference elements:

Collect the <Reference> elements (with their associated digests) within a <SignedInfo> element as shown below. Note that InclusiveNamespaces cannot be a child element of the CanonicalizationMethod element.



The <CanonicalizationMethod> element indicates the algorithm was used to canonize the <SignedInfo> element. Different data streams with the same XML information set may have different textual representations, e.g. differing as to whitespace. The <SignatureMethod> element identifies the algorithm used to produce the signature value.

#### 4. Signing:

Calculate the digest of the <SignedInfo> element, sign that digest and put the signature value in a <SignatureValue> element.

<ds:SignatureValue>SignatureValue</ds:SignatureValue>

#### 5. Add key information:

If keying information is to be included, place it in a <KeyInfo> element. Here the keying information contains the X.509 certificate for the transmitter, which would include the public key needed for signature verification.

#### 6. Enclose in a Signature element

Place the <SignedInfo>, <SignatureValue>, and <KeyInfo> elements into a <Signature> element. The <Signature> element comprises the XML signature.

```
<ds:Signature Id="SIG-E68EBBF1696C5DD4AA143353323390579"
xmlns:ds="http://www.w3.org/2000/09/xmldsig#">
<ds:SignedInfo>
<ds:SignatureMethod .../>
<ds:CanonicalizationMethod .../>
<ds:Reference .../>
<ds:Reference .../>
<ds:Reference .../>
<ds:Reference .../>
<ds:SignatureValue>?SignatureValue?</ds:SignatureValue>
<ds:KeyInfo Id="KI-E68EBBF1696C5DD4AA143353323390475".../>
</ds:Signature>
```

#### 4.2.1.2. Message Timeout

WS-Security provides the <Timestamp> header that can be used to record creation and expiration time of a request message. Note that the WS Timestamp must be used within 30 minutes of creation time based on Coordinated Universal Time (UTC).

#### 4.2.1.3. SOAP Header Example Showing Security Header and Related Elements

Below is a sample SOAP message transmission.

#### Figure 3: A Sample an EVV SOAP Envelope

```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/" xmlns:wsa='
http://www.w3.org/2005/08/addressing">
  <env:Header>
     <wsa:MessageID>urn:4252e5ea-eae5-11e9-aa90-fd733cd5c9e7</wsa:MessageID>
     <wsa:ReplyTo>
        <wsa:Address>http://www.w3.org/2005/08/addressing/anonymous</wsa:Address>
        <wsa:ReferenceParameters>
          <instra:tracking.compositeInstanceCreatedTime xmlns:instra="</pre>
          http://xmlns.oracle.com/sca/tracking/1.0">2019-10-09T16:36:37.674-06:00
          </instra:tracking.compositeInstanceCreatedTime>
       </wsa:ReferenceParameters>
     </wsa:ReplyTo>
     <wsa:FaultTo>
        <wsa:Address>http://www.w3.org/2005/08/addressing/anonymous</wsa:Address>
        <wsa:ReferenceParameters>
          <instra:tracking.compositeInstanceCreatedTime xmlns:instra="</pre>
          http://xmlns.oracle.com/sca/tracking/1.0">2019-10-09T16:36:37.674-06:00
          </instra:tracking.compositeInstanceCreatedTime>
       </wsa:ReferenceParameters>
     </wsa:FaultTo>
     <wsse:Security env:mustUnderstand="1" xmlns:wsse="</pre>
     http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd">
       <wsse:BinarySecurityToken ValueType=""
       http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-x509-token-profile-1.0#X509v3"
       EncodingType='
       http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-soap-message-security-1.0#Base64Bin
       ary" wsu:Id="BST-OpEYpsAeAwpvt3FMKwHAbw22" xmlns:wsu="
       http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd">
       VBAcTD1NhbHQgTGFrZSBDaXR5MQ8wDQYDVQQKEwZIZWFsdGgxDDAKBgNVBAsTA0RUUzETMBEGA1UEAxMKU09BUENsaW
       VudDAeFw0xOTEwMDcyMjI3MTFaFw0yOTA4MTUyMjI3MTFaMGcxCzAJBgNVBAYTA1VTMQswCQYDVQQIEwJVVDEXMBUGA
       1UEBxMDU2FsdCBMYWt1IENpdHkxDzANBgNVBAoTBkh1YWx0aDEMMAoGA1UECxMDRFRTMRMwEQYDVQQDEwpTT0FQQ2xp
        ZW50MIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEAoU+ImidmHiUxvYkYdVuJYGF7YR0au3uPP1uhaw4RGI1
        jPA9LWaWHP1TsZf4beZ0mM31a223c8hfRMhYCpz44LxL9CnkpB6Dc6dI1SF+v/XdGH1ZEjIPVQLjNWcM/crV1WRE+nO
        exjaQP61rdyHZ49HTQ4+zPXuGFKoFdNUkutNbFZVwSySQkMvNuAeaB91WXgzOYmID8fPQZuH52Do9Ms5j4SQvONeYIr
        wzlhKJru4rwCF2fbD8s0161vi1dpenOIjhLvvOcwTPo3vvnFz5wxp724feaP0auzC42D0g8gfxUtfeXnkL71guTG/dc
        Q098fuPiX194FImTm/1gyzkxhdS+22/LbgDKIOWGTK5NOyzjGq5racN6cpRNL+VzviGLuAgz82CrQHKUXjX90sxnfBz
       10qySAH2Ux4tOnkoBVcZQe0yEQC2g3F1tu641t2QkcsA4DYnR9VwMspkjLfCmsyhWeoYWGPtN1iuJJbSg1X0//72nPL
        /2Y4QnwUT7/aEu11xH3pyerayHoM+hj+Dep5yO2+XXq6FODOB9jwvjEbnwkwZS81Pf9tJvZjgIfjWHdJZeM=
        </wsse:BinarySecurityToken>
```

	nc:EncryptedKey xmlns:xenc="http://www.w3.org/2001/04/xmlenc#">
	<pre><xenc:encryptionmethod algorithm="http://www.w3.org/2001/04/xmlenc#rsa-oaep-mgf1p"></xenc:encryptionmethod></pre>
	<pre><dsig:digestmethod algorithm="http://www.w3.org/2000/09/xmldsig#sha1" xmlns:dsig="&lt;/pre&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;http://www.w3.org/2000/09/xmldsig#"></dsig:digestmethod></pre>
	<dsig:keyinfo xmlns:dsig="http://www.w3.org/2000/09/xmldsig#"></dsig:keyinfo>
	<wsse:securitytokenreference></wsse:securitytokenreference>
	<pre><wsse:reference uri="#BST-OpEYpsAeAwpvt3FMKwHAbw22" valuetype="&lt;/pre&gt;&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;: :&lt;/td&gt;&lt;td&gt;http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-x509-token-profile-1.0#X50&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;9v3"></wsse:reference></pre>
	<pre><xenc:cipherdata></xenc:cipherdata></pre>
	<renc:ciphervalue></renc:ciphervalue>
	OI2YloRkz7/aXrdrBNizcPnhPro9hh4FF8ejMP3ig5PLEe9UF+Qj5aKKmgZwRBJb+1O7Y3b7N8hy
	Th2YYrDa2w5FUFcDRXiAnxDz5PWYDCVddr7upoL0Ldm6oRB0YJGKXjELvtFBzmpLJJx8XX7F/Y9G
	ABleTn7TD85mvYx8lsp3yaMer5Ka5H3YHtt8uWlXfFy9+7nz6Rte3sv+9IEwQWLYnI+mlA2sxLi4
	Uwb0iytJFCvwwSrAN8BZzoiWrvj7cDW4Kg2AbEoXpK8dQ/Ux+TkMF47WZbYdI6Rr5WimY5zo2kPU
	ILO1OuajUO7CC1c41G+0DGuqSxPhxorJKR412Q==
	<pre></pre> //xenc:CipherData>
	<pre><rul><li></li></rul></pre> <pre></pre>
	<pre><xenc:datareference uri="# zx2BTJ7bHS7dP00hmeyEmQ22"></xenc:datareference></pre>
	<pre></pre> //xenc:ReferenceList>
	enc:EncryptedKey>
	u:Timestamp wsu:Id="Timestamp-1k6Os3KEu54uTAeYE121NQ22" xmlns:wsu="
htt	<u>p://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd</u> ">
	<wsu:created>2019-10-09T22:36:39Z</wsu:created>
	<wsu:expires>2019-10-13T09:56:39Z</wsu:expires>
<th>su:Timestamp&gt;</th>	su:Timestamp>
	e:BinarySecurityToken ValueType="
http	<u>)://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-x509-token-profile-1.0#X509v3</u> "
Enco	dingType="
http	://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-soap-message-security-1.0#Base64Bin
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ary" http	' wsu:Id="BST-JAOvMQQRyqpXpgV0LT4wag22" xmlns:wsu=" )://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd">
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                9v3"/>
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 </env:Body>
/env:Envelope>
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#### 4.2.1.4. Digital Certificates

Digital certificates bind digital information to physical identities and provide non-repudiation and data integrity. Before you begin the enrollment process, each entity should obtain one valid digital certificate issued by an approved certificate authority (CA) and sends to Utah Medicaid to be stored in the database; the State only recognizes and accepts submissions from providers who have a valid certificate in the system. There should only be one certificate per submitting provider, and it should not be used by any other service.

A provider's authorized representative obtains a digital certificate from their Information Technology (I.T.) department and securely sends the certificate to Utah Medicaid's EVV contact person who is responsible for documenting and forwarding the certificate to the responsible team at Department of Technology Services (DTS) for installation. The WSDL will then be created and communicated by the State to the provider's authorized official to be set up for file exchanges.

# 4.3. SOAP Body

The SOAP Body contains encrypted payload of the submission Data File by the transmitter application. The <EncryptionMethod> element identifies the algorithm used to encrypt the data file as shown below.

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     xhmMlZus86wIVv9cQcG5Zf3k1x2VxmIcSEBrhmM/yNkKp16DUfuDryYJGNBpIPA/feYX3fc6jab9
     Gf3CY8rDg1GWMVRYCXdqxXgGrmGEibfaXAU8b1rR4G/tX56/1H/mKdOIDNNaiAwe+R/zp1609oWk
      6G+yOrXwcf4pUUA/fBV0i8wbEN07d8lWTcgDYyHSpH+ssZGnO/olLKZcfDvNLpNpi19t7yB0Djvq
     Zso3MFYXpHTRZ3xDmCoumskmWQ7RO2uHvAcp8Ff1PWs0ojDa7t0g02+oxZqZRDu2ilv9uyI+YACy
      8hQ90BPmdOpNeuSRZ6F6ZZF+T/APpHBJI67SF5TmDGRRDOJrstxuJacb0aah8W0wyQKr0YNa5Fsu
      5NoTN8rBDzkugoHx8dHOhkjjcNH3k2WF7M9iRRh6UOt/LJZQSHgsMHerSx817a5qg6i8WsIlcub8
      76EN75DcRqFqGSd+Y/qXAnBJ9Pj3WlmnqpcuNe8CGk1Hv6v6wym2OD6MF07AY5ChzRPfE0JoiayC
      /8h4YZ7O6x/n+hFKtxx3ek5Ea76XdQE1WrtIXwLRC8sjJ2gr9JC1mPw6FSzHkwktn2A/TyOxFs5/
      QE21N6PwePvSyz/VUhyF</xenc:CipherValue>
   </xenc:CipherData>
</xenc:EncryptedData>
```

# 4.4. Guidelines for Composing EVV Data File

Below are general guidelines for composing the submission Data File:

- 1. The data file can only contain valid uncompressed and unencrypted XML.
- 2. The data file must contain at least one (1) and cannot exceed 10,000 records per transmission.

### 4.5. Structure of EVV Submission Data File

The submission data file uses the XML schema as displayed below.

#### Figure 4: EVV Data File XML Schema

<pre><xsd:element maxoccurs="1" minoccurs="1" name="batch_id" type="int"></xsd:element> <xsd:element maxoccurs="1" minoccurs="1" name="record_id" type="int"></xsd:element> <xsd:element maxoccurs="1" minoccurs="1" name="member_id" type="string"></xsd:element> <xsd:element maxoccurs="1" minoccurs="1" name="last_name" type="string"></xsd:element> <xsd:element maxoccurs="1" minoccurs="1" name="first_name" type="string"></xsd:element> <xsd:element maxoccurs="1" minoccurs="0" name="mindle_init" type="string"></xsd:element> <xsd:element maxoccurs="1" minoccurs="0" name="service_code" type="string"></xsd:element> <xsd:element maxoccurs="1" minoccurs="1" name="service_desc" type="string"></xsd:element> <xsd:element maxoccurs="1" minoccurs="1" name="service_desc" type="string"></xsd:element> <xsd:element maxoccurs="1" minoccurs="1" name="service_desc" type="string"></xsd:element> <xsd:element maxoccurs="1" minoccurs="1" name="provide_npi" type="string"></xsd:element> <xsd:element maxoccurs="1" minoccurs="1" name="beg_date_svc" type="string"></xsd:element> <xsd:element maxoccurs="1" minoccurs="1" name="name_of_aide" type="string"></xsd:element> <xsd:element maxoccurs="1" minoccurs="1" name="servide_date_svc" type="string"></xsd:element> <xsd:element maxoccurs="1" minoccurs="1" name="end_date_svc" type="dateTime"></xsd:element> <xsd:element maxoccurs="1" minoccurs="1" name="end_date_svc" type="attring"></xsd:element> <xsd:element maxoccurs="1" minoccurs="1" name="end_date_svc" type="dateTime"></xsd:element> <xsd:element maxoccurs="1" minoccurs="1" name="end_date_svc" type="dateTime"></xsd:element> <xsd:element maxoccurs="1" minoccurs="1" name="end_date_svc" type="attring"></xsd:element> <xsd:element minoccurs="1" name="end_date_svc" type="dateTime"></xsd:element> <xsd:element maxoccurs="1" minoccurs="1" name="end_date_svc" type="dateTime"></xsd:element> <xsd:element minoccurs="1" name="end_date_svc" type="dateTime"></xsd:element> <xsd:element minoccurs="1" name="end_date_svc" type="int"></xsd:element> <xsd:element minoccurs="1" name="end_date_svc" type="int"></xsd:element></pre>	d:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns="http://www.w3.org/2001/XMLSchema"
<pre>cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:complexType= cash:com</pre>	<pre>jetNamespace="http://xmlns.oracle.com/evv data" elementFormDefault="qualified"&gt;</pre>
<pre>cstd:sequence&gt; cstd:sequence&gt; cstd:sequence&gt; cstd:setuent name="transmit_type" type="string" minOccurse"1" maxOccurse"1"/&gt; cstd:setuent name="twnlitufty" type="string" minOccurse"1" maxOccurse"1"/&gt; cstd:setuent name="twnlitufty" type="string" minOccurse"1" maxOccurse"1"/&gt; cstd:setuent name="twnlitufty" type="string" minOccurse"1" maxOccurse"1"/&gt; cstd:setuent name="twnlitufty" type="string" minOccurse"1" cstd:setuent name="twnlitufty" type="string" minOccurse"1" cstd:setuent name="twnlitufty" type="string" minOccurse"1"/&gt; cstd:setuent name="twnlitufty" cstd:setuent name="twnlitufty" cstd:setuent name="twnlitufty" cstd:setuent name="twnlitufty" cstd:setuent name="twnlitufty" cstd:setuent name="twnlitufty" cstd:setuent name="twnlitufty" cstd:setuent name="twnlitufty" cstd:setuent name="twnlitufty" cstd:setuent name="transe" cstd:setuent name="transe" cstd:setuent name="transe" cstd:setuent name="transe" type="tring" minOccurse"1" maxOccurse"1"/&gt; cstd:setuent name="transe" trans_mame" type="tring" minOccurse"1" maxOccurse"1"/&gt; cstd:setuent name="transe" transmit_type="tring" minOccurse"1" maxOccurse"1"/&gt; cstd:setuent name="transe" trans_mame" type="tring" minOccurse"1" maxOccurse"1"/&gt; cstd:setuent name="tervice_cdes" type="tring" minOccurse"1" maxOccurse"1"/&gt; cstd:setuent name="tervice_des" type="tring" minOccurse"1" maxOccurse"1"/&gt; cstd:setuent name="tegin_dite_wro" type="tring" minOccurse"1" maxOccurse"1"/&gt; cstd:setuent name="begin_dite_wro" type="tring" minOccurse"1" maxOccurse"1"/&gt; cstd:setuent name="begin_dite_wro" type="tring" minOccurse"1"/&gt; cstd:setuent name="begin_dite_wro" type="tring" minOccurse"1" maxOccurse"1"/&gt; cstd:setuent name="begin_dite_wro" type="tring" minOccurse"1"/&gt; cstd:setuent name="begin_dite_wro" type="tring" minOccurse"1"/&gt; cstd:setuent name="begin_dite" type="tring" minOccurse"1"/&gt; cstd:setuent name="begin_dites" type="tring" minOccurse"1"/&gt; cstd:setuent name="begin_dites" type="tring" minOccurse"1"/&gt; cstd:setuent name="begin_dites" type="tring" minOccurse"1"/&gt; cstd:setuent name="de</pre>	
<pre>casdielement name="user_id" type="string" minOccurs="1"/&gt; casdielement name="submit_type" type="string" minOccurs="1"/&gt; casdielement name="submit_type" type="string" minOccurs="1"/&gt; casdielement name="submit_type" type="string" minOccurs="1"/&gt; casdielement name="submit_type" type="string" minOccurs="1", casdielement name="submit_type" type="string" minOccurs="1", casdielement name="submit_type" type="string" minOccurs="1", casdielement name="submit_type", casdielement name="submit_type", casdielement name="submit_type", casdielement name="submit_type", casdielement name="submit_type", casdielement name="submit_type="string" minOccurs="1", casdielement name="submit_tat", casdielement name="service_ded", casdielement name="service_dedd", casdiele</pre>	
<pre>cdd:element name="remult_type" type="string" minOccurs="1" maxOccurs="1"/&gt; cdd:element name="ammit_timg" type="string" minOccurs="1" maxOccurs="1"/&gt; cdd:element name="swiitimg" minOccurs="1" minOccurs="1"/&gt; cdd:element name="soto_id" type="string" minOccurs="1"/&gt; cdd:element name="soto_id" type="string" minOccurs="1"/&gt; cdd:element name="soto_id" type="string" minOccurs="1"/&gt; cdd:element name="soto_id" type="string" minOccurs="1"/&gt; cdd:element name="medut_int" type="string" minOccurs="1"/&gt; cdd:element name="string_id" type="string" minOccurs="1"/&gt; cdd:element name="string_id" type="string" minOccurs="1"/&gt; cdd:element name="string_id="type="string" minOccurs="1"/&gt; cdd:element name="st</pre>	
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<pre><ssd:element maxoccurs="1" minoccurs="0" name="exvironment_flag" type="string"></ssd:element> <ssd:complextype> <ssd:selement maxoccurs="1" minoccurs="1" name="two_pata"> <ssd:complextype> <ssd:selement maxoccurs="1" minoccurs="0" name="main_record"></ssd:selement> <ssd:selement maxoccurs="1" minoccurs="0" name="main_record"></ssd:selement> <ssd:selement maxoccurs="1" minoccurs="0" name="tecord_id" type="string"></ssd:selement> <ssd:selement maxoccurs="1" minoccurs="1" name="tecord_id" type="string"></ssd:selement> <ssd:selement ma<="" minoccurs="1" name="tecord_id" td="" type="string"><td></td></ssd:selement></ssd:complextype></ssd:selement></ssd:complextype></pre>	
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<pre>     (xsd:element name="bath_id" type="int" minOccurs="1" maxOccurs="1"/&gt;     (xsd:element name="record_id" type="int" minOccurs="1" maxOccurs="1"/&gt;     (xsd:element name="int_name" type="string" minOccurs="1" maxOccurs="1"/&gt;     (xsd:element name="int_name" type="string" minOccurs="1" maxOccurs="1"/&gt;     (xsd:element name="int_name" type="string" minOccurs="1" maxOccurs="1"/&gt;     (xsd:element name="service_oode" type="string" minOccurs="1" maxOccurs="1"/&gt;     (xsd:element name="service_dede" type="string" minOccurs="1" maxOccurs="1"/&gt;     (xsd:element name="provider_npi" type="string" minOccurs="1" maxOccurs="1"/&gt;     (xsd:element name="provider_npi" type="string" minOccurs="1" maxOccurs="1"/&gt;     (xsd:element name="provider_npi" type="string" minOccurs="1" maxOccurs="1"/&gt;     (xsd:element name="ped_date_svo" type="dateTime" minOccurs="1" maxOccurs="1"/&gt;     (xsd:element name="bedin_dot=avo" type="string" minOccurs="1" maxOccurs="1"/&gt;     (xsd:element name="bedin_datesst" type="string" minOccurs="1" maxOccurs="1"/&gt;     (xsd:element name="bedin_datesst" type="string" minOccurs="1" maxOccurs="1"/&gt;     (xsd:element name="bedin_datesst" type="string" minOccurs="1" maxOccurs="1"/&gt;     (xsd:element name="bedin_idtersst" type="string" minOccurs="1"/&gt;     (xsd:element name="bedin_idtersst" type="string" minOccurs="1"/&gt;     (xsd:element name="bedin_idtersst" type="string" minOccurs="1"/&gt;     (xsd:element name="med_addresst" type="string" minOccurs="1"/&gt;     (xsd:element name="end_addresst" type="string" minOccurs="1"/&gt;     (xsd:element name="end_addresst" type="string" minOccurs="1"/&gt;     (xsd:element name=</pre>	
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xsd:schema>	:d:schema>

### 4.6. Data File XML Elements

The following table provides details of XML elements that the XML schema requires in the EVV data file of the SOAP message when transmitting information to Utah Medicaid.

Refer to table 3 for details on the character set constraints.

Element Name	Description	Туре	Required	Min. Occurs	Max. Occurs
EVV_DataList	Start of the EVV data file		Yes	1	1
user_id	Utah ID email of the EVV Vendor or person who submits the data file	Email (1-255)	Yes	1	1
transmit_type	Transmission Type	Alphabetic (1) Value: <b>B</b> (Batch)	Yes	1	1
submit_type	Submission Type	Alphabetic (1) Value: N (New), C (Correction)	Yes	1	1
email_submitter	Email of the main EVV service provider contact	Plain Text (1-255) <i>Value:</i> Must be a valid email.	Yes	1	1
environment_flag	Indicate whether the data is for testing purposes or not	Alphabetic (1) Value: T (Test), P (Production) Defaults to P if not given.	No	0	1
EVV_Data	Start of an EVV record		Yes	1	10,000
main_record	Start of EVV record		Yes	1	1
orig_receipt_id	Receipt_id of the record	Hexadecimal (32)	No	0	1

Table 7: EVV Data File XML Elements

Element Name	Description	Туре	Required	Min. Occurs	Max. Occurs
	to be replaced.				
	Required if submit a Correction record.				
batch_id	Batch_id # in the data file	Numeric (1-10)	Yes	1	1
record_id	Record_id # in the batch	Numeric (1-10)	Yes	1	1
member_id	Member Medicaid ID	Numeric (9-10)	Yes	1	1
last_name	Member last name	Plain Text (1-255)	Yes	1	1
first_name	Member first name	Plain Text (1-255)	Yes	1	1
middle_init	Member Middle Init	Plain Text (0-255)	No	1	1
service_code	HCPCS/CPT code or DSPD service code	Alphanumeric (1-5) **	Yes	1	1
service_desc	Description of Service	Plain Text (0-255)	No	1	1
provider_npi	Provider PRISM ID (preferred) or NPI	Numeric (4-12) ***	Yes	1	1
name_of_aid	Name of person providing service	Plain Text (1-255)	Yes	1	1
beg_date_svc	Begin date of service	DATE/TIME <i>Format:</i>	Yes	1	1

Element Name	Description	Туре	Required	Min. Occurs	Max. Occurs
		YYYY-MM- DDTHH:MM:SS			
		Example:			
		(2019-09- 01T10:15:00)			
end_date_svc	End date of	DATE/TIME	Yes	1	1
	service	Format:			
		YYYY-MM- DDTHH:MM:SS			
		Example:			
		(2019-09- 01T15:30:00)			
begin_geo_latitude	Latitude	Decimal (0-38) ****	No*	0	1
	coordinate	Example:			
		28.523			
begin_geo_longitude	Longitude	Decimal (0-38) ****	No*	0	1
	coordinate	Example:			
		80.683			
begin_address1	Address where service was provided	Plain Text (1-255)	Yes*	1	1
begin_address2	PO Box, apartment number, etc.	Plain Text (0-255)	No	0	1
begin_city	City where service was provided	Plain Text (1-60)	Yes*	1	1
begin_state	State where service was provided	Plain Text (0-20)	No	0	1

Element Name	Description	Туре	Required	Min. Occurs	Max. Occurs
begin_zip	Code where service was provided	Plain Text (0-10)	No	0	1
end_geo_latitude	Latitude coordinate	Decimal (0-38) **** Example: 28.523	No*	0	1
end_geo_longitude	Longitude coordinate	Decimal (0-38) **** Example: 80.683	No*	0	1
end_address1	Address where service was provided	Plain Text (1-255)	Yes*	1	1
end_address2	PO Box, apartment number, etc.	Plain Text (0-255)	No	0	1
end_city	City where service was provided	Plain Text (1-60)	Yes*	1	1
end_state	State where service was provided	Plain Text (0-20)	No	0	1
end_zip	Code where service was provided	Plain Text (0-10)	No	0	1
evv_vendor	EVV Solution Vendor Name	Plain Text (1-255)	Yes	1	1

**NOTE:** \*Either address1/city OR geo latitude/geo longitude information is required for Service Begin and Service End. Combinations are allowed, e.g. begin\_address1/begin\_city with end\_geo\_latitude/end\_geo\_longitude OR begin\_geo\_latitude/begin\_geo\_longitude with end\_address1/end\_city.

\*\* Hyphens, underscores, and spaces will be silently stripped from the Service Code and do not count against the allowed length of the field.

\*\*\* A Provider ID (NPI or PRISM ID) cannot have more than 5 leading zeroes.

\*\*\*\* Latitude and longitude allowed lengths includes negative signs and decimal points; only up to 10 digits are permitted past the decimal point.

### 4.7. Examples of Data File SOAP messages:

Providers can send new or correction to replace previously accepted submission. If a replacement is submitted, the Receipt ID, Batch ID and Record ID of such records to be replaced must be provided in the correction file.

Below are some examples of SOAP messages for transmitting data files for a new and a correction EVV record in a submission batch.

Figure 5: Example of SOAP Message of a New EVV Record Batch



#### Figure 6: Example of SOAP Message of A Correction EVV Batch



### 4.8. API Data Validation and Error Message

The table below provides information regarding the front-end data input validation and error messages when data input failed the front-end validation.

Input Field	Data Input Validations	Error Message		
user_id	• If empty	• Missing or invalid User ID		
	• If not a valid email	• Missing or invalid User ID		

Table 8: API Input Data	Validations and Error Messages
-------------------------	--------------------------------

Input Field	Data Input Validations	Error Message		
	• If not a valid Utah ID (with valid environment_flag and corresponding access)	• You do not have permission to submit these records. Verify you are submitting to the correct environment or contact us at DMHF_EVV@Utah.gov to resolve the issue		
transmit_type	<ul><li> If empty</li><li> If value does not equal "B"</li></ul>	<ul> <li>Missing or invalid transmission type</li> <li>Missing or invalid transmission type</li> </ul>		
submit_type	<ul> <li>If empty</li> <li>If value does not equal "N" or "C"</li> </ul>	<ul> <li>Missing or invalid submission type</li> <li>Missing or invalid submission type</li> </ul>		
environment_flag	• If value does not equal "T" or "P" (with corresponding access and valid user_id)	• You do not have permission to submit these records. Verify you are submitting to the correct environment or contact us at DMHF_EVV@Utah.gov to resolve the issue		
email_submitter	<ul> <li>If empty</li> <li>If not a valid email</li> <li>If over maximum length</li> </ul>	<ul> <li>Missing required field</li> <li>Invalid Email Submitter</li> <li>Invalid Email Submitter</li> </ul>		
orig_receipt_id	<ul> <li>If submit_type is "C", and this field is empty</li> <li>If over maximum length</li> </ul>	<ul> <li>Missing/Incorrect Original Receipt ID or Batch ID or Record ID</li> <li>Data Fields exceeded limit</li> </ul>		
batch_id	<ul><li> If empty</li><li> If over maximum length</li></ul>	<ul><li>Missing required field</li><li>Data Fields Exceeded Limit</li></ul>		
record_id	<ul><li> If empty</li><li> If over maximum length</li></ul>	<ul><li>Missing required field</li><li>Data Fields Exceeded Limit</li></ul>		
member_id	<ul><li>If empty</li><li>If over maximum length</li><li>If under minimum length</li></ul>	<ul> <li>Missing required field</li> <li>Data Fields Exceeded Limit</li> <li>Invalid Data Types</li> </ul>		
last_name	• If empty	Missing required field		
first_name	• If empty	Missing required field		
service_code	<ul><li> If empty</li><li> If over maximum length</li></ul>	<ul><li>Missing required field</li><li>Data Fields Exceeded Limit</li></ul>		

Input Field	Data Input Validations	Error Message		
provider_npi	<ul><li>If empty</li><li>If non-numeric value</li><li>If over maximum length</li></ul>	<ul> <li>Missing required field</li> <li>Invalid Data Types</li> <li>Data Fields Exceeded Limit</li> </ul>		
name_of_aide	• If empty	Missing required field		
beg_date_svc	<ul> <li>If format does not match YYYY-MM- DDTHH:MM:SS Example 2019-09- 29T14:30:00</li> </ul>	• Invalid Date/Time format. Please re- submit using YYYY-MM- DDTHH:MM:SS		
	<ul> <li>If begin date/time is greater than End Date/End Time</li> <li>If begin date/time is greater than 365 days in the past</li> </ul>	<ul> <li>End Service date and time should be greater than Begin Service date and time.</li> <li>Service date/time cannot exceed 1 year from Date of Service.</li> </ul>		
	• If begin date/time is a future date	• Service date/time cannot be a future date/time.		
	• If individual service duration exceeds 24 hours	• Service duration cannot exceed 24 hours.		
end_date_svc	<ul> <li>If format does not match YYYY-MM- DDTHH:MM:SS Example 2019-09- 29T14:30:00</li> </ul>	<ul> <li>Invalid Date/Time format. Please re- submit using YYYY-MM- DDTHH:MM:SS format.</li> </ul>		
	• If begin date/time is greater than End Date/End Time	• End Service date and time should be greater than Begin Service data and time.		
	• If end date/time is greater than 365 days in the past	• Service date/time cannot exceed 1 year from Date of Service.		
	• If end date/time is a future date	• Service date/time cannot be a future date/time.		
	• If individual service duration exceeds 24 hours	• Service duration cannot exceed 24 hours.		

Input Field	Data Input Validations	Error Message
begin_address1	<ul> <li>If empty (without begin_geo_latitude and begin_geo_longitude)</li> <li>Empty is permitted (with begin_geo_latitude and begin_geo_longitude</li> </ul>	• Missing required field
begin_city	<ul> <li>If empty (without begin_geo_latitude and begin_geo_longitude)</li> <li>Empty is permitted (with begin_geo_latitude and begin_geo_longitude</li> </ul>	• Missing required field
end_address1	<ul> <li>If empty (without end_geo_latitude and end_geo_longitude)</li> <li>Empty is permitted (with end_geo_latitude and end_geo_longitude)</li> </ul>	• Missing required field
end_city	<ul> <li>If empty (without end_geo_latitude and end_geo_longitude)</li> <li>Empty is permitted (with end_geo_latitude and end_geo_longitude)</li> </ul>	• Missing required field

# 5. API Submission Acknowledgement XML Schema

Once the provider's transmission is authenticated and authorized, the data in the transmission is processed in sequence, record by record. The submission is accepted if all records in the batch meet data input validations, otherwise, the entire file is returned to the provider for correction and resubmission.

If some of the records in the batch are accepted and some failed, the acknowledgment SOAP message will indicate the number of records submitted in the batch, the total numbers of records were accepted and the total numbers of records are rejected, along with the rejected record detail (including batch-id and record-id where the error message is located in the provider's file)





Element Name	Description	ption Type		Min. Occurs
Response_DataList	Start of the response message	-		0
receipt_id	Utah Medicaid's Receipt ID for the provider's submission		1	0
total_records	Counts of number records included in the submitting batch	Numeric (1-10)	1	0
total_Accepted	Counts of total accepted EVV records in the submitting batch	Numeric (1-10)	1	0
total_rejected	Counts of total rejected EVV records in the submitting batch	Numeric (1-10)	1	0

Element Name	Description	Туре	Max. Occurs	Min. Occurs
response_record	Start of identified error EVV record in the batch			
batch_id	The provider provided batch ID in the submitting file, which the error record is locatedNumeric (1-10)		1	0
record_id	The provider provided record ID in the submitting file, which the error record is located	Numeric (1-10)	1	0
error_desc	Error message for the rejected record	Plain Text (1-255)	1	1

### 6. Transmitting API Correction/ Replacement EVV Records

Providers can transmit a correction batch of EVV data; all need to be in its own batch with transmission type indicates as "C" and the Original Receipt ID, Batch ID and Record ID must be provided for each record within the batch, otherwise, the record will be rejected.

### 6.1. Correct and Replace original record that were rejected

If an EVV record is rejected during the first submission, such record is returned to the provider to make the necessary correction and resubmit as a new record.

### 6.2. Correct and Replace original record that was accepted

If an EVV record was accepted during the record's first submission and the provider needs to make a correction to replace this original at a later date, the original's Receipt ID, Batch ID and Record ID are required in the correction file.

#### Figure 8: Example of SOAP Message of a Correction EVV Batch



# 7. Submitting Data for Test Purposes

As of October 5, 2023, Utah Medicaid will require all EVV data submitters to submit a successful Test message prior to receiving Production access. This requirement is for all EVV data submitters regardless of successful data submissions prior to October 5, 2023.

The "environment\_flag" field can be used to direct data to a temporary testing environment when given the value "T". It is recommended that all data be sent this way when initially configuring and testing API submissions.

This method is similar to the mechanism outlined in section 3.6 for submitting test data via CSV. All data submitted in this way should be considered transient and may be deleted at any time.

If the given User ID does not have access granted for the test environment (or the production environment when using a value of "P"), the submission will be rejected with a permissions error.

```
<Response_DataList xmlns="http://xmlns.oracle.com/response_data">
    <receipt_id>2d353438383633363230383130393438</receipt_id>
    <total_records>1</total_records>
        <total_accepted>0</total_accepted>
        <total_accepted>0</total_accepted>
        <total_rejected>1</total_rejected>
        <total_rejected>1</total_rejected>
        <total_response_record>
            <error_desc>You do not have permission to submit these records. Verify you are submitting
            to the correct environment or contact us at DMHF_EVV@Utah.gov to resolve the issue</error_desc>
        </response_record>
</response_net_acted>
</response_net_acted
</response_net_acted>
</resp
```

# Appendix A

Since a CSV file cannot save custom formatting, if you open a CSV for any additional edits, any leading 0's (zeros) will be removed by Excel. If you open the CSV file in Excel, you will need to complete the steps below to prevent Excel from changing the Member ID column. You will need to do this each time you open your CSV file in Excel.

#### Figures 1 and 2: Steps for Keeping Member ID to 10 digits to address leading 0's

Format Co	IIs ? ×
8     2. Select Format Cells       9     Clear Contents       10     E Format Cells       11     E Column Width       12     Column Width       13     Hide	Sample Member ID (req) <u>Type:</u> 000000000

You will need to add a space between the times in the Begin time and End time columns and the denotation of AM or PM. Excel will convert it to a 24-hour clock format for you.

Begin date (req)	Begin time (req)	nd date (reg)	End	req)	End date (req)	End time (req)
1/5/2023				AM	1/5/2023	7:45:00
1/6/2023	4:50:10 AM	1/6/2023		) AM	1/6/2023	7:45:15
1/7/2023	4:45:00 AM	1/7/2023		) AM	1/7/2023	9:45:55

Click the Choose File button and select your file. Then click Upload CSV.