



**Requirement Specification for
Receipt of Alternate Electronic Visit Verification
Systems Data (altEVV)
Part of the Open EVV Series of Interfaces**

Version 7.1

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Revision History

| Version | Description | Date Updated |
|----------------|--|---------------------|
| 7.1 | Clarified wording of acceptable formats (SOAP vs REST) | 3/26/2019 |
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1 Overview

This specification is intended to document the requirements for using the Sandata Real Time Interface (part of the Open EVV Series of Interface) for receiving information from 3rd party EVV Vendors into the Sandata Aggregator. This interface is also referred to as the Alternate EVV Data Interface of altEVV. An Alternate EVV Data Collection System will build one data pipe to the Aggregator and send synchronous data 'packages' per defined provider agency.

This interface includes clients, employees, visits, and their associated calls as well as the ability to send data related to visit modifications.

A companion guide will be created for each Payer / Program implemented to specify agreed upon frequencies, additional required fields and those fields which will be omitted or left to the sender's discretion.

1.1. Intended Audience

The intended audience of this document is:

- Project Management and Technical teams at Sandata.
- Project Management and Technical teams at a designated Providers/Vendors who will be implementing this interface.

1.2. Transmission Frequency

For optimal system performance, it is recommended that visits should be sent in near real time. It is expected that information is sent as it is added/changed/deleted in the Alternate EVV Data Collection System. Note that rejection responses will be delivered on a separate API call that is initiated by the third party—in near real time.

1.3. Transmission Limits

A single transaction may contain from 1 to 5,000 records. A single record set would include all associated elements.

If the group size exceeds the maximum limit for the group, the complete group will be rejected.

During peak loads, records received may be queued and processed as resources permit. Other transactions received for the Provider ID will be queued behind these until they are processed since they must be processed in the proper order.

1.4. Data Type Format Details

The user will send information in **JSON or XML** format. JSON and XML allow multiple "child" entities for a parent.

The format of the information sent must match exactly the format defined below and must be sent via web service using JSON or XML. Ultimately, we support only three data types during transmission: string, number and Boolean. The specification uses more additional data types to ensure that data is received in the expected formats and appropriate record level editing can be incorporated. Except where numeric, the assumed JSON and XML format should be string. The data type provided in the specification is based on the following field definitions.

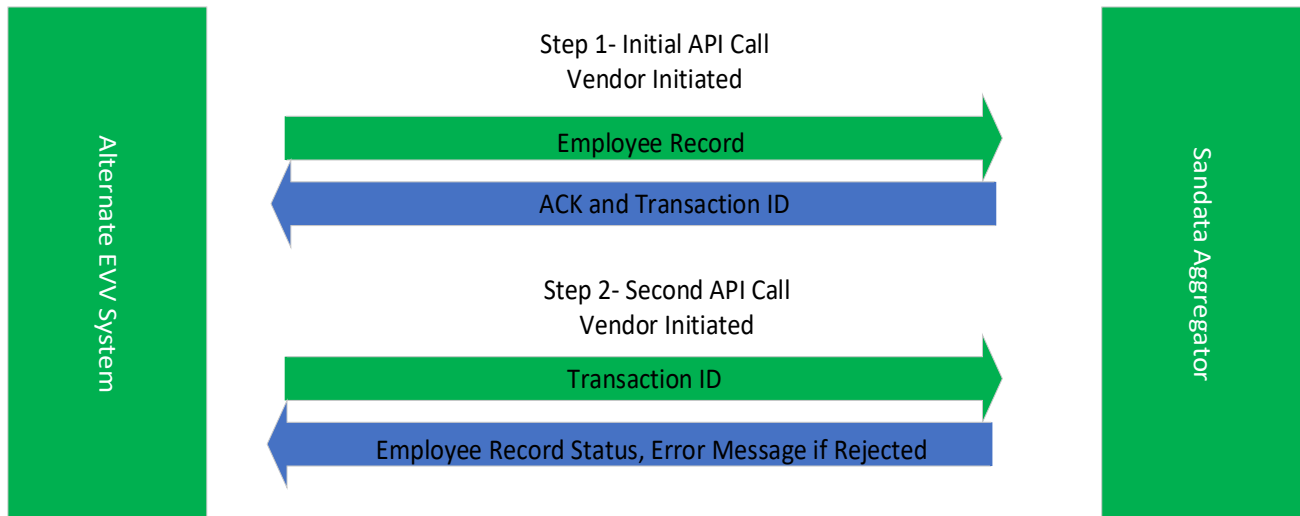
Note that the format is case sensitive. All field names must be provided in EXACTLY the casing used in the definitions below. Sandata recommends using RESTful services with JSON formatting.

| Data Type | Description | Example |
|---------------------|---|---|
| DateTime | <p>The date and time is represented as a string with the following format: YYYY-MM-DDTHH:MM:SSZ</p> <p>All times will be provided in UTC.</p> <p>If time is not material, it will be provided as is expected.</p> | 2016-12-20T16:10:28Z |
| Date (only Date) | <p>The data is represented as a string with the following format: YYYY-MM-DD</p> <p>Date only will be sent in UTC format.</p> | 2016-12-20 |
| Timezone | <p>All time for tracking visits will be in UTC.</p> <p>Timezone values are based on the Internet Assigned Numbers Authority (IANA) Time Zone Database, which contains data that represents the history of local time for locations around the globe. It is updated periodically to reflect changes made by political bodies to time zone boundaries, UTC offsets, and daylight-saving rules.</p> | <p>A complete list of time zones can be found at: https://www.iana.org/time-zones</p> <p>See Appendix for list of EVV supported Timezones</p> |

| Data Type | Description | Example |
|-----------|---|---|
| | The Time zone name expected in each transaction is the actual Time zone where the event took place. i.e. US/Eastern | |
| String | A string is a row of zero or more characters which can include letters, numbers, or other types of characters as a unit, not an array of single characters. (e.g. plain text). | "This is a string" (See Wikipedia String) |
| Integer | An integer is a numeric value without a decimal. Integers are whole numbers and can be positive or negative. | 52110 (positive) -87721 (negative) (See Wikipedia Integer) |
| Decimal | A floating point number is referred to as a decimal . Can be positive or negative. | 8221.231 (positive) -71.214 (negative) (See Wikipedia Decimal) |
| Boolean | A logic predicate indicator that can be either true or false. | True False See Wikipedia Boolean |

1.5. Rejected Record Process

When records are received, Sandata will return against each group a transaction ID and an ACK (acknowledgment of receipt). This transaction ID can be queried by the caller for status of the records in the transaction. This process will allow the provider/vendor to get status on any of the records that may have been rejected. The example below is for an employee record.



1.6. New Record and Updates

New records and updates for previously sent data should be provided via clients, employees, visits interfaces ('data packages'). If a set of records is sent (either client, employee, or visit), all associated applicable elements should be sent. Partial updates will be rejected. An update that deletes a record will not actually remove information since Sandata will not physically delete information. The deleted record/s will no longer be visible on the application. However, the record history will maintain the original data received.



1.7. Transmission Method

Sandata supports an SOA architecture. Sandata will provide an API for 3rd party vendors or agency's internal IT organizations to utilize. Sandata will provide sample JSON or XML format information (Java equivalent to XML), as well as the WADL (JSON equivalent of the WSDL) to those parties developing the interface. This specification will include the rest endpoints needed to request status on record acceptance /rejection.

1.8. Rules

The following rules apply to information received through this interface. For all rules that result in a rejection, it is expected that the issue will be resolved in the Alternate Data Collection System and the information subsequently retransmitted.

- ✓ There is one set of Interfaces per Sandata Provider Agency ID.

- ✓ There will be 3 independent types of data provided through the Alternate EVV interface:
 - Clients;
 - Employees (Field Staff); and
 - Visit Information.

Each will be sent individually but can be delivered through the same single connection.

THE ALTERNATE DATA COLLECTION SYSTEM WILL BE RESPONSIBLE FOR:

- ✓ Visit transmittals. Visits should be transmitted near real time. Actual payer frequency requirements may vary. Note that rejection responses will be delivered as separate API calls initiated by the third party. Information should be sent for only those records that are added, changed, or deleted. This is considered to be an incremental interface. Records which have not changed should not be resent.

- ✓ Complete transmissions.
 - When sending a client, all applicable elements and sub elements must be sent during each transmission.
 - When sending an employee, all applicable elements and sub elements must be sent during each transmission.
 - When sending a visit, all applicable elements and sub elements must be sent during each transmission.

- ✓ Call matching. Calls received--regardless of the collection method used by the Alternate Data Collection System--are received together into a complete visit by the Aggregator, per the specification. Sandata will not attempt to match or rematch the visits received.

- ✓ Data quality. all data will be accepted from third party data "as is," including any calculated fields.



- ✓ Latitude and Longitude. Alternate EVV Data Collection Systems are responsible for providing latitude and longitude on all client addresses provided. Latitude and longitude must be provided for both the visit start and visit end time, assuming it is collected via a GPS-enabled device.
- ✓ Assigning sequence numbers. For each of the 3 types of records (client, employee, visit), the Alternate Data Collection System will be responsible for assigning sequence numbers for each interface to ensure that updates are applied in the appropriate sequence. If a record is rejected, an incremented sequence is expected on the next transmission of that record set. Sequence numbers are per unique record (client, employee, visit) and record set (modifications to the same client, employee, visit). For example, the first time a particular client is sent, the sequence would be set to 1. The second time that same client is sent, the sequence would be set to 2, etc.
- ✓ Having the ability to correct defined exceptions. Exceptions must be corrected using the standard set of reason codes provided by Payer/State. Some of the defined reason codes require additional text to provide additional information; this information must also be sent as part of this interface.
- ✓ Change log transmission. Changes made to all visit information must be fully logged, and the log information must be transmitted as part of the visit record, as applicable.
- ✓ Using standard date/time format. All dates and times provided must be sent in UTC (Coordinated Universal Time) format in GMT.

GENERAL PROCESSING RULES:

- ✓ If a record is received and any required data is missing, malformed, or incomplete as defined in the specification, the record will be rejected or set to default values in accordance with the detailed specifications.
- ✓ If an optional field is provided with an invalid value (one not listed in this specification), the field will be set to the default value, null and/or rejected, unless otherwise specified in this specification.
- ✓ If text (string) field length is longer (>/greater than) than the maximum allowed for that field value, unless otherwise noted, the field will be truncated to the maximum length specified for that field.
- ✓ Any record without a sequence number will be rejected. Sequence numbers are per unique record (client, employee, visit). For example, the first time a particular client is sent, the sequence would be set to 1. The second time the same client is sent, the sequence would be set to 2, etc.
- ✓ Records will be processed in the order received using the assigned sequence number.



- ✓ If a record that has been received has a sequential number that is less than the one already processed, it **WILL BE PROCESSED**, but will be logged as “received” and inserted into history. It will not be considered to be the current record.
- ✓ Header information as determined for the payer and program must be included in each transmission for each record (client, employee, visit), otherwise the entire collection of records will be rejected.

CLIENT RULES:

The following represents a subset of the requirements for client information. Please see the Field Information section of this document for all applicable rules.

- ✓ If the client does not include at least 1 complete address (address line 1, city, state, zip code) with a latitude and longitude, the client will be rejected.
- ✓ If the client does not include the defined unique identifier, the client will be rejected.
- ✓ If the client does not include a Client Other ID (external ID) and Sequence ID, the client will be rejected.
- ✓ If the client does not include first name, last name and time zone, the client will be rejected.

EMPLOYEE RULES:

The following represents a subset of the requirements for employee information. Please see the Field Information section of this document for all applicable rules.

- ✓ If the employee 9-digit social security number is required for the payer / program and this value is not provided, the employee will be rejected.
- ✓ If Staff Other ID (External ID), Sequence ID and Staff ID are not provided, the employee will be rejected.
- ✓ If employee first name and last name are not provided, the employee will be rejected.

VISIT RULES:

- ✓ **No Client Provided** - To allow the Aggregator to determine if the visit is for a Payer/State client, the visit must include a client. If a visit does not include a client, the complete visit will be rejected.
- ✓ **Invalid/Unknown Client Provided** - To allow the Aggregator to determine if the visit is for a Payer/State Client, the visit must include a valid client associated with the payer. If a visit includes a client that is unknown to Sandata (has not been received and accepted), the complete visit record will be rejected.
- ✓ **No Employee Provided / Invalid or Unknown Employee Provided** - If a visit does not include an employee (visit record send without an employee associated), the visit will be accepted and the ‘Unknown Employee’ exception will be calculated and applied. This record is accepted but raises an exception.



- ✓ The Alternate EVV system is expected to be able to handle a visit that crosses calendar days.
- ✓ A visit can only be cancelled if it does not have any calls associated with it or any adjusted times. If a visit has calls but is being cancelled in the source EVV system, the “Bill Visit” indicator should be set to False to indicate that the visit should be disregarded for billing purposes. The visit status will be set to Omit by the Aggregator.
- ✓ The following rules apply to the dates and times provided for the visit:

| Date and Time Exists for the Following: | | | | Rule |
|---|------------------------|-------------|--------------|--|
| Call In | Call Out | Adjusted In | Adjusted Out | |
| x | x | | | Call Out must be > Call In Otherwise record rejected. |
| Superseded by Adj. In | Superseded by Adj. Out | X | x | Adj. Out must be > Adj. In Otherwise record rejected. |
| x | Superseded by Adj. Out | | x | Adj. Out must be > Call In Otherwise record rejected. |
| Superseded by Adj. In | x | X | | Call Out must be > Adj. In Otherwise record rejected. |

- ✓ Upon receipt, Sandata will calculate all configured Payer/Program exceptions and apply those exceptions as applicable. For those exceptions that may be recalculated over the life of the visit, these exceptions will be calculated as appropriate.
- ✓ It is assumed that there are some exceptions that cannot be “fixed” in the Alternate Data Collection System by their nature. They are configured for the Payer/State program as requiring acknowledgement by the system user. One of the included visit elements provides the ability for the user to send their acknowledgement. These exceptions require attestation that the exception has been reviewed/acknowledged in the system along with the appropriate reason code and attestation that appropriate documentation exists. Exceptions are specific to a given Payer/Program and will be noted in the associated companion guide.
- ✓ Upon receipt, Sandata will calculate and apply visit status as defined for the Payer/Program.
- ✓ The Alternate Data Collection System will be expected to send a reason code and optionally the defined resolution code if it applies to the payer. Based on the definitions of the reason codes, some reason codes require additional information explaining the change. If additional information is required, the alternate data collection system must collect the information and include it when transmitting the visit to Sandata.

1.9. Sequencing

The SequenceID on all three types of records (clients, employees, visits) should be independent per record and should be incremented each time any record is sent. The Sequence ID will be used to ensure that a record is processed only once and that the most current information is used for reporting and claims processing. In the event a visit update is not accepted (rejected), the SequenceID on that transmission should not be reused. The next update should increment to the next number in the sequence. Failure to do so will cause the new record to be rejected as a duplicate.

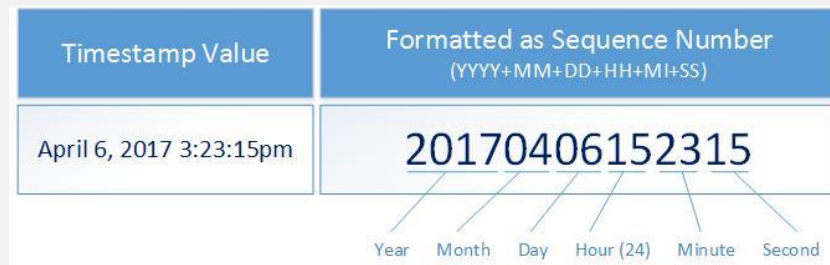
Sequence Rules:

- If the latest SequenceID is greater than the highest value previously received, the record set will not be rejected. i.e. latest SequenceID = 5, previous SequenceID = 4 → Record accepted and latest record is displayed.
- If the latest SequenceID is less than the value previously received, and the record has not yet been processed, it will be accepted and recorded as historical information. i.e. latest SequenceID = 8, previous SequenceID = 10 → Record accepted and latest record is still SequenceID = 10.
- If the Sequence ID is equal to a value previously received, it will be rejected. i.e. latest SequenceID = 15, previous SequenceID = 15 → Record rejected.
- Gaps in sequence will be allowed.

Please Note:

For those agencies that wish to use the Alternate EVV interface, and would prefer to use timestamps as the sequence number in their deliveries, the Sandata system can accept the timestamp value as the sequence number, under two conditions:

- 1. The timestamp value provided must contain only numbers, and no other symbols (i.e. “/”, “-”, and “:” characters removed)*
- 2. The timestamp value provided must be formatted as YYYYMMDDHHMMSS. For example:*



1.10. Message Acknowledgement (ACK) and Transaction ID

| Index | Column Name | Description | Max Length | Type |
|-------|------------------|---|------------|--------|
| 1 | AgencyIdentifier | Unique identifier for the agency. | 10 | String |
| 2 | ProviderID | Unique identifier for the agency. | 64 | String |
| 3 | TransactionID | Unique identifier for the request generated by the payer. | 50 | String |
| 4 | Reason | Default and only value provided: "Transaction Received" | 250 | String |

XML Structure

```

<MessageAcknowledgementAndTransactionID>
  <AgencyIdentifier></AgencyIdentifier>
  <ProviderID></ProviderID>
  <TransactionID></TransactionID>
  <Reason></Reason>
</MessageAcknowledgementAndTransactionID>

```

1.11. Response for Record Status

| Index | Column Name | Description | Max Length | Type |
|-------|------------------|---|------------|--------|
| 1 | AgencyIdentifier | Unique identifier for the agency. | 10 | String |
| 2 | ProviderID | Unique identifier for the agency. | 64 | String |
| 3 | RecordType | Type of record that was rejected Values: Client, Employee, Visit | 10 | String |
| 4 | RecordOtherID | Value of the record identifier | 50 | String |
| 5 | Reason | Default and only value provided: "Transaction Received" | 250 | String |

XML Structure

```

<ResponseForRecordStatus>
  <AgencyIdentifier></AgencyIdentifier>
  <ProviderID></ProviderID>
  <RecordType></RecordType>
  <RecordOtherID></RecordOtherID>
  <Reason></Reason>
</ResponseForRecordStatus>

```

2 Field Information

Note that this element will be required as part of the header information provided for all three types of transmissions. This information will be compared to the connection being used within the interface to ensure that the transmission is appropriate. If this match cannot be validated, the transmission will be rejected. As part of the implementation process, required fields may be adjusted and the available fields may be reduced based on the program specifics.

2.1 Provider Identification

| Index | Column Name | Description | Max Length | Type | Required |
|-------|-------------------|---|------------|--------|----------|
| 1 | ProviderQualifier | Identifier being sent as the unique identifier for the provider. Values: SandataID, NPI, API, MedicaidID, TaxID, Taxonomy, Legacy, Other. | 20 | String | Yes |
| 2 | ProviderID | Unique identifier for the agency. | 64 | String | Yes |

XML Structure

```
<Provider_Identification>
  <ProviderQualifier>MedicaidID</ProviderQualifier>
  <ProviderID>ABC000123456789</ProviderID>
</Provider_Identification>
```

2.2 Client General Information

Additional fields may be required depending on the program; fields below may be ignored if a Payer Client Feed is implemented.

| Index | Column Name | Description | Max Length | Type | Required |
|-------|---------------------|--|------------|--------|---|
| 1 | ClientID | Assigned client_id. If a value is assigned by another system. Note that this value can be automatically assigned by Sandata EVV. Note that this value may be used as the client identifier for telephony and MVV when Client ID entry is applicable. | 10 | String | |
| 2 | ClientFirstName | Client's First Name. | 30 | String | Yes |
| 3 | ClientMiddleInitial | Client's Middle Initial. | 1 | String | |
| 4 | ClientLastName | Client's Last Name. | 30 | String | Yes |
| 5 | ClientQualifier | Value being sent to unique identify the client. Values: ClientSSN; ClientOtherID, ClientCustomID. Should be the same as the value used by the Payer if a client feed is provided by the payer. | 20 | String | Yes. Please see the Addendum for program specific values. |
| 6 | ClientMedicaidId | Unique ID provided by the State Medicaid program to the client. | 64 | String | Yes. Please see the Addendum for program specific values. |

| Index | Column Name | Description | Max Length | Type | Required |
|-------|-------------------|--|------------|---------|---|
| 7 | ClientIdentifier | Payer assigned client identifier identified by ClientQualifier. If client information is received from the payer, this information will be used to link the received 3 rd party EVV information with the payer information provided. | 64 | String | Yes. Please see the Addendum for program specific values. |
| 8 | MissingMedicaidID | Indicator that a patient is a newborn. If this value is provided, Client Medicaid ID will be ignored and will be valid as null. Values True/False | 5 | String | |
| 9 | SequenceID | The Third Party visit sequence ID to which the change applied. | 16 | Integer | Yes |
| 10 | ClientCustomID | Additional Client User-Defined ID. Commonly used to customize the built-in client ID within the system. Must be provided if billing if in scope. May be equal to another ID provided. | 24 | String | |
| 11 | ClientOtherID | Additional Client User-Defined ID. Commonly used to store client's ID from another system. This value is used to match the client to an existing record during import. During implementation it will be determined if this value or the ClientSSN will be used for matching. | 24 | String | |
| 12 | ClientSSN | Client's Social Security Number. If the Field is left empty, ClientOtherID must be populated. Not required if ClientOtherID sent. Numbers only, no dashes and leading zeroes must be included. May be required if needed for billing. Format - #####. | 9 | String | |

| Index | Column Name | Description | Max Length | Type | Required |
|-------|----------------|---|------------|----------|----------|
| 13 | ClientTimeZone | Client's primary time zone. Depending on the program, this value may be defaulted or automatically calculated. Please see the appendix for acceptable values. | 64 | Timezone | Yes |

XML Structure

```

<Client_General_Information>
  <ClientID></ClientID>
  <ClientFirstName>firstname</ClientFirstName>
  <ClientMiddleInitial></ClientMiddleInitial>
  <ClientLastName>lastname</ClientLastName>
  <ClientQualifier>ClientOtherID</ClientQualifier>
  <ClientMedicaidID>JH1234567</ClientMedicaidID>
  <ClientIdentifier>1234567</ClientIdentifier>
  <MissingMedicaidID></MissingMedicaidID>
  <SequenceID>12345</SequenceID>
  <ClientCustomID></ClientCustomID>
  <ClientOtherID></ClientOtherID>
  <ClientSSN></ClientSSN>
  <ClientTimeZone>US/Eastern</ClientTimeZone>
</Client_General_Information>

```

2.3 Client Payer Information

This segment is only required for programs where members/clients and their association to the associated programs and services is not provided by the payer.

| Index | Column Name | Description | Max Length | Type | Required |
|-------|----------------------------|---|------------|--------|---|
| 1 | PayerID | Sandata EVV assigned ID for the payer. Payer ID is determined during the implementation process. | 64 | String | Yes. Please see the Addendum for program specific values. |
| 2 | PayerProgram | If applicable, the program to which this visit belongs. Potential use and list of values to be determined during implementation. | 9 | String | Yes. Please see the Addendum for program specific values. |
| 3 | ProcedureCode | This is the billable procedure code which would be mapped to the associated service. For most programs, it is the HCPCS number. | 5 | String | Yes. Please see the Addendum for program specific values. |
| 4 | ClientPayerID | Unique Identifier sent by Payer. | 20 | String | |
| 5 | ClientEligibilityDateBegin | Client Eligibility Begin Date. This field is optional if ClientStatus is sent. | 10 | Date | |
| 6 | ClientEligibilityDateEnd | Client Eligibility End Date. This field is optional if ClientStatus is sent. | 10 | Date | |
| 7 | ClientStatus | The client's current status. Provide the 2-digit code including the 0. Available values: 02 = Active, 04 = Inactive. This field is optional if ClientEligibilityDateBegin or ClientEligibilityDateEnd is sent. | 2 | String | |

XML Structure

```

<Client_Payer_Information>
  <PayerID>ABCDEF</PayerID>
  <PayerProgram>29</PayerProgram>
  <ProcedureCode>G1234</ProcedureCode>
  <ClientPayerID></ClientPayerID>
  <ClientEligibilityDateBegin></ClientEligibilityDateBegin>
  <ClientEligibilityDateEnd></ClientEligibilityDateEnd>
  <ClientStatus></ClientStatus>
</Client_Payer_Information>

```

2.4 Client Address

At least one record for each client is required if GPS validation is required for the program. If an address is provided via a Payer feed, this address information will be regarded as secondary based on program rules.

| Index | Column Name | Description | Max Length | Type | Required |
|-------|------------------------|---|------------|--------|----------|
| 1 | ClientAddressType | Values: Home, Business, Other. Note that multiple of the same type can be provided. Default to Other if not available. | 12 | String | Yes |
| 2 | ClientAddressesPrimary | One address must be designated as primary Values: true/false | 5 | String | Yes |
| 3 | ClientAddressLine1 | Street Address Line 1 associated with this address. PO Box may not be acceptable for Billing and PO Box will not function correctly for MVV. | 30 | String | Yes |
| 4 | ClientAddressLine2 | Street Address Line 2 associated with this address. | 30 | String | |
| 5 | ClientCounty | County associated with this address | 25 | String | |
| 6 | ClientCity | City associated with this address. | 30 | String | Yes |
| 7 | ClientState | State associated with this address. Two Character standard abbreviation. | 2 | String | Yes |
| 8 | ClientZip | Zip Code associated with this address. Required for Billing. 9-digit primary address zip code. If additional 4 digits are not known, provide zeros. Format #####. | 9 | String | Yes |

| Index | Column Name | Description | Max Length | Type | Required |
|-------|------------------------|--|------------|---------|----------|
| 9 | ClientAddressLongitude | GPS Longitude recorded during event. Longitude has a range of -180 to 180 with a 15 digit precision | 20 | Decimal | Yes |
| 10 | ClientAddressLatitude | GPS Latitude recorded during event. Latitude has a range of -90 to 90 with a 15 digit precision | 19 | Decimal | Yes |

XML Structure

```

<ClientAddress>
  <ClientAddressType>Home</ClientAddressType>
  <ClientAddressIsPrimary>True</ClientAddressIsPrimary>
  <ClientAddressLine1>123 Park Ave</ClientAddressLine1>
  <ClientAddressLine2></ClientAddressLine2>
  <ClientCounty></ClientCounty>
  <ClientCity>New York</ClientCity>
  <ClientState>NY</ClientState>
  <ClientZip>110360000</ClientZip>
  <ClientAddressLongitude>38.898648</ClientAddressLongitude>
  <ClientAddressLatitude>77.03769</ClientAddressLatitude>
</ClientAddress>

```

2.5 Client Phone - Optional

| Index | Column Name | Description | Max Length | Type | Required |
|-------|-----------------|---|------------|--------|----------|
| 1 | ClientPhoneType | Values: Home, Mobile, Business and Other. Note that multiple of the same type can be provided. Default to Other if not available. | 12 | String | |
| 2 | ClientPhone | Client phone number. Format #####. | 10 | String | |

XML Structure

```

<Client_Phone>
  <ClientPhoneType></ClientPhoneType>
  <ClientPhone></ClientPhone>
</Client_Phone>

```



2.6 Responsible Party/Designated Signer-

Provide if applicable for the Client and in the absence of a Payer member feed.

| Index | Column Name | Description | Max Length | Type | Required |
|-------|---------------------------|--|------------|--------|----------|
| 1 | ClientContactType | Client Contact Type. Values: Family, Other. | 12 | String | |
| 2 | ClientContactFirstName | Client Contact First Name. Entered by provider agency. | 30 | String | |
| 3 | ClientContactLastName | Client Contact Last Name. Entered by provider agency. | 30 | String | |
| 4 | ClientContactPhoneType | Client Contact's Phone Type. Values: Business, Home, Mobile, Other. | 12 | String | |
| 5 | ClientContactPhone | Client Contact Home Phone Number. Entered by provider agency. Format #####. | 10 | String | |
| 6 | ClientContactEmailAddress | Client Contact's email address. Required if this client will be authorized to login to the client portal as the client's authorized representative and approve timesheets on behalf of the client. | 64 | String | |
| 7 | ClientContactAddressLine1 | Client Contact's Street Address, Line 1. | 30 | String | |
| 8 | ClientContactAddressLine2 | Client Contact's Street Address, Line 2. | 30 | String | |
| 9 | ClientContactCity | Client Contact's City. | 30 | String | |
| 10 | ClientContactState | Client Contact's State. Two Character standard abbreviation. | 2 | String | |
| 11 | ClientContactZip | Client Contact's Zip Code. 9-digit primary address zip code. If additional 4 digits is not known, provide zeros. Format #####. | 9 | String | |

XML Structure

```

<ResponsibleParty_DesignatedSigner>
  <ClientContactType></ClientContactType>
  <ClientContactFirstName></ClientContactFirstName>
  <ClientContactLastName></ClientContactLastName>
  <ClientContactPhoneType></ClientContactPhoneType>
  <ClientContactPhone></ClientContactPhone>
  <ClientContactEmailAddress></ClientContactEmailAddress>
  <ClientContactAddressLine1></ClientContactAddressLine1>
  <ClientContactAddressLine2></ClientContactAddressLine2>
  <ClientContactCity></ClientContactCity>
  <ClientContactState></ClientContactState>
  <ClientContactZip></ClientContactZip>
</ResponsibleParty_DesignatedSigner>

```

2.7 Employee General Information

| Index | Column Name | Description | Max Length | Type | Required |
|-------|--------------------|--|------------|---------|--|
| 1 | EmployeeQualifier | Value being sent to unique identify the employee. Values: EmployeeSSN, EmployeeRegID, EmployeeCustomID. | 20 | String | Yes |
| 2 | EmployeeIdentifier | Employee identifier identified by EmployeeQualifier. If employee information is received from the payer, this information will be used to link the received 3 rd party EVV information with the payer information provided and should be defined as the same value. | 9 | String | Yes |
| 3 | EmployeeOtherID | Unique employee identifier in the external system, if any. | 64 | String | |
| 4 | SequenceID | The Third Party visit sequence ID to which the change applied | 16 | Integer | Yes |
| 5 | EmployeeSSN | Employee Social Security Number. Employee SSN may be required depending on the program rules. | 9 | String | Please see the Addendum for program specific values. |
| 6 | EmployeeLastName | Employee's Last Name | 30 | String | Yes |
| 7 | EmployeeFirstName | Employee's First Name | 30 | String | Yes |
| 8 | EmployeeEmail | Employee's Email Address | 64 | String | Yes |

| Index | Column Name | Description | Max Length | Type | Required |
|-------|----------------------|---|------------|--------|----------|
| 9 | EmployeeManagerEmail | Email of the Employee's Manager | 64 | String | |
| 10 | EmployeeAPI | Employee Client's Alternate Provider Identifier or Medicaid ID. | 25 | String | |
| 11 | EmployeePosition | Values for Payer/State Programs to be determined during implementation. If multiple positions, send primary. | 3 | String | |

XML Structure

```

<Employee_GeneralInformation>
  <EmployeeQualifier>EmployeeSSN</EmployeeQualifier>
  <EmployeeIdentifier>12345</EmployeeIdentifier>
  <EmployeeOtherID></EmployeeOtherID>
  <SequenceID>98765</SequenceID>
  <EmployeeSSN>123456789</EmployeeSSN>
  <EmployeeLastName>Lastname</EmployeeLastName>
  <EmployeeFirstName>Firstname</EmployeeFirstName>
  <EmployeeEmail>user.email@domainname.com</EmployeeEmail>
  <EmployeeManagerEmail></EmployeeManagerEmail>
  <EmployeeAPI></EmployeeAPI>
  <EmployeePosition></EmployeePosition>
</Employee_GeneralInformation>

```

2.8 Visit General Information

| Index | Column Name | Description | Max Length | Type | Required |
|-------|--------------------|--|------------|---------|----------|
| 1 | VisitOtherID | Visit identifier in the external system | 50 | String | Yes |
| 2 | SequenceID | The Third Party visit sequence ID to which the change applied | 16 | Integer | Yes |
| 3 | EmployeeQualifier | Value being sent to unique identify the employee. Values: EmployeeSSN, EmployeeRegID, EmployeeCustomID. | 20 | String | Yes |
| 4 | EmployeeOtherID | Unique employee identifier in the external system, if any. | 64 | String | |
| 5 | EmployeeIdentifier | Employee identifier identified by EmployeeQualifier. If employee information is received from the payer, this information will be used to link the received 3 rd party EVV information with the payer information provided and should be defined as the same value. | 9 | String | Yes |

| Index | Column Name | Description | Max Length | Type | Required |
|-------|-------------------------|--|------------|--------|---|
| 6 | GroupCode | This visit was part of a group visit. Group Code is used to reassemble all members of the group. | 6 | String | |
| 7 | ClientIDQualifier | Value being sent to unique identify the client. Values: ClientID, ClientSSN; ClientOtherID, ClientCustomID. Should be the same as the value used by the Payer if a client feed is provided by the payer. | 20 | String | Yes |
| 8 | ClientID | Identifier used in the client element. | 64 | String | Yes |
| 9 | ClientOtherID | Additional Client User-Defined ID. Commonly used to store client's ID from another system. This value is used to match the client to an existing record during import. | 24 | String | |
| 10 | ClientIdentifier | Identifier used in the client element. | 64 | String | Yes |
| 11 | VisitCancelledIndicator | true/false – allows a visit to be cancelled / deleted based on defined rules. | 5 | String | Yes |
| 12 | PayerID | Sandata EVV assigned ID for the payer. Payer ID is determined during the implementation process. | 64 | String | Yes. Please see the Addendum for program specific values. |
| 13 | PayerProgram | If applicable, the program to which this visit belongs. Potential use and list of values to be determined during implementation. | 9 | String | Yes. Please see the Addendum for program specific values. |
| 14 | ProcedureCode | This is the billable procedure code which would be mapped to the associated service. For most programs, it is the HCPCS number. | 5 | String | Yes. Please see the Addendum for program specific values. |
| 15 | Modifier1 | Modifier for the HCPCS code for the 837. Up to 4 of these are allowed. Please consult specific program requirements for exact usage. | 2 | String | |

| Index | Column Name | Description | Max Length | Type | Required |
|-------|-----------------------|---|------------|----------|----------|
| 16 | Modifier2 | Modifier for the HCPCS code for the 837. Up to 4 of these are allowed. Please consult specific program requirements for exact usage. | 2 | String | |
| 17 | Modifier3 | Modifier for the HCPCS code for the 837. Up to 4 of these are allowed. Please consult specific program requirements for exact usage. | 2 | String | |
| 18 | Modifier4 | Modifier for the HCPCS code for the 837. Up to 4 of these are allowed. Please consult specific program requirements for exact usage. | 2 | String | |
| 19 | VisitTimeZone | Visit primary time zone. Depending on the program, this value may be defaulted or automatically calculated. Please see the appendix for acceptable values. Should be provided if the visit is occurring in a time zone other than that of the client. | 64 | Timezone | Yes |
| 20 | ScheduleStartTime | Activity / Schedule start date and time. This field is generally required but may be omitted if the schedule is denoting services that can happen at any time within the service date. | 20 | DateTime | |
| 21 | ScheduleEndTime | Activity / Schedule end date and time. This field is generally required but may be omitted if the schedule is denoting services that can happen at any time within the service date. | 20 | DateTime | |
| 22 | AdjInDateTime | Adjusted in date/time if entered manually. Otherwise the actual date/time received. | 20 | DateTime | |
| 23 | AdjOutDateTime | Adjusted out date/time if entered manually. Otherwise the actual date/time received. | 20 | DateTime | |
| 24 | BillVisit | True/False. If the visit is going to be billed, should be sent as Y. Otherwise N. | 5 | String | |
| 25 | HoursToBill | Hours that are going to be billed. | 99.999 | Decimal | |
| 26 | HoursToPay | If payroll is in scope for the payer program, the hours to pay. | 99.999 | Decimal | |
| 27 | Memo | Associated free form text. | 512 | String | |
| 28 | ClientVerifiedTimes | true/false | 5 | String | |
| 29 | ClientVerifiedTasks | true/false | 5 | String | |
| 30 | ClientVerifiedService | true/false | 5 | String | |

| Index | Column Name | Description | Max Length | Type | Required |
|-------|--------------------------|---|------------|--------|----------|
| 31 | ClientSignatureAvailable | true/false The actual signature will not be transferred. The originating system will be considered the system of record. | 5 | String | |
| 32 | ClientVoiceRecording | true/false The actual voice recording will not be transferred. The originating system will be considered the system of record. | 5 | String | |

XML Structure

```

<VisitGeneralInformation>
  <VisitOtherID></VisitOtherID>
  <SequenceID>98765</SequenceID>
  <EmployeeQualifier></EmployeeQualifier>
  <EmployeeOtherID></EmployeeOtherID>
  <EmployeeIdentifier>12345</EmployeeIdentifier>
  <GroupCode></GroupCode>
  <ClientIDQualifier></ClientIDQualifier>
  <ClientID></ClientID>
  <ClientOtherID></ClientOtherID>
  <ClientIdentifier>1234567</ClientIdentifier>
  <VisitCancelledIndicator>>false</VisitCancelledIndicator>
  <PayerID>ABCDEF</PayerID>
  <PayerProgram>29</PayerProgram>
  <ProcedureCode>G0151</ProcedureCode>
  <Modifier1></Modifier1>
  <Modifier2></Modifier2>
  <Modifier3></Modifier3>
  <Modifier4></Modifier4>
  <VisitTimeZone>US/Eastern</VisitTimeZone>
  <ScheduleStartTime></ScheduleStartTime>
  <ScheduleEndTime></ScheduleEndTime>
  <AdjInDateTime></AdjInDateTime>
  <AdjOutDateTime></AdjOutDateTime>
  <BillVisit></BillVisit>
  <HoursToBill></HoursToBill>
  <HoursToPay></HoursToPay>
  <Memo></Memo>
  <ClientVerifiedTimes></ClientVerifiedTimes>
  <ClientVerifiedTasks></ClientVerifiedTasks>
  <ClientVerifiedService></ClientVerifiedService>
  <ClientSignatureAvailable></ClientSignatureAvailable>
  <ClientVoiceRecording></ClientVoiceRecording>
</VisitGeneralInformation>

```

2.9 Calls

If calls are not provided, adjusted times must be included in the parent visit element. Calls include any type of clock in or clock out depending on system capabilities. Note that some vendor systems may not record some visit activity as calls. If this is the case, the call element can be omitted. Sandata will treat visit information without calls as manually entered.

| Index | Column Name | Description | Max Length | Type | Required |
|-------|------------------------|--|------------|----------|--|
| 1 | CallExternalID | Call identifier in the external system | 16 | String | Yes |
| 2 | CallDateTime | Event date time. Must be at least to the second. | 20 | DateTime | Yes |
| 3 | CallAssignment | Values: Time In, Time Out, Other | 10 | String | Yes |
| 4 | GroupCode | This visit was part of a group visit. Group Code is used to reassemble all members of the group. | 6 | String | |
| 5 | CallType | The type of device used to create the event. Values: Telephony, Mobile, FVV, Manual, Other. Any call with GPS data collected should be identified as Mobile. FVV should be used for any type of Fixed verification device. | 20 | String | Yes |
| 6 | ProcedureCode | This is the billable procedure code if identified on the call. For most programs, it is the HCPCS number. The actual entered value should be provided. | 5 | String | Please see the Addendum for program specific values. |
| 7 | ClientIdentifierOnCall | If a client identifier was entered on the call, this value should be provided. | 10 | String | Conditional See description |
| 8 | MobileLogin | Log in used if a mobile application is in use for GPS calls. Required if CallType = 'Mobile'. | 64 | String | Conditional See description |
| 9 | CallLatitude | GPS Latitude recorded during event. Latitude has a range of -90 to 90 with a 15 digit precision. Required for CallType = Mobile. | 19 | Decimal | Conditional See description |

| Index | Column Name | Description | Max Length | Type | Required |
|-------|------------------------|--|------------|---------|--------------------------------|
| 10 | CallLongitude | GPS Longitude recorded during event. Longitude has a range of -180 to 180 with a 15 digit precision. Required for CallType = Mobile. | 20 | Decimal | Conditional See description |
| 11 | Location | Specific values to be provided based on the program. | 25 | String | |
| 12 | TelephonyPIN | PIN for telephony. Identification for the employee using telephony. Required if CallType = Telephony. | 9 | Integer | Conditional See description |
| 13 | OriginatingPhoneNumber | Originating phone number for telephony. Required if CallType = Telephony. | 10 | String | Conditional See description |

XML Structure

```

<Calls>
  <CallExternalID>7812</CallExternalID>
  <CallDateTime>2018-01-22T12:05:20Z</CallDateTime>
  <CallAssignment>TimeIn</CallAssignment>
  <GroupCode></GroupCode>
  <CallType>Mobile</CallType>
  <ProcedureCode>G0151</ProcedureCode>
  <ClientIdentifierOnCall></ClientIdentifierOnCall>
  <MobileLogin>user.email@domainname.com </MobileLogin>
  <CallLatitude>38.898648</CallLatitude>
  <CallLongitude>77.03769</CallLongitude>
  <Location></Location>
  <TelephonyPIN>123456</TelephonyPIN>
  <OriginatingPhoneNumber>9170000000</OriginatingPhoneNumber>
</Calls>

```

2.10 Visit Exception Acknowledgement

| Index | Column Name | Description | Max Length | Type | Required |
|-------|-----------------------|--|------------|--------|--|
| 1 | ExceptionID | ID for the exception being acknowledged. Exact values for exceptions implemented are based on program rules. | 2 | String | Please see the Addendum for program specific values. |
| 2 | ExceptionAcknowledged | true/false | 5 | String | |

XML Structure

```

<Visit_Exception_Acknowledgement>
  <ExceptionID></ExceptionID>
  <ExceptionAcknowledged></ExceptionAcknowledged>
</Visit_Exception_Acknowledgement>

```

2.11 Visit Changes

| Index | Column Name | Description | Max Length | Type | Required |
|-------|------------------|---|------------|----------|--|
| 1 | SequenceID | The Third Party visit sequence ID to which the change applied | 16 | String | Yes |
| 2 | ChangeMadeBy | The unique identifier of the user, system or process that made the change. This could be a system identifier for the user or an email. Could also be a system process, in which case it should be identified. | 64 | String | Yes |
| 3 | ChangeDateTime | Date and time when change is made. | 20 | DateTime | Yes |
| 4 | GroupCode | This visit was part of a group visit. Group Code is used to reassemble all members of the group. | 6 | String | |
| 5 | ReasonCode | Reason Code associated with the change. | 4 | String | Yes. Please see the Addendum for program specific values. |
| 6 | ChangeReasonMemo | Reason/Description of the change being made if entered. Required for some reason codes. | 256 | String | Conditional See description. Please see the Addendum for program specific values. |
| 7 | ResolutionCode | Resolution Codes if selected. Resolution Codes are specific to the program. | 4 | String | |

XML Structure

```

<VisitChanges>
  <SequenceID>98765</SequenceID>
  <ChangeMadeBy>user.email@domainname.com</ChangeMadeBy>
  <ChangeDateTime>2018-02-15T10:34:25Z</ChangeDateTime>
  <GroupCode></GroupCode>

```



<ReasonCode></ReasonCode>
<ChangeReasonMemo>Time In and Time Out were modified</ChangeReasonMemo>
<ResolutionCode></ResolutionCode>
</VisitChanges>

3 Appendix

3.1 Assumptions

There is no other external interface other than what is mentioned in this document.

3.2 Other Important Points to Note

Please note that this list will have periodic additions as new functionality is added and made available for transmission from Alternate EVV systems.

In the event of any required changes to the web services apart from the functionality covered in this document or the functionality already present in the code, it is recommended that a formal change control process be followed so as to ensure a set process for planning and scheduling, implementation of the same, verification and validation and roll-out for user testing.

3.3 Legend

| Legend | |
|------------|--|
| Field Name | Other Possible Naming |
| Client | Individual Member Patient Recipient |
| Employee | Caregiver Consumer Directed Worker Home Health Aide Staff Worker |
| Provider | Agency Third Party Admin (TPA) |
| Payer | Admission Contract Insurance Company Managed Care Organization (MCO) State |

| Legend | |
|------------|--|
| Field Name | Other Possible Naming |
| Contract | Program Program Code |
| HCPCS | Bill Code <i>Procedure Code</i> <i>Service</i> |

3.4 Acronyms and Definitions

| Term | Definition |
|------|-----------------------------------|
| AKA | Also Known As |
| API | Application Programming Interface |
| GMT | Greenwich Mean Time |
| HTTP | Hypertext Transfer Protocol |
| JSON | JavaScript Object Notation |
| SOAP | Simple Object Access Protocol |
| SRS | System Requirement Specifications |
| TBD | To Be Determined |
| UTC | Universal Time Coordinated |
| XML | Extensible Markup Language |

3.5 Time Zone List

This is the common list of time zones we used. If your area is not covered by this list please contact Sandata support to get additional time zone value that we accept. Please note that the value sent must exactly match the value and case shown.

| Text Value | Daylight Saving |
|-------------------|-----------------|
| US/Alaska | Active |
| US/Aleutian | Active |
| US/Arizona | Inactive |
| US/Central | Active |
| US/East-Indiana | Active |
| US/Eastern | Active |
| US/Hawaii | Inactive |
| US/Indiana-Starke | Active |

| Text Value | Daylight Saving |
|------------------------------|-----------------|
| US/Michigan | Active |
| US/Mountain | Active |
| US/Pacific | Active |
| US/Samoa | Inactive |
| America/Indiana/Indianapolis | Active |
| America/Indiana/Knox | Active |
| America/Indiana/Marengo | Active |
| America/Indiana/Petersburg | Active |
| America/Indiana/Vevay | Active |
| America/Indiana/Vincennes | Active |
| Canada/Atlantic | Active |
| Canada/Central | Active |
| Canada/East-Saskatchewan | Inactive |
| Canada/Eastern | Active |
| Canada/Mountain | Active |
| Canada/Newfoundland | Active |
| Canada/Pacific | Active |
| Canada/Saskatchewan | Active |
| Canada/Yukon | Active |
| America/Puerto Rico | Inactive |