North Carolina Department of Health Benefits

EVV Vendor Specification v1.6

Tailored Plans (TP)

_____

Sandata Technologies, LLC
220 Duffy Ave. Unit 266A
Hicksville NY 11801

Version History

Name	Title	Version	Changes	Date
Pamela Brooks		V1.0	Initial Draft (based on v07 workbook)	10.23.2020
Pamela Brooks	Update Provider Code Values	V1.1	Dropped the 3 digit location code that pre-pended both the NPI and API values for ProviderID	12.07.2020
Pamela Brooks	Update Medicaid ID description Add content from Generic AltEVV Spec	V1.2	Updated client Medicaid ID value to be 10 CHAR ALPHANUM Revised document to include all content from Generic Alt EVV spec v7.10	12.08.2020
Pamela Brooks	Update descriptions	V1.3	Update ClientQualifier field from ClientOtherID => ClientMedicaidID Update ClientIDQualifier field from ClientOtherID => ClientMedicaidID	01.14.2020
Pamela Brooks	Add new exception codes Updated language regarding ID's	V1.4	New exception codes – 5 Unscheduled Visit, 21 No Show Added clarifying language around exception IDs required	04.20.2021
Pamela Brooks	Add new program/service codes	V1.5	Added new programs/service codes for PHP, LME	05.10.2021
Tessie Austin	Home Health Expansion	V1.6	Added new payer/program service codes for HH, TP Added Missing Location Exception for Home/Community Location Call segment - Removed Location field and added VisitLocationType Updated formatting of document and description information for ease of use	07.10.2022

Contents

This interface supplies the delivery mechanisms and the data layout/structure necessary to provide externally sourced EVV data to the Sandata systems for processing.

Base Version	7.10

1 EVV Vendor Interface Transmission Guidelines

File Format	JSON
File Delimiter	not applicable
Headers	not applicable
File Extension	not applicable
File Encryption	Delivery to occur over secure HTTPS connection
Control File	not applicable
RESTful API Endpoint(s)	Client: UAT: https://uat-api.sandata.com/interfaces/intake/clients/rest/api/v1.1 Employee: UAT: https://uat-api.sandata.com/interfaces/intake/employees/rest/api/v1.1 Visit: UAT: https://uat-api.sandata.com/interfaces/intake/visits/rest/api/v1.1 Client: Prod: https://api.sandata.com/interfaces/intake/clients/rest/api/v1.1 Employee: Prod: https://api.sandata.com/interfaces/intake/employees/rest/api/v1.1 Visit: Prod: https://api.sandata.com/interfaces/intake/visits/rest/api/v1.1
Payload Compression	No compression of data during delivery
Delivery Mechanism	Via RESTful API call
Delivery Frequency	No less frequent than daily (at time decided by each vendor supplying the EVV data). Can be multiple times per day at the vendor's discretion.

2 Overview

This specification is intended to document the requirements for using the Sandata Real Time Interface (part of the Sandata Open EVV Series of Interface Specifications) 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.

2.1 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.

2.2 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: Rejection responses will be delivered on a separate API call that is initiated by the third party–in near real time.

2.3 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.

Expected result of queued data is…Error Message: "The result for the input UUID is not ready yet. Please try again".

Expected vendor action: Wait 5 minutes before attempting the GET status response.

2.4 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	The **date** and **time** are represented as a string with the following format: YYYY-MM-DDTHH:MM:SSZ All times will be provided in UTC. If time is not material, it will be provided as is expected.	2016-12-20T16:10:28Z
Date (Only Date)	The data is represented as a string with the following format: YYYY-MM-DD Date only will be sent in UTC format.	2016-12-20
Timezone	All time for tracking visits will be in UTC. All time zone values will be derived from 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. The time zone name expected in each transaction is the actual time zone where the event took place. i.e., US/Eastern.	A complete list of time zones can be found at: https://www.iana.org/time- zones See Appendix for the list of time zones.

Data Type	Description	Example
String	A **string** is a row of zero or more characters that 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"
Integer	An **integer** is a numeric value without a decimal. Integers are whole numbers and can be positive or negative.	52110 (positive) -87721 (negative)
Decimal	A floating-point number is referred to as a **decimal**. Can be positive or negative.	8221.231 (positive) -71.214 (negative)
Boolean	A logic predicate indicator that can be either true or false.	true false

3 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.
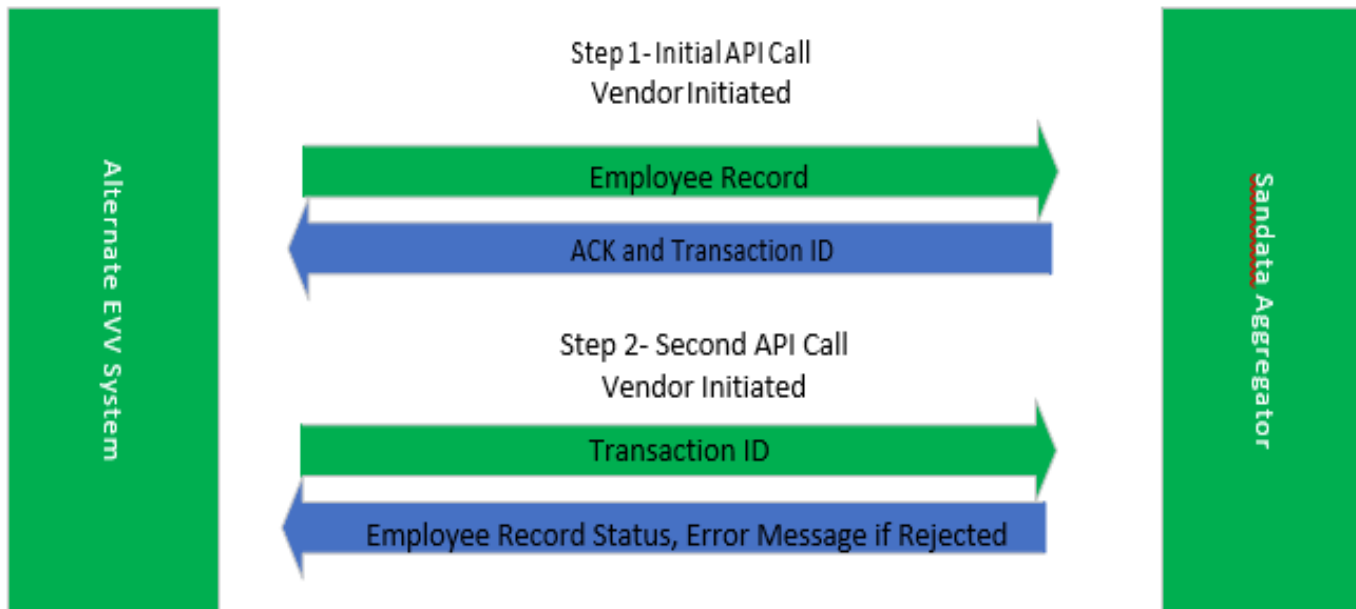
3.1 New Record and Updates

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.

4 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 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.

4.1 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 State ID.

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

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. The log must be completed in the VisitChanges segment.

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 the record is received with a sequential number that is less than the one already processed, the data will be rejected with error "Version number is duplicated or older than current." The vendor must correct the SequenceID and resend the data.

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) 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 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 SequenceID 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:

Clients and Employees must be sent before visits, to ensure they exist in the Sandata system at the time of visit receipt.

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 rejected as 'Worker not found'. The data will not process with an 'Unknown Employee' exception in Aggregator.

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 appendix.

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.

5 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:

Timestamp Value	Formatted as Sequence Number (YYYY+MM+DD+HH+MI+SS)
April 6, 2017 3:23:15pm	20170406152315

Year Month Day Hour (24) Minute Second

6 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

7 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

8 NC-DHB Specific Requirements

This interface, for NC-DHB, is intended for Third-Party EVV Vendors to provide completed visits on at least a daily basis to the Sandata Aggregator. Visits are completed when all required information has been supplied for the visit and all visit exceptions have been remediated. Sandata will verify that visits received pass all NC-DHB edit rules on receipt. Note that the expectation is that all visit changes will be supplied along with the final completed visit.

8.1 EVV- Element- Activity

The following element includes the schedule information for the client. This includes both the client and employee information. Both client and employee must exist in the system for a schedule to be successfully uploaded or it must be part of the same transaction set.

Note: Conditional means if it is present then it is required.

8.2 Client Data Endpoint

This endpoint receives information regarding the individual member/beneficiary (known here as the 'Client') that receives care as part of the visit. Please note - the Client record must be successfully delivered and loaded PRIOR to the delivery of the Visit information, or else the visit will be rejected due to "Client not found".

Index	Element	Description	Max Length	Type	Required?	Expected Value
ProviderIdentification – Required
1	ProviderQualifier	Unique identifier for the provider as determined by the program definition.	20	String	Yes	"Other"
2	ProviderID	Unique identifier for the agency. ID type must match to the ProviderQualifier value being passed for Provider validation and lookup.	50	String	Yes	API- 8-digit ProviderID Format: ######## OR NPI - 10-digit ID Format: ##########
ClientGeneralInformation - Required
1	ClientID	Assigned client_id	Do Not Provide	Do Not Provide	Do Not Provide	Do Not Provide – Sandata Assigned
2	ClientFirstName	Client's First Name.	30	String	Yes	Client's First Name (See Field Level Errors in Appendix 9.7)
3	ClientMiddleInitial	Client's Middle Initial.	1	String	Optional	Client's Middle Initial

Index	Element	Description	Max Length	Type	Required?	Expected Value
4	ClientLastName	Client's Last Name.	30	String	Yes	Client's Last Name (See Field Level Errors in Appendix 9.7)
5	ClientQualifier	Value being sent uniquely identify the client	20	String	Yes	ClientMedicaidID
6	ClientMedicaidID	Unique ID provided by the State Medicaid program to the client.	64	String	Yes	MedicaidID (10-digit ID) Format: ##########
7	ClientIdentifier	Payer assigned client identifier identified by ClientQualifier	64	String	Yes	MedicaidID (10-digit ID) Format: ##########
8	MissingMedicaidID	Indicator that a patient is a newborn. If this value is provided, ClientMedicaidID will be ignored and will be valid as null.	5	String	Optional	"true" | "false"
9	SequenceID	The Third-Party EVV visit sequence ID. Sandata recommends this be a timestamp (to the second) to ensure the order of the client data updates. For HHA System users, the value is the system-generated key.	16	Integer	Yes	Third-Party EVV Vendor Visit Sequence ID. If TIMESTAMP is used: YYYYMMDDHHMMSS Numbers only; no other characters.
10	ClientCustomID	Unique client identifier used by the state to reference the member data across all Medicaid activities. This value will need to be the same as the ClientIdentifier.	Do Not Provide	Do Not Provide	Do Not Provide	Do Not Provide

Index	Element	Description	Max Length	Type	Required?	Expected Value
11	ClientOtherID	Additional client user-defined ID. Commonly used to store client's ID from another system. Used to match client to an existing record during import.	24	String	Yes	MedicaidID (10-digit ID) Format: ##########
12	ClientSSN	Client's social security number. Not required if ClientOtherID is sent. May be required if needed for billing.	Do Not Provide	Do Not Provide	Do Not Provide	Do Not Provide
13	ClientTimezone	Client's primary time zone. Depending on the program, this value may be defaulted or automatically calculated.	64	String	Yes	See Appendix 9.8 for Time Zone Values
ClientAddress – Required						
Required segment. At least one record for each client is required for the program. Multiple addresses are accepted with different address types.						
1	ClientAddressType	This field designates the client address type. Note that multiple of the same type can be provided. Default to Other if not available.	12	String	Yes	"Home"| "Business" | "Other"
2	ClientAddressIsPrimary	One address must be designated as primary by sending true. Additional addresses will be false.	5	String	Yes	"true" | "false"
3	ClientAddressLine1	Street address line 1 associated with this address. PO Box may be used for Safe at Home participants. PO Box may impact GPS reporting.	30	String	Yes	Address Line 1
4	ClientAddressLine2	Street address line 2 associated with this address.	30	String	Optional	Address Line 2
5	ClientCounty	County associated with this address.	25	String	Optional	County

Index	Element	Description	Max Length	Type	Required?	Expected Value
6	ClientCity	City associated with this address.	30	String	Yes	City
7	ClientState	State associated with this address.	2	String	Yes	Two-character standard state abbreviation. (Must be capitalized)
8	ClientZip	Zip Code associated with this address. If additional 4 digits are not known, provide zeros.	9	String	Yes	Zip Code Format: #########
9	ClientAddressLongitude	Calculated for each address.	20	Decimal	Optional	Longitude Value Decimal with sign if negative 3 primary.15digit precision. Decimal format with (-)XXX.XXXXXXXXXXXXXXX digits
10	ClientAddressLatitude	Calculated for each address.	19	Decimal	Optional	Latitude Value Decimal with sign if negative 2 primary.15digit precision. Decimal format with (-)XX.XXXXXXXXXXXXXXX digits
ClientPhone – Conditional					
The fields in this segment marked as required "Yes" are only needed when this segment is sent.					
1	ClientPhoneType	This is the client phone type. Note that multiple of the same type can be provided.	12	String	Yes	"Home" | "Mobile" | "Business" | "Other"
2	ClientPhone	Client phone number including area code.	10	String	Yes	Client Phone Number Format: ##########

Index	Element	Description	Max Length	Type	Required?	Expected Value

8.3 Employee Data Endpoint

This endpoint receives information regarding the individual caregiver (known here as the 'Employee') that delivered the actual care to the individual as part of the visit. Please note- the Employee must be successfully delivered and loaded PRIOR to the delivery of the Visit information, or else the visit will be rejected due to 'Worker not found'.

Index	Element	Description	Max Length	Type	Required?	Expected Value
EmployeeGeneralInformation – Required						
Required data in the body of the transmission. This segment provides the basic information about the employee.						
1	EmployeeQualifier	Descriptive reference of the value being sent to uniquely identify the employee.	20	String	Yes	"EmployeeCustomID" (See Field Level Errors in Appendix 9.7)
2	EmployeeIdentifier	Employee identifier identified by EmployeeQualifier. If employee information is received from the payer, this information will be used to link the received Third Party EVV information with the payer information provided and should be defined as the same value.	9	String	Yes	Vendor Unique ID for the Employee Format: #########
3	EmployeeOtherID	Unique employee identifier in the external system, if any.	Do Not Provide	Do Not Provide	Do Not Provide	Do Not Provide
4	SequenceID	The Third-Party EVV visit sequence ID to which the change applied.	16	Integer	Yes	Third-Party EVV Visit Sequence ID. If TIMESTAMP is used: YYYYMMDDHHMMSS Numbers only; no other characters.

Index	Element	Description	Max Length	Type	Required?	Expected Value
5	EmployeeSSN	Employee Social Security Number.	9	String	Yes	Last 5-digits of SSN Format: 0000##### Should be masked
6	EmployeeLastName	Employee's last name.	30	String	Yes	Employee's Last Name (See Field Level Errors in Appendix 9.7)
7	EmployeeFirstName	Employee's first name.	30	String	Yes	Employee's First Name (See Field Level Errors in Appendix 9.7)
8	EmployeeEmail	Employee's email address.	64	String	Optional	Employee's Email Address Format: "@" and extension (.xxx) are required to validate as an email address
9	EmployeeManagerEmail	Email of the employee's manager.	64	String	Optional	Employee's Manager Email Address Format: "@" and extension (.xxx) are required to validate as an email address
10	EmployeeAPI	Employee client's alternate provider identifier or Medicaid ID.	Do Not Provide	Do Not Provide	Do Not Provide	Do Not Provide
11	EmployeePosition	Values for payer/state programs to be determined during implementation. **If multiple positions, send primary.**	3	String	Optional	Valid values include: HHA, HCA, RN, LPN, PCA
12	EmployeeHireDate	Employee's Date of Hire.	10	Date	Optional	Hire Date Format: YYYY-MM-DD
13	EmployeeEndDate	Employee's HR recorded end date.	10	Date	Optional	Hire Date Format: YYYY-MM-DD

Index	Element	Description	Max Length	Type	Required?	Expected Value

8.4 Visit Data Endpoint

This endpoint receives the information regarding the EVV visits themselves- including all individual components of the visit, and corrections/changes to the visits over time. Please Note: The visit information must be loaded AFTER the client and the employee associated with the visit have been successfully loaded, or else the visit record will be rejected with appropriate error description.

VisitGeneralInformation – Required						
Required segment provides the base data regarding an EVV visit. If a visit is changed (corrections, alterations, updates) over time, the same visit may be delivered multiple times, **each sharing the same 'VisitOtherID'**, but each change represented with a different Sequence ID- ascending over time- to allow the state's Aggregator system to keep the changes ordered appropriately. *Each update requires a 'VisitChanges' segment*.						
1	VisitOtherID	Visit identifier in the external system.	50	String	Yes	Visit Identifier
2	SequenceID	The Third-Party EVV visit sequence ID to which the change applied.	16	Integer	Yes	Third-Party EVV Visit Sequence ID If TIMESTAMP is used: YYYYMMDDHHMMSS Numbers only; no other characters.
3	EmployeeQualifier	Descriptive reference of the value being sent to uniquely identify the employee.	20	String	Yes	"EmployeeCustomID"
4	EmployeeOtherID	Unique employee identifier in the external system, if any.	Do Not Provide	Do Not Provide	Do Not Provide	Do Not Provide
5	EmployeeIdentifier	Employee identifier identified by EmployeeQualifier. If employee information is received from the payer, this information will be used to link the received Third Party EVV information with the payer information provided and should be defined as the same value.	9	String	Yes	Vendor Unique ID for the Employee Format: #########

Index	Element	Description	Max Length	Type	Required?	Expected Value
6	GroupCode	This visit was part of a group visit. GroupCode is used to reassemble all members of the group.	6	String	Optional	GroupCode
7	ClientIDQualifier	Describes what type of identifier is being sent to identify the client.	20	String	Yes	"ClientMedicaidID"
8	ClientID	Unique client identifier used by the state to reference the member data across all Medicaid activities.	64	String	Yes	ClientMedicaidID (10-digit ID) Format: ##########
9	ClientOtherID	Additional client user-defined ID. This value is used to match the client to an existing record during import. **RULE: Provide this value if also included in the Client_General segment.**	24	String	Conditional	ClientMedicaidID (10-digit ID) Format: ##########
10	VisitCancelledIndicator	Set to false as the default. Set to true if a future scheduled visit previously sent and accepted with NO "CallIn", "CallOut" or "Adjusted" times to be cancelled / deleted. Can only be applicable to future schedules.	5	String	Yes	"true" | "false" Can only be true or false.
11	PayerID	Sandata EVV assigned ID for the payer.	64	String	Yes	See Appendix 9.1 PayerID column
12	PayerProgram	If applicable, the program to which this visit belongs.	9	String	Yes	See Appendix 9.1 ProgramID column
13	ProcedureCode	This is the billable procedure code which would be mapped to the associated service.	5	String	Yes	HCPCS Code as listed. See Appendix 9.1.1

Index	Element	Description	Max Length	Type	Required?	Expected Value
14	Modifier1	Modifier for the HCPCS code for the 837. Up to 4 of these are allowed. Please consult specific program requirements for exact usage. It is required to apply modifier values in the order specifically listed in the Appendix.	2	String	Conditional	Service Code modifiers as listed in Appendix. Value must match distinct values from reference tables and modifiers must be in order as defined. Should be "NULL" if nothing is provided. See Appendix 9.1.1
15	Modifier2	Modifier for the HCPCS code for the 837. Up to 4 of these are allowed. Please consult specific program requirements for exact usage. It is required to apply modifier values in the order specifically listed in the Appendix.	2	String	Conditional	Service Code modifiers as listed in Appendix. Value must match distinct values from reference tables and modifiers must be in order as defined. Should be "NULL" if nothing is provided. See Appendix 9.1.1
16	Modifier3	Modifier for the HCPCS code for the 837. Up to 4 of these are allowed. Please consult specific program requirements for exact usage. It is required to apply modifier values in the order specifically listed in the Appendix.	2	String	Conditional	Service Code modifiers as listed in Appendix. Value must match distinct values from reference tables and modifiers must be in order as defined. Should be "NULL" if nothing is provided. See Appendix 9.1.1
17	Modifier4	Modifier for the HCPCS code for the 837. Up to 4 of these are allowed. Please consult specific program requirements for exact usage. It is required to apply modifier values in the order specifically listed in the Appendix.	2	String	Conditional	Service Code modifiers as listed in Appendix. Value must match distinct values from reference tables and modifiers must be in order as defined. Should be "NULL" if nothing is provided. See Appendix 9.1.1

Index	Element	Description	Max Length	Type	Required?	Expected Value
18	VisitTimeZone	Visit primary time zone. Depending on the program, this value may be defaulted or automatically calculated.	64	String	Yes	See Appendix 9.8 for Time Zone Values
19	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. Schedules are required in all cases. Lack of a schedule is on an exception basis.	20	DateTime	Optional	FORMAT: YYYY-MM-DDTHH:MM:SSZ **MUST send an exception code when "NULL" is sent in ScheduleStartTime.** See Appendix 9.3 for Exceptions
20	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. Schedules are required in all cases. Lack of schedule is on an exception basis.	20	DateTime	Optional	FORMAT: YYYY-MM-DDTHH:MM:SSZ **MUST send an exception code when "NULL" is sent in ScheduleStartTime.** See Appendix 9.3 for Exceptions
21	AdjInDateTime	Adjusted in date/time if entered manually. Otherwise, the actual date/time received. **The VisitChanges segment is required when this is sent.**	20	DateTime	Optional	Adjusted In Date and Time Format: YYYY-MM-DDTHH:MM:SSZ
22	AdjOutDateTime	Adjusted out date/time if entered manually. Otherwise, the actual date/time received. **The VisitChanges segment is required when this is sent.**	20	DateTime	Optional	Adjusted Out Date and Time Format: YYYY-MM-DDTHH:MM:SSZ

Index	Element	Description	Max Length	Type	Required?	Expected Value
23	BillVisit	True for all visits to be billed. False is only sent if the visit is not to be considered for claims validation and set to omit status. **If no value is sent, this defaults to "false"**	5	String	Optional	"true" | "false"
24	HoursToBill	Hours that are going to be billed.	99.999	Decimal	Optional	Actual hours in decimal
25	HoursToPay	If payroll is in scope for the payer program, the hours to pay.	99.999	Decimal	Optional	Actual hours in decimal
26	Memo	Associated free form text.	512	String	Optional	
Calls – Conditional						
Conditional segment if calls are not provided, adjusted times must be included in the parent visit element. Visit first instance expected to include calls with actual captured clock in and clock out, with appropriate CallType. All time adjustments must be in the adjusted time fields, in the parent visit. 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. The fields in this segment marked as required "Yes" are only needed when this segment is sent.						
1	CallExternalID	Call identifier in the external system.	16	String	Yes	Call Identifier
2	CallDateTime	Event date time. Must be to the second.	20	DateTime	Yes	Call Date Time Format: YYYY-MM-DDTHH:MM:SSZ
3	CallAssignment	This identifies the call assignment type.	10	String	Yes	"Time In" | "Time Out"
4	GroupCode	This visit was part of a group visit. GroupCode is used to reassemble all members of the group.	6	String	Optional	GroupCode

Index	Element	Description	Max Length	Type	Required?	Expected Value
5	CallType	The type of device used to create the event. Any call with GPS data collected should be identified as Mobile. FVV should be used for any type of fixed visit verification device. **NOTE: VisitChanges segment is required for CallType = Manual or Other**	20	String	Yes	"Telephony" | "Mobile" | "FVV" | "Manual" |" Other"
6	ProcedureCode	This is the billable procedure code which would be mapped to the associated service.	5	String	Yes	HCPCS Code See Appendix 9.1.1
7	ClientIdentifierOnCall	If a client identifier was entered on the call, this value should be provided.	10	String	Conditional	MedicaidID (10-digit ID) Format: ##########
8	MobileLogin	Login used if a mobile application is in use for GPS calls. **Required if CallType = Mobile.**	64	String	Conditional	Mobile Login Only special characters allowed are "@" and "." Example: XXXXXXX@XXXX.XXX
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	Latitude Value Decimal with sign if negative 2 primary.15digit precision. Decimal format with (-)XX.XXXXXXXXXXXXXXX digits
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	Longitude Value Decimal with sign if negative 3 primary.15digit precision. Decimal format with (-)XXX.XXXXXXXXXXXXXXX digits

Index	Element	Description	Max Length	Type	Required?	Expected Value
11	TelephonyPIN	PIN for telephony. Identification for the employee using telephony. **Required if CallType = Telephony.**	9	Integer	Conditional	Telephony PIN Numbers only
12	OriginatingPhoneNumber	Originating phone number for telephony. **Required if CallType = Telephony.**	10	String	Conditional	Originating Phone Number No Special Characters
13	VisitLocationType	Self-Reported visit location for all call types. 1=Home, 2=Community	25	String	Required	"1" | "2"
VisitChanges – Conditional						
Conditional segment provided when a visit has been manually entered, adjusted, or updated in the source system. The Visit General segment should reflect the updated information, while this associated Visit Change segment should record the details around that change and supply the reason code for why it occurred. When the VisitChanges segment is used, the visit is considered Manually Verified. The fields in this segment marked as required "Yes" are only needed when this segment is sent.						
1	SequenceID	The Third-Party EVV visit sequence ID to which the change applied	16	String	Yes	Third-Party EVV Visit Sequence ID. If TIMESTAMP is used: YYYYMMDDHHMMSS Numbers only; no other characters.
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	Unique Identifier of Change Agent Required – Username or User Identifier who completed the change to the visit information (Audit)
3	ChangeDateTime	Date and time when change is made. At least to the second.	20	DateTime	Yes	Date and Time When Change is Made Format: YYYY-MM-DDTHH:MM:SSZ

Index	Element	Description	Max Length	Type	Required?	Expected Value
4	GroupCode	This visit was part of a group visit. GroupCode is used to reassemble all members of the group.	6	String	Optional	Group Code
5	ReasonCode	Reason Code associated with the change.	4	String	Yes	See Appendix 9.2 Reason Code Column Format: ##
6	ChangeReasonMemo	Reason/Description of the change being made if entered. Required for some reason codes and CallType "Manual" or "Other" or if "Adjusted" times are included.	256	String	Conditional	See Appendix 9.2 Note Required column to determine if required
7	ResolutionCode	Resolution codes, if selected. Resolution Codes are specific to the program.	4	String	Yes	"A" = Written Documentation Maintained
VisitExceptionAcknowledgement – Conditional
Conditional segment provided for a visit when it has corrections, alterations, or updates that caused exceptions, which have been acknowledged by the provider agency. Every exception that is acknowledgeable (versus exceptions that require a fix- or alteration of the visit data) must have an acknowledgement for the visit to be fully verified and compliant with the EVV program's rules. The fields in this segment marked as required "Yes" are only needed when this segment is sent.
1	ExceptionID	ID for the exception being acknowledged.	2	String	Yes	See Appendix 9.3 for values
2	ExceptionAcknowledged	True to acknowledge exceptions that are indicated as acknowledgeable only. False by default.	5	String	Yes	"true" or "false"
Tasks– Conditional
If you wish to match tasks from the original system to those allowed from the Task Appendix you can transfer those using this section. This is an OPTIONAL segment. The fields in this segment marked as required "Yes" are only needed when this segment is sent.
1	TaskID	TaskID must map to Task ID's used for the agency in the Sandata System	4	String	Yes	See Appendix 9.4 - Task ID column

Index	Element	Description	Max Length	Type	Required?	Expected Value
2	TaskReading	Task Reading	6	String	Optional	
3	TaskRefused	True if task refused, False if not refused	5	String	Optional	"true" or "false"

9 Appendices

9.1 Payers & Programs

Note: New Payer/Program codes for DHBTP-TPPCS will be live on 12/1/2022			
PayerID	Payer Program	Payer Name	Program Description
DHBTP	HHTHER	NCDHB-TP	TP Encounters Home Health Services Therapy
DHBTP	HHSNV	NCDHB-TP	TP Encounters Home Health Services Skilled Nursing Visits
DHBTP	HHAID	NCDHB-TP	TP Encounters Home Health Services Aide
DHBTP	TPPCS	NCDHB-TP	TP Encounters Managed Care

9.1.1 HCPCS Procedure Codes

Payers, Program, Services, & Modifiers:

Payer	Program	HCPCS Code	Modifier 1	Modifier 2	Modifier 3	Modifier 4	Description
DHBTP	TPPCS	99509	HA				TPPCS Under Twenty-One
DHBTP	TPPCS	95509	HB				TPPCS Adults
DHBTP	HHTHER	RC420					TP Physical Therapy
DHBTP	HHTHER	RC424					TP PT Evaluation
DHBTP	HHTHER	RC430					TP Occupational Therapy
DHBTP	HHTHER	RC434					TP OT Evaluation
DHBTP	HHTHER	RC440					TP Speech Therapy
DHBTP	HHTHER	RC444					TP ST Evaluation
DHBTP	HHSNV	RC550					TP SN Assessment
DHBTP	HHSNV	RC551					TP SN Treatment/Observation
DHBTP	HHSNV	RC559					TP SN Dual Elig/NonMedicare

DHBTP	HHAID	RC570					TP Home Health Aide Visit
DHBTP	HHSNV	RC580					TP SN Venipuncture
DHBTP	HHSNV	RC581					TP SN Med Asst
DHBTP	TPPCS	S5125					TP Personal Care
DHBTP	TPPCS	T1015					TP In Home Intensive
DHBTP	TPPCS	T1019	U4				TP Personal Care/Individual Support
DHBTP	TPPCS	T2013					TP Life Skills Training -Individual and Group
DHBTP	TPPCS	T2013	TF	HQ	U4		TP (b)(3) Community Living and Supports - Group
DHBTP	TPPCS	T2013	TF	U4			TP (b)(3) Community Living and Supports
DHBTP	TPPCS	T2013	TF	HQ			TP (IN) Community Living and Supports-Group
DHBTP	TPPCS	T2013	TF				TP (IN) Community Living and Supports

9.2 Reason Codes

Reason Code	Description	Memo Required
1	Caregiver Error	Yes
2	Beneficiary Suspended	Yes
3	Mobile Device Issue	Yes
4	Telephony Issue	Yes
5	Beneficiary in Hospital	Yes
6	Unsafe Environment	Yes
7	Beneficiary Refused Service	Yes
8	Beneficiary No Show	Yes
9	Caregiver No Show	Yes
10	FVV Device not Available	Yes
11	Legally Responsible Party Refused Service	Yes
12	Other	Yes

9.3 Exceptions

Any visit changes and exception acknowledgement should reference these valid exception values when submitting data above. When visits are sent to Sandata via the Alt-EVV API, the Sandata system will calculate "exceptions" based on the incoming data. Business rules are applied to the visit based on the configuration for the program. These rules may trigger visits to be flagged with exceptions, denoting business rules that are not being met. Visits with exceptions will not be "Approved" or "Verified", and thus may be excluded from additional processing, such as claims validation or data exports. Users of the Alt-EVV API have the opportunity to "Acknowledge" certain exceptions. This tells the Sandata system that the exception has been handled in   the source system. Thus, the visit can be treated as "Approved" or "Verified", so long as all calculated exceptions are marked as "Acknowledged".

Exception Code	Acknowledge/Fix	Exception Name	Description
0	Fix: Resubmit visit	Unknown Client	Exception for a visit that was performed for a recipient of care that is not yet entered or not found in the EVV system. Note: Visit data will reject on intake. Client on visit must match to an existing client within the distinct Provider Agency Account.
1	Fix: Resubmit visit	Unknown Employee	(Telephony only) Exception for a visit that was performed by a caregiver who was not yet entered or not found in the EVV system (At the time the visit was recorded). Note: Visit data will reject on intake. Client on visit must match to an existing client within the distinct Provider Agency Account.
3	Fix: Resubmit visit	Visits Without In-Calls	Exception thrown when a visit is recorded without an "in" call that began the visit. Note: All visits will require the Call segment to be provided.
4	Fix: Resubmit visit	Visits Without Out-Calls	Exception thrown when a visit is recorded without an "out" call that completed the visit. Note: All visits will require the Call segment to be provided.
5	Acknowledgeable	Unscheduled Visits	(Scheduling only) This occurs when a visit is started or completed without a schedule in place for that member+service+caregiver.
21	Acknowledgeable	No Show	(Scheduling only) This exception occurs when a visit has been scheduled, but no calls have been received for that visit.

| 23 | Fix: Resubmit visit | Missing Service | Exception when the service provided during a visit is not recorded or present in the system.
Note: Visit data will reject if the inbound service (ProcedureCode) does not match a record defined in the specification Appendix. |
| 42 | Fix: Resubmit visit | Missing Location | Exception thrown when a visit is received without location of Home/Community. |

9.4 Tasks

TaskID	Category	Task Description
0010	Bathing / Personal Hygiene	Tub bath or shower
0020	Bathing / Personal Hygiene	Upper body
0030	Bathing / Personal Hygiene	Lower body
0040	Bathing / Personal Hygiene	Tub/shower transfer/position
0050	Bathing / Personal Hygiene	Bed bath
0060	Bathing / Personal Hygiene	Sponge bath
0070	Bathing / Personal Hygiene	Additional transfer (reposition in bed, change occupied bed)
0080	Bathing / Personal Hygiene	Shampoo/hair care
0090	Bathing / Personal Hygiene	Skin care (includes wash face/hands, foot care)
0100	Bathing / Personal Hygiene	Nail care
0110	Bathing / Personal Hygiene	Mouth/oral/denture care
0120	Bathing / Personal Hygiene	Shave
0130	Dressing	Don clothing/shoes/socks
0140	Dressing	Remove clothing/shoes/socks
0150	Dressing	Clothing and shoe fasteners
0160	Dressing	Assist with TEDS
0170	Dressing	Assist with braces/splints
0180	Dressing	Assist with binders

0190	Dressing	Assist with prosthetics
0200	Mobility	Transfer to/from bedroom
0210	Mobility	Ambulation room to room
0220	Mobility	Assist with stairs
0230	Mobility	Passive/active ROM
0240	Mobility	Turn/reposition
0250	Toileting	Remove/pull up/fasten garments
0260	Toileting	Hygiene after toileting
0270	Toileting	Transfer to/from BSC or toilet
0280	Eating	Assist with cutting food
0290	Eating	Assist with feeding
0300	Eating	Assist with utensil usage
0310	Eating	Lift limb to mouth
0320	Eating	Tube feeding
0330	Eating	Clean meal service area
0340	Eating	Clean utensils/dishes, empty trash
0350	Eating	Open packages
0360	Eating	Equipment set up and clean up
0370	Eating	Heat/assemble food
0380	Mobility	Transfer to/from chair
0390	Transfer	To/from bed
0400	Transfer	To/from chair
0410	Transfer	To/from toilet
0420	Transfer	To/from scooter
0430	Transfer	To/from stroller
0440	Transfer	To/from wheelchair
0450	Transfer	to/from vehicle
0460	Personal Hygiene	Shampoo/hair care
0470	Personal Hygiene	Skin care (includes wash face/hands, foot care)
0480	Personal Hygiene	Make up

0490	Personal Hygiene	Nail care/trimming
0500	Personal Hygiene	Mouth/oral/denture care
0510	Personal Hygiene	Shaving
0520	Additional Tasks	Errands to assist with ADLs (CAP only)
0530	Additional Tasks	BP monitoring
0540	Additional Tasks	Blood glucose monitoring
0550	Additional Tasks	Medication self-administration reminders
0560	Additional Tasks	Break up and remove fecal impaction
0570	Additional Tasks	IV fluid assistive activities
0580	Additional Tasks	O2 therapy
0590	Additional Tasks	Ostomy care/irrigation
0600	Additional Tasks	Sterile dressing change (wound over 48 hours old)
0610	Additional Tasks	Suctioning, nasopharyngeal
0620	Additional Tasks	Suctioning, oropharyngeal
0630	Additional Tasks	Tracheostomy care
0640	Additional Tasks	Urinary catheterization/irrigation
0650	Additional Tasks	Wound irrigation
0660	Additional Tasks	Tube feeding and G-tube management

9.5   Acronyms & Definitions

Abbreviation	Name
AKA	Also Known As
API	Application Programming Interface
GMT	Greenwich Mean Time
HTTP	Hyper Text Transfer Protocol
TBD	To Be Determined
UTC	Universal Time Coordinated

9.6   Terminology

Sandata Terminology	Other Possible References
Agency	Agency Provider Provider Account Billing Agency
Authorization	Service Plan Prior Auth
Client	Individual Patient Member Recipient Beneficiary
Contract	Program Program Code
Employee	Caregiver Admin
HCPCS	Healthcare Common Procedure Coding System
Payer	Admission Insurance Company Contract Managed Care Organization (MCO) State
Provider	Agency Third-Party Administrator (TPA)

9.7 Field Level Errors

Section	Field Name	Description
Client General	ClientFirstName	Only the following special character will be accepted: Alpha Letters Hyphens Periods Apostrophe All other special characters will be rejected.
Client General	ClientLastName	Only the following special character will be accepted: Alpha Letters Hyphens Periods Apostrophe All other special characters will be rejected.
Client General	ClientQualifier	The value is the actual string value "ClientQualifier" and is required to be mixed case.
Employee General	EmployeeLastName	Only the following special character will be accepted: Alpha Letters Hyphens Periods Apostrophe All other special characters will be rejected.
Employee General	EmployeeFirstName	Only the following special character will be accepted: Alpha Letters Hyphens Periods Apostrophe All other special characters will be rejected.
Employee General	EmployeeQualifier	The value is the actual string value "EmployeeQualifier" and is required to be mixed case.

9.8 Time Zone List

This is the common list of time zone 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/Central	Active
US/Eastern	Active
US/Mountain	Active
US/Pacific	Active