IBM Cúram Social Program Management 8.0.0

Cúram Incremental Modernization and Transformation (IMT) Web Services Cookbook



Note

Before using this information and the product it supports, read the information in "Notices" on page 28

Edition

This edition applies to IBM® Cúram Social Program Management 8.0.0.

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Chapter 1. Cúram Incremental Modernization and Transformation Web Services Cookbook

The required input and response parameters for Cúram web service are described. Examples of the expected XML messages that are sent and received from Cúram web services are provided. The following web services are available as part of Cúram: register person, claim intake, evidence maintenance, verification, determination, and triage.

Introduction

Purpose

This guide is intended as a reference handbook for developers working on Cúram Web Services. The guide lists the required input and response parameters for each service, and gives examples of the expected XML messages sent and received.

Cúram Web Services are a means of providing services that are normally available within the Cúram system only, to external systems. The web services currently available are:

- · Register Person
- · Claim Intake
- Evidence Maintenance
- Verification
- Determination
- Triage

Audience

This guide is intended for developers working on Cúram Web Services.

Prerequisites

To best make use of this guide, the reader should have experience in developing the functionality which is available in the application.

Chapters in this Guide

The following list describes the chapters within this guide:

Register Person

Register Person gathers the information required to create a person in the Cúram system.

Claim Intake

Claim intake gathers the information required to create a case within the Cúram system.

Evidence Maintenance

Evidence is the data used to determine entitlement for benefits and services. This chapter describes the requirements for creating, reading and activating evidence.

Verification

Verification confirms the accuracy of information given by clients seeking assistance from SEM agencies.

Determination

Determination takes information gathered in the Cúram system as part of intake, and applies it against enterprise-specific and program-specific rules to create eligibility decisions.

Triage

Triage applies an initial level of review to a basic set of information, to determine a client's need or likely benefit from a program or service.

Register Person

The Register Person Service

Register Person gathers the information required to create a person in the Cúram system. This service equates to the Register Person business process currently available in the Cúram system. In addition it can operate off a list to allow for registration of more than one client in a single web service call. This will optimize performance as it prevents the overhead involved in calling the service multiple times.

When this service is complete, the person details will be stored in the Cúram system for later reference and use by subsequent services. For example, the person record may be referenced by the Claim Intake service, to allow a product delivery case to be created in the Cúram system against a previously registered person. Person details may be used by the Determination web service.

Certain data items are mandatory as part of the Register Person business process currently available in the Cúram system, and therefore must also be populated in the web service. Otherwise the web service will require exception handling.

Incoming Parameters

Minimum Requirements

The parameters are used to populate the internal struct: core.facade.PersonRegistrationDetails:

| Table 1. Fields | | |
|--------------------|--|------------------|
| Intake Element | t Map to Parameter Schema Type | |
| firstname | firstForeName | xs:string. |
| surname | surname | xs:string |
| gender | ender sex bt:codetablecode | |
| dateOfBirth | dateOfBirth bt:date | |
| dateOfRegistration | registrationDate | bt:date |
| maritalStatus | currentMaritalStatus bt:codetablecode | |
| nationality | nationality nationality bt:codetablecode | |
| countryOfBirth | countryOfBirth bt:codetablecode | |
| addressLayout | addressData.addressLayoutType bt:codetablecode | |
| addressLine1 | addressData.addressLayoutType | bt:codetablecode |

Incoming Parameter Descriptions

| Parameter | Domain | Description |
|-------------------------------|---------------------|---|
| firstForeName | FIRST_FORENAME | The first name of the person to be registered. Type: string |
| surname | SURNAME | The surname of the person to be registered. Type: string |
| sex | GENDER_CODE | The gender of the person to be registered. Code table: Gender |
| dateOfBirth | CÚRAM_DATE | The date of birth of the person to be registered. Format: ddMMyyyy |
| registrationDate | CÚRAM_DATE | The date of the persons registration. Format: ddMMyyyy |
| currentMaritalStatus | MARITAL_STATUS_CODE | The marital status of the person to be registered. Code table: MartialStatus |
| nationality | NATIONALITY_CODE | The nationality of the person to be registered. Code table: Nationality |
| birthCountry | COUNTRY_CODE | The country of birth of the person to be registered. Code table: Country |
| addressData.addressLayoutType | ADDRESS_DATA | The address layout type for the incoming address details. Code table: AddressLayoutType |
| addressData.addressLine1 | ADDRESS_DATA | The first line of the address of the person to be registered. Type string |

Optional Incoming Parameters

| Table 3. Additional Parameters | | |
|--------------------------------|---|------------------|
| Intake Element | Map to Parameter Schema Type | |
| address.addressLine2 | addressData.addressLine2 | bt:addressdata |
| address.addressLine3 | addressData.addressLine3 | bt:addressdata |
| address.addressLine4 | addressData.addressLine4 | bt:addressdata |
| address.addressLine5 | addressData.addressLine5 bt:addressdata | |
| address.city | addressData.city | bt:string |
| address.county | addressData.county | bt:codetablecode |
| address.country | addressData.country | bt:codetablecode |
| address.postalCode | addressData.postalCode bt:codetablecode | |
| address.statecode | addressData.statecode bt:codetablecode | |
| address.comments | addressData.comments | bt:string |

| Intake Element | Map to Parameter | Schema Type | |
|------------------------------|--|------------------|--|
| address.statusCode | addressData.statusCode | bt:codetablecode | |
| address.zipCode | addressData.zipCode bt:codetablecode | | |
| addressType | addressType | bt:codetablecode | |
| addressIndicator | addressIndicator | bt:boolean | |
| mailingAddress.addressLayout | mailingAddressData.addressLayo utType | bt:codetablecode | |
| mailingAddress.addressLine1 | mailingAddressData.addressLine | bt:addressdata | |
| mailingAddress.addressLine2 | mailingAddressData.addressLine 2 | bt:addressdata | |
| mailingAddress.addressLine3 | mailingAddressData.addressLine 3 | bt:addressdata | |
| mailingAddress.addressLine4 | mailingAddressData.addressLine 4 | bt:addressdata | |
| mailingAddress.addressLine5 | mailingAddressData.addressLine 5 | bt:addressdata | |
| mailingAddress.city | mailingAddressData.city | bt:string | |
| mailingAddress.county | mailingAddressData.county | bt:codetablecode | |
| mailingAddress.country | mailingAddressData.country | bt:codetablecode | |
| formattedAddress | formattedAddressData bt:addressData | | |
| othername | otherForename bt:string | | |
| type | type | bt:codetablecode | |
| title | title bt:codetableco | | |
| initials | initials | bt:string | |
| suffix | nameSiffix | bt:string | |
| ssn | socialSecurityNumber | bt:string | |
| motherBirthSurname | motherBirthSurname | bt:string | |
| preferredName | preferredName | bt:string | |
| verifiedDateOfBirth | dateOfBirthVerified | bt:boolean | |
| dateOfDeath | dateOfDeath bt:date | | |
| verifiedDateOfDeath | dateOfDeathVerified bt:boolean | | |
| specialInterest | specialInterest bt:codetablecode | | |
| phoneType | phoneType | bt:string | |
| phoneCountry | phoneCountryCode | bt:codetablecode | |
| phoneAreaCode | phoneAreaCode | bt:int32 | |
| phoneNumber | phoneNumber bt:int32 | | |

| Intake Element | Map to Parameter | Schema Type | |
|--------------------------|------------------------------|--------------------------|--|
| phoneExtension | phoneExtension | bt:int32 | |
| contactPhoneNumber | contactPhoneNumber | bt:int32 | |
| contactPhoneCountry | contactPhoneCountryCode | bt:codetablecode | |
| contactPhoneArea | contactPhoneAreaCode | bt:int32 | |
| contactName | contactName | bt:string | |
| contactPhoneExtension | contactPhoneExtension | bt:int32 | |
| contactEmail | contactEmailAddress | bt:string | |
| contactEmailType | contactEmailType | bt:codetablecode | |
| contactTitle | contactTitle | bt:string | |
| publicOffice | publicOfficeID | bt:int16 | |
| preferredPOfficeContact | preferredPublicOfficeContact | bt:string | |
| preferredPOfficeName | preferredPublicOfficeName | bt:string | |
| preferredLanguage | preferredLanguage | bt:codetablecode | |
| placeOfBirth | birthPlace | bt:string | |
| concernID | concernID | bt:long | |
| ethnicOrigin | ethnicOriginCode | bt:codetablecode | |
| exceptionMethod | commExceptionMethodCode | bt:codetablecode | |
| exceptionReason | commExceptionReasonCode | bt:codetablecode | |
| exceptionFromDate | commExceptionFromDate | bt:date | |
| exceptionToDate | commExceptionToDate | bt:date | |
| foreignResidencyCountry | foreignResidencyCountryCode | bt:codetablecode | |
| foreignResidencyReason | foreignResidencyReasonCode | bt:codetablecode | |
| foreignResidencyFromDate | foreignResidencyFromDate | bt:date | |
| foreignResidencyToDate | foreignResidencyToDate | bt:date | |
| citizenshipCountry | citizenshipCountryCode | bt:codetablecode | |
| citizenshipReason | citizenshipReasonCode | bt:codetablecode | |
| citizenshipFromDate | citizenshipFromDate | bt:date | |
| citizenshipToDate | citizenshipToDate | bt:date | |
| preferredCommMethod | preCommMethod | mMethod bt:codetablecode | |
| relatedClientID | relatedConcernRoleID | bt:clientIdentifier | |
| paymentFrequency | paymentFrequency | bt:frequencyPattern | |
| nextPaymentDate | nextPaymentDate | bt:date | |
| paymentMethod | methodOfPmtCode | bt:string | |

```
<root>
 <register>
  <registerPerson id="123252">
   <firstname>MARY</firstname>
   <surname>McConnell</surname>
   <gender>SX1</gender>
   <dateOfBirth>06061975</dateOfBirth>
   <dateOfRegistration>12112007</dateOfRegistration>
   <martialStatus>MS1</martialStatus>
   <nationality>NT7</nationality>
   <br/>
<br/>
dirthCountry>PK</birthCountry>
   <address>
     <addressLayout>US</addressLayout>
    <addressLine1>PineWood</addressLine1>
     <addressLine2>THe hills</addressLine2>
     <addressLine3>HillView</addressLine3>
     <addressLine4>The Rise</addressLine4>
     <addressLine5>Malahide</addressLine5>
    <city>Ballymun</city>
    <countryCode>US</countryCode>
   </address>
  </registerPerson>
 </register>
</root>
```

Figure 1. Inbound Example: Register Person

Response Message

Response Parameters

The parameters are contained within the internal struct: core.facade.PersonRegistrationResult

| Table 4. Response Parameters | | |
|---|----------|------|
| Map from Parameter Reponse Element Type | | Туре |
| clientID | clientID | long |

Response Parameter Descriptions

| Table 5. Parameter Descriptions | | |
|---------------------------------|-----------------|---|
| Parameter | Domain | Description |
| id attribute | n/a | An optional identification, if found in the original inbound details, is included within the response message. This allows the third party to easily match inbound and outbound person registration data. Type: int |
| clientID | CONCERN_ROLE_ID | The client identifier of the related client. Type: long |

```
<receiveDocumentReturn>
    <response>
    <registerPerson id="123252" success="true">
        <cli>clientID>5449355549118300160</clientID>
        </registerPerson>
        </response>
        </receiveDocumentReturn></re>
```

Figure 2. Response Example : Register Person

```
<receiveDocumentReturn>
  <response>
  <registerPerson success="false" id="123252">
   <exception>
   <message>An error occurred during the person registration process.</message>
  <exceptionMessage>The codetable Gender does not contain the value passed: SX100.
  </exceptionMessage>
  </exception>
  </registerPerson>
  </receiveDocumentReturn>
```

Figure 3. Error Response Example: Register Person

Claim Intake

The Claim Intake Service

Claim intake gathers the information required to create a case within the Cúram system. This service equates to the Create Product Delivery business process and therefore we do not include details of the creation of Integrated Case, Service Plan or any other case type. The objective is to make a product delivery case available for the subsequent storage of evidence and execution of business services, such as verification and determination.

Certain configuration data is required in order for a product delivery case to be successfully created. This configuration data must be created in advance of using Claim Intake services. Therefore it is assumed that the product and the product provider configuration data are available for this service. Also it is assumed that primary client for whom the claim is being captured has already been registered on the Cúram system using the Register Person service.

Incoming Parameters

Minimum Requirements

The parameters are used to populate the internal struct: core.facade.CreateCaseDetails

| Table 6. Minimum Requirements | | | |
|-------------------------------|-------------------|------------------------------|--|
| Intake Element | Map to Parameter | Schema Type | |
| clientID | clientID | bt:clientIdentifier | |
| productID | productID | bt:productProviderIdentifier | |
| providerID | productProviderID | bt:productProviderIdentifier | |
| providerLocation | providerLocation | bt:providerLocation | |

| Table 6. Minimum Requirements (continued) | | |
|---|--------------------------|---------------------------------------|
| Intake Element | Map to Parameter | Schema Type |
| deliveryPattern | productDeliveryPatternID | bt:providerDeliveryPatternIdentif ier |
| receivedDate | receivedDate | bt:date |
| currency | currencyType | bt:codetablecode |

Incoming Parameter Descriptions

| Table 7. Parameter Descriptions | | |
|---------------------------------|-----------------------------|---|
| Parameter | Domain | Description |
| clientID | CONCERN_ROLE_ID | The client's identification. Type: long. |
| productID | PRODUCT_ ID | The case product's identification. Type: long. |
| providerID | PRODUCT_PROVIDER _ID | The case's product provider's identification. Type: long. |
| providerLocation | PROVIDER_LOCATION | The case's provider's location. Type: int. |
| deliveryPattern | PRODUCT_DELIVERY_PATTERN_ID | The Identification of the product's delivery pattern. Type: long. |
| receivedDate | Cúram_DATE | The date of receipt. Format: ddMMyyyy |
| currency | CURRENCY_CODE | The currency type. Code table: Currency |

Optional Incoming Parameters

| Table 8. Additional Parameters | | | |
|--------------------------------|------------------|-------------|--|
| Intake Element | Map to Parameter | Schema Type | |
| objective | objectiveCode | bt:string | |
| caseStartDate | caseStartDate | bt:date | |

Figure 4. Inbound Example : Claim Intake

Response Messages

Response Parameters

The parameters are contained within the internal struct: core.facade.CreatedCaseIDKey

| Table 9. Response Parameters | | |
|------------------------------|-----------------|------|
| Map from Parameter | Reponse Element | Туре |
| caseID | caseID | long |
| clientID | clientID | long |

Response Parameter Descriptions

| Table 10. Parameter Descriptions | | |
|----------------------------------|------------------|---|
| Parameter | Domain/Attribute | Description |
| caseID | CASE_ID | The case identifier of the created Product Delivery. Type: long |
| clientID | CONCERN_ROLE_ID | The client identifier of the related client. Type: long |

```
<receiveDocumentReturn>
  <response>
  <claimInatke success="true">
    <caseID>3278620528725721088</caseID>
    <cli>clientID>-5728578726015270912</clientID>
    </claimIntake>
  </response>
  </receiveDocumentReturn>
```

Figure 5. Response Example: Claim Intake

Figure 6. Error Response Example : Claim Intake

Evidence Maintenance

Evidence Maintenance Service

Evidence is the data used to determine entitlement for benefits and services. Therefore the presence of this data is required to support other Cúram services in the entitlement area, for example Triage and Determination. Services offered for evidence maintenance are simple in nature. They assume that any approvals are performed in advance by the calling system, and the management of evidence relationships, evidence hierarchies and so on is dealt with in the calling system.

Creating Evidence

Incoming Parameters

The Create Evidence service equates to the generic Insert Evidence pattern for case evidence in the evidence framework. In addition, it can operate off a list to allow for insertion of multiple evidence records in a single service call.

Following creation of the evidence record(s) in the Cúram system, they will be activated immediately without initiating evidence approvals. If the activation cannot successfully complete, for example if the evidence must be verified, then the evidence record will be left in an in-edit status. In-edit evidence records can be verified at a later date using the Activate Evidence service when any issues are resolved and the evidence is verified.

The parameters are used to populate the internal struct: Cúram.core.sl.infrastructure.struct.EvidenceDescriptionInsertDtls

| Table 11. Minimum Requirements | | |
|--------------------------------|------------------|--------------------|
| Intake Element | Map to Parameter | Schema Type |
| caseID | caseID | sem:caseIdentifier |
| evidenceType | evidenceType | sem:codetablecode |
| receivedDate | receivedDate | sem:date |
| effectiveDate | effectiveDate | sem:date |
| dataObjects | see below | see below |

Each Evidence Create schema has an object structure defined for the incoming data. The dataObjects structure is:

<dataItem name="{data item name}"
 >{value}</dataItem>

- Data Item name: The name of the attribute within the struct that is passed to the entity object.
- Value: The value to populate the struct field with. This will be passed to the entity object.

Note: DataItem to struct mapping controls all data type conversions and checks.

Incoming Parameter Descriptions

| Table 12. Parameter Descriptions | | |
|----------------------------------|---------------|---|
| Parameter | Domain | Description |
| caseID | CASE_ID | The numeric identification of the evidence records related case. Type: long |
| evidenceType | EVIDENCE_TYPE | The evidence type of the evidence record created. Codetable: evidenceType |
| receivedDate | CÚRAM_DATE | The date of receipt of the evidence creation. Format ddMMyyyy |
| effectiveDate | CÚRAM_DATE | The date from when the created evidence is effective. Format ddMMyyyy |

Optional Incoming Parameters

| Table 13. Additional Parameters | | |
|---------------------------------|------------------|---------------------------|
| Intake Element | Map to Parameter | Schema Type |
| participantID | participantID | sem:participantIdentifier |

The following figure displays an example of the inbound Create Evidence xml message:

```
<evidence>
    <evidenceData>
     <evidenceDetails>
       <caseID>8034421735228964864</caseID>
       <evidenceType>ET500</evidenceType>
       <receivedDate>01010001</receivedDate>
<effectiveDate>01010001</effectiveDate>
     </evidenceDetails>
     <dataObjects>
       <dataItem name="sportingActivityID">
-1333065489701666816</dataItem>
       <dataItem name="caseParticipantRoleID">
-900719925474099200</dataItem>
       <dataItem name="sportingActivityType">SA5</dataItem>
<dataItem name="sportingAwardType">SAT2</dataItem>
<dataItem name="paymentAmount">100.00</dataItem>
<dataItem name="comments"/>
       <dataItem name="startDate">01010001</dataItem>
<dataItem name="endDate">01010001</dataItem>
       <dataItem name="versionNo">1</dataItem>
     </dataObjects>
    </evidenceData>
 </evidence>
</root>
```

Figure 7. Inbound Example : Create Evidence

Reading Evidence

Incoming Parameters

The Read Evidence service equates to the generic View Evidence pattern for case evidence in the evidence framework. In addition once again it can operate off a list to allow for retrieval of more than one evidence record in a single service call. The service is simply to retrieve evidence data from the Cúram system.

The parameters with both Minimum requirements tables are used to populate the internal struct: Cúram.core.sl.infrastructure.struct.EIEvidenceKey

| Table 14. Minimum Requirements: Option A | | |
|--|------------------|------------------------|
| Intake Element | Map to Parameter | Schema Type |
| evidenceID | evidenceID | sem:evidenceIdentifier |
| evidenceType | evidenceType | sem:codetablecode |

| Table 15. Minimum Requirements: Option B | | |
|--|------------------|--------------------------------------|
| Intake Element | Map to Parameter | Schema Type |
| evidenceDescriptorID | | sem:evidenceD escriptorIdentifier |

Incoming Parameter Descriptions

| Table 16. Parameter Descriptions | | |
|----------------------------------|------------------------|--|
| Parameter | Domain | Description |
| evidenceID | EVIDENCE_ID | The evidence identification of the evidence record to be read. Type: long |
| evidenceType | EVIDENCE_TYPE | The evidence type of the evidence record to be read. Codetable: evidenceType |
| evidenceDescriptorID | EVIDENCE_DESCRIPTOR_ID | The evidence descriptor identification of the evidence record to be read. Type: long |

The following figure displays an example of the inbound Read Evidence xml message.

Figure 8. Inbound Example: Read Evidence

Response Message

| Table 17. Response Parameters | | |
|-------------------------------|----------------------|-----------|
| Map from Parameter | Reponse Element | Туре |
| caseID | caseID | long |
| evidenceType | evidenceType | string |
| evidenceDescriptorID | evidenceDescriptorID | long |
| effectiveDate | effectiveDate | date |
| dataObjects | See below | See below |

Each Evidence Read response has a dataObjects element made up of dataItem child elements. The dataItem structure is:

- Data Item name: The name of the attribute within the struct that is passed to the entity object...
- Type: The type of field that will be populated.
- The value to populate the struct field with. This will be passed to the entity object

| Туре | Description | |
|--------|----------------------------|--|
| string | A string.class type value. | |
| Int | An int.class type value. | |

| Туре | Description |
|------------------|---|
| Short | A short.class type value. |
| Double | A double.class type value. |
| Float | A float.class type value. |
| Long | A long.class type value. |
| Date | A Cúram.util.type.Date.class type value. |
| Date | A Cúram.util.type.Date.class type value, format: ddMMyyyy. |
| DateTime | A Cúram.util.type.DateTime.class type value, format: ddMMyyyy hh:mm:ss. |
| Money | A Cúram.util.type.Money.class type value. |
| FrequencyPattern | A Cúram.util.type.FrequencyPattern.class type value. |

Response Parameter Descriptions

| Table 18. Parameter Descriptions | | |
|----------------------------------|------------------------|---|
| Parameter | Domain/Attribute | Description |
| caseID | CASE_ID | The case identifier for the case to which the evidence record belongs. Type: long |
| evidenceType | EVIDENCE_TYPE | The evidence type code for the evidence record created. Codetable: EvidenceType |
| evidenceDescriptorID | EVIDENCE_DESCRIPTOR_ID | The evidence descriptor identifier for the evidence record created. Type: long |
| effectiveDate | CÚRAM_DATE | The date from when the created evidence is effective. Format ddMMyyyy |

The following figure displays an example of the Read Evidence response xml message:

```
<receiveDocumentReturn>
 <response>
   <evidenceRead success="true">
  <caseID>8034421735228964864</caseID>
     <evidenceType>ET500</evidenceType>
     <evidenceDescriptorID>
684547143360315392
     </evidenceDescriptorID>
     <effectiveDate>11092007</effectiveDate>
     <dataObjects>
       <dataItem name="sportingActivityID" type="long">
               -1333065489701666816</dataItem>
       <dataItem name="caseParticipantRoleID" type="long">
               -900719925474099200</dataItem>
      -900/199254/4099200/dataIten
<dataItem name="sportingActivityType"
    type="string">SA5</dataItem>
<dataItem name="sportingAwardType"
    type="string">SAT2</dataItem>
<dataItem name="paymentAmount"</pre>
      type="money">100.00</dataItem>
<dataItem name="comments" type="string"/>
<dataItem name="startDate" type="date">
                11022007</dataItem>
       <dataItem name="endDate" type="date">
       10092008</dataItem>
<dataItem name="versionNo" type="int">1</dataItem>
     </dataObjects>
   </evidenceRead>
 </response>
</receiveDocumentReturn>
```

Figure 9. Response Example: Read Evidence

Figure 10. Error Response Example : Read Evidence

Activating Evidence

The Activate Evidence service equates to the generic Apply Changes evidence pattern for case evidence. Like the other evidence services however, it can take a list of evidence descriptor IDs as input and activate each one.

ActivateForUsers

Incoming Parameters

The parameters are used to populate the internal struct: Cúram.core.struct.CaseKey.

| Table 19. Minimum Parameter Requirements | | |
|---|--------|--------------------|
| Intake Element Map to Parameter Schema Type | | |
| caseID | caseID | sem:caseIdentifier |

Incoming Parameter Descriptions

| Table 20. Parameter descriptions | | |
|----------------------------------|---------|--|
| Parameter Domain Description | | |
| caseID | CASE_ID | The case identifier of the case to which the evidence to be activated is related. Type: long |

Figure 11. Inbound Example : ActivateForUsers

Response Message

| Table 21. Response Parameters | | |
|-------------------------------|-----------------|---------|
| Map from Parameter | Reponse Element | Туре |
| caseID | caseID | long |
| activated | activated | boolean |

Response Parameter Descriptions

| Parameter | Domain/Attribute | Description |
|-----------|------------------|---|
| caseID | CASE_ID | The case identifier of the case for which all evidence records were to be activated. Type: long |
| activated | n/a | The indicator as to whether the activation attempt was a success or failure. Type boolean |

```
<receiveDocumentReturn>
<response>
<activateUserChanges success="true">
<caseID>-6737385042546262016</caseID>
<activated>true</activated>
</activateUserChanges>
</response>
</receiveDocumentReturn>
```

Figure 12. Response Example : ActivateForUsers

Figure 13. Error Response Example: ActivateForUsers

ActivateChanges

Incoming Parameters

The parameters are used to populate the internal struct: Cúram.core.sl.infrastructure.struct.EvidenceEvidenceDescriptionInsertDtls

| Table 22. Minimum Parameter Requirements: Option A | | |
|--|--------------|------------------------|
| Intake Element Map to Parameter Schema Type | | |
| caseID | caseID | sem:caseIdentifier |
| evidenceID | evidenceID | sem:evidenceIdentifier |
| evidenceType | evidenceType | sem:evidenceType |

The parameters are used to populate the internal struct: Cúram.core.sl.infrastructure.struct.EvidenceEvidenceDescriptionInsertDtls

| Table 23. Minimum Parameter Requirements: Option B | | |
|--|----------------------|--------------------------------------|
| Intake Element Map to Parameter Schema Type | | |
| caseID | caseID | sem:caseIdentifier |
| evidenceDescriptorID | evidenceDescriptorID | sem:evidenceDescriptorIde ntifier |

Incoming Parameter descriptions

| . asia 2 a. ameter Besonipil | Table 24. Parameter Descriptions | | |
|------------------------------|----------------------------------|--|--|
| Parameter | Domain | Description | |
| caseID | CASE_ID | The case identifier of the case to which the evidence to be activated is related. Type: long | |
| evidenceID | EVIDENCE_ID | The evidence identifier of the evidence record to be activated. Type: long | |
| evidenceType | EVIDENCE_TYPE | The evidence type code of the evidence record to be activated. Codetable: EvidenceType | |

| Table 24. Parameter Descriptions (continued) | | |
|--|------------------------|---|
| Parameter Domain Description | | |
| evidenceDescriptorID | EVIDENCE_DESCRIPTOR_ID | The evidence descriptor identifier of the evidence record to be activated. Type: long |

Figure 14. Inbound Example: ActivateChanges: Option A

```
<root>
    <evidence>
        <activateChanges>
        <caseID>8034421735228964864</caseID>
        <evidenceDescriptorID>6719370644036780032
        </evidenceDescriptorID>
        </activateChanges >
        </evidence>
        </root>
```

Figure 15. Inbound Example : ActivateChanges: Option B

Response Message

| Table 25. Response Parameters | | |
|-------------------------------|----------------------|---------|
| Map from Parameter | Reponse Element | Туре |
| caseID | caseID | long |
| evidenceDescriptorID | evidenceDescriptorID | long |
| activated | activated | boolean |

Response Parameter Descriptions

| Table 26. Parameter Descriptions | | |
|----------------------------------|------------------------|--|
| Parameter | Domain/Attribute | Description |
| caseID | CASE_ID | The case identifier of the case to which the evidence record activated is related. Type: long |
| evidenceDescriptorID | EVIDENCE_DESCRIPTOR_ID | The evidence descriptor identifier of the evidence record activated. Type: long |
| activated | n/a | The Boolean indicator as to whether the activation attempt was a success or failure. Type: boolean |

Figure 16. Response Example : ActivateChanges

Figure 17. Error Response Example : ActivateChanges

ActivateAllChanges

Incoming Parameters

| Table 27. Minimum Parameter Requirements | | |
|---|--------|--------------------|
| Intake Element Map to Parameter Schema Type | | |
| caseID | caseID | sem:caseIdentifier |

Incoming Parameter Descriptions

| Table 28. Parameter Descriptions | | |
|----------------------------------|--------|--|
| Parameter | Domain | Description |
| caseID | . – | The case identifier of the case to which the evidence to be activated is related. Type: long |

```
<root>
<evidence>
<activateAllChanges>
<caseID>8034421735228964864</caseID>
</activateAllChanges>
<activateAllChanges>
<activateAllChanges>
<caseID>8435421537284500864</caseID>
</activateAllChanges>
</activateAllChanges>
</activateAllChanges>
</activateAllChanges>
</activateAllChanges>
</activateAllChanges>
</activateAllChanges>
</activateAllChanges>
```

Figure 18. Inbound Example : ActivateAllChanges

Response Message

| Table 29. Response Parameters | | |
|-------------------------------|-----------------|---------|
| Map from Parameter | Reponse Element | Туре |
| caseID | caseID | long |
| activated | activated | boolean |

Response Parameter Descriptions

| Table 30. Parameter Descriptions | | |
|----------------------------------|------------------|--|
| Parameter | Domain/Attribute | Description |
| caseID | CASE_ID | The case identifier of the case for which all evidence records were to be activated. Type: long |
| activated | n/a | The Boolean indicator as to whether the activation attempt was a success or failure. Type: boolean |

```
<receiveDocumentReturn>
    <response>
        <activateAllChanges success="true">
            <caseID>7791227355350958080</caseID>
            <activated>true</activated>
            </activateAllChanges>
            </response>
            </receiveDocumentReturn>
```

Figure 19. Response Example : ActivateAllChanges

Figure 20. Error Response Example : ActivateAllChanges

Verification

Verifying Evidence

Verification is the process of confirming the accuracy of information that is given by clients who are seeking assistance from Social Enterprise Management (SEM) agencies.

Before you begin

Before you complete the following procedure, you must add a verification to an integrated case.

About this task

You can use two services to verify evidence: Verification Result and Verification Check.

The Verification Result service returns the current status of a list of evidence records. Use Verification Result as a single service that operates from a list to verify the status of multiple evidence records.

The Verification Check service checks for outstanding verifications on a case. In Cúram, when there are outstanding verifications on a case, the system prevents the case from moving to the delivery of payments. Therefore, use the Verification Check service to do a similar validation from a third-party system that uses Cúram to capture and verify evidence.

The following assumptions apply to both verification web services:

- The Cúram Verification administration component is installed.
- The verification requirements are defined in the administration component.
- The Cúram system contains the evidence to verify.

Procedure

Using the Verification Result service to view the status of an evidence record

- 1. Log on to IBM Cúram Social Program Management as a caseworker.
- 2. Open an integrated case.
- 3. Click the **Evidence** tab.
- 4. In the menu, click **Verifications**.
- 5. In the **Verifications** page, click the **All** tab.

The status, for example, Not Verified, of the verification item is displayed under the Status heading.

Verification Result

Incoming Parameters

The verification result service is used to return the current verification status of a given list of evidence records.

The parameters are used to populate the struct: EvidenceDescriptorKey

| Table 31. Minimum Requirements | | |
|--------------------------------|----------------------|---------------------------------|
| Intake Element | Map to Parameter | Schema Type |
| evidenceDescriptorD | evidenceDescriptorID | bt:evidenceDescriptorIdentifier |

Incoming Parameter Descriptions

| Table 32. Parameter Descriptions | | |
|----------------------------------|------------------------|---|
| Parameter | Domain | Description |
| evidenceDescriptorID | EVIDENCE_DESCRIPTOR_ID | The evidence descriptor identifier for the evidence record for which the verification results are being queried. Type: long |

```
<root>
<verification>
<verificationResult>
<evidenceDescriptorID>
810647932926689280
</evidenceDescriptorID>
<evidenceDescriptorID>

6719370644036780032
</evidenceDescriptorID>
</verificationResult>
</root></root>
```

Figure 21. Inbound Example : VerificationResult

Response Message

The parameters are contained within the struct: Cúram.verification.sl.infrastructure.struct.EvidenceVerificationDetails

| Table 33. Response Elements | | |
|-----------------------------|----------------------|---------|
| Map from parameter | Reponse element | Туре |
| evidenceDescriptorID | evidenceDescriptorID | long |
| verificationStatus | verificationStatus | boolean |

Response Parameter Descriptions

| Table 34. Parameter Eescriptions | | |
|----------------------------------|------------------------|---|
| Parameter | Domain/Attribute | Description |
| evidenceDescriptorID | EVIDENCE_DESCRIPTOR_ID | The evidence descriptor identifier of the evidence record. Type: long |
| verificationStatus | EVIDENCE_STATUS_CODE | The code table value to show the verification status of the evidence recored. Codetable: EvidenceStatus |

```
<receiveDocumentReturn>
  <response>
  <verificationResult success="true">
    <evidenceDescriptorID>810647932926689280
    </evidenceDescriptorID>
    <verificationStatus>ES2</verificationStatus>
    </verificationResult>
    <verificationResult success="true">
        <evidenceDescriptorID>820647932926347586
        </evidenceDescriptorID>
        <verificationStatus>ES6</verificationStatus>
        </response>
        </receiveDocumentReturn>
```

Figure 22. Response Example : VerificationResult

Verification Check

Incoming Parameters

The verification check service is used to return a list of outstanding evidence records, for a given case..

The parameters are used to populate the struct: EvidenceDescriptorKey.

| Table 35. Minimum Requirements | | |
|---|--------|-------------------|
| Intake Element Map to Parameter Schema Type | | |
| caseID | caseID | bt:caseIdentifier |

Incoming Parameter Descriptions

| Table 36. Parameter Descriptions | | |
|----------------------------------|--------------|--|
| Parameter | Domain | Description |
| caseID | CASE_ID Long | The case identifier for the case which will be queried for all its evidence and their current verification status. |

```
<root>
    <verification>
        <verificationCheck>
            <evidenceDescriptorID>810647932926689280
             </evidenceDescriptorID>
                  <evidenceDescriptorID>6719370644036780032
                  </evidenceDescriptorID>
                 </evidenceDescriptorID>
                  </evidenceDescriptorID>
                  </evidenceDescriptorID>
                  </evidenceDescriptorID>
                  </evidenceDescriptorID>
                  </evidenceDescriptorID>
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                  </evidenceDescriptorID>
                  </evidenceDescriptorID>
                  </evidenceDescriptorI
```

Figure 23. Inbound Example : VerificationCheck

Response Message

The parameters are contained within the struct: verification.sl.infrastructure.struct.EvidenceVerificationDetails

| Table 37. Response Elements | | | | |
|---|----------------------|---------|--|--|
| Map from parameter Reponse element Type | | | | |
| caseID | caseID | long | | |
| verificationRequired | verificationRequired | boolean | | |
| evidenceDescriptorID | evidenceDescriptorID | long | | |

Response parameter descriptions

| Table 38. Parameter Descriptions | | |
|----------------------------------|------------------------|--|
| Parameter | Domain/Attribute | Description |
| caseID | CASE_ID | The case identifier for the case to which all the evidence records are connected to. Type: long. |
| verificationRequired | n/a | A value to state whether the case has any evidence records with outstanding verifications, ie "Not verified". Type: boolean. |
| evidenceDescriptorID | EVIDENCE_DESCRIPTOR_ID | The evidence descriptor identifier of any evidence records that where found to be in a state of "Not verified". Type: long. |

```
<receiveDocumentReturn>
    <response>
    <verificationCheck success="true">
        <caseID>-4377498837804122112</caseID>
        <verificationRequired>true</verificationRequired>
        <evidenceDescriptorID>
            810647932926689280
        </evidenceDescriptorID>
            <evidenceDescriptorID>
            <evidenceDescriptorID>
                  6719370644036780032
        </evidenceDescriptorID>
                  </e>
```

Figure 24. Response Example : VerificationCheck

Determination

The Determination Service

Determination takes information that is gathered in the Cúram system as part of intake, and applies it against enterprise-specific and program-specific rules to create eligibility decisions. Determination is different for each program. It requires a ruleset that is defined to evaluate a participant's eligibility for benefit from a particular product.

Determination is a full eligibility test. It requires a full set of business rules and the set of data on which these rules operate. The outcome of running these business rules is that the client is either submitted for eligibility testing or failed during the submittal process.

At minimum, the following information is needed for determination.

- Configuration data that covers the product and its associated set of business rules to define eligibility for this product must exist in the Cúram system.
- The participant must exist in the Cúram system. This can be achieved by using the Register Person service.
- The case must exist in the Cúram system. This can be achieved by using the Claim Intake service.
- All evidence that is used in determination must exist in the Cúram system, and be available for the case. This can be achieved by using a combination of the Evidence maintenance services.
- The decisions that are created by determination are stored in the Cúram system, but only the submitted for approval verification is returned to the calling service. Refer to the related link for more information.

Related concepts

Submitting a Case for Approval

Incoming Parameters

A request for determination must include the case identifier which is used to identify the case to be submitted for approval via the populating of the struct core. SubmitForApprovalKey.

The fromDate and toDate are used to determine if the case's current certification date values are currently before the fromDate or after the toDate. If not the case the certification records are modified to incorporate the inbound dates.

| Table 39. Incoming Parameters | | | |
|-------------------------------|--|-------------------|--|
| Intake Element | Map to Parameter | Schema Type | |
| caseID | caseID | bt:caseIdentifier | |
| fromDate | ProductDeliveryCertDiaryDtls.per iodFromDate | bt:date | |
| toDate | ProductDeliveryCertDiaryDtls.per iodFromDate | bt:date | |

Incoming Parameter Descriptions

| Table 40. Parameter Descriptions | | |
|----------------------------------|------------|--|
| Parameter | Domain | Description |
| caseID | CASE_ID | The case's identification. Type: long |
| fromDate | CÚRAM_DATE | The date from which the determination period is submitted for the case. Format: ddMMyyyy |
| toDate | CÚRAM_DATE | The date to which the determination period is submitted for the case. Format: ddMMyyyy |

Figure 25. Inbound Example: Determination

Response Message

| Table 41. Response Parameters | | | |
|---|-----------|---------|--|
| Map from Parameter Reponse Element Type | | | |
| caseID | caseID | long | |
| submitted | submitted | boolean | |

Response Parameter Descriptions

| Table 42. Parameter Descriptions | | | |
|--|---------|--|--|
| Parameter Domain/Attribute Description | | | |
| caseID | CASE_ID | The case identifier of the case was submitted for aproval. Type: long | |
| submitted | n/a | The indicator as to whether the determination was submitted for approval. Type boolean | |

```
<receiveDocumentReturn>
<response>
<submittedForApproval success="true">
<caseID>-4998995586381250560</caseID>
<submitted>true</submitted>
</submittedForApproval>
</response>
</receiveDocumentReturn>
```

Figure 26. Response Example: Determination

Figure 27. Error Response Example : Determination

The Triage Service

Triage applies an initial level of review to a basic set of information, to determine a client's need or likely benefit from a program or service.

Triage is not a full eligibility test. Triage requires a small set of business rules and consequently, a small amount of information to process the rules. The results provided by Triage are indicative, not final they are suggestive of what a client may be entitled to.

Triage is different for each program and therefore this service must be tailored to each solution. The Triage web service provides an easy means of routing to the solution specific service. Each solution requires a ruleset to be executed which evaluates the indicative entitlement for their product.

There a number of requirements that must be met before the Triage service can be successfully run:

- The ruleset must be configured and available in the Cúram system.
- The evidence over which the ruleset runs must exist in the Cúram system. This can be achieved using a combination of the Evidence maintenance services.
- The participant must exist in the Cúram system. This can be achieved using the Register Person service.

Incoming Parameters

The parameters are used to populate the struct: Cúram.core.sl.struct.CaseIDandTriageTypeKey

| Table 43. Minimum Requirements | | | |
|---|--------|-------------------|--|
| Intake Element Map to Parameter Schema Type | | | |
| caseID | caseID | bt:caseIdentifier | |
| tirageType bt:triageType | | | |

Incoming Parameter descriptions

| Table 44. Parameter Descriptions | | | |
|----------------------------------|------------------|---|--|
| Parameter | Domain | Description | |
| caseID | CASE_ID | The evidence descriptor identifier of the evidence record. Type: long | |
| triageType | TRIAGE_TYPE_CODE | The code table value to show the type of triage operation to run. Codetable: triageType | |

Response Message

The parameters are contained within the struct: core.sl.struct.TriageResult

| Table 45. Response Parameters | | | | |
|---|-----------|---------|--|--|
| Map from parameter Reponse element Type | | | | |
| caseID | caseID | long | | |
| qualified | qualified | boolean | | |
| amount | amount | double | | |

Response Parameter Descriptions

| Table 46. Parameter Descriptions | | |
|----------------------------------|------------------|--|
| Parameter | Domain/Attribute | Description |
| caseID | CASE_ID | The case identifier for the case to which the triage relates. Type: long |
| qualified | n/a | The indicator as to whether the case has qualified for a payment, via the triage process. Type boolean |
| amount | CÚRAM_MONEY | The monetary amount due in payment to the case. Type: double |

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