# CGIS Intake Data Mapping

## OOTB Configurations and Classes

The following are the OOTB configurations and classes that control how the application and evidence items are populated.

### External Application and Submission Script and XSD

The OOTB sample application does not ask for all of the details you may need to properly populate all of the evidence items. You can modify the IEG script and XSD. OOTB, the files that are used are:

Application IEG: C:\IBM\Curam\Development\EJBServer\components\ISOnlineBenefitApplication\data\initial\clob\CGIS\CGIS.xml

Submission IEG (The last part of the application that asks for signature:

C:\IBM\Curam\Development\EJBServer\components\ISOnlineBenefitApplication\data\initial\clob\CGIS\CGIS\_submission.xml

These both use the datastore schema XSD located here:

C:\IBM\Curam\Development\EJBServer\components\ISApplicationOnline\data\initial\clob\ CGISS\_V2.xsd

The DMX file that control which script and XSD are used:

C:\IBM\Curam\Development\EJBServer\components\ISOnlineBenefitApplication\data\initial\IEGSCIPTINFO.DMX

C:\IBM\Curam\Development\EJBServer\components\ISApplicationOnline\data\initial\DATASTORESCHEMA.DMX

These files have all been copied into the custom directory.

### Mapping Configuration File (XML Mapping File)

After the application is submitted, the intake process maps the application data from the datastore (stored in DATASTOREENTITY) to the appropriate evidence on the CGIS case.

The following OOTB files control this process:

Mapping Configuration – This file defines all of the entities that can be mapped:

C:\IBM\Curam\Development\EJBServer\components\ISApplicationOnline\data\initial\clob\ CGISSMappingConfiguration.xml

The mapping definition – This file has the entity to evidence mappings:

C:\IBM\Curam\Development\EJBServer\components\ISApplicationOnline\data\initial\clob\ CGISSMapping.xml

The following DMX files defines which files to use:

C:\IBM\Curam\Development\EJBServer\components\ISApplicationOnline\data\initial\APPRESOURCE.DMX

Here is documentation describing how to define the mappings.

[Data Mapping Editor Guide](https://www.ibm.com/support/knowledgecenter/SS8S5A_6.2.0/com.ibm.curam.content.doc/UsingTheDataMappingEngine/ctr_UsingTheDataMappingEngine.html?lang=en)

Note, that most of CGIS does not use dynamic evidence. Certain items, such as address have been converted, but others are still traditional evidence.

### Mapping Extension Java classes

Mapping extension handler classes are used to map evidence that cannot be done with the mapping configuration file. These are Java classes that implement the MappingExtensionHandler interface.

An application property controls which handlers are called: "curam.mappings.extension\_handlers"

Set this in both the Application.prx and Environment.xml property files.

The main function that gets called is “performMapping”.

* curam.isproduct.intakeapplication.sl.impl.PersonMappingExtension – *Create Head Of Household Evidence and Interpreters*
* curam.isproduct.intakeapplication.sl.impl.HouseholdInformationMappingExtension – *Maps data from the HouseholdInformation datastore to information on the case(attributes like needs rental assistance, needs legal assistance), does not populate evidence.*
* curam.isproduct.intakeapplication.sl.impl.FasterServicesMappingExtension – *Reads data from the FasterService entity and sets the deadline and attributes if expedited FS is required.*
* curam.isproduct.intakeapplication.sl.impl.SubmissionMappingExtension – *Maps interview dates and times requested.*
* curam.intakeconfig.extensionhandler.impl.PersonExtensionHandler – NOT MAPPING DATA FOR EXTERNAL APPLICATIONS. *Creates Employment, Self-Employment, Paid Employment, Pregnancy, and Unborn Child evidence.*
* curam.intakeconfig.extensionhandler.impl.AbsentParentExtensionHandler– NOT MAPPING DATA FOR EXTERNAL APPLICATIONS. *Creates Absent Parent, Absent Parent Child Support and Child Support Enforcement Evidence.*
* curam.intakeconfig.extensionhandler.impl.ApplicationExtensionHandler NOT MAPPING DATA FOR EXTERNAL APPLICATIONS. *Creates Household Meal Groups.*

There are OOTB extension handlers that are called. The ones highlighted in yellow are not mapping data for external applications. These classes just do a return if the application is external, so no data is getting mapped.

## Demo Code For CGIS

Below is a description of the changes made to have a working CGIS environment for the purpose of Demos. Note, some items have hard-coded dates, for simplicity. Mainly this was done to set certain evidence start dates. The default start date used is “201601010”. This code is meant for demo-purposes only.

### XSD

The following items were added to the XSD:

Added to Entity: Submission

Attribute: submitDate

Added to Entity: Person

Attribute: personStartDate

Added to Entity: Relationship

Attribute: relationshipStartDate

### Submission Script

The submission script has been modified to call a custom callout just prior to the final submission. The purpose of the callout is to set dates directly in the datastore. It sets the submitDate and the personStartDate to be the current date.

This custom callout class is located here:

custom\source\curam\rules\functions\CustomFunctionSetSubmitDate.java

The custom callout is defined in this class:

custom\rulesets\functions\CustomFunctionMetaData.xml

Add then called on line 164 in:

custom\data\initial\clob\CGIS\_submission.xml

### Mapping File

|  |  |  |  |
| --- | --- | --- | --- |
| Data Store Entity | Attribute | Evidence Type | Attibute |
| Person | personStartDate | HouseholdMember | startDate |
| Person | hasMilitaryStatus | HouseholdMember | veteranStatus |
| Person | personResidentInState | HouseholdMember | residencyStatus |
| Person | ssnStatus | HouseholdMember | ssnStatus |
| Person | isDisabled | Disability | startDate – default to 1/1/2016 |
| Person | livingArrangementStatus | LivingArrangement | startDate – set to currentDate |
| Person | livingArrangementStatus | LivingArrangement | livingArrangementStatus-  set to ‘Permanent’ |
| Household Meal Group | purchasesAndPreparesFoodWithPrimaryParticipant | HouseHoldMealGroupMember | Create child evidence for member.  Default startDate to 1/1/2016 |
| Household Meal Group Member | isPrimary | HouseholdMealGroup, HouseholdMealGroupMember | Create Meal Group and add primary participant to the Meal Group  Default startDate to 1/1/2016 on both. |
| Education | ALL | Moved mapping to the CustomPersonExtensionHandler Class described below. | N/A |
| Income | cgissIncomeType == DisabilityBenefit | Benefit | startDate – default start date to 1/1/2016 |
| Income | assistancePaymentType==SSI | Benefit | Set the following:  publicOfficeID =head office  state =WA  deliveryType=Cash  startDate = 1/1/2016 |
| Resource | cgissResourceType == Any of the liquid resource types | Moved mapping to the CustomPersonExtensionHandler Class described below | N/A |
| Expense | Shelter Expenses | Moved mapping to the CustomPersonExtensionHandler Class described below | N/A |
| Expense | Utility Expenses | Moved mapping to the CustomPersonExtensionHandler Class described below | N/A |
| Expense | Medical Expenses | MedicalExpense | startDate=1/1/2016 |
| Relationship | relationshipStartDate | Relationship | startDate |
| Education | ALL | Moved mapping to the CustomPersonExtensionHandler Class described below | N/A |

### Mapping Extension Handler Classes

Two custom class have been added to handle data mapping. These classes are used to map data that is not done in the mapping file due to it’s complexity or restrictions of the mappings that can be done via configuration.

#### Person Mapping Extension Handler

-Paid Employment – also creates Prospect Employer

-Liquid Resources

-Ownership

-Student

-Shelter Expenses

-Contributor

-Utility Expenses

-Contributor

#### Absent Parent Mapping Extension Handler

File:

Evidence Items Mapped :

-Absent Parent

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-Child Support Enforcement

-Deprivation