## Leveraging the Anti-Money Laundering update

### Summary

Using lazy tab initialization from the AML user interface definitions, it is possible to delay data retrieval until such time as it is requested by a user via selecting a tab. For the AML Hot Fix, the alert and customer service APIs were modified to accept an optional ‘include’ parameter which will cause only the information for the list of specified properties to be returned. The default UI Definitions were updated to call these new APIs, to allow for the best performance by delaying data retrieval only until requested.

In order to take advantage of these improvements in existing UI Definitions, the single request for all data needs to be changed into multiple requests that are separated into the relevant tabs’ initialize blocks.

1) The first step is to change the root screen initialize request:

<set name="TEMP.X\_LOAD\_FLG" value="runHttpGetDataLoader('@war.context.name@/controller/alerts/' + substring(INCIDENT.INCIDENT\_ID, 4) + '.json', 'INCIDENT')" />

Modifying the request to only pull in the data needed on the initially-displayed tabs, by passing in the include block:

<set name="TEMP.X\_LOAD\_FLG" value="runHttpGetDataLoader('@war.context.name@/controller/alerts/' + substring(INCIDENT.INCIDENT\_ID, 4) + '.json', 'INCIDENT', **'include=alert,entity,customer'**)" />

2) The second step is to modify the various tabs to make a request to pull in the data needed to populate the values in that tab. For example, for the alerts’ related accounts tab:

<tab id="alert\_acc\_related\_customers\_tab">
 <label><message key="field.aml.account.customers" /></label>

We add an initialize block that makes a runHttpGetDataLoader request to retrieve the accounts/households:

<tab id="alert\_acc\_related\_customers\_tab">
 <label><message key="field.aml.account.customers" /></label>
 <initialize>
 <if test="not TEMP.X\_ACCOUNT\_DETAILS\_LOAD\_FLG">
 <set name="TEMP.X\_ACCOUNT\_DETAILS\_LOAD\_FLG" value="runHttpGetDataLoader('@war.context.name@/controller/alerts/' + substring(INCIDENT.INCIDENT\_ID, 4) + '.json', 'INCIDENT', 'include=alert,entity,accounts,households')" />
 </if>
 </initialize>

Similar changes need to be made for every tab to retrieve the relevant data. Refer to the other sections in this document to see which include parameters to specify to return the data needed for a particular tab. Full details are provided below.

### Include parameter

For certain AML services, an optional ‘include’ parameter can be specified which will cause *only* the information for the list of specified properties to be returned. If no ‘include’ parameter is specified, the default behavior of returning all data is followed.

There is no way to explicitly exclude a single property. Rather, if an include parameter is specified, all desired properties must be specified and undesired properties omitted.

### Service Includes

The following tables indicate all of the available fields that can be specified to be included. Some fields depend on/require certain other fields to be included as well. For instance, to include an alert’s related household information (*households)*, the service *must* first retrieve the alert details (*alert)* and its associated entity (*entity)*. These dependencies are noted.

### Alert Service

The alert service provides all details of an alert and its associated entity. The following include fields can be specified to subset the information that is returned.

#### Available Alert service includes

|  |  |  |
| --- | --- | --- |
| Name | Description | Depends On |
| alert | Include base details about an alert |  |
| nearNeighbors | Return near neighbors associated with alerts |  |
| riskFactors | Return risk factors associated with alerts |  |
| scenario | Include full details of the scenario associated with this alert | alert |
| entity | Include the entity associated with this alert (at alert generation time). The entity will be that of the entity associated with the alert (account, customer, household, transaction)  | alert |
| currentEntity | Include the current entity associated with this alert. The entity will be that of the entity associated with the alert (account, customer, household, transaction) | alert |
| accounts | Return accounts associated with the related alert entity  | alert, entity |
| households | Return households associated with the related alert entity | alert, entity |
| alerts | Return related alerts for the associated entity | alert, entity, customer |

#### Additional alert service includes related only to Customer entity type

|  |  |  |
| --- | --- | --- |
| Name | Description | Depends On |
| customer | Include the full customer details associated with this alert (at alert generation time), in the event that the entity type associated with this alert is a customer type | alert, entity |
| transactions | Transactions associated with the particular customer | alert, entity, customer |
| relatedAddresses | Addresses related to this customer | alert, entity, customer  |
| associatedEntities | Customer entities associated with the customer  | alert, entity, customer |
| relatedEntities | Potential related entities based on match criteria (tax, mailing address, primary phone, etc) | alert, entity, customer |
| comprehensiveRecord | Comprehensive record sheet about a customer | alert, entity, customer |

### Customer Service

The customer service provides all current details of a customer. The following include fields can be specified to subset the information that is returned.

#### Available Customer service includes

|  |  |  |
| --- | --- | --- |
| Name | Description | Depends On |
| customer | Include base customer details  |  |
| transactions | Transactions associated with the particular customer |  |
| relatedAddresses | Addresses related to this customer | customer  |
| associatedEntities | Customer entities associated with the customer  |  |
| relatedEntities | Potential related entities based on match criteria (tax, mailing address, primary phone, etc) |  |
| comprehensiveRecord | Comprehensive record sheet about a customer | customer |
| alerts | *Return related alerts for the associated alert* |  |
| households | Return households associated with the related alert entity |  |
| accounts | Return accounts associated with the related alert entity |  |

### Customer Comprehensive Record

In addition to all comprehensive record information being returned, a specific subset can be returned by passing finer-grained properties in the include list.

|  |  |
| --- | --- |
| Name | Description |
| comprehensiveRecord | Entire comprehensive record sheet about a customer. |
| comprehensiveRecordHouseholdCustomers | Other customers in household |
| comprehensiveRecordCustomerAlerts | List of customer alerts. |
| comprehensiveRecordCustomerAccounts | List of customer accounts |
| comprehensiveRecordRegulatoryReports | Regulatory reports for a customer. |

### UI Definitions – Lazy tab examples for Alerts

This section shows how the various sections of the Alert details can specify a set of service includes to return just the data needed for a particular tab section.

#### Alerts details

<screen><initialize>
<set name="TEMP.X\_LOAD\_FLG" value="runHttpGetDataLoader('@war.context.name@/controller/alerts/' + substring(INCIDENT.INCIDENT\_ID, 4) + '.json', 'INCIDENT', 'include=alert,entity,customer')" />

#### Alert Related Accounts/ Related Households (for Customer/Account/Household)

<tab id="alert\_acc\_related\_customers\_tab"> <initialize>
<set name="TEMP.X\_ACCOUNT\_DETAILS\_LOAD\_FLG" value="runHttpGetDataLoader('@war.context.name@/controller/alerts/' + substring(INCIDENT.INCIDENT\_ID, 4) + '.json', 'INCIDENT', 'include=alert,entity,accounts,households')" />

#### Alert Risk Factors

<tab id="risk\_factors\_tab"> <initialize>
 <set name="TEMP.X\_RISK\_FACTORS\_LOAD\_FLG" value= "runHttpGetDataLoader('@war.context.name@/controller/alerts/' + substring(INCIDENT.INCIDENT\_ID, 4) + '.json', 'INCIDENT', 'include=riskFactors', 'prefix=TEMP.X\_RF')" />

#### Alert Near Neighbors

<tab id="near\_neighbors\_tab"> <initialize>
 <set name="TEMP.X\_NEAR\_NEIGHBORS\_LOAD\_FLG" value="runHttpGetDataLoader('@war.context.name@/controller/alerts/' + substring(INCIDENT.INCIDENT\_ID, 4) + '.json', 'INCIDENT', 'include=nearNeighbors', 'prefix=TEMP.X\_NN')" />

#### Alert Scenario

<tab id=”scenarios\_tab"> <initialize>
 <set name="TEMP.X\_LOAD\_SCENARIO\_FLG" value="runHttpGetDataLoader('@war.context.name@/controller/scenarios/' + toInteger(TEMP.X\_SCENARIO\_ID) + '.json', 'INCIDENT', 'prefix=TEMP.X\_SCENARIO')"/>

#### Alert Related Alerts

<tab id=”related\_alerts\_tab "> <initialize>
 <set name="TEMP.X\_RELATED\_ALERTS\_LOAD\_FLG" value="runHttpGetDataLoader('@war.context.name@/controller/alerts/' + substring(INCIDENT.INCIDENT\_ID, 4) + '.json', 'INCIDENT', 'include=alert,entity,customer,alerts', 'prefix=TEMP.X')" />

#### Customer at alert generation

<tab id=”customer\_details\_tab"> <initialize>
 <set name="TEMP.X\_CUSTOMER\_AGP\_DETAILS\_LOAD\_FLG” value="runHttpGetDataLoader('@war.context.name@/controller/alerts/' + substring(INCIDENT.INCIDENT\_ID, 4) + '.json', 'INCIDENT', 'include=alert,entity,customer,accounts,households,relatedAddresses,associatedEntities')" />

#### Customer at alert generation related entities

<tab id=”aag\_related\_entities\_tab"> <initialize>
 <set name="TEMP.X\_RELENT\_LOAD\_FLG" value="runHttpGetDataLoader('@war.context.name@/controller/alerts/' + substring(INCIDENT.INCIDENT\_ID, 4) + '.json', 'INCIDENT', 'include=alert,entity,customer,relatedEntities')" />

#### Customer at alert generation comprehensive record

<tab id=”aag\_comprehensive\_tab"> <initialize>
 <set name="TEMP.X\_COMP\_RAPSHEET\_LOAD\_FLG" value="runHttpGetDataLoader('@war.context.name@/controller/alerts/' + substring(INCIDENT.INCIDENT\_ID, 4) + '.json', 'INCIDENT', 'include=alert,entity,customer,comprehensiveRecord')" />

#### Customer at alert generation transactions

<tab id=”aag\_transactions\_tab"> <initialize>
 <set name="TEMP.CUSTOMER\_TRANSACTIONS" value="runHttpGetDataLoader('@war.context.name@/controller/alerts/' + substring(INCIDENT.INCIDENT\_ID, 4) + '.json', 'INCIDENT', 'include=alert,entity,customer,transactions')" />

### UI Definitions – Lazy tab examples for Customers

This section shows how the various sections of the Customer details can specify a set of service includes to return just the data needed for a particular tab section.

#### Current Customer details

<screen><initialize>
 <set name="TEMP.X\_CUSTOMER\_LOAD\_FLG" value="runHttpGetDataLoader('@war.context.name@/controller/customers/' + substring(PARTY.PARTY\_ID, 4) + '.json','PARTY', 'include=customer,accounts,households,relatedAddresses,associatedEntities')"/>

#### Current Customer related entities

<tab id=”related\_entities\_tab"> <initialize>
 <set name="TEMP.X\_CURRENT\_CUSTOMER\_RELENT\_LOAD\_FLG" value="runHttpGetDataLoader('@war.context.name@/controller/customers/' + substring(PARTY.PARTY\_ID, 4) + '.json', 'PARTY', 'include=relatedEntities', 'prefix=TEMP.X\_RE' )" />

#### Current Customer comprehensive record

<tab id=”comprehensive\_tab"> <initialize>
 <set name="TEMP.X\_CURRENT\_COMP\_RAPSHEET\_LOAD\_FLG" value="runHttpGetDataLoader('@war.context.name@/controller/customers/' + substring(PARTY.PARTY\_ID, 4) + '.json', 'INCIDENT', 'include=customer,comprehensiveRecord', 'prefix=TEMP.X' )" />

#### Current Customer transactions

<tab id=”transactions\_tab"> <initialize>
 <set name="TEMP.CURRENT\_CUSTOMER\_TRANSACTIONS" value="runHttpGetDataLoader('@war.context.name@/controller/customers/' + substring(PARTY.PARTY\_ID, 4) + '.json', 'PARTY', 'include=transactions', 'prefix=TEMP.X\_TX' )" />

#### Current Customer related alerts

<tab id=”incidents\_tab"> <initialize>
 <set name="TEMP.X\_CUST\_ALERTS\_LOAD\_FLG" value="runHttpGetDataLoader('@war.context.name@/controller/customers/' + substring(PARTY.PARTY\_ID, 4) + '.json', 'PARTY', 'include=alerts', 'prefix=TEMP.X\_ALTS' )" />

### Note about Lazy Tab Initialization

For lazy tab initialization, if a child tab (tab nested within another tab) is being initialized lazily, then the parent tab MUST have an initialize block (even if it is empty) for the child tab to be evaluated lazily.

### Viewing transaction details from customer transaction list

When viewing a transaction’s details from the customer transaction list, if the transaction details page does not show any details, make the following change to the fcf-customer-details-01.xml UI definition.

In this line:

<datagrid-renderer-ref args="aml-transaction-details-01:Transaction:
TEMP.X\_TRANSACTION\_NUMBER=TEMP.X\_TRANSACTIONS\_TRANSACTION\_NUMBER:
TEMP.X\_SOURCE\_SYSTEM\_CD=PARTY.SOURCE\_SYSTEM\_CD" id="fcs\_genericLinkRenderer"/>

Change *TEMP.X\_TRANSACTIONS\_TRANSACTION\_NUMBER*  to:
*TEMP.X\_TX\_TRANSACTIONS\_TRANSACTION\_NUMBER*