

*IdentityIQ Accelerator Pack*

*Triggers*

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## Overview

Triggers are based on an Identity Cube’s extended attributes. These triggers are responsible for kicking off Lifecycle Event Workflows (for example, Joiner, Mover, Leaver, etc.)

Accelerator Pack offers a user interface where the following Lifecycle Events can be configured for their triggers.

* RETURN TO WORK LEAVE OF ABSENCE LIFECYCLE EVENT
* REHIRE LIFECYCLE EVENT
* JOINER LIFECYCLE EVENT
* RETURN TO WORK LONG TERM DISABILITY LIFECYCLE EVENT
* LONG TERM DISABILITY LIFECYCLE EVENT
* MOVER LIFECYCLE EVENT
* LEAVER LIFECYCLE EVENT
* LEAVE OF ABSENCE LIFECYCLE EVENT
* REVERSE LEAVER LIFECYCLE EVENT

## Supported Attribute Types

String, Boolean, List, Date, and Identity Type attributes are supported for trigger comparisons between old and new values of an Identity Attribute.

## Supported Triggers

Accelerator Pack supports the following trigger properties and operations:

* Supports multiple triggers for an event with AND or OR Logical Operation between triggers
* Supports Override of AND Logical operation at each trigger level
* Supports population for triggers where old value is “IGNORE” and New value is Population Name
  + The Identity Cube is matched with population membership
* Suports comparison of old and new values
* Suports comparison of old and new values in a comma separted format
* Supports date field comparisons
* Supports high water mark population
* Supports high water mark threshold
  + A new rule type task is created "HighWater Mark Scan". This task must be executed before Identity Refresh (Process Events). This rule scans each Lifecycle event that has high water mark definition. In case, future or forecasted trigger exceeds defined threshold count rule sends out an email to defined recipient and disables the trigger.
  + "HighWater Mark Scan" task must be a part of sequence task that includes aggregation of authoritative sources and Identity Refresh. This task must be configured in a sequence right before Identity Refresh.

## Quick Link Access

The QuickLink “Configure Triggers” is only accessible to the members of the workgroup “ROAD”.

## Implicit Joiner Trigger Authoritative Application Rule

Accelerator Pack offers two implicit joiner triggers that are described in the Joiner Design Document. These two triggers are packaged with Accelerator Pack. In case extended attribute “needsJoiner” trigger is removed and added again from QuickLink “Configure Triggers”. During the addition of this extended attribute trigger all authoritative source applications are saved with the “Rule-FrameWork-Creation-Joiner-Authoritative-Source” creation rule. This creation rule save is only done if the “needsJoiner” extended attribute is present on the Identity ObjectConfig object.

## Triggers Custom Artifact

Triggers are saved in a custom artifact named “Custom-Triggers”. Every Lifecycle Event has a process key defined in the the custom object. Here is the mapping of process key with events:

|  |  |
| --- | --- |
| Process Key | LifeCycle Event |
| joinerProcess | JOINER FEATURE |
| rtwloaProcess | JOINER LOA FEATURE |
| rtwltdProcess | JOINER LTD FEATURE |
| rehireProcess | JOINER REHIRE FEATURE |
| reverseleaverProcess | REVERSE LEAVER FEATURE |
| terminationProcess | LEAVER FEATURE |
| loaProcess | LEAVER LOA FEATURE |
| ltdProcess | LEAVER LTD FEATURE |
| moverProcess | MOVER FEATURE |

Every process key contains a list of triggers with either AND or OR Logical Operations. By default, an OR operation is applied between triggers. Here is an example of the Joiner process key list.

<Map>

<entry key="Operation" value="AND"/>

</Map>

<Map>

<entry key="Attribute" value="GROUPDEFINITION"/>

<entry key="NewValues" value="New Joiner Has At Least One Birthright Account"/>

<entry key="OldValues" value="IGNORE"/>

</Map>

<Map>

<entry key="Attribute" value="needsJoiner"/>

<entry key="NewValues" value="NEEDS PROCESSING"/>

<entry key="OldValues" value="IGNORE"/>

</Map>

These triggers are configured using the “Configure Triggers”QuickLink. Every trigger is a map object with certain sets of properties. Nest conditions by embedding AND/OR conditions into populations. For example two populations can be defined 1. Identity must be a member of a Population 2. Identity must not be a member of a Population.

See the table below for each property’s possible values that can be defined in the custom artifact.

|  |  |
| --- | --- |
| Trigger Map Property | Possbile Values |
| oldValues | * DATE * IGNORE * \* * EMPTY * DATE * <Entered Single or Multiple Values> |
| newValues | * DATE * DATE CLEARED * NEEDS PROCESSING * \* * EMPTY * <Entered Single or Multiple Values> * <Entered Population or Group Definition Name> |
| Attribute | * Extended Cube Attribute Name * GROUPDEFINITION (This is always negated) |
| DateOperation | * LESSEQUAL * GREATEREQUAL * EQUAL   This is only required when extended attribute is in date format |
| DateFormat | Java Simple Date Format |
| noChangeDetectedOverrideANDOperation | * YES * NO   This is used only when there is an“AND” logical operation between triggers. This property ignores the old and new value comparison for an identity at the trigger level. In other words, the whole trigger will be ignored to detect Lifecycle Event. |

## Trigger Map Property Combinations

The property “**newValues**” can be defined with one of the following values:

1. **DATE (Constant)**: This constant value means that the new date value of the selected extended attribute will be used during Lifecycle Event detection. This constant is displayed on the form with the display name as “DATE ASSIGNMENT”. This value is used in conjuction with the following trigger property values
   * Attribute: Any selected extended attribute.
   * OldValues: DATE
     + The display value on the form for this value is “DATE ASSIGNMENT”
   * DateFormat: For example “dd-MM-yyyy”
   * DateOperation: Any of the following selected date operation
     + LESSEQUAL: This operation is for PAST AND CURRENT DATE ASSIGNMENT
     + GREATEREQUAL: This operation is for FUTURE AND CURRENT DATE ASSIGNMENT
     + EQUAL: This operation is for CURRENT DATE ASSIGNMENT
   * noChangeDetectedOverrideANDOperation:
     + True: Ignore Trigger for Lifecycle Event Detection
     + False: Don’t Ignore Trigger for Lifecycle Event Detection
   * Example of **Future Hire Joiner**

<Map>

<entry key="Attribute" value="joinerDate"/>

<entry key="DateFormat" value="dd-MM-yyyy"/>

<entry key="DateOperation" value="GREATEREQUAL"/>

<entry key="NewValues" value="DATE"/>

<entry key="OldValues" value="DATE"/>

</Map>

* + Example of **Leaver**

<Map>

<entry key="Attribute" value="leaverDate"/>

<entry key="DateFormat" value="dd-MM-yyyy"/>

<entry key="DateOperation" value="EQUAL"/>

<entry key="NewValues" value="DATE"/>

<entry key="OldValues" value="DATE"/>

</Map>

* + Example of **Contract Extension Mover**

<Map>

<entry key="Attribute" value="ctrexpDt"/>

<entry key="DateFormat" value="dd-MM-yyyy"/>

<entry key="DateOperation" value="GREATEREQUAL"/>

<entry key="NewValues" value="DATE"/>

<entry key="OldValues" value="DATE"/>

</Map>

1. **DATE CLEARED (Constant)**: This constant value means that the new date value of the selected extended attribute is cleared out and the old date value of the selected extended attribute will be used during Lifecycle Event detection. This constant is displayed on the form with the display name as “ASSIGNED DATE RECALL”. This value is used in conjuction with the following trigger property values
   * Attribute: Any selected extended attribute
   * OldValues: IGNORE
     + The display value on the form for this value is “IGNORE”
   * DateFormat: For example “dd-MM-yyyy”
   * DateOperation: Any of the following selected date operation
     + LESSEQUAL
     + GREATEREQUAL
     + EQUAL
   * noChangeDetectedOverrideANDOperation:
     + True: Ignore Trigger for Lifecycle Event Detection
     + False: Don’t Trigger for Lifecycle Event Detection
   * Example of **Reverse Leaver**

<Map>

<entry key="Attribute" value="leaverDate"/>

<entry key="DateFormat" value="dd-MM-yyyy"/>

<entry key="DateOperation" value="LESSEQUAL"/>

<entry key="NewValues" value="DATE CLEARED"/>

<entry key="OldValues" value="IGNORE"/>

</Map>

1. **NEEDS PROCESSING (Constant):** The display name of this value is “IMPLICIT JOINER”. This is only used for Joiner LifeCycle Event Detection. This value is used in conjuction with the following trigger property values:
   * Attribute: needsJoiner
   * OldValues: IGNORE
   * noChangeDetectedOverrideANDOperation:
     + True: Ignore Trigger for Lifecycle Event Detection
     + False: Don’t Ignore Trigger for Lifecycle Event Detection

* **\*(Constant):** The display name of this value is “ANY NEW VALUE”. This means any new value of the selected extended attribute will be compared with any old value of or an empty old value of extended attribute. This comparison is used to detect Lifecycle Event. This value is used in conjuction with following trigger property values:
  + Attribute: Any selected extended attribute value
  + OldValues
    - \* (Constant): The display value on the form is “ANY OLD VALUE”
    - EMPTY (Constant): The display value on the form is “OLD VALUE EMPTY”
  + noChangeDetectedOverrideANDOperation:
    - True: Ignore Trigger for Lifecycle Event Detection
    - False: Don’t Ignore Trigger for Lifecycle Event Detection
* **EMPTY(Constant):** The display name of this value is “EMPTY NEW VALUE”. This is used to detect Lifecycle Events when the new value is empty or null for the selected extended attribute, and the old value of the same extended attribute is anything. This value is used in conjuction with the following trigger property values:
  + Attribute: Any selected extended attribute value
  + OldValues
    - \* (Constant): The display value on the form is “ANY OLD VALUE”
  + noChangeDetectedOverrideANDOperation:
    - True: Ignore Trigger for Lifecycle Event Detection
    - False: Don’t Ignore Trigger for Lifecycle Event Detection
* **Single or Multiple Values:** When the option “COMMA SEPARATED VALUES OR SINGLE VALUE” is selected, users are required to entire value/s for the selected extended attribute. This means specific new value/s of the extended attribute will be used for Lifecycle Event detection and will be compared with any of the selected old value options. This property value is used in conjuction with the following trigger property values:
  + Attribute: Any selected extended attribute value
  + OldValues
    - Single or Multiple Values: The display value on the form is “COMMA SEPARATED VALUES OR SINGLE VALUE”. When the option is selected, users are required to entire the value or values of the selected extended attribute
    - \* (Constant): The display value on the form is “ANY OLD VALUE”
    - Ignore (Constant): This constant value means that the old value of the selected extended attribute will not be used during Lifecycle Event detection.
  + noChangeDetectedOverrideANDOperation:
    - True: Ignore Trigger for Lifecycle Event Detection
    - False: Don’t Ignore Trigger for Lifecycle Event Detection
* **Population or Group Definition Name:** When the option “GROUPDEFINITION” is selected on Attribute, users are required to select a population name for New Value. This means membership of the population will be used for Lifecycle Event detection. If the Identity is **not** a member of the population, the identity is eligible for a Lifecycle Event. This property value is used in conjuction with the following trigger property values:
  + Attribute: GROUPDEFINITION
  + OldValues: IGNORE
  + noChangeDetectedOverrideANDOperation:
    - True: Ignore Trigger for Lifecycle Event Detection
    - False: Don’t Trigger for Lifecycle Event Detection