

Agenda

- Overview of Clarity workflows
 - Understanding processes and components
- Process design and managing processes
- MUX Automations
- Considerations

Introduction





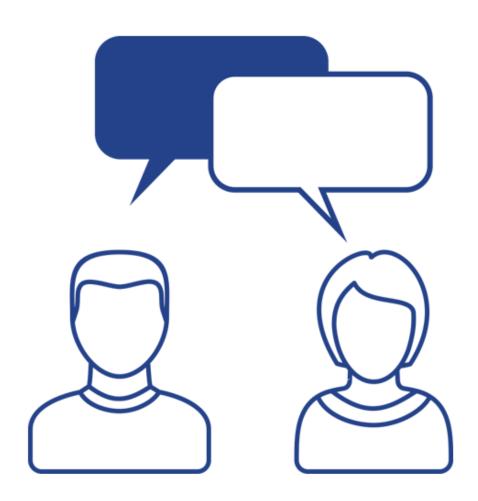
Introductions

Where do you work?

• What's your role?

 What area/topic would you like to learn more about?

 Anyone still exclusively on the Classic UI?



Workflows

Introduction





Manual vs Automation





Processes: Overview

- What is a process?
 - Processes in Clarity are workflow-based automations intended to streamline business workflows, manage approvals, execute actions, and allow for custom scripts
 - They help ensure consistent execution of automations across Investments and Objects.
- Why use processes
 - Automatically update, lock down or import data
 - Reduce manual entry and avoid pitfalls of manual procedures
 - e.g.,
 - Approve a cost plan
 - Send Action Item to manager when status is updated
 - Open project for time entry once status is approved
 - Approve timesheets

Survey

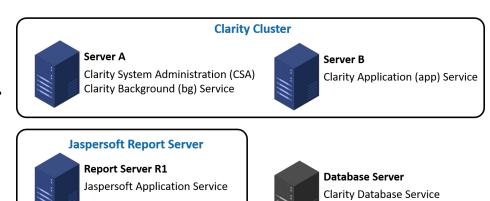
- Have you created a process before
- What kind of process was it
- Can you think of any activities that could be automated in Clarity



Architecture

- Processes run through the Background (BG) service.
- It's an independent service from the app/UI, which is constantly monitoring for actions, process executions and jobs.
- Processes are near real time but run async and independent of the UI.
- As a service, it has finite capacity and resources. Ensuring volume and best practices is key for a healthy environment.

Small Architecture



Processes





Processes: Design Basics

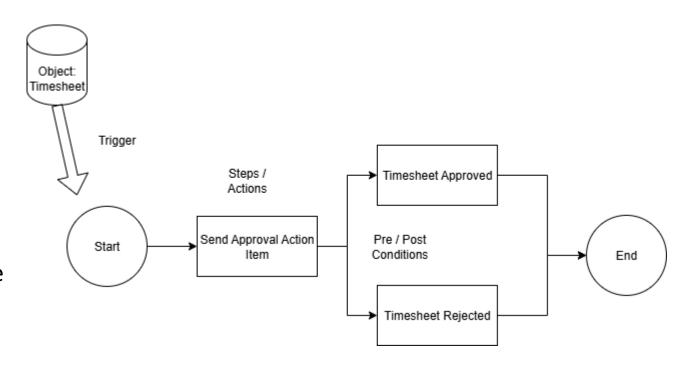
- The first step to processes is design:
 - Define the Process properties and description
 - Determine its trigger and associated objects
 - Define the steps and actions to properly represent the flow of the process.
 - Leverage pre and post-conditions to branch throughout the process.
 - Validate, activate and rollout the process



Process X-Ray: Timesheet Approval Process

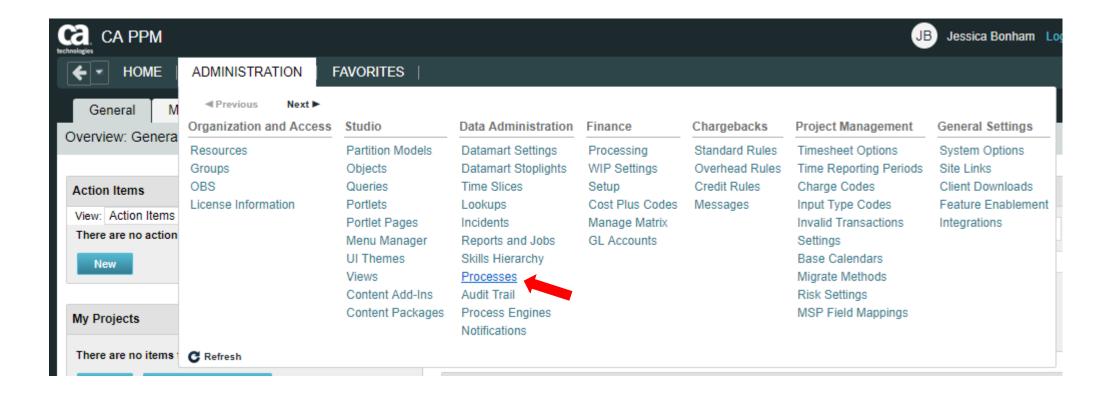
Imagine a Timesheet Approval process, where the Resource's Manager gets an Action Item to approve or reject a timesheet. Let's X-Ray the components of a process:

- What (Object): defines the associated object of a process which will drive the trigger and attributes available to the process; e.g., Timesheet.
- When (Trigger): Defines when the process triggers on creation or update. It can also be a manual or scheduled process; e.g., Timesheet submitted.
- Steps / Actions: the tasks/activities the process will perform; e.g., Send an action item or update the timesheet.
- Pre/Post Conditions: define when the step transitions to the next step, allowing for conditions to choose the path the process will take.



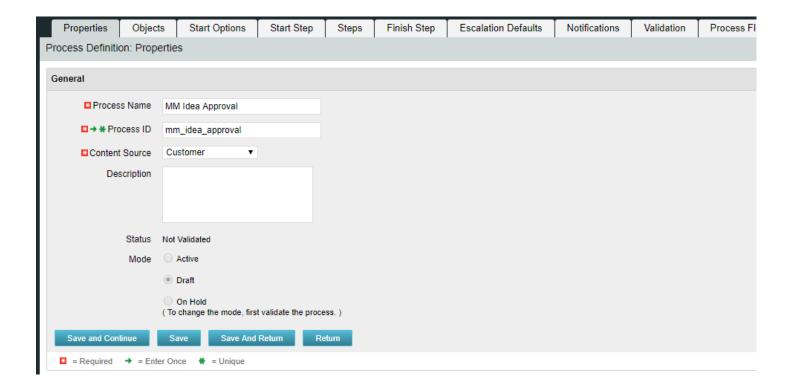
Processes: Creating a Process

Process definitions are accessed via the Administration menu:



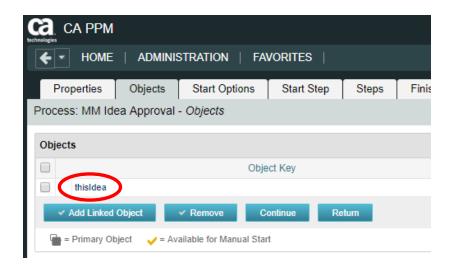
Processes: Properties

- Define Process Properties
 - Set the name and ID of the process
 - Processes are always created in "Draft" mode (default)
 - Processes in "Draft" can be modified, and they won't trigger/be available



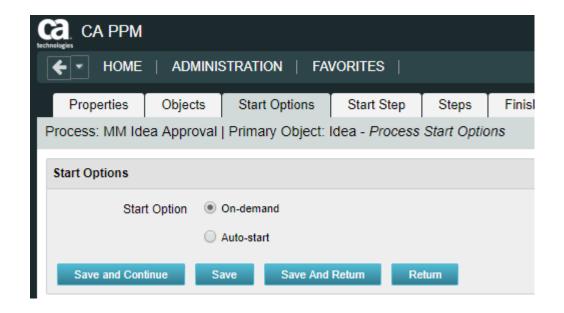
Processes: Objects

- Objects Define the primary entities like projects, ideas, or custom objects that the process will act upon
- Associate the process with a Clarity object if:
 - The process should be triggered by a user update (or create)
 - The process will include system actions, manual actions or sub-processes
 - Defines the attributes and actions available to a process
- In this example the process is associated with Ideas:



Processes: Start Options

- Start Options will define how the process will trigger. The start options can be set to:
 - On Demand: process will be kicked off manually, scheduled or by another process calling that process (although sub processes are to be used with caution)
 - Auto-Start: process will be kicked off when a user updates or creates an object instance based on the defined conditions



Processes: Steps

- Process Steps will include the actions a process will perform. The Steps define the logical diagram of the process.
 - Allow for sequential actions that guide the process flow from initiation to completion with defined outcomes.
 - A process includes a Start step, a Finish step, and any number of steps in between
 - Each step performs one or more actions that move the process toward completion





Processes: Pre/Post Conditions

- Process logic is the Pre-Condition or Post-Condition of each step
 - When defining a pre-condition or post-condition to a step, you can use attributes from objects added to the process or action item properties.
 - Pre-conditions will determine whether the step should begin
 - After defining the pre-conditions that trigger a step, you must define post-conditions that connect this step to the next step, choose a path or the Finish step
 - Post-conditions will determine where and whether the step will move
 - Examples of pre- and post-conditions include:
 - Checking the status of action items
 - Checking between object attributes values (except for MVL attributes)
 - Waiting for a sub-process to complete before joining the master

Processes: Splits and Joins

- Splits / Joins control the flow of the process. Allowing to define what the next step(s)
 will be and how they merge back into a single path to completion.
 - A Split branches into multiple directions
 - A Join brings multiple branches back together

Split Types

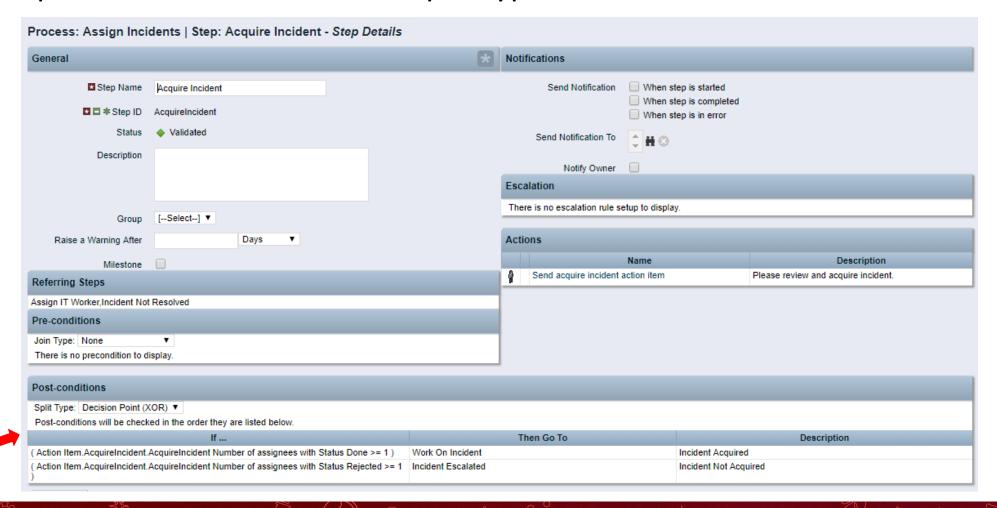
- Serial: One path only
- Parallel: runs 2 or more paths at the same time
- Decision Point (XOR): Runs one path only
- Multi choice: Runs one or more paths.

Join Types

- Rendezvous (AND): waits for all paths to complete.
- Merge (XOR): waits for one path only.
- Wait and Merge: merges multiple paths once they all complete.
- Multi-thread: As soon as one path finishes it continues.
- First in Line: first path to complete, continues.

Processes: Post-conditions

Example of Post-conditions and Split Type:



Processes: Pre-conditions

Example of Pre-condition Join Type:

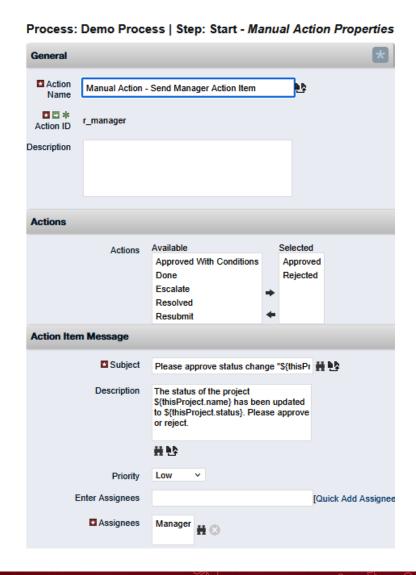
Step Name Incident Escalated Send Notification When step is started When step is completed When step is in error When step is in error Status Validated Send Notification When step is in error Send Notification To H Send Notification When step is in error Send Notification To H Send Notification When step is in error When step is in error Notify Owner Escalation There is no escalation rule setup to display. Actions Name Description Name Description Send Notification Acquire Incident Pre-conditions Value Send Notification Acquire Incident Set incident status to Escalated. Pre-conditions Value Value	Process: Assign Incidents Step: Incident Escalated - Step Details						
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Processes: Actions

- A step will contain multiple Actions. Actions can be one of the following:
 - Manual Action Trigger an Action Item to notify a resource of the expected manual actions required. Manual Actions can be customized to use object attributes as part of their content.
 - System Action Allows to execute system actions. Allowing to Lock / Unlock Attributes, Set Attribute Values for the selected object and certain System Actions for the selected object (e.g., copy a financial plan from a template).
 - Run a Job Executes a Clarity job and can optionally wait for the job to complete. (e.g., Post Timesheets)
 - Custom Script Allows for custom Gel scripts to be executed. One of the most powerful customizations in Clarity.
 - Subprocess Sub processes are invoked as embedded processes within the context of the current process. (Subprocesses should be used with caution and are normally not recommended as a best practice.)

Processes: Manual Action

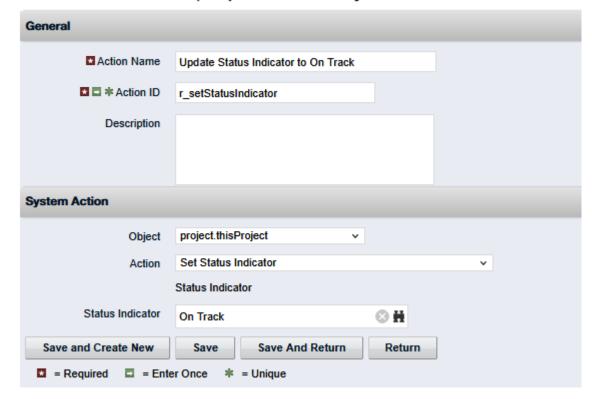
- Manual Action Trigger an Action Item to notify a resource of the expected manual actions required. Manual Actions can be customized to use object attributes as part of their content.
- Manual Actions allow:
 - A friendly name and description
 - Define the responses/actions available to the users
 - Define the message properties and assignees
 - Assignees can be a specific resource, group or based on an attribute (E.g. Project Manager)



Processes: System Action

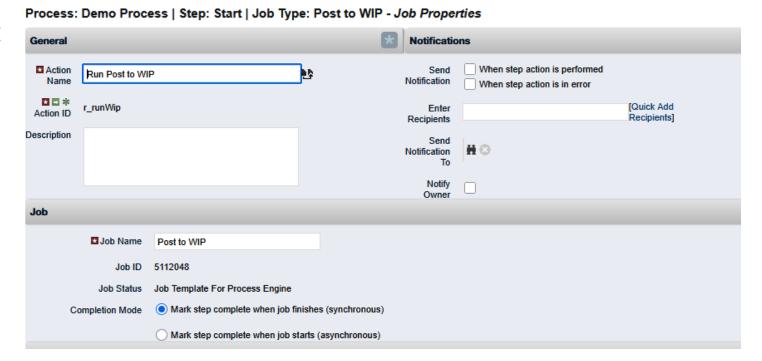
- System Action Allows to execute system actions. Allowing to Lock / Unlock Attributes, Set Attribute Values for the selected object and certain System Actions for the selected object (e.g., copy a financial plan from a template)
- System Action allows:
 - Locking / Unlocking fields
 - Set a specific value for attributes
 - System actions based on the selected object(s)

Process: Demo Process | Step: Start - Create System Action



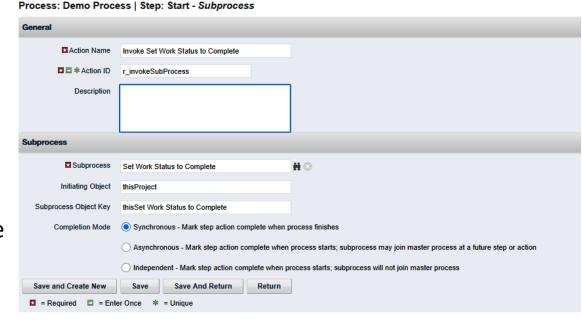
Processes: Run a Job Action

- Run a Job Executes a Clarity job and can optionally wait for the job to complete. (e.g., Post Timesheets)
- When running a job, the job parameters are fixed based on the action configuration.



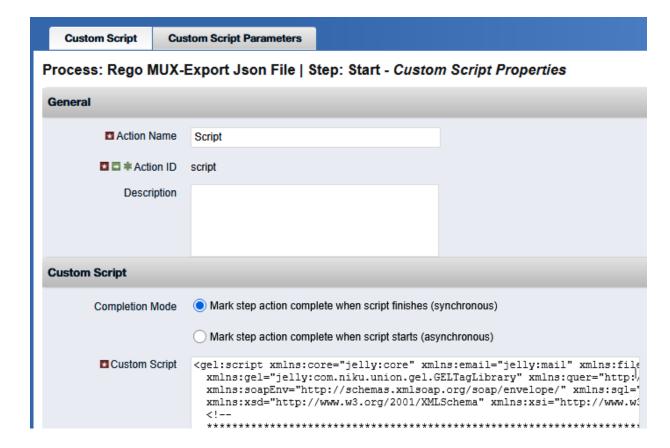
Processes: Subprocess

- Subprocess Sub processes are invoked as embedded processes within the context of the current process (Subprocesses should be used with caution)
- When running a subprocess, the parent process can:
 - Synchronous complete the action until the subprocess completes
 - Asynchronous complete the action when the subprocess starts, subprocess will later join the master process
 - Independent action is completed when process starts. Subprocess will not join the master



Processes: Custom Script

- Custom Script Allows for custom Gel scripts to be executed. One of the most powerful customizations in Clarity.
- Based on Gel language (variant of Jelly), which allows for development.
- Highly customizable and flexible, allows interactions with the Database, APIs, etc.



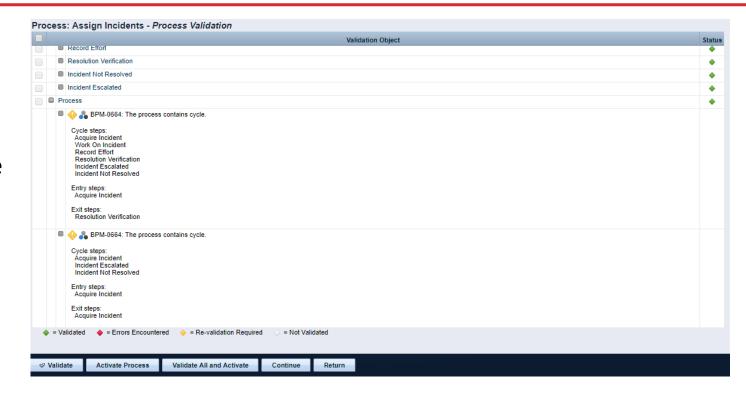
Using Processes





Processes: Validate and Activating

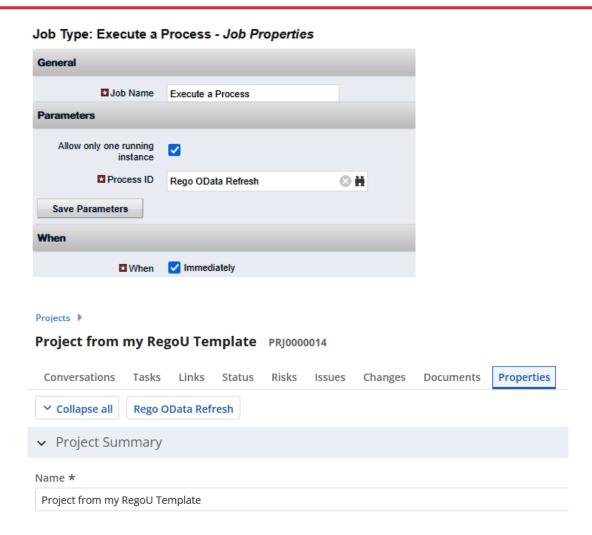
- Process Status:
 - Active Process will be available and can be triggered
 - On Hold Process was disabled, has at least one execution and will not be triggered
 - Draft Project has not been activated or executed
- Validate and Activate Process
 - Use the process validations page to submit for validation
 - In case of any errors, the validation page will detail the errors
- When releasing a process, ensure the proper Access Rights are set





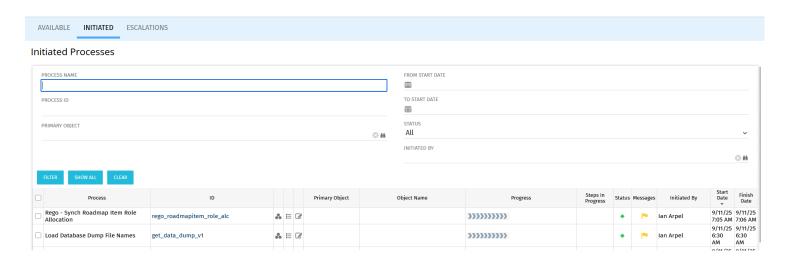
Processes: How to Start a Process Instance

- A process can be triggered
 - Manually
 - When not associated to an object:
 - Organizer
 - Execute a Process Job
 - Action on the UI
 - Via the Processes Tab of an Instance (Classic UI)
 - Automatically, when the update or create conditions are met



Processes: Monitoring a Process

- To review process instances, users can navigate to the Organizer or the Processes Tab in Classic UI when associated to an object.
- Under the Initiated Processes list, users can:
 - Filter/View processes they have Access Rights to
 - See the status of a process, execution details and associated object instance
 - Review Instance execution details by clicking on the ID field
 - Review process messages by clicking on the Messages icon



MUX



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Modern UX

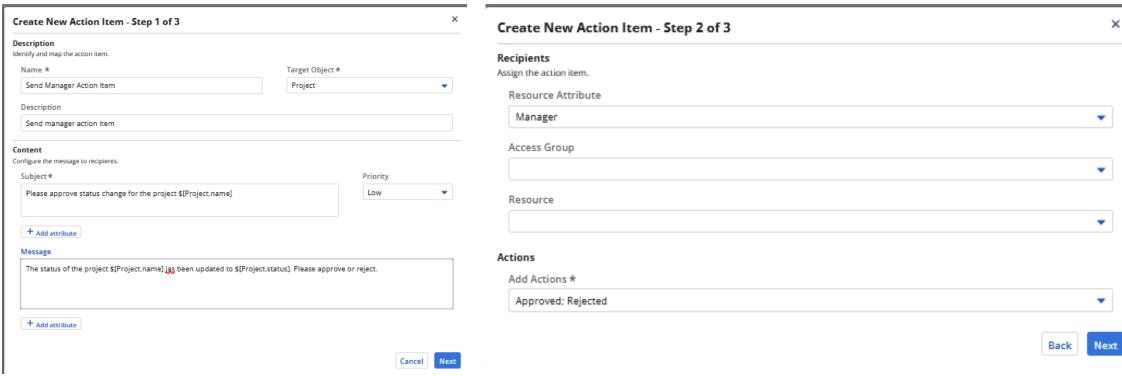
- Modern UX (a.k.a. MUX) is the latest UI, providing a more reactive experience, supporting new functionality and being heavily invested into.
- Provides the latest functionality for:
 - MUX specific modules like CITs, To Dos, Checklists, etc.
 - Views, Grids and Blueprints
 - Provides a reach UX experience leveraging a powerful Grid allowing per user views, Widgets, Canvas and the new reporting module.
- New functionality for automations through the UI, allowing admins to create:
 - Business Rules
 - Notifications
 - Action Items

Action Items

Available under the Admin Menu. Using Action Items allows:

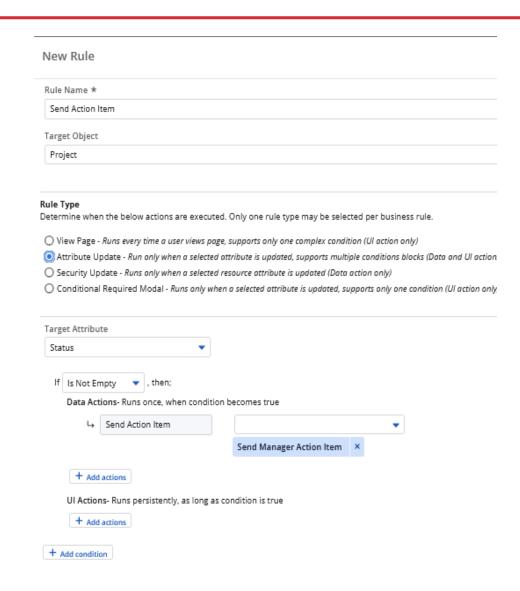
Action Items

- An Action Item to be triggered based on a condition
- Provides a similar experience allowing to define the assignees, content and available actions



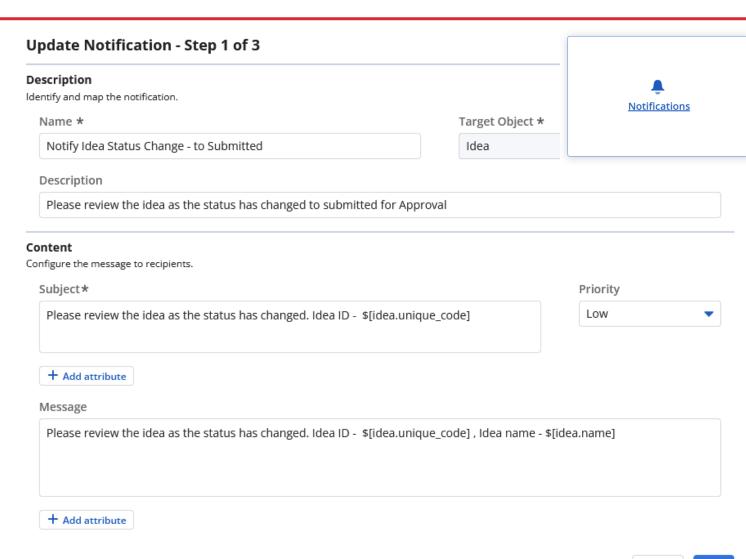
Action Items

Action Items can then be selected in a blueprint to define the trigger and actions based on the selected response.



Notifications

- Available under the Admin Menu. Using Notifications allows:
 - Define the properties of a notification
 - Define the conditions to trigger the condition
 - Define the recipients of the notification (When using lookup attributes, ensure the lookup is associated to the User object)
- e.g., Notify PM Group that idea status has changed to submitted

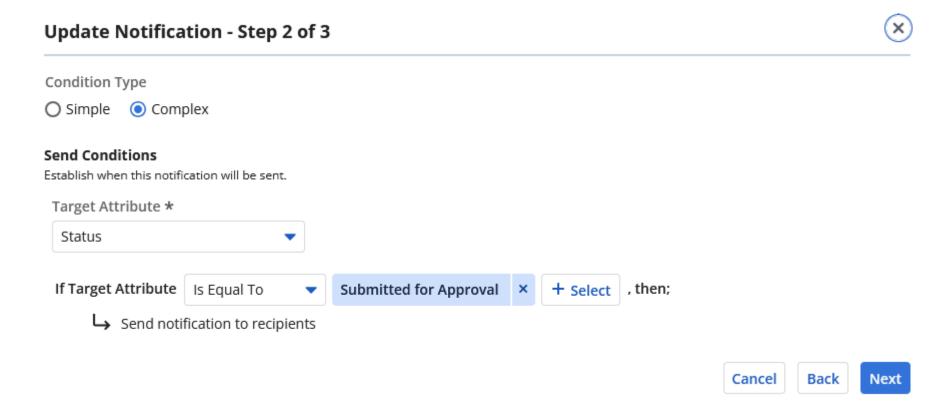






Notifications

• Step 2: Define the send condition



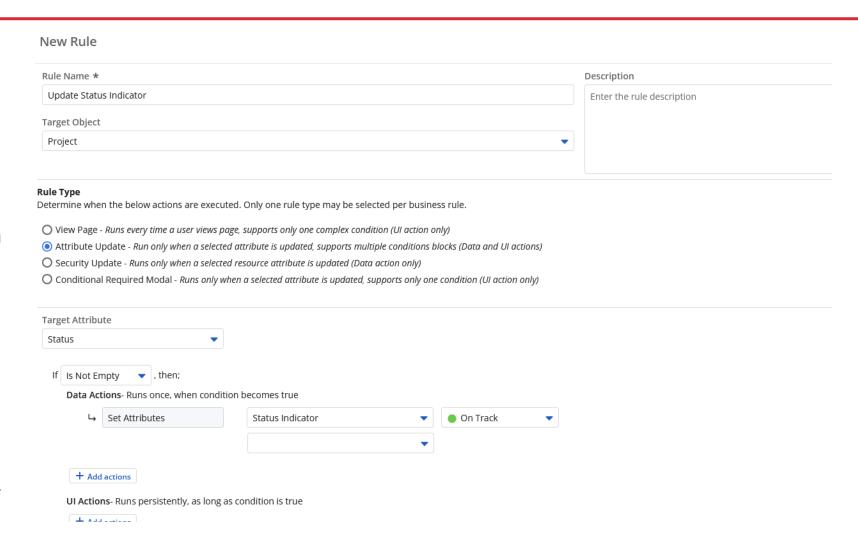
Notifications

• Step 3: Define the recipients



Blueprint Rules

- Blueprint Rules are available on a per blueprint basis.
- A more advanced concept than processes, allows actions to execute instantly when navigating the MUX without relying on the BG.
- Because of this design, they don't execute in all cases like a DB update or REST API calls.
- Blueprint Rules allow for:
 - Disable Editing (Attributes, objects)
 - Hide (Actions, attributes, modules, sections)
 - Required attributes
 - Set attribute values
 - Transfer / Grant / Revoke access rights
 - Enable conditional update of attributes



Considerations





Deciding the Best Approach

- Automate using Blueprint rules, Action Items, Notifications or Processes?
- Defining the triggers and best approach to ensure a responsive automation.
- Be mindful of best practices and performance.



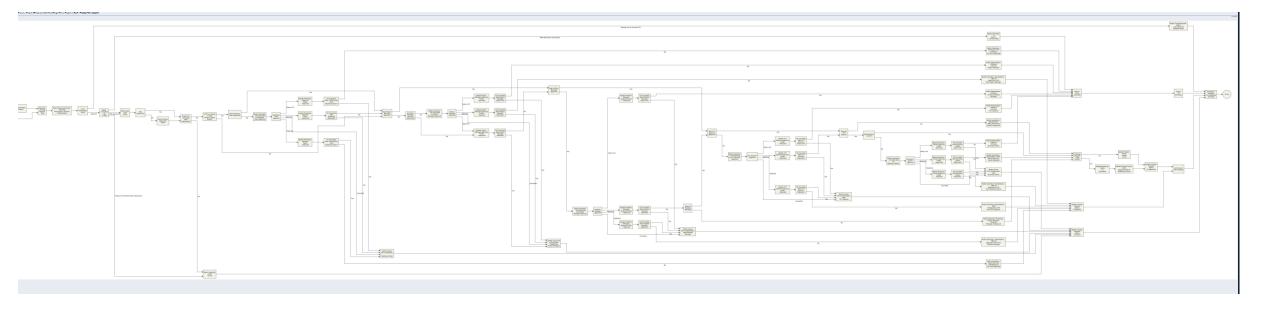
Processes: Best Practices

- Keep processes as simple as possible, they are intended to be short lived
- Avoid complex processes that involve long running logic or a high number of steps as it represents a load to the BG service
- Sub processes Use with extreme caution
- Limit the number of processes that might be triggered at the same time
- Be careful with what jobs you call from processes
- Ensure error handling and logs are incorporated when using scripts
- Ensure Process and Action Item retention and errors are monitored recurringly
- Ensure proper documentation is kept for all Clarity customizations and tracking
- Properly test and plan for rollout of any customizations
- Housekeeping, Housekeeping, Housekeeping! Review, cleanup and monitor your customizations and volume of data:
 - In a scheduled basis
 - When assessing/designing new customizations
 - When rolling out new customizations

Want to know more? Join our Housekeeping class!

Processes: Best Practices

Friends don't let friends create processes like this:



Questions?







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- Class Name = RegoUniversity
- Course Description
- Date Started = Today's Date
- Date Completed = Today's Date
- Hours Completed = 1 PDU per hour of class time
- Training classes = **Technical**
- Click on I agree and Submit



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