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# Custom

## Definition

This step is used to define a custom script that will be executed

## Steps Tabs

### Task details

All the process types have the same Task details for the Custom step:

- **Script:** allows you to define a Script this step allows you to add a script to be executed.

### Example

```
comments = executionContext.getToken().getComments();
selector = executionContext.getVariable("userSelector");
if (selector == null || selector.equals("")) {
    return ("The userName is mandatory");
}
user = serviceLocator.getUserService().findUserByUserName(selector);
if (user != null) {
    subject = "Soffid - Notification";
    message = "Automated mail sent .....";

    if (comments != null && !comments.isEmpty()) {
        for (comment : comments) {
            message += comment.message;
        }
    }

    serviceLocator.getUserService().sendHtmlMailToActors(new String[]{user.userName}, subject, message);
}
```

```
}
```

# Incoming transitions

The Incoming transitions tab displays the previous steps where the flow comes from. When you create a process from a template or from scratch default incoming transitions are defined. It is allowed to customize the default setup, add new transitions, or delete transitions.

- **From:** the previous step, where the flow comes. Allows you to select where the workflow comes from.
- **Incoming transition:** brief name to identify the transition. That is the name of the action the form will show to the final user.
- **To:** current step.
- **Action:** allows creating a custom script to perform specific actions.

When you create an incoming transition, Soffid creates the proper outgoing transition.

## Example

Scroll through the list of roles and the list of grant hierarchies to execute some actions.

```
userName = executionContext.getVariable("userName");

roleList = serviceLocator.getApplicationService().findRolesByUserName(userName);
for (role:roleList) {
    //TO-DO
}

user = serviceLocator.getUserService().findUserByUserName(userName);
roleGrantList = serviceLocator.getApplicationService().findRoleGrantHierarchyByUser(user.id);
for (roleGrant:roleGrantList) {
    //TO-DO
}
```

# Outgoing transitions

The Outcoming transition tab displays the next steps where the flow can go from the current step. When you create a process from a template or from scratch default outgoing transitions are defined. It is allowed to customize the default setup, add new transitions, or delete transitions.

- **From:** current step.
- **Incoming transition:** name of the transition.

- **To:** the next step, where the flow goes.
- **Action:** allows creating a custom script to perform specific actions.

When you create an outgoing transition, Soffid creates the proper incoming transition.

## Example

Delete additional attribute

```
userName = executionContext.getVariable("userName");
attribute = serviceLocator.getUserService().findDataByUserAndCode(userName, "country");

if (attribute != null) {
    serviceLocator.getAdditionalDataService().delete(attribute);
}
```

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