

# AND Branching

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BPaaS 16.08

Use the AND branching to enable independent, simultaneous processing of multiple process branches. The only requirement for parallel process execution is already predefined: All process branches within the AND brackets have to be fully executed bevor the process in the main branch may continue.

When modeling a parallel execution, the following must therefore be taken into account:

## On this Page:

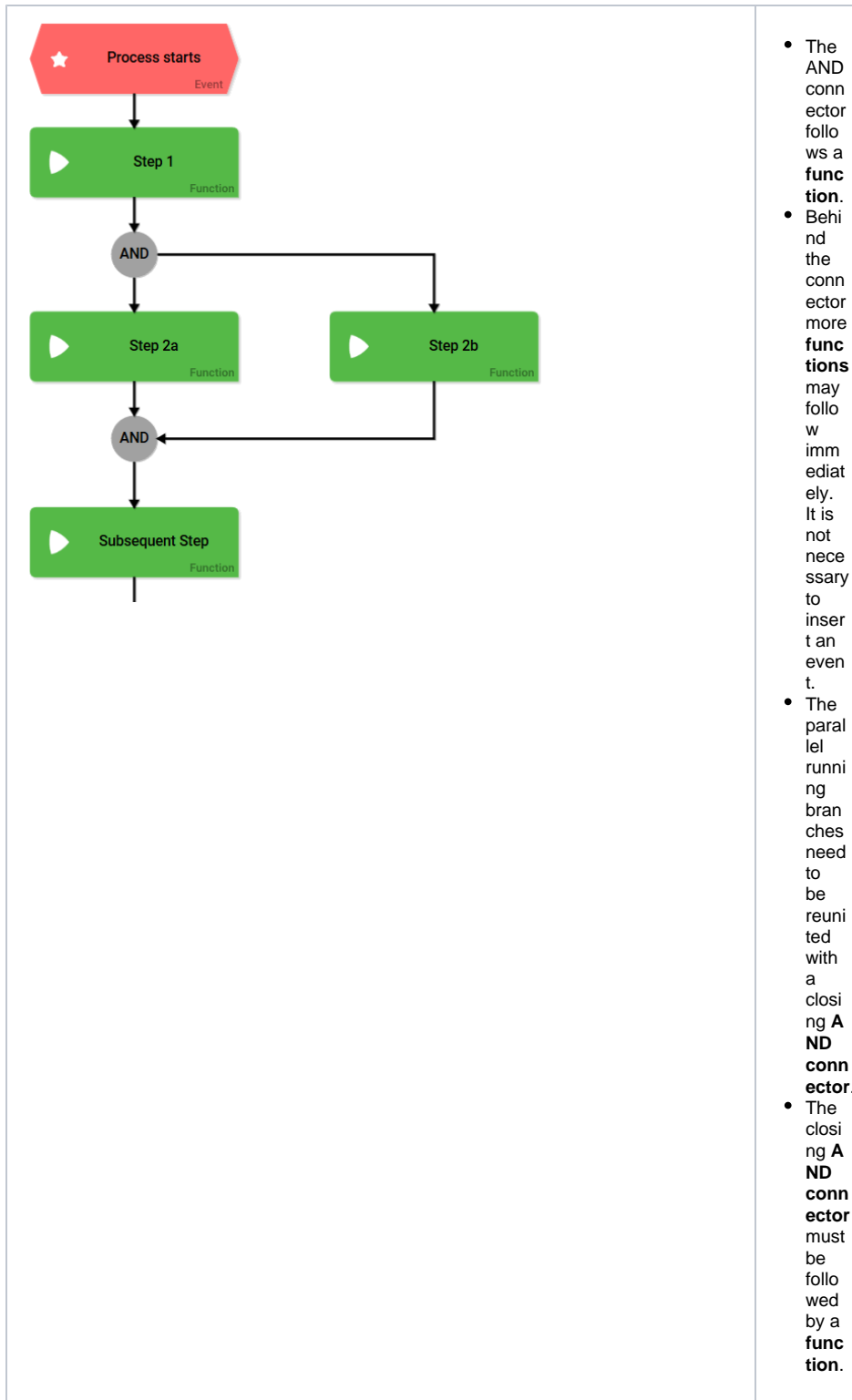
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- [XOR Branching](#)
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## Related Documentation:

- [BPaaS Entwicklerhandbuch \(German\)](#)
  - [Worker-Kontext ändern](#)
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## Modeling AND Brackets

All parallel running process branches have to be situated inside the AND bracket, created by using two AND connectors: The first AND connector opens the parallel execution, the second one reunites the parallel branches into a single process branch.

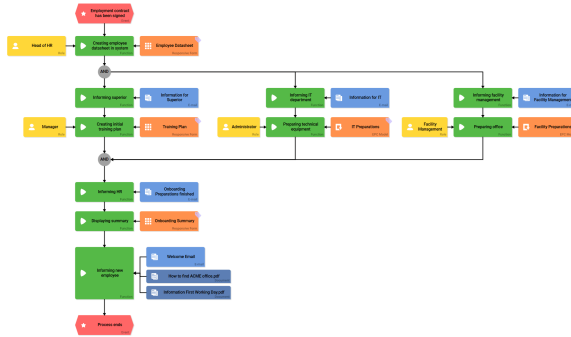
[Nesting](#) of process steps within the AND bracket is possible with the help of sub-EPCs. You could also add additional AND or [XOR](#) connectors within the parallel running process steps.



When using additional AND branchings within an AND bracket make sure to close each bracket with another AND connector.

#### Example: The ACME Onboarding Process

Before ACME welcomes a new employee on his first workday, the new colleague's entry has to be prepared. Multiple departments are involved in the onboarding process. As soon as an **Employment contract has been signed** the process starts with the step **Creating employee datasheet in system** to be executed by the HR department. The next steps need to be executed by various departments. Since the different departments can carry out their respective tasks independently of each other, parallel execution starts after the new employee's datasheet has been created:



The following steps happen simultaneously:

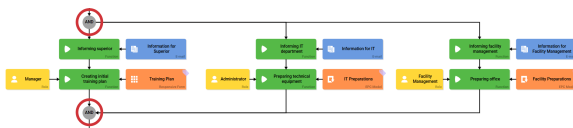
The three departments involved (Manager, Administrator and Facility Management) receive an e-mail to inform them, that onboarding tasks for a new employee are awaiting completion.

Subsequently...

- ... the supervisor creates a training plan.
- ... IT configures the technical equipment (email address, laptop, cell phone).
- ... Facility Management prepares the employee's work station.

The HR department is not informed until the last of the three departments has completed its work. Now everyone involved can review the corresponding summary. Prior to process completion, the new employee receives an email with all pertinent information regarding his first workday.

The AND bracket encloses all parallel running process steps:



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#### Onboarding Information

Please create an initial training plan for your new employee #onboardingFirstName# #onboardingLastName#.

The new colleague starts on #onboardingEntryDate#.

Thank you!

Please contact the HR department if you need further details.

Kind regards,

Raymond West

Head of ACME HR

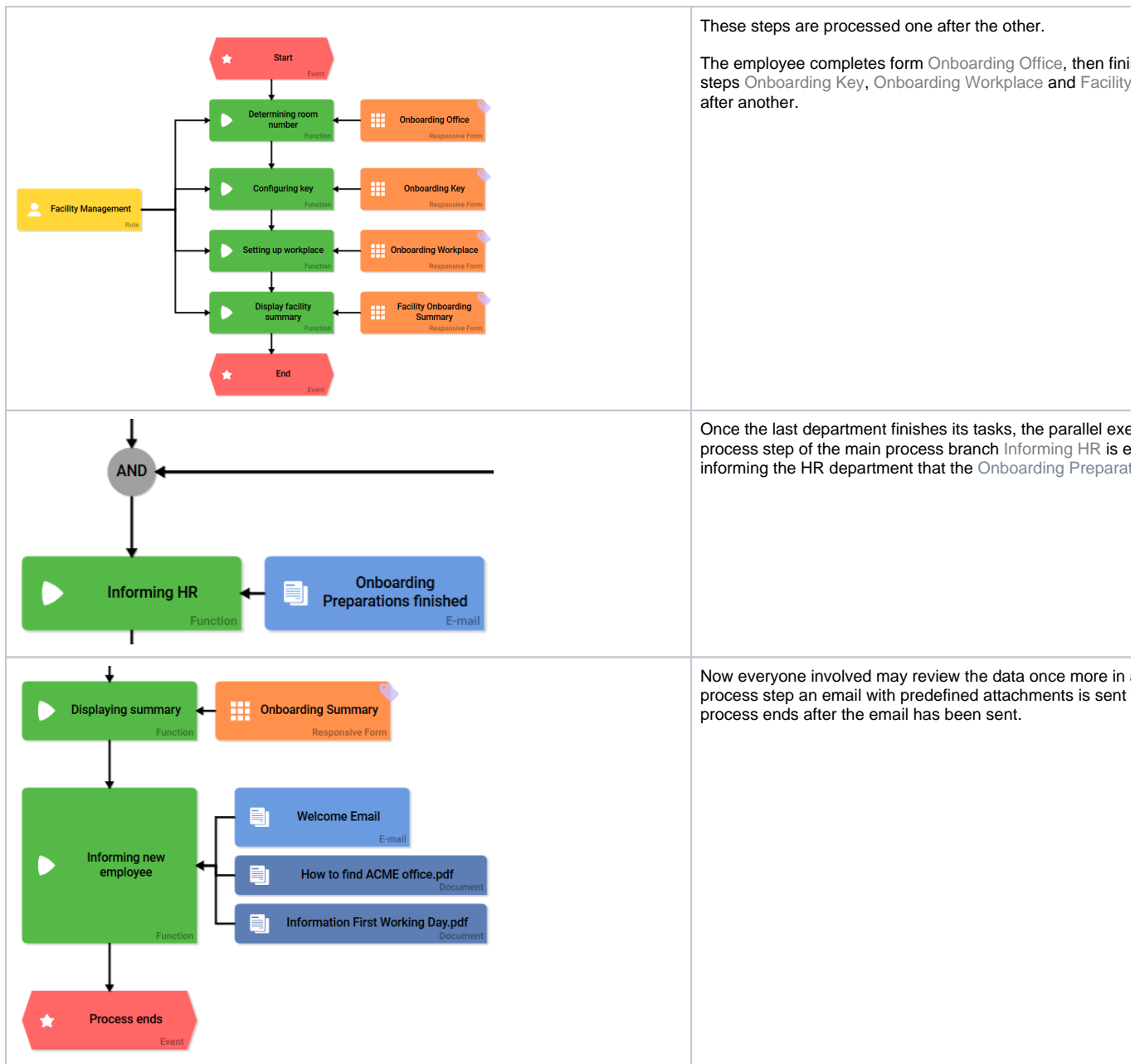
SAVE

CANCEL

While modeling further process steps inside the AND bracket EPC elements.

In the **ACME onboarding process**, in the first step after the emails are sent to all departments involved. This is to inform regarding the new tasks waiting in their onboarding worklis

	<p>In the supervisor's next step, he needs to complete the Tra</p>
<div data-bbox="162 388 714 514"> <h3>No Current Steps</h3> <p>Currently no further modification is required by your role or you are not authorized to execute the current process step</p> <div> Close Go to overview </div> </div>	<p>No other process steps were defined for his role once he fi</p> <p>As soon as he finishes and saves the form, the following m</p> <p><b>No Current Steps</b>  <b>Currently no further modification is required by your r</b>  <b>authorized to execute the current process step.</b></p> <p>He can either close the window or use the <b>Go to overview</b> workload.</p>
	<p>The process branches of the IT and the Facility Manage</p> <p>In order to keep the model clear, the next steps of the IT de</p> <p>the sub-EPC IT Preparations.</p>
	<p>To enable parallel execution, the sub-EPC IT Preparations branches.</p> <p>The opening and closing AND connectors are modeled in t</p>
<div data-bbox="162 1144 714 1396"> <h3>Your Next Steps</h3> <p>Several possible steps exist. Please choose the next step.</p> <div> <input type="text" value="Configuring laptop"/> <input type="text" value="Configuring mobile phone"/> </div> <div> Cancel Go to overview </div> </div>	<p>Once the process step Creating email address is finished, t</p> <p>The employee editing the instance gets a list of the next st</p> <p>He may decide which step he would like to finish first: Conf</p> <p>mobile phone. The next form to be filled appears according</p> <p>He could also use the button <b>Cancel</b> to close the list or <b>Go</b></p> <p>finish his tasks later.</p>
	<p>The next steps of Facility Management are modeled in the</p> <p>Preparations.</p>



## Selecting Subsequent Process Steps

If a user has to finish multiple steps in a parallel execution, he receives a list of open tasks. Since all process steps within the AND bracket need to be finished and are therefore equal, it is up to the user to decide in which order he wishes to process his tasks.

## Your Next Steps

Several possible steps exist. Please choose the next step.

Configuring laptop

Configuring mobile phone

Cancel

Go to overview

During the ACME Onboarding Process, the IT employee has the choice whether he first wants to edit the step Configuring laptop or whether he starts with the task Configuring mobile phone.

## Your Next Steps

Several possible steps exist. Please choose the next step.

Configuring laptop

Configuring mobile phone

Cancel

Go to overview

He decides to start with Configuring mobile phone and...

## Employee Datasheet

Last Name

Example

First Name

Ellie

Email Address

ellie@example.com

Department

Marketing

Personnel Number

13245

Entry Date

2019 Aug 01

ACME Email Address

ellie.example@acme-corp.com

☐ Mobile ready

Mobile Number

Mobile Notes

Go to overview

Save

Next

... the corresponding form opens.

After entering and saving data relating to the cell phone...

## Your Next Steps

Several possible steps exist. Please choose the next step.

Configuring laptop

Cancel

Go to overview

... a new list of next process steps is displayed.

Since he already finished one step, only the task **Configuring laptop** remains in his list. He could select this step now to work on it directly or he can use the button **Cancel** to close the list and postpone finishing the last task.

Onboarding Overview

Filter

Last Name:  First Name:  Department:

Start new Onboarding

Onboarding Overview Table

	Last Name	First Name	Department	Personnel No.	Entry Date	Private Email	ACME Email	ACME Mobile	Office No.	Current Step
<input type="checkbox"/>	Example	Ellie	Marketing	13245	08/01/2019	ellie@example.c	ellie@example@a	852 963 7411		Creating email ac
<input type="checkbox"/>	New	Newt	Sales	23456	09/01/2019	newie@newt.de				Creating initial tr

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To access the remaining task later, he needs to open his overview and click on the corresponding instance.

Employee Datasheet

Last Name:

First Name:

Email Address:

Department:

Personnel Number:

Entry Date:

ACME Email Address:

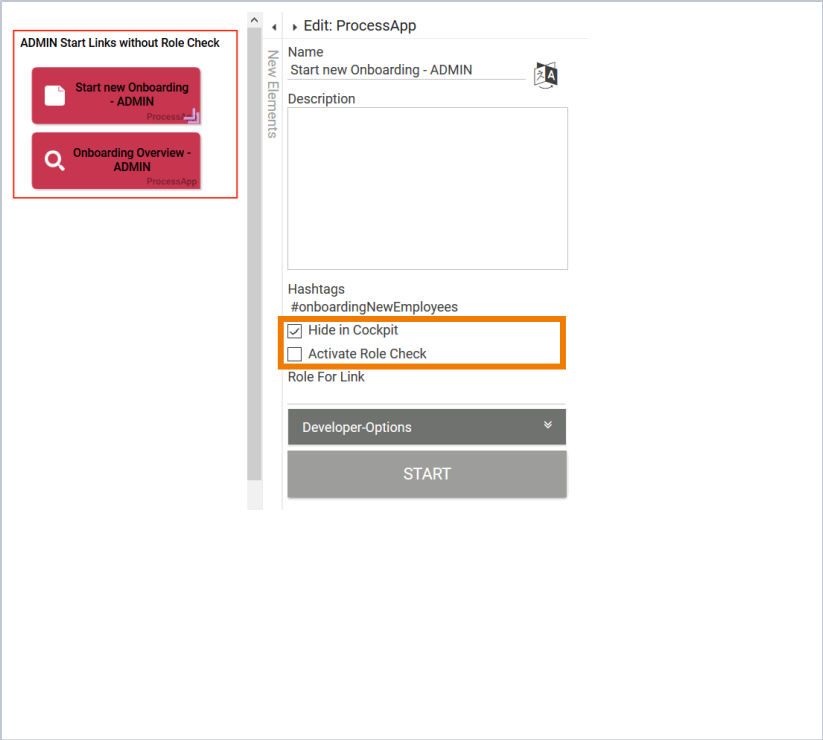
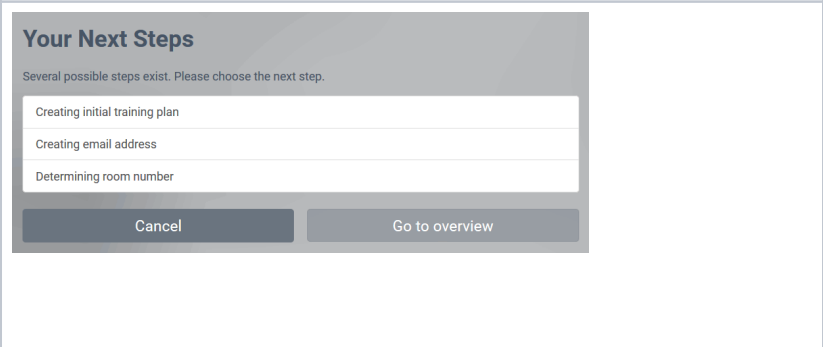
☐ Laptop ready

Laptop Notes:

Go to overview Save Next

Since there is only one task remaining, a click on the instance immediately opens the form of the open process step.

If more than one step remains, the list **Your Next Steps** would open again.

	<p>The selection of subsequent steps is also relevant to the design user.</p> <p>If the PAS designer created an administrator start link without role check, then he may execute the process for all roles.</p>
	<p>In this case, the system displays the list <b>Your Next Steps</b> for <u>all roles</u> as soon as parallel execution has started.</p>

## Usage of the Overview

When using the AND branching, then an instance may be in various process steps simultaneously. Use the [Overview](#) to display the current process steps simply with the help of [meta information](#).



Onboarding Worklist Manager

Edit: ProcessApp

Name  
Onboarding Worklist Manager

Description

Hashtags

☐ Hide in Cockpit

**Search Query**

Role For Link  
acme\_manager

Developer-Options

START

Every **Overview** start link contains the **Search Query** setting. In the search query editor you may define filters. This enables you for example to ensure that users only see role relevant open tasks or to restrict the display to a specific process step.

Access to the relevant process steps within the parallel execution is possible via metadata **meta.parallelBranches.currentStep.processStepName**.

If you want to restrict the instances overview to a specific process step, you have to add the information regarding the desired step. Therefore the name of the corresponding function from the EPC is specified in the search query:

```
{ "meta.parallelBranches.currentStep.processStepName" : "Name of the  
FUNCTION in your EPC" }
```

Example: **The process step** Creating initial trainin plan **is set in the search query's filter of start link** Onboarding Worklist Manager

Search Query Onboarding Worklist Manager

1: {"meta.parallelBranches.currentStep.processStepName": "Creating initial training plan"}

SAVE CANCEL

Onboarding Overview

Filter

Last Name First Name Department Start new Onboarding

Onboarding Overview Table

	Last Name	First Name	Department	Personnel No	Entry Date	Private Email	ACME Email	ACME Mobile	Office No
<input type="checkbox"/> Show	Peter		Production	56986	10/01/2019	peter@shaw.com			C
<input type="checkbox"/> Doyle	Arthur		Marketing	56986	05/02/2019	arthur@doyle-hc			C
<input type="checkbox"/> Doe	John		Purchasing	56985	03/31/2019	jon.doe@myself.i			lr
<input type="checkbox"/> Kimble	John		Production	23956	09/02/2019	john@private.kim			lr
<input type="checkbox"/> New	Newt		Sales	23456	09/01/2019	newie@newt.de			C

Page 1 of 1 View 1-5 of 5

All instances currently positioned in this process step are displayed in the manager's overview.



The available instances are also displayed in the cockpit's tile as worklist.

Employee Datasheet

Last Name  
New

First Name  
Newt

Email Address  
newie@newt.de

Department  
Sales

Personnel Number  
23456

Entry Date  
2019 Sep 01

Upload Training Plan (PDF) \*

Training Plan Newt.pdf

Notes

Go to overview Save Next

As soon as the supervisor finishes editing his form, the corresponding step Creating initial training plan is finished.

Onboarding Overview

Filter

Last Name First Name Department Start new Onboarding

Onboarding Overview Table

	Last Name	First Name	Department	Personnel No.	Entry Date	Private Email	ACME Email	ACME Mobile	Office No.	
<input type="checkbox"/>	Shaw	Peter	Production	56986	10/01/2019	peter@shaw.co				Cr
<input type="checkbox"/>	Doyle	Arthur	Marketing	56986	05/02/2019	arthur@doyle-				Cr
<input type="checkbox"/>	Doe	John	Purchasing	56985	03/31/2019	jon.doe@mysel				In
<input type="checkbox"/>	Kimble	John	Production	23956	09/02/2019	john@private-ki				In

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This instance is therefore no longer displayed in the supervisor's overview.



The cockpit's instance counter is adjusted accordingly, the supervisor's worklist is decreased by the finished instance.

You can also set filters for multiple process steps in the search query:

```
[
  { "meta.parallelBranches.currentStep.processStepName" : "Name of the
  FUNCTION in your EPC" },
  { "meta.parallelBranches.currentStep.processStepName" : "Another FUNCTION'S
  name" },
  { "meta.parallelBranches.currentStep.processStepName" : "A third FUNCTION'S
  name" }
]
```

**Example:** The filter of the start link Onboarding Worklist IT is set to display all IT relevant process steps. According to the filter, all of the IT department's unfinished instances are displayed in the overview:

Search Query Onboarding Worklist IT

```
1 [{"meta.parallelBranches.currentStep.processStepName" : "Creating email address"},
2 [{"meta.parallelBranches.currentStep.processStepName" : "Configuring laptop"},
3 [{"meta.parallelBranches.currentStep.processStepName" : "Configuring mobile phone"},
4 [{"meta.parallelBranches.currentStep.processStepName" : "Displaying IT summary"}]]
```

SAVE CANCEL