

# HR processes

HR processes are mostly a special type of [processors](#) or [stateful long running tasks](#). The intent here is to keep the process logic in the Activiti workflow, so it can be easily extensible without the need of digging in the code.

Both HR [processors](#) or [long running tasks](#) executes the same Activiti workflow process, the difference is in the time of execution: - processors executes process immediately, when identity contract is changed (active operation) - long running tasks are scheduled, mainly over night. So only the contract change is saved, and the HR processes are executed separately. Choosing the way is configurable - processor can be [disabled](#), long running tasks can be [scheduled](#) or not.

The `AbstractWorkflowStatefulExecutor` bears the responsibility of launching workflow tasks. The idea right now is fairly simple - execute the process synchronously for one user and return the operation result. The convention is that the processed item (of `AbstractDto` type) is passed into the workflow, which in turn writes the `OperationResult` as "operationResult" variable. You are advised to list through the standard set of workflow to see the real-world examples.

Developer tip: avoid asynchronous workflow execution if possible.

## Standard set of HR processes

### Enabled contract

The process is:

- a stateful task, therefore the contract is processed only once while it is valid for a continuous period of time. The process is realized by `HrEnableContractProcess` executor and `hrEnableContract` Activiti workflow.
- or processor, which checks, if the validity of a contract has changed. The same Activiti workflow is used.

### End of contract

The process is:

- a stateful task, therefore the contract is processed only once while it is not valid for a continuous period of time. The process is realized by `HrEndContractProcess` executor and `hrEndContract` Activiti workflow.
- or processor that checks if the validity of a contract has changed. The same Activiti workflow is used.

### Contract exclusion

The process is:

- a stateful task, therefore the contract is processed only once while it is disabled for a continuous period of time. The process is realized by HrContractExclusionProcess executor and hrContractExclusion Activiti workflow.
- or a processor that checks if the validity of a contract has changed. The same Activiti workflow is used.

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