Lock Workflow Instance Execution

Last Modified on 03/28/2024 6:56 am EDT

V10.1 and later

Overview

By default, a workflow instance is locked during its execution to block concurrent execution of workflow instances, and prevent data discrepancy. While the workflow instance is locked, no other application or user can execute the workflow, nor perform any action on it. Other workflow instances are not affected and continue running.

Use cases

Locking a workflow instance is useful to ensure that the workflow runs properly. Among other cases, locking workflow instances can help avoid errors when:

- Multiple users fetch the same task at the same time.
- Multiple users click the Submit button simultaneously.
- The Background Runtime Service (BRS) executes the workflow at the same time as the user.

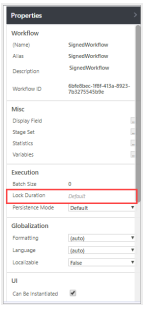
Configuration

You can lock a workflow instance by setting up the Lock Duration property in the App Studio, or adding `instanceLockDuration` property to the configuration file.

Location	Property	Description
App Studio > Properties > Execution	Lock Duration	Determines the time period, in **milliseconds**, during which the workflow is locked. • Default: '0' (no lock) ***(for versions earlier than V10.6)*** • Default: '600000' (10 minutes) ***(for V10.6 and later)***
Configuration files: • Web.config (Flowtime, Administration, and WebAPI) • App.config (BRS and JES)	`instanceLockDuration`	

Examples

Properties pane	Configuration file

Under Execution, enter the required value for the **Lock Duration** property.
 
Click image to enlarge it.
	In the `<workflowExecution>` section, under `<sequence.engine>`, add the `instanceLockDuration` property, and enter the required value.
	
	`<sequence.engine>`
	`<workflowExecution redirectMode="Manual" instanceLockDuration=”600000” />`
	`</sequence.engine>`

TIP
To define the appropriate lock duration value, consider the longest execution path in your workflow. For example, if the longest execution path takes two seconds, the recommended value is 2000.

V9.1

Overview

By default, a workflow instance is locked during its execution to block concurrent execution of workflow instances, and prevent data discrepancy. While the workflow instance is locked, no other application or user can execute the workflow, nor perform any action on it. Other workflow instances are not affected and continue running.

Use cases

Locking a workflow instance is useful to ensure that the workflow runs properly. Among other cases, locking workflow instances can help avoid errors when:

- Multiple users fetch the same task at the same time.
- Multiple users click the Submit button simultaneously.
- The Background Runtime Service (BRS) executes the workflow at the same time as the user.

Configuration

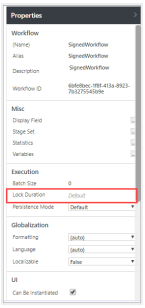
You can lock a workflow instance by setting up the Lock Duration property in the App Studio, or adding `instanceLockDuration` property to the configuration file.

Location	Property	Description

Location	Property	Description
App Studio > Properties > Execution	Lock Duration	Determines the time period, in **milliseconds**, during which the workflow is locked. Default: '600000' (10 minutes)
Configuration files: • Web.config (Flowtime and Administration) • App.config (BRS and JES)	`instanceLockDuration`	

Examples

Properties pane	Configuration file

Under Execution, enter the required value for the **Lock Duration** property.
 
Click image to enlarge it.
	In the `<workflowExecution>` section, under `<sequence.engine>`, add the `instanceLockDuration` property, and enter the required value.
	
	`<sequence.engine>`
	`<workflowExecution redirectMode="Manual" instanceLockDuration=”600000” />`
	`</sequence.engine>`

TIP
To define the appropriate lock duration value, consider the longest execution path in your workflow. For example, if the longest execution path takes two seconds, the recommended value is 2000.

V7.10

Overview

You can lock a specific workflow instance during its execution to block concurrent execution of workflow instances, and prevent data discrepancy. While the workflow instance is locked, no other application or user can execute the workflow, nor perform any action on it. Other workflow instances are not affected and continue running.

Use cases

Locking a workflow instance is useful to ensure that the workflow runs properly. Among other cases, locking workflow instances can help avoid errors when:

- Multiple users fetch the same task at the same time.
- Multiple users click the Submit button simultaneously.
- The Background Runtime Service (BRS) executes the workflow at the same time as the user.

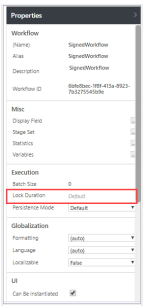
Configuration

You can lock a workflow instance by setting up the Lock Duration property in the App Studio, or adding `instanceLockDuration` property to the configuration file.

Location	Property	Description
App Studio > Properties > Execution	Lock Duration	Determines the time period, in **milliseconds**, during which the workflow is locked.
Configuration files: • Web.config (Flowtime and Administration) • App.config (BRS and JES)	`instanceLockDuration`	

Examples

Properties pane	Configuration file

Under Execution, enter the required value for the **Lock Duration** property.
 
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	In the `<workflowExecution>` section, under `<sequence.engine>`, add the `instanceLockDuration` property, and enter the required value.
	
	`<sequence.engine>`
	`<workflowExecution redirectMode="Manual" instanceLockDuration=”600000” />`
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TIP
To define the appropriate lock duration value, consider the longest execution path in your workflow. For example, if the longest execution path takes two seconds, the recommended value is 2000.