

# Cora SeQuence 9.8.4 Release Notes

Last Modified on 10/25/2022 8:26 am EDT

23 JUNE 2022

This update includes some resolved issues.

## Resolved issues

Component	Issue	Ticket #
Administration	When you upgraded from V8.x to V9.x, some activities were not mapped in the web.config files, and thus failed.	573620
	There was a wrong parameter for the <code>SqlServiceBrokerCleanupService</code> in the web.config file.  Wrong parameter <pre>type="PNMsoft.Sequence.MessageBus.SqlServiceBroker.SqlServiceBrokerCleanupService, PNMsoft.Sequence.MessageBus.SqlServiceBroker, Version=9.0.0.0, Culture=neutral, PublicKeyToken=0a1a1b90c1c5dca1" enabled="false" /&gt;</pre> Correct parameter <pre>type="PNMsoft.Sequence.MessageBus.SqlServiceBroker.SqlServiceBrokerCleanupService, PNMsoft.Sequence.MessageBus.SqlServiceBroker, Version=9.0.0.0, Culture=neutral, PublicKeyToken=0a1a1b90c1c5dca1" cleanup="true" /&gt;</pre>	591681
	If a solution included only one subgroup, the solution's task list was empty.	583854
	When you added a workflow to a category or sub category, the workflow wasn't added successfully in a single attempt.	-
	When you created custom actions in Cora SeQuence API, some states were missing.	-
	Conversation Items	After upgrade, the hardcoded translation values in Custom conversation types changed.

Component	Issue	Ticket #				
HotOperations	<p>Some workflows had duplicate activities.</p> <p>An improved locking logic that reduces the risk of duplicate activities was added to the Workflow execution logic.</p> <p>After you upgrade, add the following instance lock duration property to the <b>Flowtime web.config</b> file.</p> <table border="1"> <thead> <tr> <th>Property</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>instanceLockDuration</td> <td> Recommended value: 90000 (90 seconds)  Unit: milliseconds  Default value: 600000 (10 minutes) </td> </tr> </tbody> </table> <p><b>Example</b></p> <pre>&lt;workflowExecution ... instanceLockDuration="90000" /&gt;</pre>	Property	Value	instanceLockDuration	Recommended value: 90000 (90 seconds) Unit: milliseconds Default value: 600000 (10 minutes)	588590, 589815
	Property	Value				
instanceLockDuration	Recommended value: 90000 (90 seconds) Unit: milliseconds Default value: 600000 (10 minutes)					
There were issues with non-active ssb queues in ssb.DialogsMap.	607826					
JES	JES crashed when the "To" field was empty (Email Sender Job).	583065				
	JES jobs crashed intermittently, and you had to restart the JES.	588015, 590796, 618258, 626615, 626947				
Security	HTTP headers didn't include X-XSS-Protection value as 0, as recommended for OWASP.	-				
	<code>Server: Microsoft-IIS/10.0</code> was still visible in response headers.	-				

### Breaking change

The enhanced execution logic may expose parallel execution attempts, and affect the existing solutions' behavior.

If your solution does not behave as expected, check for the following error in the event log:

```
"Failed to acquire exclusive lock"
```

This error occurs when there are parallel execution requests for the same instance. Only the locking request executes the instance while other requests get blocked, which reduces the risk of ending up with duplicate activities.

To mitigate the error, it's recommended to look for the root cause of the parallel execution, and resolve it.

For example, a custom code in a Form that triggers the Submit action prematurely can be a root cause of the parallel execution.

Alternatively, you may disable the locking by setting its value to **zero**.

```
<workflowExecution ... instanceLockDuration="0" />
```

## Deployment

Download the release package from the [Cora SeQUENCE repository](#).

### NOTE

Contact [Support](#) to obtain credentials to access the Cora SeQUENCE repositories.

There are seven pre-build application deployment packages available, depending on the type of application that you are deploying. You install each Cora SeQUENCE application separately.

Site applications	Service applications
<ul style="list-style-type: none"><li>• Administration</li><li>• Flowtime</li><li>• Flowtime Lite</li><li>• WebAPI</li></ul>	<ul style="list-style-type: none"><li>• Job Execution Service (JES)</li><li>• Background Runtime Service (BRS)</li><li>• Active Directory Synchronization Service (ADSS)</li></ul>

When you deploy pre-built applications, you can choose between the *Standard* and *Premium* packages. The *Premium* package includes HotOperations. You can also build and deploy your own Cora SeQUENCE applications.



Click [here](#) to see how to deploy Cora SeQUENCE in an environment with pre-built applications.

For more details on installing and deploying Cora SeQUENCE, see [this article](#).

### IMPORTANT

**When you upgrade from a version earlier than V9.8.4, you need to upgrade to V9.8.3 first.**

With Cora SeQUENCE applications, also upgrade the database to this version.

For more information on *database upgrade paths*, see [this article](#).

Before upgrade, make sure to update the PowerShell modules to the latest version. For *PowerShell modules version mapping with Cora SeQUENCE version*, see [this article](#).

Click [here](#) to view a sample PowerShell script. Consider this sample for reference only, and do not copy paste from here.

For *development* purposes, you can run Cora SeQUENCE with Microsoft SQL Server Developer Edition.

During upgrade, all product application folders are deleted and redeployed:

- Web and App config files are overwritten in each release. You need to reapply your custom configuration settings after the upgrade.

- All custom files located in the application folders are also deleted. Custom files should be packaged as a custom application NuGet.

Files in the central configuration location are not changed.

For more details, see [this article](#).