

ONESOURCE INDIRECT TAX DETERMINATION

KNOWLEDGE BASE: TRANSACTION TIMEOUT DURING UPGRADE

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INTRODUCTION

Execution of the Implementer may invoke a transaction reaper event during an upgrade if you have a complex tax configuration or more than 100 million audit rows. The purpose of this article is to explain how to override the default 10 minute transaction timeout to facilitate error-free execution of the Implementer during the upgrade process by allowing ample time for transactions to complete.

PREREQUISITES

This article assumes that you are upgrading an existing instance of Determination. There have been a number of modifications to the Data Definition Language (DDL) since the release of Determination 5.2.X.X. If you are upgrading from Determination 5.2.X.X or earlier, it is recommended that you upgrade to an intermediary release such as 5.5.1.0 prior to installing the most recent release.

OVERRIDING THE TRANSACTION TIMEOUT

This section explains the steps required to override the default transaction timeout when upgrading from Determination 5.5.X.X. The addition of a properties file to the application server classpath prevents the invocation of a transaction reaper event during execution of the Implementer caused by the previously mentioned conditions. Because calculations are also affected by this override, you should immediately remove the properties file and re-start the application server once the upgrade is complete.

CREATING THE PROPERTIES FILE

The following steps are required to create and execute the timeout override:

1. Shut down your application server.
2. In the application server classpath create a file named *determination_application_overrides.properties*.
3. Add the following line to the properties file you have created:

```
determination.persistence.jta.default_timeout=<Timeout in seconds>
```

For example, enter the following to set the value to one hour:

```
determination.persistence.jta.default_timeout=3600
```

4. Save your file.
5. Restart your application server.



If you are running Determination in a clustered environment then you must repeat the steps above on each node participating in the cluster.



When using this override with Microsoft SQL Server, it is important to be aware that setting a high timeout value may result in a numeric overflow. A numeric overflow results in the transaction timeout being set to a negative number, causing an immediate timeout and subsequent transaction failure.

REMOVING THE PROPERTIES FILE AFTER UPGRADE

Because the timeout value is a global value, and will affect all transactions with the exception of SDI, which has its own pre-defined transaction timeout setting. Setting the timeout to one hour has the potential to result in up to an hour to elapsing prior to the application detecting zombie transactions and terminating them. Therefore, it is extremely important that the timeout value be overridden only for the duration of the upgrade process. As soon as the upgrade has completed, shutdown your application server and delete the properties file.