Transactions in SSIS

* **Required** indicates that the container starts a transaction, unless one is already started by its parent container. If a transaction already exists, the container joins the transaction. For example, if a package that is not configured to support transactions includes a Sequence container that uses the **Required** option, the Sequence container would start its own transaction. If the package were configured to use the **Required** option, the Sequence container would join the package transaction.
* **Supported** indicates that the container does not start a transaction, but joins any transaction started by its parent container. For example, if a package with four Execute SQL tasks starts a transaction and all four tasks use the **Supported** option, the database updates performed by the Execute SQL tasks are rolled back if any task fails. If the package does not start a transaction, the four Execute SQL tasks are not bound by a transaction, and no database updates except the ones performed by the failed task are rolled back.
* **NotSupported** indicates that the container does not start a transaction or join an existing transaction. A transaction started by a parent container does not affect child containers that have been configured to not support transactions. For example, if a package is configured to start a transaction and a For Loop container in the package uses the **NotSupported** option, none of the tasks in the For Loop can roll back if they fail.

You configure transactions by setting the **TransactionOption** property on the container

**Configuring a Single Transaction**

In this option, the package itself initiates a single transaction. You configure the package to initiate this transaction by setting the **TransactionOption** property of the package to **Required**.

Next, you enlist specific tasks and containers in this single transaction. To enlist a task or container in a transaction, you set the **TransactionOption** property of that task or container to **Supported**.

**ms-help://MS.SQLCC.v10/MS.SQLSVR.v10.en/s10is_1devconc/local/collapse.gifTo configure a package to use a single transaction**

1. In Business Intelligence Development Studio, open the Integration Services project that contains the package you want to configure to use a transaction.
2. In Solution Explorer, double-click the package to open it.
3. Click the **Control Flow** tab.
4. Right-click anywhere in the background of the control flow design surface, and then click **Properties**.
5. In the **Properties** window, set the **TransactionOption** property to **Required**.On the design surface of the **Control** **Flow** tab, right-click the task or the container that you want to enroll in the transaction, and then click **Properties**.
6. In the **Properties** window, set the **TransactionOption** property to **Supported**.

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| **ms-help://MS.SQLCC.v10/MS.SQLSVR.v10.en/s10is_1devconc/local/note.gifNote:** |
| To enlist a connection in a transaction, enroll the tasks that use the connection in the transaction. For more information, see Integration Services Connections. |

1. Repeat steps 6 and 7 for each task and container that you want to enroll in the transaction.

**ms-help://MS.SQLCC.v10/MS.SQLSVR.v10.en/s10is_1devconc/local/collapse.gifConfiguring Multiple Transactions**

In this option, the package itself supports transactions but does not start a transaction. You configure the package to support transactions by setting the **TransactionOption** property of the package to **Supported**.

Next, you configure the desired tasks and containers inside the package to initiate or participate in transactions. To configure a task or container to initiate a transaction, you set the **TransactionOption** property of that task or container to **Required**.

**ms-help://MS.SQLCC.v10/MS.SQLSVR.v10.en/s10is_1devconc/local/collapse.gifTo configure a package to use multiple transactions**

1. In Business Intelligence Development Studio, open the Integration Services project that contains the package you want to configure to use transaction.s
2. In Solution Explorer, double-click the package to open it.
3. Click the **Control Flow** tab.
4. Right-click anywhere in the background of the control flow design surface, and then click **Properties**.In the **Properties** window, set the **TransactionOption** property to **Supported**.

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| **ms-help://MS.SQLCC.v10/MS.SQLSVR.v10.en/s10is_1devconc/local/note.gifNote:** |
| The package supports transactions, but the transactions are started by task or containers in the package. |

1. On the design surface of the **Control** **Flow** tab, right-click the task or the container in the package for which you want to start a transaction, and then click **Properties**.
2. In the **Properties** window, set the **TransactionOption** property to **Required**.
3. If a transaction is started by a container, right-click the task or the container that you want to enroll in the transaction, and then click **Properties**.
4. In the **Properties** window, set the **TransactionOption** property to **Supported**.