SSIS Metrics

SQL BI Manager monitors several type of metrics to provide accurate information about the status and health of the Integration Services and the instances hosting these services on a BI environment. The metrics are classified in the following categories:

Server Performance

This category contains the following server related performance metrics:

- **Disk**
  Includes the following charts: **Disk Transactions**, **Average Seconds per Transaction**, **Current Disk Queue Length**, and **Percent Idle Time.**
- **Network**
  Includes **Data Transfer (bytes/sec)** and **Network Output Queue Length** charts.
- **Cache**
  Includes **Cache Copy Read Hits Percent**, **Cache Copy Reads per Second**, and **Cache Faults** charts.
- **CPU**
  Displays **CPU Thread Switching** (Threads Waiting vs. Thread Switches), **Percent Process Time** (Percent Privileged Time vs. Percent User Time), **Percent Processor Time** (Processor Time vs. SSIS Processor Time), and **Interrupts** charts.
- **Processing**
  Displays a **Process Working Set** (Memory Working Set Vs. SSIS Working Set) chart.
- **Memory**
  Includes the following charts: **Memory Overall Usage**, **Available Memory**, and **Page Transactions**.

SSIS Activity

This category displays a list of all **Package Executions** related to the Integration Services instance, with drill down capabilities. The list includes the following information:

- Server
- User
- Package ID
- Package Name
- Status
- Package Start
- Package End
- Duration
- Error Count
- First Error Message
- Configuration Message

You can click the **Package Name** to populate the **Package Details** list below, which contains the following information:

- Execution ID
- Folder Name
- Environment Name
- Project Name
- Step Name
- Execution Duration
- Start Time
- End Time
- Step Result

If you click the **Step Name**, BI Manager displays additional information for the task, organized in a list with the following columns:

- Operation ID
- Message TIme
- Message Type
- Message
- Event Name
- Package Step

The items displayed in the **Package Execution** list can be filtered by **Package Name**, **Status**, and **User**. The information can also be exported to a PDF, XLS, or XML file.

> ⚠ To obtain SSIS Activity, deploy packages in one of the following ways:
>
> 1. Using the SSIS Catalog deployment model.
> 2. Deploying to MSDB (configure packages for logging and use the 'Log Provider for SQL Server' as Provider type).

SSIS History

This category displays Package Monitoring information. The **Package History** list includes the following columns:

- Server
- Package
- Average Execution Time
- Last Execution Date
- Last Execution Status

You can click a Package from the **Package History** list to view detailed **Execution History** information. Use the ▤ and ⬈ icons to toggle between a list view and a chart view of the **Execution History**.

The items displayed in the **Package Monitoring** list can be filtered by **Server**. The information from both the **Package History** and the **Execution History** can be exported to PDF, XLS, or XML files.

> ✔ You can modify the time frame and the scale (minute, hour, day, week, or month) used to display the information in the charts and export the views to a XLS or XML file. You can also print a specific chart or download it as a PNG, JPEG, PDF, or SVG file.

SQL Business Intelligence Manager identifies issues within the SQL BI environment to help optimize BI service performance. Learn more >>

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