

Performance Tuning Guidelines for SAP Table Reader Connector in Informatica Cloud Data Integration

Abstract

When you use SAP Table Reader Connector, factors such as packet size and heap size impact the connector performance. You can optimize the performance by tuning these parameters appropriately. This article describes general reference guidelines to help you tune the performance of SAP Table Reader Connector.

Supported Versions

- Informatica® Cloud Data Integration SAP Table Reader Connector

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Overview

Performance tuning is an iterative process in which you analyze the performance, use guidelines to estimate and define parameters that impact the performance, and monitor and adjust the results as required.

This document describes the packet size and heap size parameters that you can tune to optimize the performance of SAP Table Reader Connector.

Note: The performance testing results listed in this article are based on observations in an internal Informatica environment using data from real-world scenarios. The performance of SAP Table Reader Connector might vary based on individual environments and other parameters even when you use the same data.

Data Extraction Modes

You can use one of the following modes to read data from an SAP Table:

- Normal Mode. Use this mode to read small volumes of data from an SAP Table.
- Bulk Mode. Use this mode to read large volumes of data from an SAP Table. Use bulk mode for better performance. Bulk mode consumes more resources as compared to normal mode. Therefore, you might need to tune the packet size according to the available resources and data set to increase the performance.

To configure data extraction modes, go to the SAP Table advanced source properties and select **Normal Mode** or **Bulk Mode** from the **Data Extraction Mode** list. The following image shows the data extraction modes:

▼ Advanced

Number of rows to be fetched:	<input type="text" value="0"/>
Number of rows to be skipped:	<input type="text" value="0"/>
Packet size in MB:	<input type="text" value="100"/>
Data extraction Mode:	<div><div>Bulk Mode ▼</div><div>Normal Mode</div><div>Bulk Mode</div></div>
<input type="checkbox"/> Enable Compression	

Performance Tuning Parameters

When you use bulk mode, you can optimize the reader performance of SAP Table Reader Connector by tuning the following parameters:

- Packet Size
- Heap Size

Tune the Packet Size for Bulk Mode

When you use bulk mode to read data from an SAP table, you can tune the packet size to increase the throughput.

Tune the packet size according to the network bandwidth, memory, and CPU resources available on the Secure Agent. Based on the packet size that you configure and the row length, the Secure Agent calculates the number of rows to be read in a single packet. If you increase the packet size, increase the heap size accordingly to improve the throughput.

To tune the packet size, go to the SAP Table advanced source properties and enter a value in the **Packet size in MB** field. The following image shows the **Packet size in MB** field:

▼ Advanced

Number of rows to be fetched:	<input type="text" value="0"/>
Number of rows to be skipped:	<input type="text" value="0"/>
Packet size in MB:	<input type="text" value="100"/>

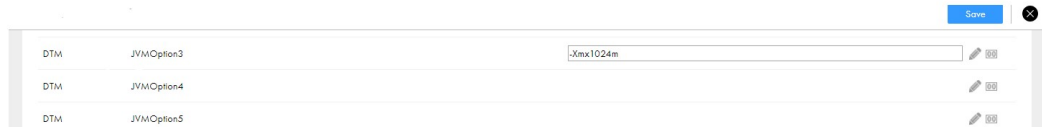
Tune the Heap Size for Bulk Mode

If you increase the packet size, increase the heap size accordingly to improve the throughput. To increase performance and avoid run-time environment memory issues, configure the JVM options in the Secure Agent for the Java heap size.

1. Log in to Informatica Intelligent Cloud Services.

2. Select **Administrator > Runtime Environments**.
3. On the **Runtime Environments** page, select the Secure Agent for which you want to increase memory from the list of available Secure Agents.
4. On the upper-right corner of the page, click **Edit**.
5. In the **System Configuration Details** section, select the **Type** as **DTM** for the Data Integration Server.
6. Edit the **JVMOption3** as **-Xmx1024m**.

The following image shows the **Details** page:



If you increase the packet size, increase the **JVMOption3** value accordingly to improve the throughput.

7. Restart the Secure Agent.

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