

Key Set Processing for DataSync Agent

Key Set Processing is a capability of the **DataSync Agent** which can be enabled when replicating messages from a ServiceNow instance to a database. The Key Set capability optimizes throughput while further ensuring message ordering.

NOTE: It's strongly recommended to enable this capability when replicating from a ServiceNow instance.

This is enabled on a task by task basis by adding the following configuration direction within the **<task>** definition.

```
<task>
  <enable_keyset_processing/>
  ...
  ...
</task>
```

The following directives can be added to the **agent.xml** when enabling the **Key Set Processing**:

Directive	Description	Example
<keyset_size>	Indicates the number of key set processor that will maintain the connection to the database. NOTE: Overriding the default key set size (8) may reduce overall throughput of message processing.	<pre><keyset_size>4</keyset_size></pre>
<queue_consumer_polling_interval>	Indicates the time interval the queue will be consumed. By default, the key set is scheduled to read from the queue every two seconds.	<pre><queue_consumer_polling_interval>nn</queue_consumer_polling_interval></pre> NOTE: The value nn is in milliseconds.
<keyset_read_wait_time>	Indicates the time each key set processor will wait when reading from its queue. By default, the wait time is 200 milliseconds.	<pre><keyset_read_wait_time>nn</keyset_read_wait_time></pre>

Example of the agent.xml

```
<?xml version="1.0" encoding="ISO-8859-1" standalone="no"?>
<config>
  <agent>
    <share/>
    <subscribe>
      <task>
        <enable_keyset_processing/>
        <keyset_size>4</keyset_size>
        <queue_consumer_polling_interval>nn</queue_consumer_polling_interval>
        <keyset_read_wait_time>nn</keyset_read_wait_time>
        ...
        ...
      </task>
    </subscribe>
    <max_reads_per_connect>4000</max_reads_per_connect>
    <polling_interval>5</polling_interval>
    <skip_message_set_processing/>
  </agent>
</config>
```

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Contact Perspective Support



US: 1 888 620 8880

UK: 44 208 068 5953

support@perspectium.com