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# eServices Administrator's Guide

Planning

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# Planning

Decide for which queues it makes sense to separate data into logical partitions. Start by surveying the queues in your Business Processes and separate them out into three types:

1. Queues that contain high numbers of interactions; for example, post processing backlog or archive queues.
2. Queues that should not contain lots of interactions because all interactions in these queues should be processed immediately. A good example is the first queue in a Business Process which is meant for some preliminary processing (such as performing classification, calculating and attaching some user data, or sending an acknowledgment).
3. Queues that feed strategies that wait for resources (agents) to become available; usually there is a single such distribution queue in a Business Process.

Here is the rationale for separating data into at least three partitions that correspond to these three types of queues:

1. Separating Type 1 queues, those with many "inactive" interactions, ensures that these interactions are not even considered when SELECT statements are executed to pull interactions from Type 2 ("active") queues. Even if there are complex conditions for some views in your Business Process, there is much less data to scan because the majority of the interactions in an archive or post processing backlog are not touched by these scans.
2. Separating Type 2 queues is logical because most of the time these queues should be completely empty. Selecting new interactions out of these queues is trivial since there are not many interactions to select from.
3. Type 3 is the most demanding. While the rate of processing can be high, if there are many agents and handling time is relatively low, interactions may still accumulate in these queues when the peak inbound rate is higher than the processing rate. This means that SELECT statements are executed frequently against many records. If there are multiple queues of this type, it may be beneficial to assign them to separate partitions.

## Hardware Planning

While purely logical separation of data may be of some benefit, placing the partitions on separate hard drives provides the best performance gain. In planning which drives in your system to dedicate to Interaction Server database partitions, it is advisable set aside one drive for the operating system and one for database log files, and place the Interaction Server database partition on other drives.

The rest of this section presents an example of partitioning using Microsoft SQL.