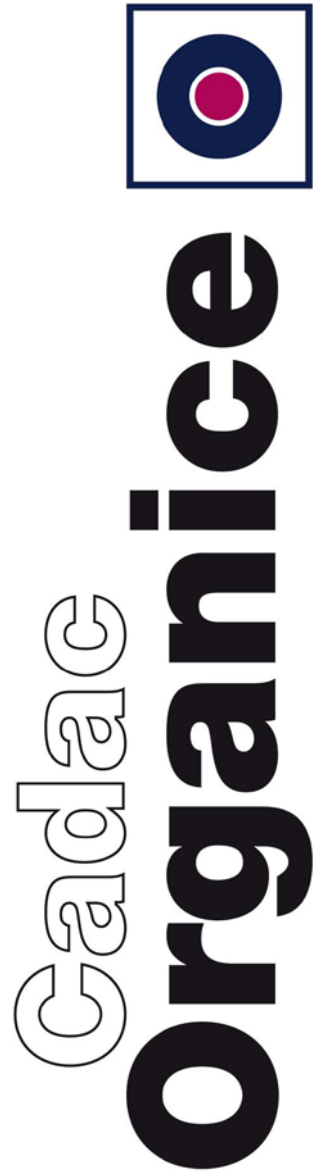


Optimizing SQL Server for Organice

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Revision history

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1 Introduction

This document provides customers of Cadac Organice with the best settings for the SQL Database environment.

2 Optimize the SQL Server

- Do not run non-SQL applications on the SQL Server
- Best performance is a dedicated SQL Server to one SharePoint Farm
- If the SQL server is virtualized it will affect the performance

3 Optimize the SQL Instance

- Adjust database default locations. This can be found in the Database Instance Properties
- Default location is never the system drive C:
- Log files and Data on separate LUN's/physical disks
- Adjust server memory settings if running multiple instances

4 Optimizing tempdb

- Set to 25% of largest DB
- Use AutoGrow of 100MB if growing, increase initial size

5 Optimizing Content Database

- Increase size of model DB to ~100MB
- If DB is expected to grow large - pre-size it
- Set autogrow between 50-100MB per file
- Preset log to about 25%
- Set autogrow between 20-40MB
- keep size < 200GB

6 Optimizing Search DBs

- Max of 25 million items per each crawl and property DB
- Store crawl and property DBs on separate, dedicated LUNs
- Add data files to match Content DBs
- Consider storing on dedicated SQL server

7 Remote BLOB Storage (RBS)

- Best in file-heavy environments
- Built in RBS support with SQL Server 2008 R2 (FILESTREAM provider)
- implement BLOB caching on WFE
<http://technet.microsoft.com/en-us/library/cc261797.aspx>

8 Best Practices

- Use SQL 2008 R2 Enterprise for best performance
- Backup logs regularly to prevent runaway log files
- Do not use autoshrink
- Do not use multiple file groups
- Run database integrity checks
- Use Instant File Initialization