

ROSS
RepliWeb Operations Suite for
SharePoint®

System Requirements

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1. Introduction

This document provides guidelines for assessing minimal system requirements for a ROSS installation in a SharePoint farm.

Background

ROSS is installed on a single front-end server in a SharePoint farm. ROSS's system resource usage depends on multiple parameters, including the content and structure of what is being replicated / deployed. Therefore, the information in this document attempts to offer considerations required when planning the system resources to be available for the ROSS deployment operations.

Terminology

The Replication process takes place between two systems – a Center and one or more Edges, involving either the uploading or downloading of data. The Center is the initiator of ROSS jobs and should be installed on the system that will initiate distribution jobs.

The Edge component should be installed (either as part of an edge only or a full installation) on the system that responds to distribution and replication requests initiated by a Center.

The Console is the main means for an end-user to interact with ROSS; it does not need to be installed on one system with the Center, but rather can be installed on any system that can form a TCP/IP session with the Center.

2. Guidelines

To use ROSS for replication of MOSS / WSS 3.0 servers, RepliWeb recommends the following system requirements for Center and Edge installations:

- The system should comply with the requirements set by Microsoft for the SharePoint environment, such as those covered in <http://office.microsoft.com/en-us/sharepointserver/HA101945391033.aspx>
- In addition to the requirements set forth by Microsoft, RepliWeb recommends that organizations take into account the following considerations:
 - **RAM**
 - 2GB minimum, 4 GB recommended RAM.
 - To this regard, a correlation exists between size of RAM required and the size/complexity of replication content. If the replication scope covers a content size of over 20GB, with many cascaded sub-sites and associated lists with many items, it is then recommended to use an even larger 8GB RAM.
 - Having the recommended system resources available does not replace proper planning of the deployment & replication jobs. It is recommended to configure jobs with a well defined scope, in correlation to the site – business process – responsibility delegation scope.
 - **Disk space**
 - The disk space available should be in line with the amount of data and type of transaction defined in the jobs.
 - On the source side, the minimum recommended disk space is 2GB + the size of the biggest file / content expected to be transferred.

- On the target side, if transactional deployment is used with the option of all content is treated as one transaction, then the target system should have free disk space equal to the size of the entire replication + 2GB. Otherwise, source recommendations also apply here.
 - There are additional considerations in disk space allocation that include the policies set for archiving & purging of jobs, the usage of rollback option and its data purging policy, etc. Based on the policies set by the organization, these should be taken into account for additional disk space allocation.
- Using a **dedicated front end server**
 - ROSS is deployed on a single front end within each farm; ROSS processes run and consume resources on that server during the replication operation and typically do not disturb normal operation. However, if large replication jobs are performed on a regular basis, you may consider allocating a dedicated frontend server for ROSS to use on the farm.

3. Summary

Having an operational environment for well performing replication jobs depends on proper resources allocation and planning of job configurations.

The guidelines discussed in this document can assist with that planning.