

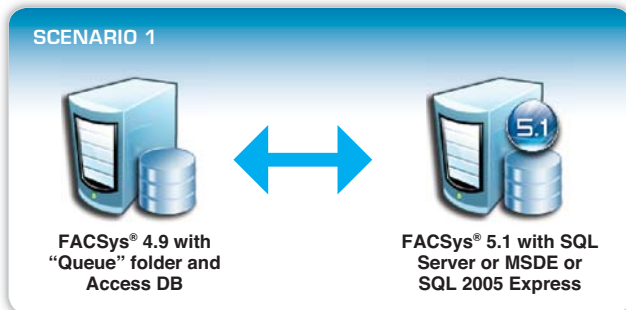


FACSys® 5.1

DEPLOYMENT SCENARIOS

The following diagrams are presented as conceptual guidelines and are not intended to be technical 'how-to' documentation.

FACSys® 4.X AND FACSys® 5.1

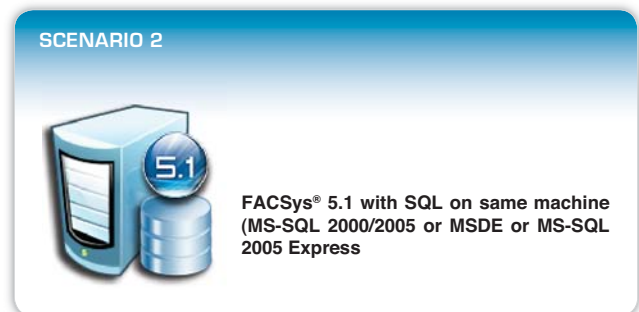


- FACSys® 4.x and FACSys® 5.1 Servers can only communicate with each other using server-to-server routing
- FACSys® Administrator, FACSys® Desktop Client, FACSys® Web Agent and FACSys® Enterprise Browser are NOT cross-platform compliant
- To be part of a FACSys® 5.1 Server Farm all 4.x servers must migrate to FACSys® 5.1
- See the FACSys® 5.1 Enterprise Installation Guide for detailed instructions on how to migrate 4.7SP4a, 4.8 or 4.9x servers to FACSys® 5.1

SUGGESTION:

Consult with a F.A.S.T. Technician or your FACSys® Authorized Distributor regarding your planned migration from 4.x to 5.1.

FACSys® 5.1 SERVER AS A STANDALONE WITH SQL



- For MSDE and MS-SQL 2005 Express no Microsoft® license is required
- 4GB Maximum storage
- Minimal reporting tools
- See the FACSys® 5.1 Enterprise Installation Guide

SUGGESTION:

Use this configuration with MSDE or MS-SQL 2005 EXPRESS on systems of 25-50 users where FACSys® application integration with other SQL applications is required.



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DEPLOYMENT SCENARIOS

FACSys® 5.1 SERVER AND AN EXTERNAL SQL DATABASE

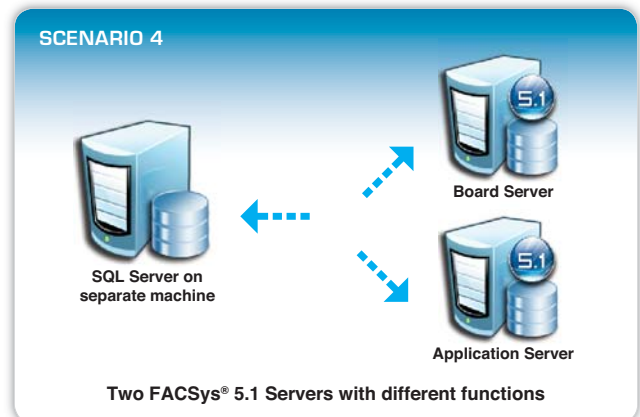


- FACSys® in a server with an external SQL database on any other server

SUGGESTION:

Use this configuration when the corporation already has an existing MS-SQL 2000 or MS-SQL 2005 instance and want to utilize it.

TWO FACSys® 5.1 SERVER AND AN EXTERNAL SQL DATABASE (FACSys® SERVER FARM)



- Two separate FACSys® Servers with MS-SQL 2000 or 2005 existing in a corporate environment.
- One FACSys® Server could be a fax board server and the other FACSys® Server could be used to service a group of users or an application.
- Both Servers could monitor each other and automatically failover to the other (in such cases, however, BOTH servers must have fax boards or FACSys® enabled IP solution).
- NOTE: Client and Channel model licensing can not be mixed.

SUGGESTION:

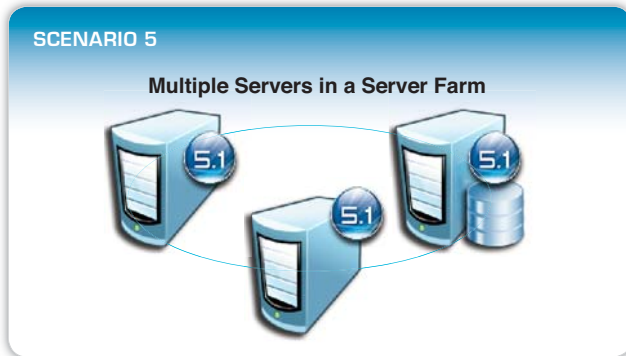
Use this configuration when the corporation wants to utilize an existing MS-SQL 2000 or 2005 instance, with a FACSys® Enterprise server (providing server-to-server failover and monitoring).



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DEPLOYMENT SCENARIOS

TWO OR MORE FACSys® 5.1 SERVERS, ONE WITH SQL (FACSys® SERVER FARM)



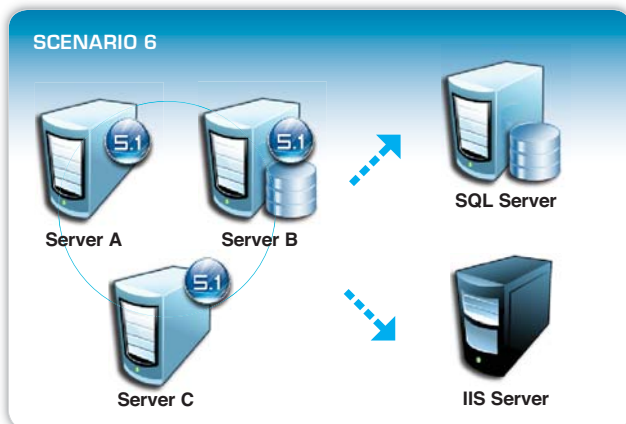
is not required. FACSys® Enterprise server-to-server failover will be compromised if the FACSys® Server with SQL happens to be the faulty unit.

- Two or more separate FACSys® Servers with MS-SQL 2000 or 2005 installed on one of the FACSys® servers.
- One or more FACSys® Servers could be fax board servers and the other FACSys® Server could be used to service a group of users or an application.
- All Servers could monitor each other and automatically failover to the other (in such cases, however, all servers must have fax boards or FACSys® enabled IP solutions) AND If the server with SQL goes down, the entire Server Farm goes down.
- See the FACSys® 5.1 Enterprise Installation Guide

SUGGESTION NOT RECOMMENDED:

Use this configuration when cost is an issue and mission-critical faxing

THREE OR MORE FACSys® 5.1 SERVERS AND AN EXTERNAL SQL DATABASE (FACSys® SERVER FARM) AND IIS



Enterprise Browser. In practice you could have one FACSys® Server with SQL and IIS all on the same system. We have separated the functions as separate machines for clarity and to display redundancy options.

- Scenarios 2 & 5 show how FACSys® 5.1 can be deployed without using IIS for those companies who are not comfortable using IIS in their environment. Use the FACSys® Administrator and either the FACSys® Desktop Client and/or an e-mail system to send and receive faxes.
- Scenario 6 adds an IIS Server to permit the FACSys® Enterprise Browser to be used to access the FACSys® 5.1 Enterprise Server Farm. Server A, B and C are set to monitor each other and do automatic failover if one of the three sustains a failure.
- In Scenario 6, we have a FACSys® Server Farm (consisting of three servers), and one SQL Server. Each of the three servers in the farm are set to monitor the other two. If left in this configuration, a user would have to log onto a particular machine and if that server is unavailable, they would have to disconnect and then re-connect to a different server.

SUGGESTION:

Add an IIS Server into the system when you want to use the FACSys®



FACSys® 5.1

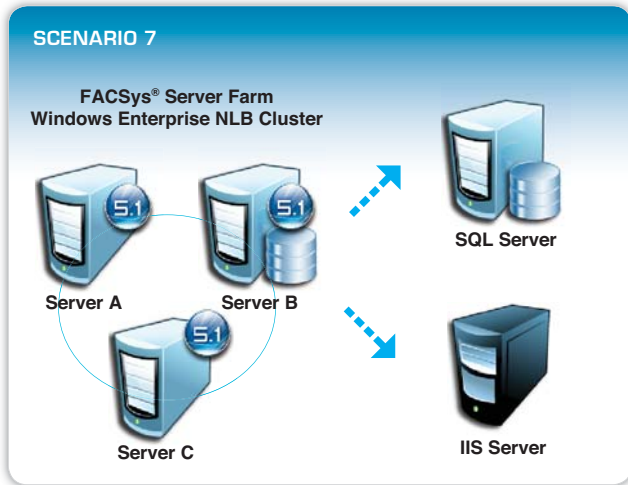
DEPLOYMENT SCENARIOS

CONFIGURING FACSys® 5.1 ENTERPRISE FOR FAILOVER AND LOAD BALANCING



■ emFAST Technical Support will assist with making the connection to a SQL server. F.A.S.T. Technicians do not assist with NLB Clustering or SQL Clustering configurations and questions. Please refer to emFAST's technical bulletins for assistance in these areas.

THREE OR MORE FACSys® 5.1 SERVERS (FACSys® SERVER FARM) IN A CLUSTER WITH AN EXTERNAL SQL DATABASE AND IIS



■ Scenario 7 depicts the configuration with three machines as a Windows Enterprise Server NLB [Network Load Balancing] Cluster.

■ A similar solution, using a “non-enterprise” version of Windows, would be to make several entries in the DNS server. A CNAME would need to be entered for each of the A records of the three physical servers. Then, if a user logs onto Server B, but Server B is unavailable, the monitoring server will take over the responsibilities of that server automatically, which would be transparent to the user.

■ Of course, in order for this failover to work, all three FACSys® Servers in the Server Farm MUST have the option turned on to store all inbound, outbound and Cover Page data in the SQL Database and NOT on the local file system of each server OR The files must be located on a network share where all three FACSys® servers can access the files.

SUGGESTION:

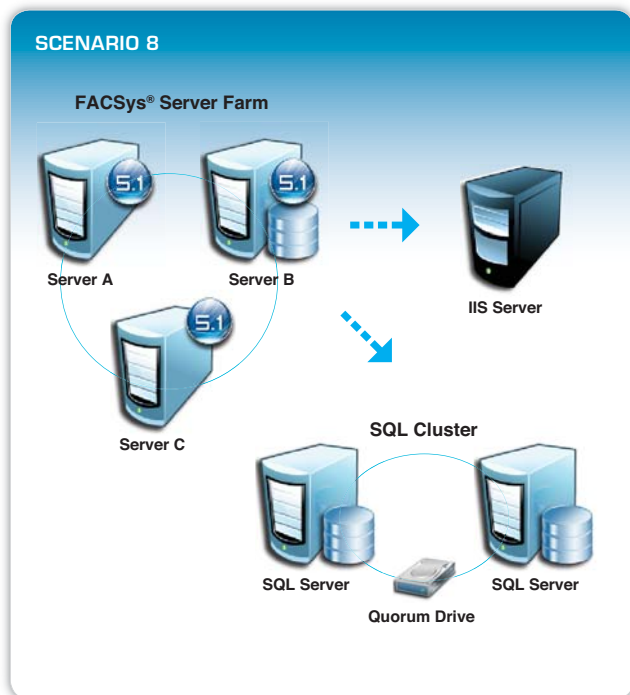
Add a Windows Enterprise NLB Cluster into the system when you want to maximize the redundancy of the FACSys® Servers.



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DEPLOYMENT SCENARIOS

THREE OR MORE FACSys® 5.1 SERVERS (FACSys® SERVER FARM) IN A CLUSTER WITH A CLUSTERED EXTERNAL SQL DATABASE AND IIS



■ Scenario 8 maximizes the failover and redundancy scenario for FACSys® Enterprise Server.

■ The FACSys® Server farm could be set-up as a Windows NLB.

SUGGESTION:

Add a Windows Enterprise NLB Cluster AND an SQL Server Cluster into the system when you want to maximize the redundancy of the FACSys® Servers and the SQL Servers.

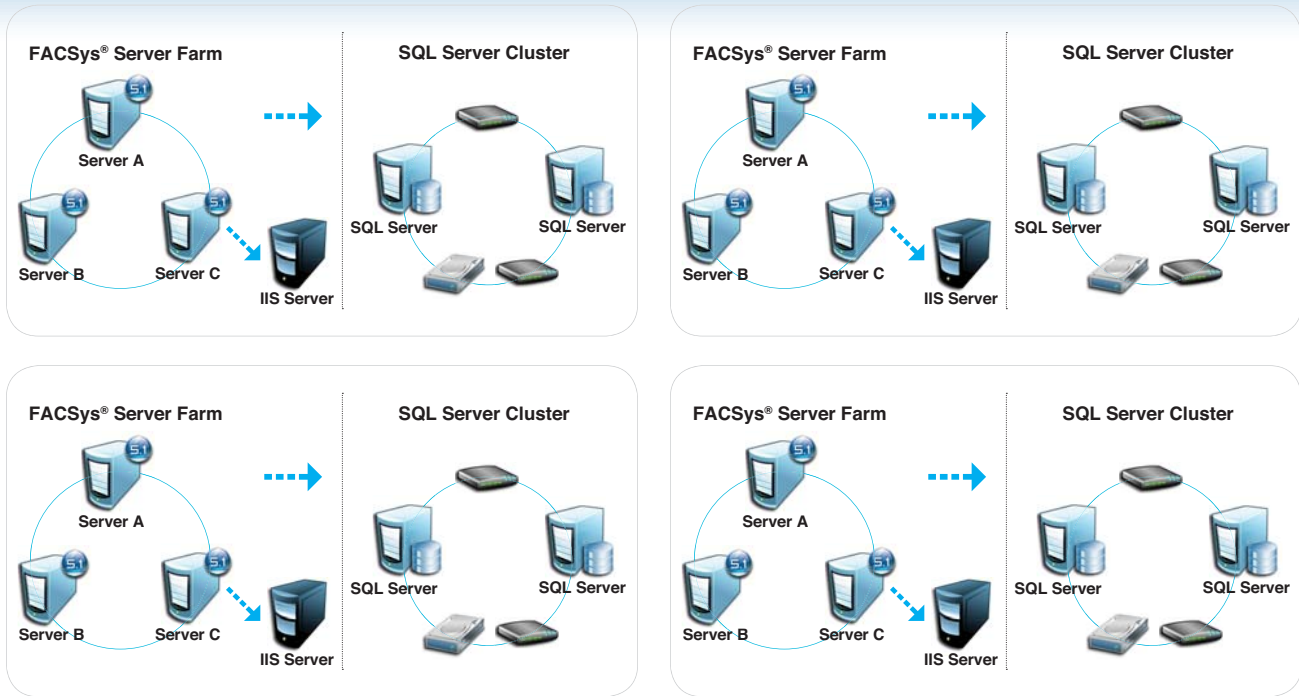


FACSys® 5.1

DEPLOYMENT SCENARIOS

TWO FACSys® 5.1 SERVERS AND AN EXTERNAL SQL DATABASE (FACSys® SERVER FARM)

SCENARIO 9



- Multiple FACSys® 5.1 Server Farms in Multiple Locations accessible through the FACSys® Enterprise Browser.
- Add SQL Replication for Farm-to-Farm redundancy.