70-225

Microsoft
Designing and Deploying a Messaging Infrastructure with Microsoft Exchange 2000 Server

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Topic 1, Contoso Ltd, Scenario

Introduction:
You are hired by Contoso, Ltd., to upgrade its existing Exchange Server environment to Exchange 2000 server.

Background:

History:
Contoso, Ltd., is an agricultural research company. The company's headquarters is located in Bismarck. The company has hundreds of offices and research factories, which are located all over the world. The company employs approximately 10,000 computers.
A large company named Enchantment Lakes Corporation owns Contoso, Ltd. The headquarters Enchantment Lakes Corporation is located in New York. Contoso, Ltd., exercises complete control of over its own business.
Contoso, Ltd., recently acquired a small agricultural research company that has offices in Calcutta, Milan and Tripoli.

Company Profile:
Contoso, Ltd., specializes in crop development, generic manipulation and the sale of seeds. The company's primary customers are farmers and government agencies. The company has approximately 10,000 Exchange Server mailboxes.
Bismarck headquarters employs approximately 5,000 people. Each of the other regional offices in the following cities employs 750 and 1,000 people.
1. Bonn
2. Cairo
3. Hong Kong
4. Rio de Janeiro
The other company locations each employ between 5 and 100 people.
Network planning is preferred in Bismarck. Each regional office has an IT staff that is responsible for the day-to-day operations of the servers and network connections in that office.
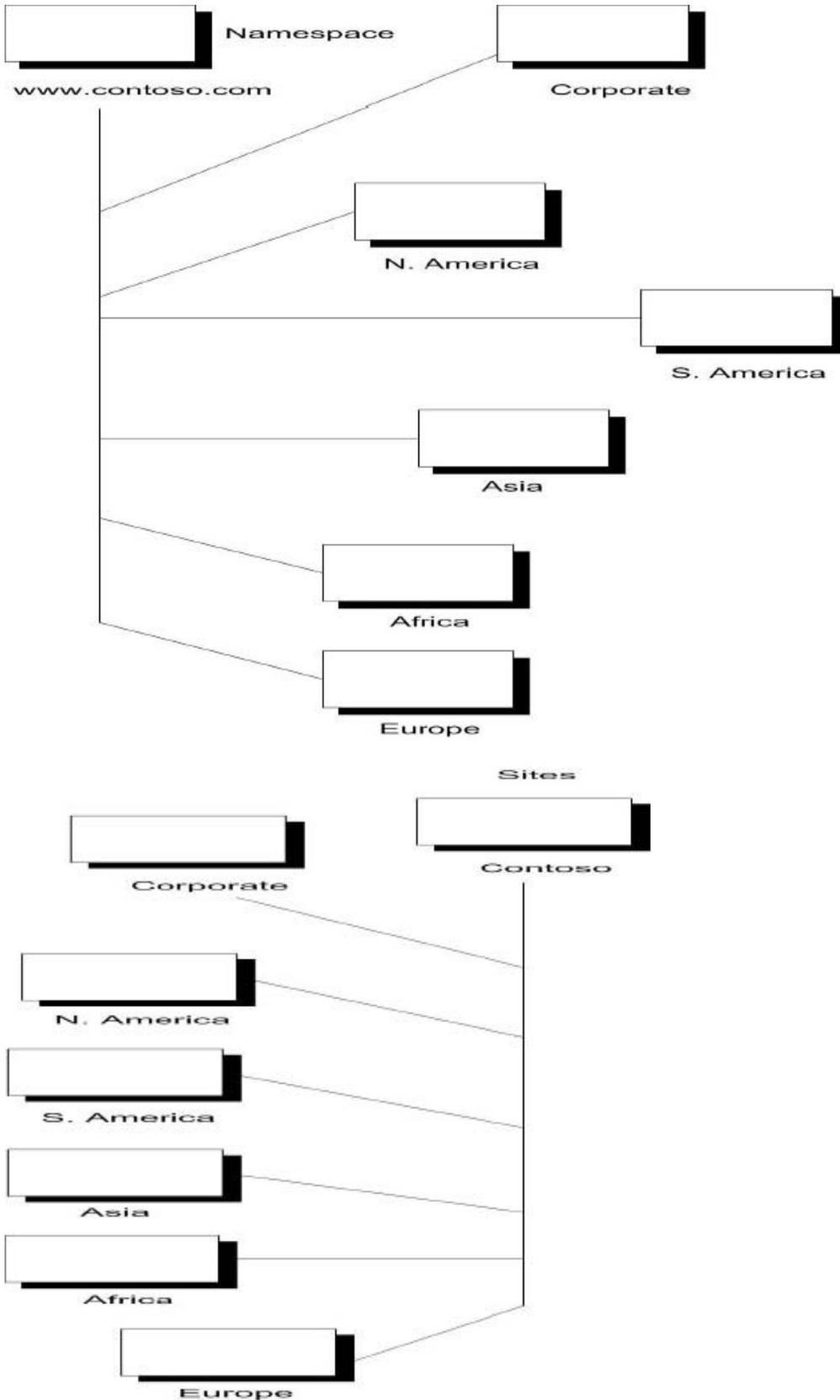
Factors that influence Business Strategies:
Communication and collaboration are very important at Contoso, Ltd., The company believes that it will succeed if it can successfully communicate its message to employees, to customers and to shareholders.
Contoso, Ltd., will continue to operate as an independent company. However, employees of Contoso, Ltd., will continue to communicate much more frequently with Enchantment Lakes Corporation in the future.

Existing IT Environment:

Directory Design:
The Contoso, Ltd., Active Directory design is shown in the Exhibit.

Namespace

www.contoso.com

Corporate

N. America

S. America

Asia

Africa

Europe

Sites

Contoso

Corporate

N. America

S. America

Asia

Africa

Europe

Contoso, Ltd., keeps the Active Directory employee data, such as office location, department and phone number, up-to-date by exporting information from the Human

Resources (HR) employs database to the Exchange Server 5.5 directory.
The connection from the HR database to the Exchange Server 5.5 is written in Directory API (DAPI), and work is currently being done to migrate the connection to Active Directory Services.
Contoso, Ltd., keeps the Active Directory employee data, such as office location, department and phone number up-to-date by exporting information from the Human Resources (HR) employee database to the Exchange Server 5.5 directory.
The connection from the Human Resources (HR) database to Exchange Server 5.5is written in Directory API (DAPI), and work is currently being done to migrate the connection to Active Directory Services Interface (ADSI).
The migration will not be completed until the Exchange 2000 Server deployment is complete.

Messaging Environment:
Bismarck headquarters has two mailbox servers. BismarckMail1 and BismarckMail2.
Headquarters also has bridgehead mail Server named BismarckHUB1.
Every Contoso, Ltd., location has at least one Exchange Server 5.5 computer.
Exchange Server 5.5 is configured as one Exchange organization and 12 Exchange sites.
Sites that have stable bandwidth are connected to Bismarck headquarters by means of site connectors.
Sites that have unreliable connections to headquarters use X400 connectors.
When Exchange Server 5.5 was installed, sites were configured according to number of users and the types use Microsoft Outlook 2000.
SMTP mail is used at all Contoso, Ltd., offices to communicate to Enchantment Lakes Corporation. However, full SMTP e-mail addresses are currently typed manually.
All of the Exchange Server computers in Contoso, Ltd., locations are members are member servers. The Contoso, Ltd., WAN is currently configured in a hub-and-spoke topology.
Public folder usage at Contoso, Ltd., is minimal. The public information store is 200 MB.
Public folders are not currently backed up.
The Calcutta, Milan and Tripoli offices of the newly acquired agriculture-research company do not have e-mail servers.
1. Users in Calcutta offices use the mail Server in the Hong Kong office and store the e-mail messages on the Server.
2. Users in the Milan office use the mail Server in the Bonn office and download the e-mail messages from that Server.
3. Users in the Tripoli office use the mail Server in Cairo office and store these e-mail messages on that Server.

Network Infrastructure:
The Contoso, Ltd., WAN design is shown in the exhibit.
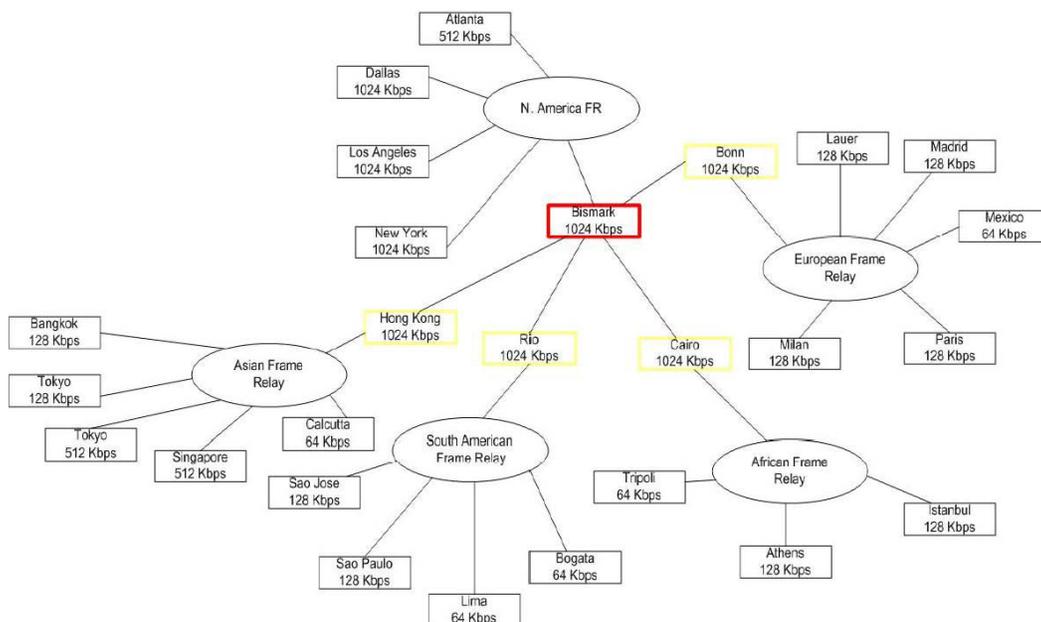
Contoso, Ltd., plans to upgrade the WAN. However, the company will be unable to upgrade for at least two years.

The regional offices run Microsoft Windows 2000 Advanced Server. Offices that have lower than 500 employees run Windows 2000 Standard.

All Internet access is routed through Bismarck headquarters.

There are domain controllers at each regional office. Most of other locations use one Server for all services.

All domains are administered locally, except for the North American domains and servers. The North American domains are administered from Bismarck headquarters.

Exchange 2000 Server Requirements and Goals:

Security Requirements:

Contoso, Ltd., and Enchantment Lakes Corporation plan to use e-mail to communicate more frequently after Exchange 2000 Server is implemented.

The companies want messages between executives to be encrypted in the future; they might want the ability to encrypt all messages that are sent between the two companies.

Archiving Requirements:

Contoso, Ltd., wants to backup the mailboxes and public folders every night and to create weekly and monthly archives.

Contoso, Ltd., does not currently have a recovery solution. Toe expedite the recover of e-mail company wants to install recovery servers at strategic locations.

Availability Requirements:

Contoso, Ltd., wants to cluster the servers in the regional offices and headquarters because there are more people working at those offices and because the company wants to provide high availability for mailbox access.

Contoso, Ltd., wants to implement Outlook Web Access to make the company's mail Server more accessible to employees. The Sales team in particular must have this improved accessibility.

Users must be able to connect to local e-mail servers even when WAN connections are down.

Interoperability Requirements:

Contoso, Ltd., wants SMTP e-mail addresses for Enchantment Lakes Corporation to appear in an address list.
Goals:
Bismarck headquarters has two computers that the company plans to use as dedicated instant Messaging servers. The servers will be named M1 and M2.
The company is considering the implementation of additional front- end servers in the five regional offices: Bismarck, Bonn, Cairo, Hong Kong and Rio de Janeiro.
Users in Milan office must be able to view their own calendars and some public folders. They must be able to access their e-mail when they are offline.
Contoso, Ltd., plans to use public folders as a central repository for all research documents.
The company wants to implement a backup solution for public folders. In addition, the company wants to be able to restore all public folders in the most efficient manner.
The company wants to continue storing confidential research information in same public folders and allowing employees of only the research facilities to have access to this data.
The administrative staff at Bismarck headquarters wants to limit the administrative overhead necessary for maintaining message routing throughout Contoso, Ltd.,
Client Computer Configuration:
Contoso, Ltd., wants to implement instant Messaging between the Bismarck headquarters and Contoso, Ltd., and the New York headquarters of Enchantment Lakes Corporation.
The first implementation of instant Messaging will be an experimental test phase.
The Sales team frequently hosts meetings in Canberra and Athens. The Sales will require the use of Outlook Web Access, when they are not in their home office.
Contoso, Ltd., wants to acquire additional small agricultural-research firms and quickly integrate them into the company. Typically the e-mail communication between the companies will occur by means of SMTP or X400 mail systems.
Topic 1, Contoso Ltd (11 Questions)

QUESTION 1
How should you design an Instant Messaging solution for Contoso, Ltd., to enable communication with Enchantment Lakes Corporation?

A. Create an SRV record for _rvp service on Contoso, Ltd's internal DNS Server.
Place the Instant Messaging Router in the Perimeter Network (DMZ)
Use e-mail addresses for users to access Instant Messaging.
B. Create an SRV record for _rvp service on external DNS Server.
Place the Instant Messaging Router in the Perimeter Network (DMZ)
Use e-mail addresses for users to access Instant Messaging.
C. Create an SRV record for _rvp service on external DNS Server.
Place the Instant Messaging Router in the Perimeter Network (DMZ)
Use the alias@en.contoso.com address for users to access Instant Messaging.
D. Create an SRV record for _rvp service on internal DNS Server.
Place the Instant Messaging Router in the Perimeter Network (DMZ)
Use the alias@en.contoso.com address for users to access Instant Messaging.

Answer: A