

Case Study # 17

You are a Network Consultant with specialized skills in designing Win2000 directory services. You are recently requested by XFab Inc to design the security and the Directory for the entire company.

Background

XFab is a manufacturer of industrial fabrics. It has more than 13,000 employees. It has headquarters located in Boston, Massachusetts, and there are manufacturing facilities in Atlanta, Georgia, Baja, Mexico, and Dublin, Ireland.

BlanketX is a manufacturer of specialty blankets. It has more than 350 employees, and has only one manufacturing facility in Miami, Florida.

XFab has just completed an agreement with BlanketX to begin a joint venture. Both companies want to expand their product lines to include space blankets. These blankets will protect satellites from collisions with meteorites and other space debris. XFab and BlanketX both have a similar organizational structure. Each company has an engineering department, a manufacturing department, and a sales department. The engineering department includes engineers who will create the designs for the space blankets. The manufacturing department includes employees who will manufacture the blankets. The sales department includes sales representatives who will sell the blankets.

Existing IT Environment

In Xfab, all servers, desktop computers, and portable computers run Windows 2000. Each manufacturing facility and headquarters has a server named MANUFACTURING and a server named ENGINEERING. The manufacturing facilities are connected to headquarters with T1 lines. There is one remote access server at headquarters and one remote access server at each manufacturing facility. XFab has a single domain named XFABER. Each manufacturing facility has its own organizational unit (OU). The OUs are named ATLANTA, BAJA, BOSTON, and DUBLIN.

BlanketX has just completed a full upgrade to Windows 2000 on all servers and desktop computers. There is a single domain named BLANKETX and a domain namespace named BlanketX.com. The company has its own unique Active Directory schema. In addition, BlanketX, Inc has a VPN server named FABHQVPN and an e-mail server. All files for the joint venture are stored in a shared folder named FABSPACE.

Envisioned IT Environment

For XFab, there will be one DNS namespace named XFab.com. The existing domain will be in one forest. The engineering department and the manufacturing department will have their own organizational unit at each manufacturing facility and headquarters IT employees located at each manufacturing facility will administer the OU for that manufacturing facility. The OU administrators will have full control of all folders on all servers within their OUs. A trust relationship will be established between BOSTON and BLANKETX that will allow engineers access to each other's domains. Note that the security design for BlanketX, Inc. will not be changed.