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AA HIGH-LINE SECURITY
UL LISTED

INTERNET MONITORING!™

A Technical Overview

Introduction

Since 1984, DMP has been the industry leader in alarm communication technology. DMP has provided networked alarm systems to the banking and retail industries for many years, while other security manufacturers continue to struggle within the confines of outdated analog pulse communication formats. Many years of network communications experience has given us the knowledge to continue leading the way in alarm communication technology. DMP is now leading the way by allowing you to take advantage of still another network, the Internet. Using DMP's proven technology, your company can take full advantage of the Internet to provide an extremely fast and fully supervised alarm communication path between your subscribers' premise and your central monitoring station.

Complete remote command and control, instant alarm notification, and true panel to receiver cut-line supervision that exceeds the requirements for UL grade AA are all standard features of DMP Internet Monitoring. A higher level of security, similar to that found in the older Wells Fargo CMP/SMT systems, can be accomplished without the need for expensive dedicated lines. And because communication across the Internet is not distance sensitive, you can increase the service area of your high security accounts: Citywide, Statewide, Nationwide.

Digital Monitoring Products

DMP network communication today

DMP network systems encapsulate alarm data in UDP packets for transmission across the network. UDP packets are a subset of TCP/IP, the native communications protocol of the Internet, that require minimal bandwidth and transmission time. Internet Monitoring™ by DMP is extremely fast, fully supervised, and provides reliable, high-security communication. UDP is completely compatible with existing Internet connection methods such as Frame Relay, ISDN, DSL, cable, satellite or virtually any other connection method.

The low overhead of UDP encapsulation and DMP's patented "reverse polling" technology allows you to connect the alarm system to the subscribers existing Internet connection with no impact on network performance. Also, the UDP protocol accommodates simple firewall or proxy server configuration.

Premise Internet Connection

In a simple commercial application, there is a LAN (local area network) in each premise that is connected to the Internet through an ISP (Internet Service Provider). A firewall protects the internal network from unauthorized external users. The common components of a premise LAN are shown in Figure 1 below.

Communication technologies such as DSL (Digital Subscriber Line) and cable modems make full-time Internet connections extremely affordable. Full time Internet connections are now common in both commercial and residential premises. A residential premise would look similar to Figure 1 below, only on a slightly smaller scale. Since the LAN is the point of Internet connection in either scenario, the communication link to the ISP is "invisible." This means that any system with a LAN card and a TCP/IP protocol package can communicate with the Internet.

DMP network systems are engineered for this configuration. The iCOM™ system provides an Ethernet LAN connection with a built-in TCP/IP package.

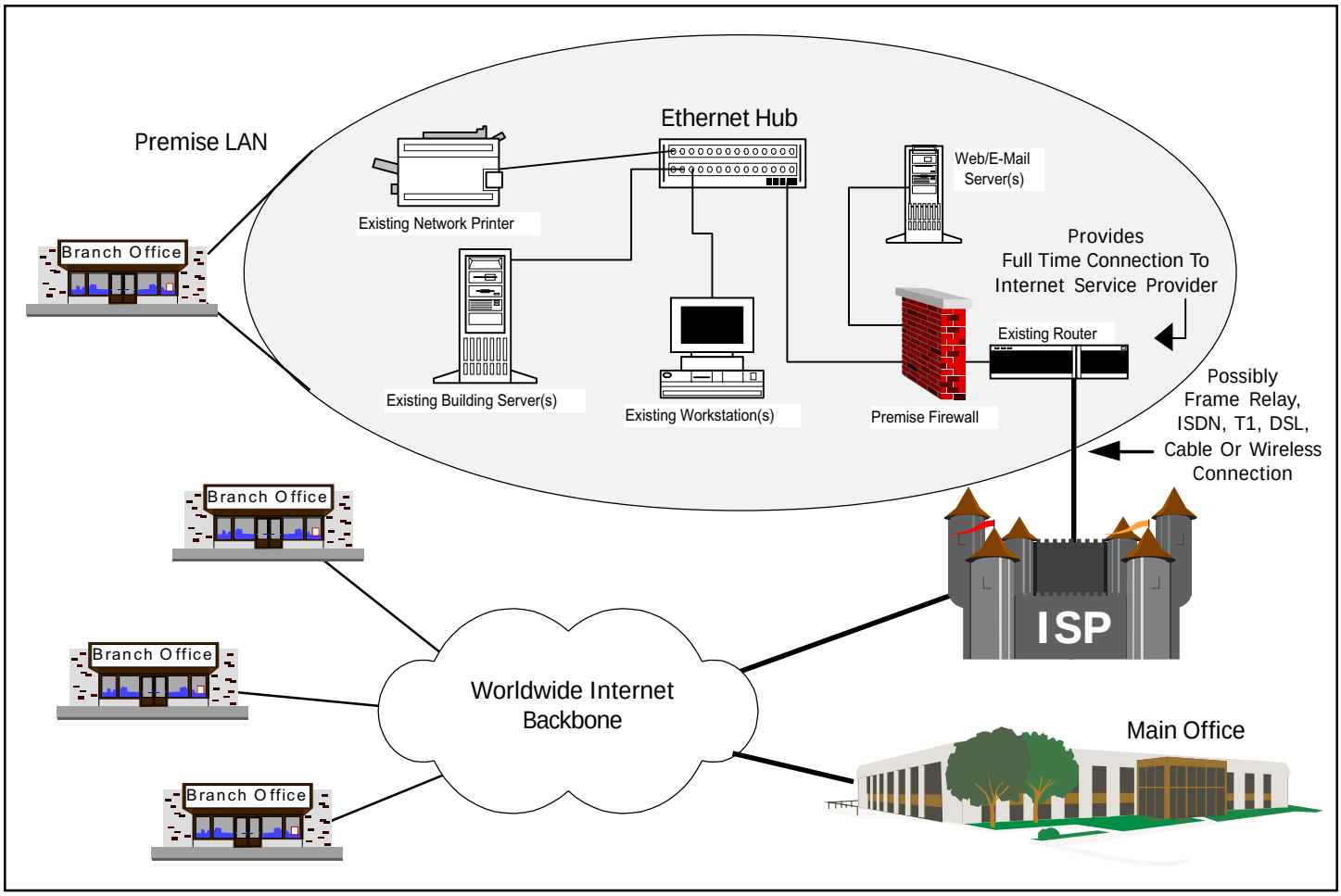

Figure 1: Typical corporate WAN/LAN

Premise security connection

We believe in keeping things simple. Simple connections. Simple configuration. Simple operation. Let's look at how simple it really is to add a DMP network system to an existing Internet connection. Figure 1 on the previous page shows the existing LAN equipment in each location. Figure 2 below shows the same configuration with the addition of a DMP XR200 networked security system.

Configuring the firewall for communication on the appropriate UDP port allows Internet Monitoring communication between the panel and the receiver.

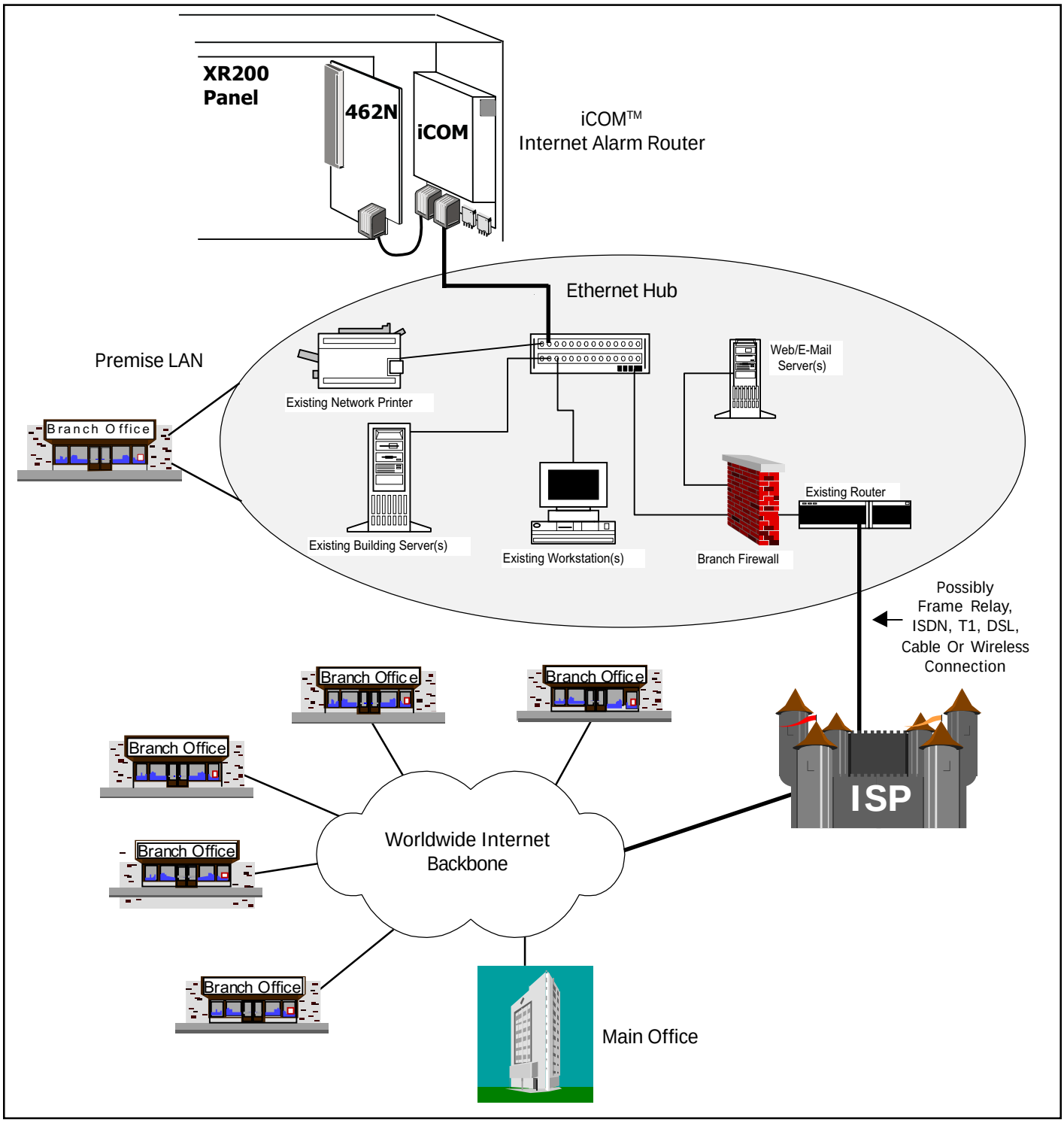

Figure 2: Typical corporate network with XR200 panel

Central Station Connection

To monitor systems through the Internet requires a full-time Internet connection and a DMP SCS-1 Receiver with an SCS-101 card and an iCOM. This process is similar and just as simple as connecting a premise security system to the Internet. Figure 3 below shows a typical Internet connection for a central station. If your central station already has a full-time connection to the Internet for hosting a web site, this connection can also be used to monitor alarm traffic. The small amount of bandwidth required to monitor alarm signals will not significantly affect the performance of your other network traffic.

One line on the DMP SCS-1 receiver can accommodate approximately 2500 networked accounts. The SCS-1 receiver will require an SCS-101 line card and iCOM™ installed in slot one.

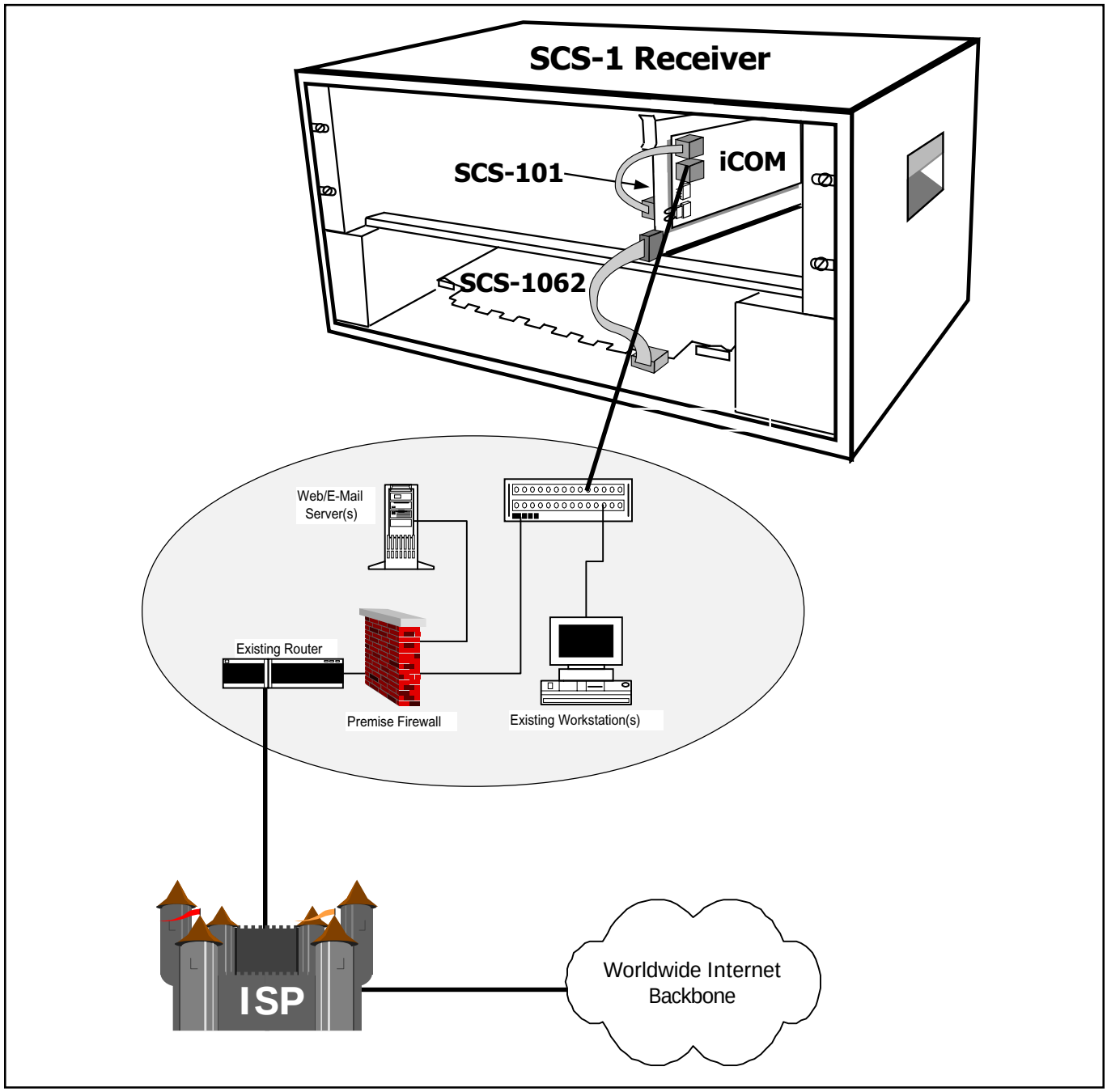

Figure 3: Typical Internet Monitoring configuration for central station