

Using the Line Sharing Switch for Remote Maintenance and Modem Security

The Problem Maintenance organizations would like to add some form of security to remote dial-up modems used for maintenance/ diagnostic access without incurring a large expense. In addition, there is often more than one modem at the remote site, and the organization would like to reduce the number of incoming telephone lines (and the monthly line charges) because these modems are each accessed only minutes per month. Maintenance access for PBXs, Electronic Key Telephone systems, Computers, Routers, T1 Multiplexers, and Energy Management Systems are typical examples.

The Solution The Teltone M-392 (2-port), and the M-394 (4-port) Line Sharing Switches (LSSs) provide both line sharing and a method of hiding remote modems from unauthorized access. The LSSs are often used with the Teltone M-390 Polling Controller to simplify dialing access and to increase security, but may also be used in a standalone mode.

Figure 1 shows LSS used both with and without the Polling Controller.

When the LSS answers a call, it expects a transfer code to tell it which port to ring. If no transfer code is received within 4 seconds after answering the call, the unit will either hang-up or rings a default port to which a telephone may be connected. The transfer code contains from 1 to 4 DTMF digits and can be changed whenever desired. The transfer code and all other options in the LSS are fully remotely programmable. The Polling Controller simplifies the dialing string from the calling modem, ensures that calls are routed correctly without concern for network call processing delays, and can improve security by utilizing an unpublished and proprietary set of transfer codes.

The LSS and Polling Controller are compatible with all dial-up modems and any Hayes compatible communications software applications.

The Line Sharing Switch and Polling Controller Reference Manuals are available for download at www.teltone.com.

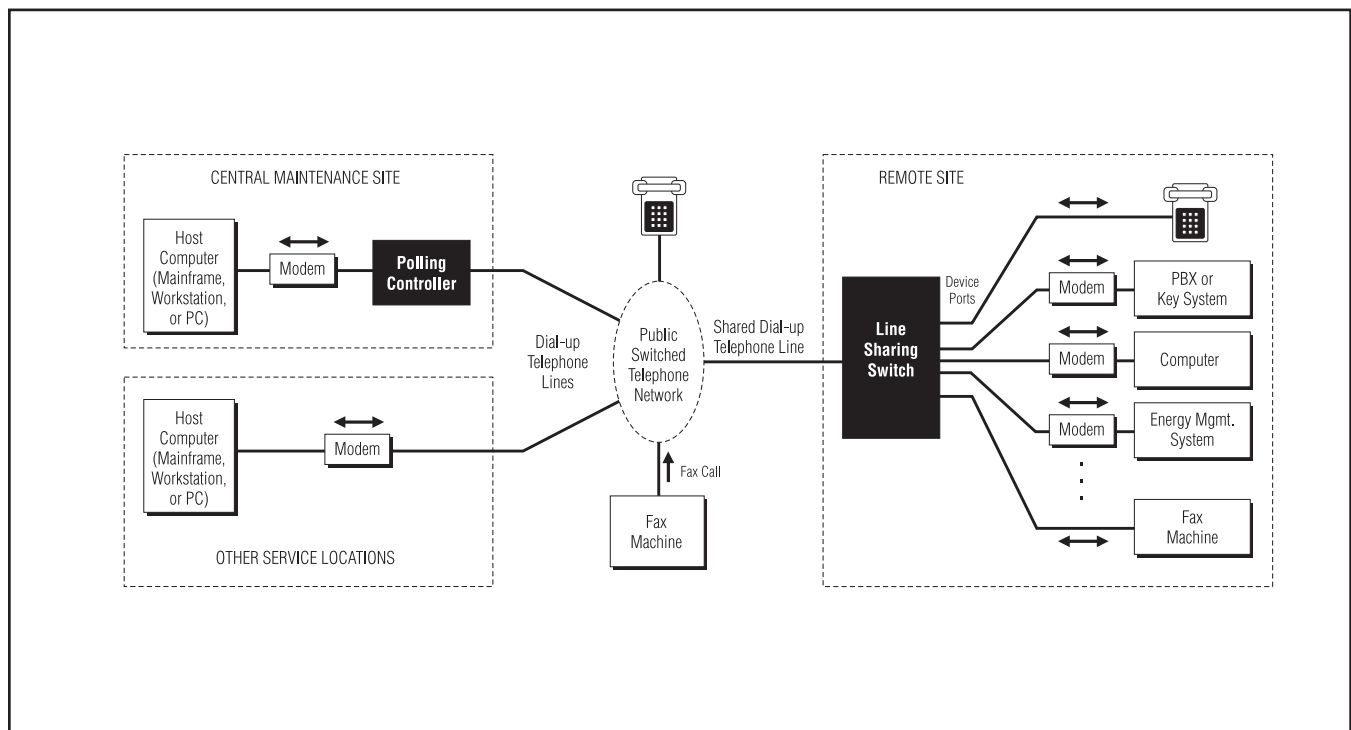


Figure 1