# SIEMENS

SiPass™ Communications Redundancy

- **Redundant Dialup and Ethernet communications channels**
- **Active IP path finding and re-routing if one node is disabled**
- **Automatic dial-in to Server and switchover if Ethernet communications lost**
- **Primary and backup phone numbers with automatic redial by the controller**

Protecting the communications link between the Server and the hardware controllers is critical to ensure the highest standard of access control.

SiPass has a number of integrated options that provide superior communications channel backup and redundancy without requiring major restructuring of a network or the purchase of expensive third party applications.

Fire & Security Products

Features
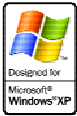
- Built-in communications redundancy uses existing network architecture
- Disabled nodes automatically detected and data rerouted through alternate paths
- Dialup redundancy in case of Ethernet communications loss
- Automatic dial-in to Server from ACC's when network is offline
- ACC redials Server at configurable intervals if line is busy
- Backup phone number and modem provide double the protection

Benefits

SiPass Communications Redundancy is a self-contained system that constantly monitors the state of Server-Controller communications, and automatically initiates the next level of redundancy in case of failure.

The process is transparent to the operator and requires no action except for initial configuration. If the Server detects a communication break in the network architecture between itself and an ACC, data packets will automatically be re-routed through an alternate path.
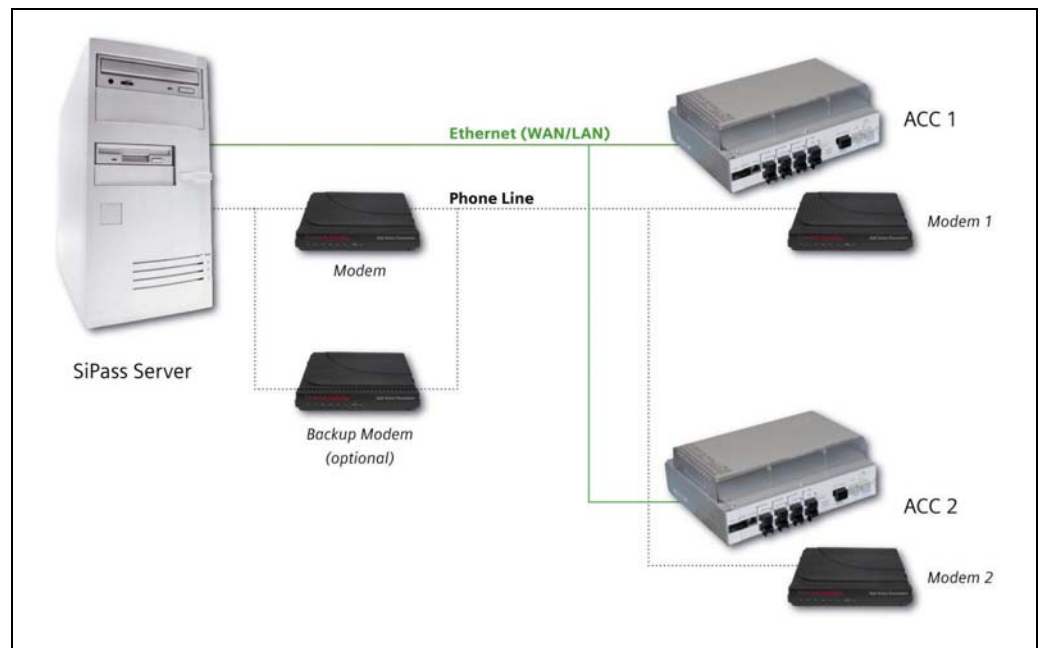
Communications Redundancy Architecture – Dialup and Ethernet

If the Ethernet connection is completely lost, the ACC will automatically dial the Server to re-establish communications. Multiple phone numbers ensure a "busy" signal is not often encountered.

Configuring the system is straightforward and intuitive. The Redundancy logic uses the existing network architecture, without requiring additional programming. The Dialup component is configured using SiPass' Graphical User Interface, designed specifically for Windows XP.

Every redundancy event is logged to the SiPass Audit Trail, including the exact nature and location of communications losses.

SiPass Communications Redundancy

The following lists the technical requirements:

Ethernet-based

There are no specific requirements for Ethernet-based Redundancy. The network devices providing the redundant communications channel(s) between the Server and the ACC network must be TCP/IP compliant.

100Mb Ethernet is the recommended Ethernet communications speed for Redundant Communications, but 10Mb Ethernet is also supported.

Dialup

57600 baud rate minimum Hayes-compatible modem (1 per SiPass Server, and 1 per ACC)
Internet Service Provider and Telecommunications line

List of tested Modems:
- MultiTech V92, MT5634ZBA
- US Robotics V Everything
- Netcomm Roadster V92
- Wireless Requirements Siemens TC35i GSM

It is recommended that the same modem type be installed throughout an installation to ensure compatibility. If you use an other modem it is recommended that you test the compatibility of these modems prior to installation at any facility.

System Requirements

Required for the operation of SiPass Communications Redundancy is one of the following core packages:

Part no.	Description
6FL7820-8AA00	SiPass Starter[1]
6FL7820-8AA10	SiPass Standard Edition[1]
6FL7820-8AA20	SiPass Optima[1]

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[1] Requires SiPass MP2.1