

UltraAgent Server

The UltraAgent™ Server provides the core polling, alarm transmission and management functions required to deliver IP and/or wireless security services using UHS security communicators.

UltraAgent servers typically operate in redundant clusters to support:

- Polling of UltraConnect units
- Alarm receiving and forwarding to security control room automation systems
- Management functions such as remote configuration, software download and performance monitoring
- Managed access to remote sites by end-users through web-sites and mobile phones

Applications

- Path-monitored security applications
- Network management of UltraConnect security and telemetry communicators

Control Room Protocols

UltraAgent Servers support the following automation protocols:

- Ademco685
- Surgard
- SIA Automation Protocol Type II
- ARC Gateway Protocol

Control Room Connections

UltraAgent Servers can be connected to the automation system using:

- Serial (RS-232)
- TCP connection
- Tunnel connection using UltraAgent-Remote

UltraConnect Communication

UltraAgent Servers communicate with UltraConnect security communicators using UHS' 3DES encrypted messaging protocol, which features:

- unique, per-device key management
- session-based key exchange and regular key-rolling

Path Monitoring

The UltraAgent continuously monitors all configured paths of each UltraConnect device by polling at a pre-configured frequency.

If a path fails, an alarm is sent immediately to the control room's automation system using the protocol configured for that UltraConnect device (eg ContactID, SIA, Ademco High-Speed).

Network Management Interface

The UltraAgentUI (UAUI) network management utility is a Windows application used by operators to configure and maintain UltraConnect units. Through the UAUI, operators can:

- Update UltraConnect software
- Pre-configure or modify the configuration of UltraConnect communicators
- Run performance monitoring checks of the UltraConnect communications interfaces
- Search for alarm events
- Control UltraConnect output and bypass relays

Value-Added Services

The UltraAgent server provides the back-end server function for value-adding services such as:

- Remote video monitoring
- End-user alarm notification via SMS and email
- End-user alarm system control, such as remote arm/disarm

Specification Sheet

Architecture

- Linux Slackware or Red Hat Enterprise OS
- Built-in iptables firewall
- Postgresql Database
- Master/slave database replication with automatic failover
- Load sharing polling and alarm handling applications with automatic failover

Management

- Responds to heartbeats from control room automation system
- Monitors status of redundant servers, database health, processor load and available memory
- Sends status alarms direct to control room automation system (using system account 9999) or via SNMP to network management system

Network Interfaces

Range of network interfaces available:

- Ethernet 10/100BaseT IP interface
- OpenVPN
- Serial to Dial-IP
- Serial to GPRS

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Communicator Protocols Supported

Connected UltraConnect communicators can capture alarms in:

- ContactID
- SIA I, II, III
- Ademco High-Speed
- 4+1, 4+2
- Serial ASIAL protocol

Recommended Hardware

- Consult your UHS representative to determine hardware requirements based on size of expected network
- Minimum requires are:
 - Pentium 4 processor
 - 1G DRAM
 - 80GB HDD

Further Enquiries

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