

System Architecture

REACT Architecture Components

The multi-tiered client/server architecture consists of the REACT Server, and REACT Desktop, REACT Dedicated Player, the REACT Console, and REACT Single Button Alerts (SBA). This highly flexible and scalable system can operate at a single site or as part of a vast network containing practically unlimited locations. REACT can utilize wired or wireless configurations or combinations of both.

The REACT Server

The REACT Server is the controller and manager of the system. Run as a Windows 2003 Server application or service, the REACT Server provides several possible integration points to allow for the automated delivery of Alert information from other software/hardware systems to REACT Dedicated Players and/or REACT Desktop Players. To ensure strong security protocols, the REACT Server and the REACT Player use AES encryption to secure network communication. The REACT Server routinely checks and monitors the media content to ensure it is correct. The REACT Server automatically controls the distribution of the rich media content to the REACT Players, eliminating the need for the user to spend time distributing media to the REACT Players.

The REACT Console

The REACT Console is the software interface between the user and the system. It can run either locally or from a remote location. The REACT Console can run on a workstation, a desktop PC, or a laptop and will support Windows 2000 and XP, and 2003. It provides the user with a full range of functionality to harness the power of REACT. It is through the REACT Console that the user signals the system to update the media content, launch alerts to one or more REACT Players, obtain REACT Player status and feedback and build scripts and media loops for distribution.

REACT Desktop Player

REACT Desktop Player component is an easy way to alert people to emergency situations or inform them of useful information on their existing desktop or notebook PCs as well. The REACT Desktop Player alerts can contain multiple slides with diagrams, photos, videos, static and dynamic text. It is compatible with Microsoft Windows and is configurable for many different situations.

The REACT Desktop Player may run silently in the background and will pop up when triggered by the server with emergency or priority information. Designed to run with a minimum of system resources, the REACT Desktop Player makes information dispersal easy and quick. Sound may also be incorporated to help catch the attention of the employees should they not be looking at the screens at the time of the emergency.

The REACT Dedicated Player

The REACT Dedicated Player is a network device capable of running Windows 2000, or XP and is located with each dedicated display. The REACT Dedicated Player is display resolution independent, and can utilize almost any type of display screen. The REACT Player network device is mounted with the display screens, which provides the REACT Administrator with the ability to update, maintain, monitor and diagnose the device remotely. REACT Dedicated Players display the same media rich information available to REACT Desktop Players.

REACT Single Button Alerts (SBA)

REACT Single Button Alerts (SBA) are desktop icons configured to launch general or location-specific alerts to predefined recipients. These provide an easy to install, and easy to customize panic button solution on any desktop in your organization. System Administrators can configure REACT SBA icons on any system running a REACT Desktop Player.

REACT Mobile and Phone Support

REACT Enterprise provides support for delivery of critical information to telephone and cellular devices. Messages may be delivered via telephone calls, to wired or cellular phones, where the text of the message is read to the user. Messages may also be delivered through SMS (text message) to cell phones. For communication over telephone networks, calls are retried if unsuccessful. User confirmation of receipt is supported on both SMS and telephone delivery, providing visibility to when a user actually reads a critical message. REACT supports SMS messages up to 160 characters and over 97% of the cellular carriers in the US. SMS messages may also be sent internationally.

System Architecture

REACT® Console(s)

- Graphical interface for ease of use
- Real-time graphical status feedback
- Quick and easy distribution of alerts and media
- View and update multiple alerts by content, and priority.

REACT® Server

- Intelligent distribution of media to REACT Players
- Secure AES encrypted communication and data
- Alert/Information delivery to wireless devices
- Continuous monitoring of system

REACT® Desktop Player(s)

- Pop-up window displays alerts on PCs
- Multi-mode messaging: images, sound, video, and text
- View multiple alerts by priority
- Unicode support to provide information in hundreds of languages

REACT® Single Button Alerts (SBA)

- Easy to install, and easy to customize panic button solution on any desktop

