GCK3.0

Next-Generation Platform for Enterprise-Wide Communications

Smart Automation • Site-Wide Paging • Audio • Video • Emergency Evacuation • Digital Signage • System Control



Features

- Smart Automation for Scheduled or Triggered Pre-Recorded Announcements
- Efficient Building and Site-Wide Paging
- Best and Most Proven Mass Notification & Emergency Evacuation
- Controls and Monitors a Facilities Paging, Audio, Video, and Digital Signage Endpoints
- Manages Thousands of Analog and IP Endpoints over LAN or WAN
- Provides Supervision and Logging for all Associated End-Point Devices
- NeverMISS[™] Smart Announcement Technology
- Multiple User Programmable Access Levels
- Collaborate with 3rd Party Systems such as Access Control Systems or Fire Alarm

Atlas IED. M 1601 JACK MCKAY BLVD. ENNIS, TEXAS 75119 U.S.A.

Common Alerting Protocol (CAP) Compliant

General Description

GCK3.0 is an enterprise-class control application used to manage GLOBALCOM[®] and GLOBALCOM.IP[®] communication systems. It is hosted on an Announcement Controller (ACS[™]) hardware and incorporates a browser-based architecture for multiple device support. GCK3.0 is designed to provide easy management of an entire enterprise announcement and broadcast system. It unifies messaging by converting real-time different media types into one user interface for facilities like airports and transportation hubs as well as factories, warehouses, corporate offices, schools, and many other types of installations where functions including paging, emergency notification, visual wayfinding, and background music are required.

GCK3.0 is powerful enough for any installation size, and provides critical notifications and uncompressed high-performance audio leveraging your single enterprise class network architecture. GCK3.0 dynamically chooses which devices are being used and provides the highest definition audio based upon their capabilities. IP endpoint auto discovery and deployment expandability without service interruptions.

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Key Features

Browser-Based Architecture for Multiple Device Support

GCK3.0 is a browser-based application with all functions and features being accessed from any computer on the same network as long as it has a compatible browser application installed. The browser must support installation of Microsoft's® Silverlight® run-time plug-in in order to display and function properly. The IP address of the hardware hosting the application can be entered into the address bar of any web browser, preferably Internet Explorer®, and accessed remotely.

Multi-Endpoint Device Integration

GCK3.0 manages the flow of announcements and messages between the network and an unlimited number of endpoints (subject to the limitations of the audio protocol used) including digital communication stations, zone controllers, network power amplifiers, IP-based loudspeakers, visual displays and other types of IP endpoints. Additionally, it serves as a gateway for external I/O devices, VoIP telephone systems, and analog audio to be incorporated into the ecosystem.

Voice over IP (VoIP) Integration

GCK3.0 communication with VoIP telephone systems for live, delayed broadcast, or talkback via SIP and PBX Trunking as well as support for standard 3rd party FXO gateway devices. Additionally, industry standard G.711, G.722 and RTP protocols are also supported. GCK3.0 includes two-way full duplex talkback communication.

Audio over Ethernet Integration via Dante[™] or CobraNet[®] Digital Audio

GCK3.0 supports Audio over Ethernet (AoE) functionality such as Audinate® Dante[™] and CobraNet® digital audio. It can receive and transmit digital audio channels over a network and interoperable with third-party AoE hardware devices.

Automated Announcements & Push Notifications

GCK3.0 application running on an AtlasIED ACS[™] Controller can store and manage up to 250 hours of pre-recorded audio message files, in any language. The announcements can automatically be activated by time scheduling or multiple triggers and broadcasted to any destination. It also supports triggers and/or receive notifications from 3rd party systems using General Purpose Interfaces such as contact closures or relays.

Built-In Time Scheduler



GCK3.0 includes a built-in comprehensive message scheduling system that allows the creation of schedule profiles that can be applied to specific days of the week or date ranges. Multiple profiles can be applied simultaneously, perfect for campus type installations.

NeverMISS[™] Smart Announcements



NeverMISS[™] is an exclusive GCK3.0 software innovation that ensures all live paging announcements always reach their intended destination. If the destination endpoint is busy, it will intelligently store the live message and release it immediately when the devices are available. It offers up to 65,565 message priority levels with NeverMISS[™] capability. If

enabled, NeverMISS[™] records live messages and plays back to busy page zones when they become available.

Text-To-Speech Integration

Text-To-Speech announcements may be generated in place of prerecorded messages utilizing either the default text-to-speech module or optional advanced multi-lingual text-to-speech plugin.

Critical Alert Management

GCK3.0 allows for real-time instructions from first responders. Any type of alert can be initiated by pressing a button or dialing an extension on any phone for both direct dial access and well as voice prompted actions to push that alert to any configuration of IP device or zone groups.

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GCK3.0 allows an authorized on-site or off-site emergency responder to take control of the system and broadcast live announcements dynamically to any IP device or zone group(s). Emergency responders can securely activate alerts and control the system from within or outside the premises via software, telephone, microphone stations, or direct interfacing with fire alarm systems.

Advanced System Supervision

GCK3.0 supervises all associated end-point devices, reports system abnormalities, and logs faults to be reported via SMNP, email, and SMS via email notifications. GCK3.0 provides complete functional supervision from microphone element to loudspeaker output.

GCK3.0's supervision provides system monitoring and fault detection. If a failure occurs, GCK3.0 automatically switches failed devices to backup devices. In a cluster configuration (Distributed Appliance Architecture) where multiple GCK3.0 applications are used, responsibilities of the failed application will automatically revert to another GCK3.0 application.

3rd Party Interoperability

GCK3.0 architecture allows for the exchange of notifications, actions, or triggering between multiple alerting technologies and sources, warning systems, and facility automation systems. This simplifies the task of activating several systems that play a key role in an event that normally may have to be activated independently by an authorized or responsible official. Collaboration increases warning effectiveness so the response to the actual occurrence of disasters, emergencies, and crisis is specific based on the information received.

Visual Paging Integration

GCK3.0 pushes visual messages to endpoints that can support text to meet Title II ADA requirements. Under Title II of the ADA, all state and local governments are required to take steps and ensure effective communication to people with disabilities.

Supported Plugins:

Smart Alerts for Emergencies (S.A.F.E.)

Events can be created with a setting that requires room occupants to acknowledge receipt of that event. Examples include "Lockdown" or "Weather Alert" events. Events can be acknowledged in a variety of ways including pressing a dedicated push button or by clicking on an "Acknowledgement" pop-up on a computer screen. Both server and client plugins are available.

VisDID® (Visual Display Interface Device)

A software add-on package to easily add visual paging. VisDID® allows



for interruption of ongoing content to display paging announcement text in sync with public address system audio. This synchronization is compliant with US Americans with Disabilities Act.

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DIRECTOR® Custom System Management Application

A system management application that provides a comprehensive application-specific interface to GCK3.0. DIRECTOR® simplifies system operation through an intuitive and fully customized graphical user interface (GUI). DIRECTOR® is the ideal addition to your GLOBALCOM® system for system management and directional wayfinding in complex facilities such as mass transportation systems, corporate complexes, industrial facilities, education campuses, and retail centers.

GDS-4W[™] Enterprise-Grade Digital Signage

A powerful digital signage hardware and software addition to a GLOBALCOM® system that adds enterprise-grade digital signage to a GLOBALCOM.IP® system. It leverages HTML5 technology allowing easy administration using any web browser to design and broadcast generated content. With GDS-4W[™], facilities can visually engage students, customers, employees, and visitors across displays, desktops, webpages, and mobile devices throughout a building. Digital signage reinforces brand messaging, delivers timely information, fosters collaboration, and keeps people engaged.

Screenshot of Calendar Features

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Screenshot of Device Overview

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Supported Devices:

- AtlasIED VoIP Loudspeakers
- AtlasIED Digital Communication and Paging Stations
- AtlasIED Network Power Amplifiers
- AtlasIED Message Servers
- AtlasIED GDS-4W[™] Compliant Digital Signage Media Players
- AtlasIED IP-to-Analog Audio Controllers (Gateways)
- AtlasIED Analog Amplifiers and Loudspeakers
- Visual Alert Displays
- Third Party VoIP & SIP Devices
- CobraNet[®] Enabled AoE Devices
- Audinate[®] Dante[™] Enabled AoE Devices

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Screenshot of Zone Groups

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Screenshot of Announcements and Output Overview

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Architect and Engineer Specifications

The Next Generation Software Suite for Enterprise-Wide Unified Communication shall provide a means to control hardware responsible for Site-Wide Paging, System Control of Audio and Video Messaging and Emergency Notification. The software will effectively unify and act as the primary control, of a network based solution that combines Public Address and Visual Messaging Systems to provide Central Control of, Live or Pre-Recorded Message Delivery, Intelligent Announcement and Bell Scheduling, Background Music, Visual Notification, Speech Privacy Systems, VoIP Telephone integration and notification to mobile devices and other information systems. The software suite shall be capable of supervision and monitoring of all system functions and to report hardware failures and status to a central console to act as a system watchdog

The software suite shall feature a browser based architecture to provide an interface configurable via any computer on the local network capable of running Microsoft Silverlight® Run-time plugin, and accessing the integrated web page, via Microsoft Internet Explorer™ or compatible web browser for remote control and configuration.

The Integrated Communications Suite shall manage the routing and control of multiple end points to include Digital Communications Stations, Visual Message Controllers and Displays, Networked Power Amplifiers, VoIP Loudspeakers and Zone Controllers, Network I/O interfaces and External Notification Systems.

VoIP (Voice over Internet Protocol) Telephone Systems are supported via SIP and PBX Trunking and shall allow the integration of Industry Standard 3rd party FXO gateway devices, external I/O devices and multiple digital codecs to include G.711, G.722. and RTP. Dante™ and CobraNet Audio® are supported for Digital Audio.

The Software Application shall support Multiple Users and User Groups with the ability to limit system control and management via username and password management. The software shall provide for on and offsite control of systems and provide a vehicle for 3rd party integration with other systems and applications via Contact Closure, SCADA, Logic Interface, XML, CAP and other network protocols.

Warranty shall be for 3 years available for extension under the Terms of an IED Platinum or Modified Platinum Assurance Plan. Software Maintenance and License is for 1 year and can be extended for the term of use.

The Next Generation Software Suite for Enterprise-Wide Unified Communication shall be GLOBALCOM IP GCK3.0.

