

C4000

RELEASE 1.0

SYSTEM FEATURES

Audio Distribution & Announcement FEATURES

- Unlimited Announcement Files
- Upload and Manage WAV & MP3 Announcement Files
- Audio Program Control via DTMF (i.e., can be turned On or Off from phone)
- Toggle Music Sources On/Off
- GUI-based Program/Audio Distribution
- Playlists (with easy title drag-n-drop capability)
- Music Library Management
- Import WAV & MP3 files with Meta Data (e.g., Title, Artist, Album, Track, Length, Genre, Year)
- Automatic Playlist Creation from USB Stick (Places all music files into a single playlist)
- Audio Distribution by Zone
- Record Announcements from a Phone or Web UI
- Separate zone volume controls for paging and audio distribution
- Audio Distribution to multiple zones simultaneously
- Unlimited Audio Zones (Note: Systems are licensed by number of zones)
- Integrated streaming Internet radio (airable)
- Integrated commercially licensed streaming music service available (SoundMachine)
- Scheduled Audio from any source (airable Radio, SoundMachine, Playlists, and Line-Input)
- Recurring Scheduled Announcements
- Targeted Announcements to any specified zone(s)
- Pink noise and white noise tones to assist with setting-up paging zone volume levels

Administration FEATURES

- Unlimited Multi-Site Station Capacity
- Multi-Site All Call Paging
- Emergency All Call Paging
- All Call Paging
- Multi-Site Emergency All Call
- Zone Paging (systems are licensed by number of zones)
- Record page for immediate playback on hang-up
- Ability to page multiple zones simultaneously
- Location Monitoring (Modes: Spy, Whisper, Barge)
- Web-based GUI Dashboard (Audio, Alarms, Announcements, Intercom Calling, Paging, Tones)
- Web-based GUI Directory Menus for Announcements, Alarms, Paging Zones, Stations, Tones
- Web User Interface: SIP Client (softphone) - allows calls, paging, etc., from Web UI
- Direct Select Intercom Calling (optional)
- Web-based Incoming Call Queue
- Multiple Simultaneous Program/Audio Distribution
- System Device Status: Displayed on Web UIs
- Executive override to access intercom paths
- Admin can override others and interrupt page
- Admin Groups: "Emergency" admin group
- Page Exclusion (Ability to turn off paging into an area as needed, e.g., for mtg's, etc.)

Paging & Intercom*

FEATURES

- Unlimited System Capacity (limited only by system licensing)
- Always an Answer (Calls can be put into Admin Groups so calls will always be answered.)
- Intercom Call-in (From call switch)
- Unlimited Simultaneous Intercom Calls (i.e. talk paths: limited only by system licensing)
- Priority Paging Microphone (ability to have external Mic for emergency page)
- Unlimited # of Class Of Service (COS) Profiles
- Emergency Call-in (Emergency calls from stations ring-in with special ring & alert)
- Call Assurance Audio File plays in room to confirm call (Analogous to Call Assurance LED)
- 3 Call Priorities for Call Switch (Normal, Urgent, Emergency)
- Closed Contact Inputs for Response to Events (Low-voltage contact closures that are used to call in)
- Relay Driver Output Controls (Used to control events, e.g., open door, turn on lights, etc.)
- Emergency Call from Normal Call Switch (If call is in progress, it can be up graded to emergency)
- Transfer Call from Room Speaker to Room Phone (Call to ceiling speaker can be dropped to the phone for privacy)
- Prepend Audio to Paging
- Change/Modify Preannounce Tones for intercom and paging
- Create Text-To-Speech Based Announcements (Optional)
- Networked Amplifier Support (Ability to easily add power amps for large installations)
- Analog Speaker Support (25V/70V)
- Analog Call Switch Support
- Page Stacking / Queuing
- Ambient Noise Sensing

* Intercom calling and associated features is optionally licensed

IP Phone Support

FEATURES

- VoIP Phone (NQ-T1000)
- All Call, Emergency All Call, and Zone Paging via Directory menu

Event Schedules & Management

FEATURES

- Powerful, Intuitive Web-based Scheduling Interface
- Unlimited Event Schedules (Restricted Edit & View by User Role)
- Unlimited Time Zones
- Unlimited # of Holiday Schedules (Ability to change Event Schedules so that tones and bells don't disturb surrounding areas when business/facility is not open)
- Ability to Import/Export Holiday Schedules
- Master Clock Capability
- Ability to Sync to External Master Clock with Contact Closure (can sync to or from an external source)
- NTP Server Support (Ability to act as or sync to an external NTP Server)
- Daylight Savings Time Auto-Adjust (Switchable On/Off)
- Unlimited Scheduled Events
- Daily and Monthly Calendar Views
- Event Tones: Generate/Create Tones, Upload Custom Tones, Manage Tones all from the Web UI

IP Speaker Support

FEATURES

- VoIP Wall Baffle Speaker w/Talkback (NQ-S1810WT)
- VoIP Ceiling Speaker w/Talkback (NQ-S1810CT)
- PoE Plenum-Rated VoIP Intercom Module (NQ-GA10P) (Turns any speaker into a VoIP talkback speaker)
- Digital Call Switch (NQ-E7020)
- CAN Bus Device Support

Networked Audio Power Amplifier Support

FEATURES

- 2-Ch./4-Ch. x 60W, x 120W, and x 300W models available
- Integrated Pro-Audio Digital Signal Processing
- Local Line Input(s)

Configuration & Maintenance FEATURES

- System Controller with per-installed OS & C4000 application software
- Wizard-Based System Setup & Configuration (when using the NQ-SYSCTRL Nyquist System Controller)
- Web GUI Programming and Diagnostics (Ability to program and test from anywhere)
- Log File Viewing and Export (Server and System)
- Web GUI Station Status (Real-time status of VoIP devices)
- System Backup/Restore
- Automated/Scheduled System Backup
- GUI-based System Status (Current operations displayed on Dashboard)
- Syslog Protocol Support
- Monitoring of Server Status via SNMP
- Unlimited Definitions of Users, Roles, and Permissions
- Software Adjustable Paging Zone Volume
- Software Adjustable Nyquist Amplifier Master Volume
- Software Adjustable Nyquist VoIP Speaker Volume
- Bogen VoIP Phone Provisioning
- Device & Station Supervision (with Dashboard Notifications and Email Alerts)
- Automatic update of Appliance Firmware (to match server S/W version)

Security & Safety FEATURES

- Play Pre-Recorded Message with Contact Closure (via NQ-E7010 I/O Controller program logic)
- Speed-Dial Access to Common System Features (Used to make system easy to use for Administrators)
- Take & Make Contact Closures (via NQ-E7010 I/O Controller program logic)
- Contact Closure Puts System Into Page Exclusion (via NQ-E7010 I/O Controller program logic)
- Contact Closure Triggers an External Event (via output relay control on the NQ-E7010 I/O Controller)
- Contact Closure Triggers an Internal Event (via NQ-E7010 I/O Controller program logic)
- Call Recording and Playback (911, Emergency, Normal)
- Emergency Page with Pre-Programmed Messages (WAV, MP3) (ex. "There is a Fire Emergency, please exit building, this is not a drill.")
- Interactive Map-Based Paging (optional feature) (hierarchical drill-down views of multiple maps - including across multiple facilities)
- Text-to-Speech Based Announcements (optional feature) (Copy & paste-in complex emergency notifications & instructions)
- Event Schedule API to Integrate with Security/Access Control Systems

I/O Related Equipment FEATURES

- Networked Matrix Mixer Pre-Amp with Pro-Audio DSP (NQ-P0100) (External MIC, AUX, & Digital Audio Support)
- Networked I/O Controller (NQ-E7010) (8 Inputs/8 Outputs per I/O Controller)



General Telephony*

FEATURES

- VoIP Phone or Intercom Capability for All Stations (requires intercom license)
- Compatible with Enhanced 911 (FCC standard that tells 911 operator where a call is coming from; e.g., building or room location)
- Voice-Prompted Features (via embedded IVR functionality) (Users are instructed as to what the next step should be)
- Intercom Access from IP Phone System (SIP ATA or SIP Tie-Line interface to IP-PBX)
- Voice-Prompted Call Forwarding Status (via embedded IVR functionality)
- Call Monitoring (Modes: Spy, Whisper, Barge, non-DISA)
- Call Parking
- Caller ID - Internal Calls
- Caller ID - External Calls
- Call Detail Recording: Display, Manage, and Export (No limit to record count)
- Call Conferencing
- Call or Page via Mobile Device: SIP Client Application
- Call or Page via Mobile Device: Web UI
- IP Phone Support (Bogen NQ-T1000 Staff Phone)
- SIP Trunking to PSTN/Cloud or IP-PBX
- E911: 911 Call Routing to facilitate E911 Device ID mapping
- 911 Call Alerts: Notifications sent to Web UI and Admin Phones with option to monitor call
- 911 Dial Through (Provisioned via COS allows any authorized station to direct dial 911)
- Walking COS (Dial access & PIN code that allow any Administrator to pick up a non-Admin phone and have same features as their Admin phone)
- Trunk Queuing (Searches for first available outside line/trunk)
- Unlimited # of Bogen VoIP Phones
- Analog CO Trunk Support (Analog phone lines from phone company)
- Automatic Time-of-Day Call Routing
- Unlimited # of Telephonic Talk Paths (# of simultaneous conversations)
- # of Architectural Room Numbers Displayed (# of digits used in the dial plan)
- Off-Site Call Transfer (Transfer calls to phone numbers outside of the system)
- Night Ring
- Routing to an External Number (Provisioned via COS)
- Route selected call priorities (e.g., Emergency) to an external number (Provisioned via COS)
- Remote Call Pickup (Ability to answer a phone from anywhere in the building/facility)
- Voice Mail (Assignable to any station via COS)
- Analog Intercom Access from a PBX (via FXO or FXS ports)
- Voicemail Message Waiting Indication Light (on Bogen VoIP phone)
- Call Forwarding (Automatically sends calls to another station on the system)
- Unlimited COS Profiles
- DID Call Routing (Direct inward line routes to office phone)
- DISA Call Routing (Allows direct inward station access from outside the system)
- Security DISA Call Routing (Allows direct inward station access from outside the system using a passcode)
- Direct Dial to Any Station
- Ability to Place Normal or Emergency Calls
- Dial Out to CO/PABX/EKTS (Outgoing CO lines)
- Receive Outside Calls (CO/PABX/EKTS)
- Analog Telephone (aka 2500 Set) Support (via 3rd-party 24-port FXS VoIP Gateway integration)
- Analog PBX Integration (via 3rd-party 2-port ATA (FXS) device)

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NYQUIST[™]

The C4000 Series is built upon Bogen's award winning Nyquist software-based IP communications platform, which provides users with unparalleled flexibility and scalability in whatever their application.

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