

The **Bogen C4000 Series** is a software-based solution for commercial paging and audio distribution applications that can be scaled to support a virtually unlimited number of audio sources, endpoints, and zones. System features, software platform, and configuration can be easily upgraded over time to address ever-changing customer needs, environments, and technology. Bogen's Nyquist team is continually innovating new features, appliances, and security enhancements to the C4000 solution. As such, a three (3) year subscription to all applicable product software updates is included with the purchase of a Nyquist C4000 system ("C4000"), with subsequent three year Software Update Subscription (SUS) extensions available.

For more information visit:

<https://www.bogen.com/c4000-software-update-subscriptions>

Nyquist C4000 Innovation Timelines



The C4000 Software Release versions skipped from 7.0 to 11.0 to align release numbers with Nyquist E7000 moving forward.

11.0 FEATURE HIGHLIGHTS

- **Expanded Device & Video Call Support** - Now supports the Double-sided Hallway Combo Display (NQ-DSC01), Remote Volume Control (NQ-VCTRL), VoIP Horn (NQ-IPHRN01), and the Zone Paging Mic Station (NQ-ZPMS-G2), including video calling between NQ-ZPMS-G2 phones.
- **Enhanced System Health Monitoring** - SMART monitoring for SSD drives on NQ-SYSCtrl improves hardware oversight with alerts sent to syslog and system status tools.
- **Broader SIP Platform Compatibility** - Seamlessly connect with RingCentral, Twilio, and Zoom through expanded SIP call support.
- **Routines API Enabled by Default** - The Routines API license is now automatically activated for faster setup and immediate access.
- **Routines API v2 CAP Messaging Support** - Now supports incoming CAP messages for more advanced and responsive automation workflows.
- **Improved Installation & Commissioning Experience** - Built-in Nyquist Training Video links within the interface make setup and configuration easier than ever.
- **Advanced Call Security Enhancements** - Secure SIP (TLS 1.2) and SRTP for PBX SIP trunks provide stronger encryption and safer communications.

7.0 FEATURE HIGHLIGHTS

- **Debian 12** - In our ongoing effort to keep Nyquist as secure as possible we will be upgrading the Nyquist OS to Debian 12 with the 7.0 software. This allows our security-conscious customers to keep the System Controller OS up to date with security patches.
- **Secure SIP TLS and SRTP** - Securing the audio between all Nyquist Appliances and most third-party hardware.
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- **NWS Alerts** - This new interface provides a simplified mechanism for creating, configuring, and manipulating Routines to handle NWS alerts. This also provides more accurate location information with the introduction of latitude and longitude configuration.
- **API v2** - This new API version adds support for inbound POSTs with JSON files from 3rd party systems. This allows images and audio to be passed to Nyquist.
- **Multiple NTP servers** - Allow customers to configure use of more than one NTP server.

6.0 FEATURE HIGHLIGHTS

- **Debian 11 System OS Upgrade** - Allows security conscious customers to keep the system OS up to date with the latest security patches
 - **Simplified Configuration** - DHCP configuration added to the setup wizards, along with Nyquist Appliance Discovery and a new Network Settings Configuration Wizard
 - **Automated User Logout for Enhanced Security**
 - **New NWS Routine Trigger Filters** - Users can now set NWS triggers by Event Type & Severity
 - **Support for new Combo Clock / Messaging / Wall Baffle Speaker**
 - **Remote Facility Status (via Routines)** - Send a notification email or any other Routines action when a remote facility comes back up
- #### 5.0 FEATURE HIGHLIGHTS
- **Sound Masking S/W Feature option** - Enable sound masking in business environments for more private conversations, and less distraction from surrounding conversations

Benefits of C4000 Software Update Subscription (SUS) Plans

1. **Access to Powerful New Features.** Each new release provides users with new feature capabilities that not only enhance the power and performance of the system, but also help protect against technical obsolescence.
2. **Bug Fixes.** These help to ensure that your system is operating at peak performance 24/7—especially during emergencies.
3. **New Device Support.** This allows users to deploy the newest Nyquist appliances to further expand their system's functionality.
4. **Important Security Updates.** Maintaining system security is important - especially in a networked environment, where staying on top of security updates helps prevent hacking, viruses, and malware.
5. **Avoid Lapsed Coverage ("Catch-up") Fees.** Avert expired subscriptions when updating your system becomes imperative due to evolving school safety initiatives.

- **Microsoft Active Directory and LDAP Support** - Allows Nyquist users' login credentials to be centrally managed by IT - just like they do for all their other enterprise applications
- **IOS and iPadOS support** - Allows full system operation via the Nyquist UI Dashboard for bell/event scheduling, emergency paging, all call paging, zone paging, audio distribution, along with all the other powerful Dashboard capabilities

4.0 FEATURE HIGHLIGHTS

- **72-Hour Backup Tone Schedule** - Activated upon Nyquist server failure or Network failure
- **Backup Paging** - Via the Nyquist T1100 Admin Phones upon Nyquist server failure
- **Intercom Calls** - Now have the ability to route to PBXbased Admin Extensions via a SIP Trunk
- **Routine Actions** - Can now be Conditionally executed based on user-supplied Conditional specification.
- **National Weather Service (NWS)** - Alerts can now be announced to specified Zones, and the alert text can now be displayed via both the Nyquist Dashboard and NQT1100 Admin Phones.

3.0 FEATURE HIGHLIGHTS

- **Enterprise-Wide Schedule Management** - From a single interface allows administrators to remotely control what bell/event schedule is running at any facility throughout their network
- **Multi-Facility Paging/Announcements** - Enables live or prerecorded communications across an entire enterprise for emergency or standard messaging
- **Automatic Failover Capability** - (Server) reduces the loss-of-communications risk due to a single point-of-failure
- **Enhanced Routines/Routines API** - Includes the addition of many new event triggers and actions, in addition to enhanced security via encryption, SSL certificates and strong API keys

2.0 FEATURE HIGHLIGHTS

- **Emergency Location Check-In** - With map-based audio/ video room monitoring
- **Alerts** - Functionality that displays both weather and nonweather-related Emergency Alert System events from the National Weather Service on video displays connected to NQ-GA10PVs
- **Enhanced SIP Trunk Management** - Including expanded IP-PBX connection access
- **Emergency Check-In** - Allows staff and employees to report their check-in status from their offices/work areas during an emergency

1.0 FEATURE HIGHLIGHTS

- **Wizard-based System Setup and Configuration** - For deploying systems using the Nyquist System Controller
- **Pro-Audio Digital Signal Processing (DSP)** - Embedded in all Nyquist Networked Audio Power Amplifiers, as well as the Matrix Mixer Pre-Amp
- **Map-based Paging and Intercom User Interface** - With hierarchical drill-down views
- **Station and Appliance Supervision** - With email notifications and dashboard alerts
- **User-definable Routines** - That allow automatic launching of a procedure—or sequence of actions based on a wide variety of triggers to help businesses address: Facility Lockdowns, Severe Weather Events, Fire Drills, Evacuation Procedures, Automated Notifications