C4000 SERIES — POWERED BY NYQUIST
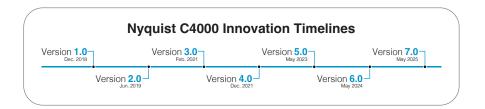
The **Bogen C4000** Series is a software-based solution for commercial paging and audio distribution applications that can be scaled to support a virtually unlimited number of audio sources, endpoints, and zones. System features, software platform, and configuration can be easily upgraded over time to 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

Version **1.0** Dec. 2018
Version **2.0** Jun. 2019
Version **3.0** Feb. 2021
Version **4.0** Dec. 2021
Version **5.0** May 2023
Version **6.0** May 2024
Version **7.0** May 2025

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.

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

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

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

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.

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
- **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

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

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.T
- **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.

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