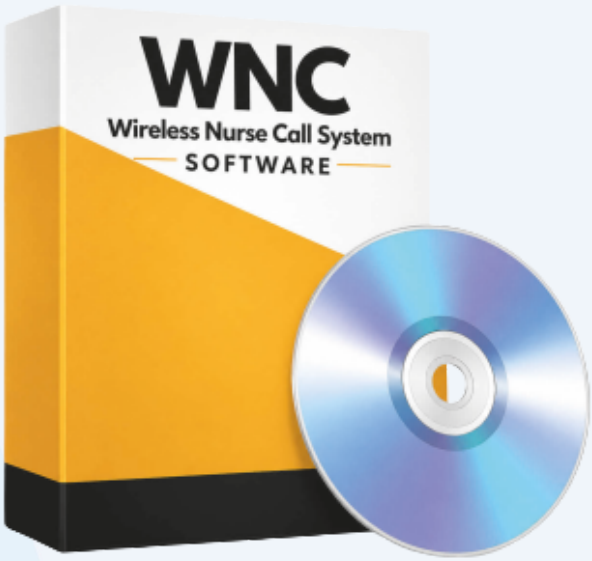
BEC Integrated Solutions

Product Specification Sheet

WNC-Client

WNC2600 Software Upgrade - License



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The WNC2600 Software Upgrade (License Only) is an enterprise-tier software update and feature-unlock protocol designed to elevate the processing capabilities, reporting metrics, and device capacity of the central Wireless Nurse Call server. This is a digital-delivery license key deployment that modifies the core operating software without requiring physical component changes to the existing host hardware.

The WNC2600 software upgrade optimizes system throughput, introduces advanced database management, streamlines client desktop terminal connections, and optimizes the algorithmic processing of 900 MHz spread-spectrum RF data packets. It ensures that legacy configurations can seamlessly adapt to modern medical facility demands, providing enhanced event routing and deeper management oversight.

Architects' and Engineers' Specifications

1. General Software Requirements
The contractor shall supply and configure the WNC2600 Software Upgrade License (or approved equal) on the facility's existing wireless nurse call host PC/Server platform. The upgrade must expand the system's concurrent endpoint capacity, enhance historical reporting mechanisms, and maintain complete operational compatibility with all previously deployed field transceivers and peripheral signaling hardware.

2. Operational & Database Architecture
• Database Structure: The system platform must utilize a high-reliability relational database model (such as Microsoft SQL or embedded secure equivalent) capable of tracking and logging system anomalies, call histories, and user interactions.
• Security & Accessibility: Access control must feature multi-level password protection. The application must support remote administrative viewing over the local area network (LAN) via authorized client workstation instances without degrading master server response times.
• Reporting Requirements: The reporting software engine must natively generate exportable datasets (CSV, PDF formats) compiling call-type distribution, average response latency, and peak traffic hours by shift, room, or division.

3. Network Infrastructure & Error Handling
The software application must feature an automated watchdog routine that monitors core service stability continuously. In the event of a critical software exception or communication link failure with the wireless receiver master network, the application must issue local audible and visual administrative warnings immediately.

Specifications

- **Model Designation:** Software Upgrade (License Only)
- **Delivery Medium:** Digital License Activation Key / Secure Cloud Download
- **Database Framework:** Secured Relational SQL Engine
- **Host Operating System Target:** Windows Server / Windows 10 Professional or higher Enterprise OS
- **Minimum Server Hardware Prerequisite:** Intel i5 processor (or equivalent), 16GB RAM, 500GB SSD storage, Dedicated NIC
- **System Event Capacity:** Unlimited historical logging bounded only by physical hard drive space
- **Simultaneous Client Support:** Scalable concurrent web/desktop console monitor seats
- **Alarm Inputs Supported:** Bed Stations, Bath Stations, Panic Buttons, Smoke Detectors, Universal Transmitters

Equipment Options

Because this product is a License-Only deployment, options center around tiered functional expansion packs and software maintenance terms:

• **WNC2600-BASE-TO-UPG:** Standard license bridge to elevate a base-tier system to the full WNC2600 enterprise feature set.
• **WNC2600-RPT:** Supplementary reporting license module for advanced, automated graphical data extraction and scheduling.
• **WNC2600-MOBILE-LIC:** Add-on concurrent seat licensing for smartphone/tablet application integration and wireless alert routing.
• **WNC2600-SMA-1Y/3Y:** 1-Year or 3-Year Software Maintenance Agreements providing priority patch access and remote IT version support.

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Features

• **Expanded Device Capacity Scale:** Unlocks higher wireless endpoint node registries, allowing the host server to scale up to hundreds of additional wireless bedside, emergency bath, and dome light transceivers.

• **Advanced Real-Time** Activity Dashboard: Introduces an overhauled user interface (UI) featuring color-coded visual tiles for pending calls, structured by duration, location, and severity level.

• **Comprehensive Audit Trail Engine:** Automatically logs every system event—including call time, staff response acknowledgment time, and resolution time—into a secure SQL-based relational database.

• **Automated Email/Text Event Forwarding:** Enables the native server engine to package emergency event payloads into SMS, SMTP email, or pocket pager formats without third-party middleware.

• **Configurable Shift Rotations:** Allows automated changes to call-routing maps based on facility staffing shift schedules, routing alerts to specific regional sub-consoles or corridors automatically.

• **Zero-Downtime Migration Architecture:** The software database migration engine is designed to parse, back up, and convert active site configurations in a background state, minimizing communication blackouts during system cut-over.

• **Granular Multi-Tenant Partitioning:** Allows a single central server installation to partition distinct wings, floors, or separate sub-buildings (such as independent living vs. skilled nursing) into customized alert-priority zones.

• **Active Directory / LDAP Integration:** Supports enterprise IT compliance by allowing facility network administrators to manage nurse station console login permissions through global corporate security credentials.

Compliance and Certification

As a software-only asset, direct hardware certifications (like physical casing flame ratings) do not apply independently. However, the WNC2600 application is engineered to maintain and enforce total system alignment with key institutional standards.

• **UL1069 & UL2560 System Alignment:** When installed onto a qualified, factory-approved hardware platform and connected to compliant field stations, the software maintains the functional integrity required for UL1069 (Hospital Signaling) and UL2560 (Emergency Call Systems) deployments.

• **FCC Compliance Status:** The software processes incoming data without modifying the physical radio frequency parameters of the system's transceivers. It operates securely alongside FCC Part 15 certified hardware, protecting against localized data collision or unlawful interference.

• **RoHS & Environmental Status:** As an entirely digital license asset, the product is inherently free of hazardous substances, satisfying global clean-initiative and green-building procurement mandates.

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