

MANAGEMENT SYSTEM OF SUPERVISION AND SUPPORT SHIP VCS system (Voice Communication System)

MAXIMIZE EFFICIENCY OF OPERATION OF SEAPORTS

To improve productivity and operational efficiency. A fully integrated VCS voice intercom solution that extends the functionality of the radio network with voice sending and fleet management and advanced control functions that enable direct management and administration more explicit and more specific. The system allows maximum management of information flow and voice traffic, the operator, the control room are always the decision makers to direct

They assist employees in this area, organize maintenance tasks and are responsible for detecting when incidents occur and making quick decisions. That is why equipping high-end control room staff with the tools allows them to organize and perform routine tasks more effectively, communicate better with industry groups, and offer decide faster, faster when something goes wrong

PREMIUM CONTROL AND SOLUTIONS FOR TWO-WAY ELECTRIC SYSTEM (NOTICE) BY RADIO

FEATURE

VCS solution brings investors an operating, control, voice notification solution VCS is a solution system, this product provides the most advanced features for management and monitoring. Radio notification, coordination, and voice and data communications. They leverage the Advanced Network Application Interface that allows dispatchers to communicate directly with repeaters over IP, improving system stability, security and reliability but also reducing hardware costs and reducing maintenance costs. VCS's control room solutions have undergone rigorous quality testing in laboratories as well as practical implementations, ensuring they meet the highest quality standards and address critical issues. important in the business and bring a special experience to customers.

FUNCTION

Full featured VCS system control room solutions give operators complete control of even the most demanding multi-site systems. Designed with dispatchers, a lot of daily activities can be automated using defined rules and smart tools like scheduled text messages, voicemail for foreign radio. route or geolocation. Dispatchers can now monitor the status of users and their locations with live updates, assign tasks to the most appropriate resources and ensure employee safety. Automatic alerts are given when unintended incidents occur.

BENEFITS BOUND

The main benefit of VCS Control Room Solution is that the new Network Application Interface establishes a direct link between the control room solution and the repeater. With this new interface, connectivity is simplified for a more reliable and efficient solution architecture. And dispatchers benefit from an enhanced experience with full transparency, recording all group and individual calls and greater contact security from radio to app.

FLEXIBILITY OF THE SYSTEM

These fully integrated solutions are completely modular, so customers only have to buy the necessary features. The system can be adjusted to any individual requirement to ensure optimum performance across a wide range of industries. Both solutions can also easily scale from small to large systems and are ready to grow with a business as it expands.

TESTING AND CHECKING THE SYSTEM

Developed specifically for VCS professional digital two-way radio systems, tested in the company's engineering laboratories, to ensure the highest quality performance and seamless integration into VCS system

THE COMMUNICATION COMMUNICATION COMMUNICATION SYSTEM

VCS control room solutions provide fully integrated dispatching control on single and multi-location channel systems, support voice communication and data operations for site repeaters. Normally, connecting to IP website, Plus Plus and power systems are linked via the VCS network application interface.

At the heart of the VCS Control Room Solution is the Advanced Wired Network Application Interface. This simple architecture establishes a direct connection between the control room solution and the repeater. No additional hardware is required, system stability, security and reliability are improved for more efficient coordination, monitoring, and management.

Using the Network Application Interface, dispatchers can now communicate directly via IP with repeaters without having to go through control stations and related ports. This makes radio and group communication much faster, easier and more efficient - essential when dealing with emergencies or reassigning workers to maximize productivity. productivity

The simplified architecture also ensures VCS's control room solution saves costs with reduced hardware investment, easier deployment, and less maintenance costs.

Redundancy can also be built to ensure your system is always available. This ensures you never lose performance or put employees at risk in the event of a system failure

APPLICATION NETWORK VCS PROVIDE ONLINE CONNECTION / CONTROL

Client / server application => IP network => Portal => checkpoint => repair => radio

CHARACTERISTICS: VCS control room solution includes many functional modules to improve fleet management and coordination. In addition to the comprehensive core module suite, users can add additional functions and controls with optional modules

MANAGEMENT: Effective management of fleet operations and remote control radios. Receive status updates and configure radio stations to send online / offline reports to the server.

SIGN UP FOR EVENTS: Log all system events including voice calls, text messages and status changes. Customize rules, filters and group events or generate detailed location and radio status reports

ALARM: Improve employee safety with automatic alarm system and protection. Alarms can also be sent as automatic messages, e-mail or SMS.

TEXT MESSAGE & EMAIL: Easily communicate with other devices when voice communication is not possible. Send private messages, groups or text messages. Radio users can message the dispatcher again

REMOTE: Remote device monitoring and management from control room. VCS remote support system with multiple profiles supported for different devices

WORKS IMPLEMENTED: Create, assign and monitor job tickets via the wireless network to distribute regular jobs more efficiently. Radio users can accept or reject job tickets at the push of a button

SPEAKING NOTICE: Provides communication between remote dispatchers. Make broadcasts, groups, privacy, remote screens or emergency calls even faster using programmable keyboard shortcuts

NOTICE STRUCTURE - MESSAGE - TEXT - EMAIL

CODE NOTIFICATION	OPEN SYSTEM NOTIFICATION
Notification voice message	Tracking position, positioning of ships
Event manager	Voice recording
Log the event	Schedule notification chart, ...
Event notification information	Telephone connection
Text messages and Email	Monitoring through chart

TECHNICAL INFORMATION OF THE SYSTEM

These are general guidelines, the final system specifications will depend on the user size and system configuration of VCS.

LANGUAGES: English, Vietnamese,

HARDWARE REQUIREMENTS

- Server RADIO

No	Device name	Hardware system (virtual server)
1	SIP Server	<ul style="list-style-type: none">- 16 core Xeon, 2,6 GHz- RAM: 32GB- HDD: 1TGB- SSD – Cache: 250 GB- 4x1 GB Network- Nvidia Quadro P2000- OS: Windows Server 2019

- Server Media

No	Device name	Hardware system (virtual server)
1	Server Media	<ul style="list-style-type: none">- 16 core Xeon, 2,6 GHz- RAM: 32GB- HDD: 1TGB-SSD – Cache: 500 GB- 4x1 GB Network- Nvidia Quadro P2000- OS: Windows Server 2019

- Server controls, manages calls

No	Device name	Hardware system (virtual server)
1	Server controls and manages calls	<ul style="list-style-type: none">- 16 core Xeon, 2,6 GHz- 16 core Xeon, 2,6 GHz- RAM: 32GB- HDD: 500GB- 4x1 GB Network- Web-based ManagementInterface- Powerful Filtering Rules Management- Escalation Process- Network Monitoring- Support SMTP, SNMP & Syslog- Built-in SMTP Gateway- 3G/4G modem- OS: Windows Server 2019

- Server ghi Log

No	Device name	Hardware system (virtual server)
1	Server ghi Log	<ul style="list-style-type: none">- 16 core Xeon, 2,6 GHz- RAM: 64GB- HDD: 1TB

		- 4x1 GB Network -1x8GB 2p FC - OS: Windows Server 2019 - APP: SQL Server 2019
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- Server Admin system management console (smc)

No	Device name	Hardware system (virtual server)
1	Server Admin SMC	- 16 core Xeon, 2,6 GHz - RAM: 32GB - HDD: 1TGB -SSD – Cache: 500 GB - 4x1 GB Network - Nvidia Quadro P2000 - OS: Windows Server 2019

Client system

- The workstation system is the place where the application is installed, Installing the software on the workstation and connecting to the data on the server, for the system connecting to the server system running the application there are 2 forms.
- Runs on webbase platform that optimally supports Chrome, firefox, coke,
- Direct installation on workstation system

No	Device name	Hardware system (virtual server)
1	Clients	CPU Intel Core i3 or later RAM 8GB HDD Storage Available 1TB Ethernet 10/100/1000 Mbits Card Sound card Headset with microphone
2		OS: Windows 7/Windows 8/ Windows 10 .NET Framework 4.6
3		UDP Port 5060, 5061, UDP Port range 10000-20000 TCP/IP Port 5038, 5083 WebSocket port 5039,5093 HTTP/HTTPS on port 80,443

- Mobile devices system: A mobile device (or a handheld computer) is a computer device small enough to handle, operate, monitor, monitor and receive multi-dimensional information from a transmitted VCS system. about

SPECIFICATIONS RADIO SERVER	SPECIFICATIONS PC	BANDWIDTH FOR IP
Intel Core i3 processor above	Intel Core i3 processor (Above)	Between server and repeater: 64 kbps for each repeater

<p>8 GB RAM or more Hard drive: 1 TB Network card: 1 GB Operating system Windows Server 2012, Windows Server 2016, Windows Server 2019.</p>	<p>System RAM 2 GB or more Microsoft SQL Server 2008 R2 (Upward) Network card 1 GB or higher OS: Operating system (Windows 7, Windows 8, Windows 10)</p>	<p>Between server and client. 64 kbps per client on each voice channel</p>
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