

VNS5100

Wireless Notification Alert Center

User's Manual / Installation Guide

Version 1.01

Visiplex, Inc. 2009

VNS5100

Wireless PA & Mass Notification Controller

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Notice to User Regarding Radio Frequency Interference

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in residential areas is likely to cause harmful interference in which case the user will be required to correct the interference at their expense.

About This Manual

This VNS5100 User/Installation Manual describes how to setup and utilize the VNS5100. It also provides instructions for the installation and setup of the VNS2500. It is imperative that the manual is followed in the order it is presented to prevent corrupting the VNS2000 software or damaging the equipment. Proper installation will help insure that the system functions properly.

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Product Information

1.1 Introduction



The VNS5100 central control server is an on-site emergency mass notification system that can initiate within seconds, live and pre-recorded voice messages to wireless Public Address speakers, activate strobe lights and generate text alerts to LED displays.

During non-emergency situations the VNS5100 can generate mass alerts to pre-programmed database e-mail and phone lists.

The VNS5100 can process information from a variety of in-house sources including: telephones, alarm points, Fire/Alarm systems, weather alert stations, building automation, security systems and others.

The VNS5100 is the heart of the AlertWave system that utilizes a FCC approved radio bands and offers transmitter options from 8 to 350 Watts to provide the best RF coverage for your facility.

The AlertWave system is fully expandable, allowing you to start with a system that fits your immediate needs while maintaining the ability to add more wireless speakers, strobe lights, LED displays and sirens if needed.



1.2 Standard Features

VNS 5100 Central Command Server provides the following standard features:

- **Fully Secured Mode** – Provides protection against unauthorized POCSAG broadcasted messages.
- **Wireless Programmability of Devices** – On Air/Off Air Programmability of each device settings.
- **System Expansion** – Add up to 10,000 additional remote devices.
- **Preprogrammed Alerts** – Allows capacity for at least 10,000 pre-programmed text and voice alerts.
- **Device Grouping** – Send messages to one speaker or display, to a group of devices or on a system-wide basis.
- **Audio .wav files** – Record at least 1,000 WAV files that can be easily stored in the VNS5100 Hard Drive.
- **Alarms & Zones** – Set over 990 alarm schedules & 1,000 zones.

1.3 Optional Features

Optional features can be included with the VNS5100 to allow for the following functionality:

- **Remote Activation** – This feature allows authorized personal can activate command center from a computer, telephone or cell phone.
- **Supervision option** – This option provides an automated testing system that can produce daily device status reports.
- **Alarm Point Activation** – This function initiates the broadcast of voice and text messages when alarm and other dry contact points are activated.
- **Email Activation** – This feature initiates alert broadcasts based upon the receipt of an email from a specific person and/or contain a specific word in an email heading.
- **Automated Telephone Dial Out** – This option automatically generates telephone calls, with prerecorded messages, to key groups (Police, Fire, Emergency Rescue and/or Key Personnel) when a specific emergency situation occurs.
- **Computer Popup Warnings** – This network option allows individuals using your network to be notified of an emergency alert through one or more computer popups.
- **Hot Backup System** – A secondary backup system can be configured to send out emergency messages should the primary system ever become unavailable.

1.4 VNS5100 Components

The following items are included with the VNS5100:

- VNS2500 Wireless PA & Mass Notification Controller.
- Desktop Server & Software.
- Low Voltage Transformer.
- Desktop and Handheld Microphone.
- 2 RS232 Ports.

1.5 Installation

It is recommended that only qualified technicians install the VNS5100, the VNS2500 and the Transmitter & Antenna Package. Improper installation of the component parts of the Visiplex system may void any and all product warranties.

Installation

2.1 Site Inspection and System Location

Consider the following requirements when planning system installation and choosing a location for the VNS5100 and other system components:

1. The transmitting antenna should be located as close as possible to the center of the site and should not be surrounded by large metal objects that may block the RF signal and decrease the coverage range of the system.
2. The transmitting antenna may be mounted vertically upward or downward, **NEVER horizontally**.
3. Magnetic Mount antenna (such as TS638) should be attached to a large metal object (like an air duct, metal shelf or cabinet) to provide it with a proper grounding.
4. Base Station antenna (such as included with TS654 kit) should be secured to a well-grounded metal structure or to a pole on the roof. Locate a path for running the coax cable between the antenna and the transmitter such as a riser (if there is no existing path, create one). Place the external transmitter in a location that is as close to the roof as possible such as the penthouse. Keep the distance between the antenna and the transmitter as short as possible to minimize RF power loss.

2.2 Magnetic Mount Antenna (VS638) Installation

1. Secure the antenna to an adequate grounding surface, HVAC duct or metal "I" beam. The antenna may be mounted vertically upward or downward, **NEVER horizontally**.
2. Choose a mounting location that will provide an adequate grounding surface and free space for RF radiation. If the antenna is mounted too close to metal, a high VSWR may occur which in the long term may cause damage to the transmitter.
3. The optional wall-mount "L" bracket allows mounting the antenna on the side of a building or other structure, providing the roof's overhang is not excessive.
4. If an external transmitter is used, connect the antenna to the **ANTENNA** terminal at the back of the external transmitter. Otherwise, connect the antenna to the **ANTENNA** terminal at the back of the VNS2500.

2.3 Base Station Outdoor Antenna Kit (VS654/655) Installation

1. To achieve maximum performance for your outdoor antenna choose a location that is unobstructed by trees, branches, power-lines, etc. Never mount the antenna where there is a signal-reflecting surface such as metal, power lines, mirrored glass, etc.
2. Choose a location that is easily accessible in case you need to perform maintenance on the antenna.
3. For optimal performance, make sure the antenna is installed at an elevation that will provide sufficient clearance to allow your antenna to radiate without interference.
4. It is recommended to mount the antenna where the path of the antenna cable is straight and as close as possible to the system transmitter. Do not coil up 100 feet of coaxial cable when only 20 feet of cable is required. Use a RG-8U coax cable that is specified as Low Loss to minimize power loss.
5. The antenna may be mounted vertically upward or downward, **NEVER horizontally**.
6. Install the grounding kit provided with the VS654/655 antenna kit.
7. If an external transmitter is used, connect the antenna to the **ANTENNA** terminal at the back of the external transmitter. Otherwise, connect the antenna to the **ANTENNA** terminal at the back of the VNS2500.

2.4 Final Installation Steps

The VNS2500 system encoder can be installed on a wall or shelf. Install a UPS power backup to protect the system from power outages and surges. If you are using an external transmitter, place

it next to the VNS2500 and use the data cable provided to connect VNS2500 and the external transmitter. Once the VNS2500 is placed properly, connect the microphone jack into the **MIC** input on the back of the unit (if you are planning to use a microphone with your system). If you are planning to use the telephone interface that comes with the unit, connect the RJ-11 telephone jack coming from the wall into the **PHONE** input on the back of the VNS2500. If an external transmitter is used, connect the control cable from the external transmitter into the **AUX (J2)** terminal at the back of the VNS5100.

Turn on the VNS5100 and make sure all connections are secure.

Software

3.1 VNS2000 Programming Software

The VNS2000 software allows you to program and backup the VNS5100 database and synchronize the VNS5100 date and time to a PC or network clock.

3.1.1 - Connections

Follow these steps to connect the VNS5100 to the VNS2500:

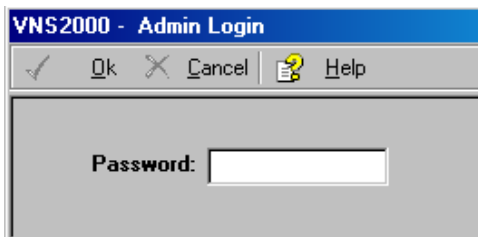
1. Connect the provided serial cable to the **RS232** jack found on the back of the VNS2500. (**Note:** The appropriate jack is labeled "**RS232**").
2. Connect the other end of the serial cable to one of the serial ports on the PC. Make a note of the serial port used (COM1, COM2, etc.).

3.1.2 - Software

The VNS2000 software program and paid for optional features have been automatically installed on your VNS5100 Server. The VNS2000 software is compatible with Windows ME, XP and 2000. In the event of a system malfunction, please contact Visiplex's technical support.

Follow these steps to access the VNS2000 software:

1. Make sure the serial cable is properly connected between the VNS5100 and the VNS2500. (**See**, Section 2.1.1 - Connections, on how this connection should be made.).
2. Make sure the VNS5100 is turned on and has power.
3. Press the Windows **Start** button. Select **Programs**, **VNS2000**, VNS2000 server.
4. The VNS2000 Alert Center Server – Network Edition Screen will appear.
5. Go to **File**, **Admin Login** menu. Since the default password is blank, press **Ok**. (**Note**, the Administrator should create a password shortly after the VNS5100 has been used for the first time. The password should also be written down and stored in a secure place.).



NOTE: Only the VNS5100 Administrator or an authorized user with administrator privileges can access system setup and administrative settings.

3.1.3.1 - Main Menu – Creating Alerts

The Main Menu screen is the first screen that will appear after the Administrator signs in. The Main Menu screen allows the Administrator to:

- 1) Activate, setup or modify alerts sent to the wireless devices; and
- 2) Access additional software features (See sections 3.1.4 to 3.1.7 for each feature).

An Alert can be created by clicking the “Add” button located near the bottom of the Main Menu screen. When the “Add” button is clicked, the “Devices – Add” screen will appear. An example of the “Devices – Add” screen is shown as Picture “A”.

Picture “A” – Devices – Add Screen

Device Description	Device ID	Device Type	Default Settings
0001 - Speaker #1	0001	Wireless Speaker, Tone / Bell	Alert Type: 1, Length: 1, Level: 1 - Low, Repeat: 1, Dela...
0002 - Speaker #2	0002	Wireless Speaker, Pre-Recorded	Alert Level: 1 - Low, 001 - Severe Weather Alert
0003 - Speaker #3	0003	Wireless Speaker, User Recorded	Alert Level: 1 - Low
0004 - Strobe Light	0004	Controlled Device	Action: Activate, 1 Minutes & 0 Seconds
0005 - Display	0005	Alphanumeric Display	Message: This is an alphanumeric display message
0006 - Pager	0006	Pager, Alphanumeric	Message: This is an alphanumeric pager message
0007 - Email	0007	Email Notification	Message: This is an email message
0008 - Audio Output #1	0008	Audio Output, Pre-Recorded	002 - Lockdown
0009 - Audio Output #2	0009	Audio Output, User Recorded	
0010 - Network Alert	0010	Network Notification	Message: This is a network alert message
0101 - Unattended Speaker	0101	Wireless Speaker, Pre-Recorded	Alert Level: 1 - Low, 002 - Lockdown
0102 - Supervised Speaker	0102	Wireless Speaker, Pre-Recorded	Alert Level: 1 - Low, 003 - This is a Test
1005 - Sequential Group	1005	Wireless Speaker, Tone / Bell	Alert Type: 1, Length: 1, Level: 1 - Low, Repeat: 1, Dela...

Refresh Add Edit Delete Show Last Selection Send

Select device to access... Priority: 1

AlertWave

The following table explains each of the features that are available in creating an Alert.

Device ID:	<p>The VNS2000 software allows the Administrator to assign a unique identification number to each of alert broadcast. This unique identification number is called the "Device ID".</p> <p>To create a Device ID, enter a 4-digit number (0001 to 9999) in the box located to the right of the words – "Device ID".</p>
Device Type:	<p>The VNS2000 software can send a specific alert to several different types of devices. These devices are follows:</p> <ul style="list-style-type: none"> • Wireless Speaker (For Playing Tone or Voice Messages); • Controlled Device (For Activating Strobe Light, Siren or Other Dry-Contact Closure); • Alphanumeric Display (For Displaying Text on Signboards); • Pager (For Displaying Alphanumeric Text on Pagers); • Email Notification (For Sending Alerts Via Email); • Audio Output (For Playing Messages on a Local PC Speaker) • Telephone (For Initiating Alerts Through the Telephone); or • Network Notification (Generating Popups on a Network PC). <p>To select the type of device that will receive the alert, click on the name of the device from the dropdown located to the right of the words – "Device Type".</p>
Set as Sequential Group Device:	<p>The VNS2000 software allows the Administrator to send a series of alerts with a single Device ID. The Administrator creates this series by setting up a sequential group of devices. To set up a sequential group of devices, the Administrator needs to perform four steps.</p> <p><u>Step 1:</u> Click the "Add" button on the Main Menu screen and to create a Device ID for the sequential group.</p> <p><u>Step 2:</u> Set the "Device Type" to a device that will not be part of the sequential group. (See, Note 2) below).</p> <p><u>Step 3:</u> Click on the box located before the words "Set as Sequential Group Device" locate along the top line of the Device – Edit screen.</p> <p><u>Step 4:</u> Select the sequential group number in the dropdown located to the right of the words "Set as Sequential Group Device".</p> <p><u>Step 5:</u> Set the "Repeat" to None and select the appropriate "Priority" level.</p> <p><u>Step 6:</u> Identify the Device ID for each alert that will be part of the sequential group.</p> <p><u>Step 8:</u> For each Device ID, set the sequential group number to correspond to. The selection is made by clicking a number from 01 to 99 in a dropdown located below the words "Membership in Sequential Groups" (See below for a discussion of membership.).</p> <p>Note:</p> <ol style="list-style-type: none"> 1) A sequential group will have its Device ID, Description and Default Settings displayed in red on the Main Menu. 2) When sending alerts to different device types, the default alert settings of each Device ID will be utilized unless the Device ID and Sequential Group have the same device type. For example, a Sequential Group's device type is "Wireless Speaker". Three Device IDs are assigned to the Sequential Group (#1001 – Wireless Speaker, #1002 – Alphanumeric Display and #1003 – Strobe). Only the alert broadcast to the Wireless Speaker will receive the Sequential Group's settings

	because Device ID #1001 has the same device type setting.
System Service:	<p>The VNS2000 software can send out alerts through different transmission services – transmitter, email server, network server, audio output and telephone dial out. In most circumstances, the Administrator does not need to select a system service setting because the service type is a default setting.</p> <p>To select a system service, click on the dropdown located to the right of the words “System Service” and select the appropriate transmission service.</p> <p>Local TX: Send the alert to the device using the local transmitter connected to the PC serial port. The dedicated serial port must be configured to run Local TX protocol.</p> <p>Audio Output: Send the alert by playing a user recorded or pre-recorded voice message via the PC audio output.</p> <p>Telephone Dial out: Send the alert by dialing out to an extension or a telephone and playing a user recorded or pre-recorded voice message via the optional PABX/Telephone Interface installed on the PC.</p> <p>Email Messaging: Send the alert through the network email server to the email recipient indicated in the Email Address field.</p> <p>Network Alert: Send the alert to all user running VNS2000-Server and VNS2000-Client software. The network alert will be displayed on all machines that are running the software.</p>
Local TX:	Send the alert to the device using the local transmitter connected to the PC serial port. The dedicated serial port must be configured to run Local TX protocol.
Local TX 1 to Local TX 4:	Send the alert to the device using a PC Card transmitter.
Wide Area:	Send the alert to a wide area (nation wide) service provider by dialing out to the service provider using a modem installed on one of the systems serial ports. Generally, this feature is used for pagers and text messages to cell phones.
TNPP/Network:	Send the alert to TNPP server using one of the system's serial ports running TNPP protocol.
Serial Port:	Send the alert to a system's serial port running a protocol that allow data output (Visiplex, Data Stream Analyzer, COMP1 & COMP2 protocols).
Audio Output:	Send the alert by playing a user recorded or pre-recorded voice message via the PC audio output.
Telephone Dial out:	Send the alert by dialing out to an extension or a telephone and playing a user recorded or pre-recorded voice message via the optional PABX/Telephone Interface installed on the PC.
Email Messaging:	Send the alert to the email recipient indicated in the Email Address field.
Network Alert:	<p>Send the alert to all user running VNS2000-Server and VNS2000-Client software.</p> <p>Note: The network alert will be displayed on all machines that are running the software and monitor the network alerts queue (including the sender of the alert).</p>
Send Via:	<p>Some services may require the user to provide additional information regarding the system service. For example, when using the Serial Out service, the user is required to indicate the serial port to use. In most circumstances, the Administrator will not need to supply additional information.</p> <p>To provide additional information, click on the dropdown located</p>

	to the right of the words – “Send Via” and click on the appropriate line item.
Secondary Type features: (Speaker Type / Receiver Type / Pager Type / Audio Type)	<p>The “Secondary Type” feature allows the Administrator to select the specific type of alert to be broadcasted by a particular device. For example, a speaker can play an embedded tone/bell/voice message, pre-recorded voice message or a user recorded voice message.</p> <p>The VNS2000 software is programmed to display the available “Secondary Type” settings based upon the selected “Device Type”. For example, when the “Device Type” is Wireless Speaker, the words “Speaker Type” is automatically displayed. The following list sets out a description of each “Secondary Type” setting based upon the selected “Device Type”.</p> <p>1) Selected “Device Type” – Wireless Speaker</p> <ul style="list-style-type: none"> • This will cause the words “Speaker Type” to appear on the far right side of the first line of the Device Settings box. • <u>Choices:</u> <ul style="list-style-type: none"> - Tone/Bell – Broadcast a specific tone, bell or voice message embedded in the particular controller/receiver. - Pre-Recorded – Broadcast a specific prerecorded voice message that has been stored on the VNS5100 server. - User Recorded – Record a new voice message that will be broadcasted to one or more speakers. <p>2) Selected “Device Type” – Pager</p> <ul style="list-style-type: none"> • This will cause the words “Pager Type” to appear on the far right side of the first line of the Device Settings box. • <u>Choices:</u> <ul style="list-style-type: none"> - Alphanumeric – Send an alphanumeric text to the particular paging device. - Numeric – Send a numeric text to the particular paging device. - Tone – Record a new voice message that will be broadcasted to one or more speakers. <p>3) Selected “Device Type” – Audio Output</p> <ul style="list-style-type: none"> • This will cause the words “Audio Type” to appear on the far right side of the first line of the Device Settings box. • <u>Choices:</u> <ul style="list-style-type: none"> - Pre-Recorded – Broadcast a specific prerecorded voice message that has been stored on the VNS5100 server. - User Recorded – Record a new voice message that will be broadcasted to one or more speakers. <p>4) Selected “Device Type” – Control Device, Alphanumeric Display, Email Notification and Network Notification</p> <ul style="list-style-type: none"> • This will cause the words “Receiver Type” to appear on the far right side of the first line of the Device Settings box. • <u>Choices:</u> None. The screen will not allow entries.
Device Code:	The VNS2000 software allows the Administrator to send an alert to one or more similar devices. This feature is achieved through the use of cap codes. A cap code is a 7-digit number that is programmed directly into the controller/receiver. Every controller/receiver can be programmed with up to 6 cap codes.

	<p>To enter a cap code for the specific alert message, type the seven digit cap code in the box located to the right of the words "Device Code".</p> <p>Note:</p> <ol style="list-style-type: none"> 1) Only Wireless Speaker, Controllers, Alphanumeric Display and Pagers allow for the entry of cap codes. 2) To enter a 2-Tone pager code, clear the field and type the code. The code will be translated to the appropriate tones. For example, if you enter R950, it will be translated to 0195140 and the text "2-Tone Code: R950." will be added to the Comments field.
Baud Rate:	<p>The VNS2000 allows the Administrator to select a baud rate for a particular device. (A baud rate designates the transmission rate per second.).</p> <p>To select a baud rate, click on the dropdown located to the right of the words – "Baud Rate".</p> <p>Note:</p> <ol style="list-style-type: none"> 1) A baud rate selection is only required when the Device Type is either: Wireless Speaker, Controllers, Alphanumeric Display or Pagers. 2) The baud rate of 512 bps should normally be used.
Mode:	<p>The VNS2000 allows the Administrator to select the mode of a particular device. (Some devices permit various modes that result in different responses by the receiving device. This is mainly available with pagers that have different alert tones.).</p> <p>To select the mode, click on the dropdown located to the right of the words – "Mode".</p> <p>Note:</p> <ol style="list-style-type: none"> 1) The mode selection is only required when the Device Type is either: Wireless Speaker, Controllers, Alphanumeric Display or Pagers. 2) A mode of zero (0) is normally used.
Format:	<p>The VNS2000 allows for different formats to be used in transmitting data. The most commonly used format is POCSAG. The devices types that have been configured for the VNS2000 software use POCSAG format. Therefore, the VNS2000 software defaults to POCSAG in the "Format" field and the Administrator may not modify it.</p>
Dial out Number:	<p>The VNS2000 allows the Administrator to enter a particular phone number to be dialed when the following settings are chosen:</p> <ul style="list-style-type: none"> • "Device Type" setting is Audio Output; and • "System Service" setting is Telephone Dial out. <p>To enter a phone number, type the phone number to be dialed in the box located to the right of the words – "Dialout Number". The phone number should only consist of ten (10) numbers. (Do not enter () or -.).</p> <p>Note: This is an optional feature. Contact your Visiplex, Inc. representative for further information if this option is desired and has not included in your software configuration.</p>
Subscriber ID:	<p>The VNS2000 allows the Administrator to send out text messages through a wide area service. These services may require a subscriber id.</p> <p>To enter a subscriber id, enter the number in the box located to the right of the words – "Subscriber ID".</p>

	<p>Note: Wide area service is an optional feature. Contact your Visiplex, Inc. representative for further information if this option is desired and has not included in your software configuration.</p>
Password:	<p>Some wide area service providers require that a password be transmitted before a message will be broadcasted through their system.</p> <p>To enter a password, enter the password in the box located to the right of the words – “Password”.</p>
Email Address:	<p>The VNS2000 allows the Administrator to send a text message to one or more email addresses.</p> <p>To enter an email address, type the email address in the box located to the right of the words “Email Address.</p> <p>Note: This is an optional feature. Contact your Visiplex, Inc. representative for further information if this option is desired and has not included in your software configuration.</p>
Repeat:	<p>The VNS2000 software allows the Administrator the ability to resend the Alert after the initial broadcast is made. This “Repeat” feature differs from the number of times an embedded tone or voice message will repeat, which is set through the “Alert Default Parameters”. (Note: See “Alert Default Parameters – Wireless Speaker – Tone/Bell”, directly above, for a discussion of the default repeat feature when broadcasting an embedded tone or voice message.).</p> <p>To repeat the broadcast of the Alert, select the number from the dropdown located to the right of the word – “Repeat”.</p>
Priority:	<p>The VNS2000 software allows the Authorized Users to initiate multiple alerts through “Sequential Grouping”. The Administrator can prioritize which of the alerts will go out first through the “Page Priority” feature. (A discussion concerning sequential groups is set out in the “Set as Sequential Group Device” topic of this table.).</p> <p>To set the Alert’s “Page Priority”, choose the specific priority level from the dropdown located to the left of the word – “Priority”. (1-Min is the lowest priority and 9-Max is the highest priority.).</p> <p>Note: The following examples show how “Page Priority” works:</p> <p><u>Example 1:</u> Device ID 1000 has a “Page Priority” level of 3. and Device ID 2000 has a “Page Priority” level of 6. An Authorized User sends out both alerts as part of a “Sequential Group”. Device ID 2000 will be sent before Device ID 1000 because Device ID 2000’s Page Priority – 6 is higher than Device ID 1000’s Page Priority – 3.</p> <p><u>Example 2:</u> Device ID#1010 has a “Page Priority” level of 3. The Administrator uses the Serial Port Data Stream feature to have the VNS2000 software to look for the Keyword “Floor1-BuildingA” in the data stream from the Security Monitoring System. If the Administrator leaves the “Page Priority dropdown to source, then the priority level of 3 will be used. If the Administrator sets the “Page Priority dropdown to 5, then the priority level of 5 will be used.</p>
Divert to Device:	<p>If a valid device is entered in this field, all alerts will be diverted</p>

	to it.
Allow User to Customize Parameters:	<p>The VNS2000 software allows the Administrator to control whether Authorized Users can modify the alert parameters before initiating an alert broadcast.</p> <p>To allow authorized users to modify the alert parameters, click the box located to the left of the words "Allow User to Customize Parameters".</p> <p>Notes:</p> <ol style="list-style-type: none"> 1) Authorized Users will still be able to initiate the emergency alerts if the check box is unchecked. 2) Emergency Alerts that allow for "User Recorded" messages (Live Voice) will automatically activate the check box. This will allow the Authorized User to initiate a Live Voice message. 3) Authorized Users will not be able to modify text messages sent to Alphanumeric Signboards or Pagers if the check box is unchecked.
Use Time Stamp:	<p>The VNS2000 software allows the Administrator to add a time stamp to all alerts sent via Alphanumeric Display (Signboards), Pager, Email Notification and Network Notification.</p> <p>To activate the time stamp feature, click on the box located to the right of the words – "Use Time Stamp".</p> <p>Notes: The time stamp will be appear as part of the text message at the end of the text message.</p>
Device is Active:	<p>The VNS2000 software allows the Administrator to setup an Alert but not allow Authorized Users to send out the Alert.</p> <p>To setup this feature, click on the box located to the left of the words – "Device is Active". You will need to make sure that the box is blank after clicking on it. If a check mark is displayed in the box, then click the box a second time.</p> <p>A Check mark means that the device is active. A black box means the box is inactive.</p>
Supervised:	<p>The VNS2000 software allows the Administrator to test whether a individual controller is operating and receiving a page transmission. The "Supervised" feature allows for such testing.</p> <p>To activate the testing feature, click on the box located to the left of the word "Supervised".</p> <p>Notes:</p> <ol style="list-style-type: none"> 1) Only controllers with the "Supervision" option can be tested. Contact your Visiplex representatives if you have questions as to whether your controllers have the "Supervision" Option. 2) Testing can occur after saving the Device ID.
Alert Default Parameters:	<p>The VNS2000 allows the Administrator to set different default parameters based upon the Device Type selected. The following settings are available for the following Device Types.</p> <p>Wireless Speaker – Tone/Bell:</p> <ol style="list-style-type: none"> 1) Alert Type – Each controller/receiver that powers a speaker can be programmed to play one or more tones or messages. To select a specific tone or message, the Administrator will

need to select the number (1 to 99) that is associated with the tone or message.

- 2) **Alert Length** - This feature determines the length of the tone that is played by the controller/receiver. This feature only applies to Tone/Bell speakers.
- 3) **Alert Level** - This feature provides the volume level that the speaker will play the Alert message at. There are four (4) levels: 1 – Low, 2 – Medium, 3 – High and 4 – Highest.
- 4) **Alert Repeat** – This feature provides the number of times the tone or message will be repeated.
- 5) **Alert Delay** – This feature determines the delay between each repetition of the Alert.

Wireless Speaker – Pre-Recorded:

- 1) **Alert Level** – When an Authorized User wishes to create an Alert using a prerecorded voice message, this feature provides the volume level that the speaker will play the Alert message at. There are four (4) levels: 1 – Low, 2 – Medium, 3 – High and 4 – Highest.
- 2) **Pre-Recorded Voice Message** – This dropdown allows the Administrator to select the a voice message saved through the “Pre-programed Voice Message” feature. (**Note:** Section 3.1.5.2 provides a discussion of the “Pre-programed Text” feature.).

Wireless Speaker – User-Recorded:

- 1) **Alert Level** - When an Authorized User wishes to create an Alert with a unique voice message, this feature provides the volume level that the speaker will play the Alert message at. There are four (4) levels: 1 – Low, 2 – Medium, 3 – High and 4 – Highest.

Control Device:

- 1) **Action** - The Administrator can program the Control Device to perform one of three functions:
 - Activate – Turn on
 - Activate Until Deactivated – Turn on and stay on until deactivated.
 - Deactivate – Turn off
- 2) **Activity Duration** – This feature sets the time duration that the control device will remain on, when “Activated” is selected in the “Action” dropdown.
 - Minutes – Sets the minutes – up to 149 minutes
 - Seconds – Sets the seconds – up to 59 seconds

Alphanumeric Display:

- 1) **Text Message** – The Administrator can type in the text message that will be displayed on the alphanumeric displays. The text message can be up to 48 characters, including spaces.
- 2) **Add Text** - This button allows the Administrator to copy text messages saved through the “Pre-programed Text” feature. (**Note:** Section 3.1.5.4 provides a discussion of the “Pre-programed Text” feature.).
- 3) **Clear** - This button clears any text displayed in the “Text Message” box.

- 4) **Slot** – The VNS2000 software allows users to preprogram each individual signboard with specific text messages. Each text message is given a specific slot. The “Slot” feature allows the user to select a particular preprogrammed text message to be played.
- 5) **Time Slice**- Determines the length of time to display the message before switching to the next slot.
- 6) **Timeout** – The “Timeout” feature allows the Administrator to set the number of minutes that the text message will be displayed on the LED Display. The default setting is infinite, which requires the Authorized User to send a second alert to clear the LED Display.
- 7) **Color and Intensity** – When multicolor LED Displays are used, the “Color” feature allows the Administrator to choose the color of the alert message. (**Note:** Look at the user manual of the LED Display to determine which colors are available.).
- 8) **Effect** – When the LED Display allows for multi-directional scrolling, the “Effect” feature allows the Administrator to select the direction by which the alert message will scroll. (**Note:** Look at the user manual of the LED Display to determine whether multi-directional scrolling is permitted.).
- 9) **Font** – When the LED Display allows for multiple font sizes, the “Font” feature allows the Administrator to select the size of the font to be used for the alert message. (**Note:** Look at the user manual of the LED Display to determine whether multi-font display is permitted.).
- 10) **Alignment** – When a message is not scrolled across the screen,, the “Alignment” feature allows the Administrator to select a Left, Right or Center alignment of the message.

Pager:

- 1) **Text Message** – The Administrator can type in the text message that will be displayed on the pager(s). The text message can be up to 150 characters but most pagers will only display about 48 characters.
- 2) **Add Text** - This button allows the Administrator to copy text messages saved through the “Pre-programed Text” feature. (**Note:** Section 3.1.5.4 provides a discussion of the “Pre-programed Text” feature.).
- 3) **Clear** - This button clears any text displayed in the “Text Message” box.

Email Notification:

- 1) **Text Message** – The Administrator can type in the text of the email message that will be sent. The text message can be up to 150 characters, including spaces.
- 2) **Add Text** - This button allows the Administrator to copy text messages saved through the “Pre-programed Text” feature. (**Note:** Section 3.1.5.4 provides a discussion of the “Pre-programed Text” feature.).
- 3) **Clear** - This button clears any text displayed in the “Text

	<p>Message" box.</p> <p>Audio Output:</p> <p>1) <u>Pre-Recorded Voice Message</u> – When an Authorized User wishes to create an Alert that will send a prerecorded voice message through a telephone dialout or a speaker that is connected to the VNS5100, this dropdown allows the Administrator to select the a voice message saved through the "Pre-programed Voice Message" feature. (Note: Section 3.1.5.2 provides a discussion of the "Pre-programed Text" feature.).</p> <p>Network Notification:</p> <p>1) <u>Text Message</u> – The Administrator can type in the text of the pop message that will be sent. The text message can be up to 150 characters, including spaces.</p> <p>2) <u>Add Text</u> - This button allows the Administrator to copy text messages saved through the "Pre-programed Text" feature. (Note: Section 3.1.5.4 provides a discussion of the "Pre-programed Text" feature.).</p> <p>4) <u>Clear</u> - This button clears any text displayed in the "Text Message" box.</p>
Membership in Sequential Groups:	<p>The VNS2000 software allows the Administrator to send a series of alerts with a single Device ID. (A discussion concerning sequential groups is set out in the "Set as Sequential Group Device" topic of this table.). After a sequential group has been created, the Administrator can include a specific Alert in the sequential group by selecting the corresponding number in the first unused dropdown located below the words "Membership in Sequential Groups".</p> <p>Note: Each device can be a member in up to 10 sequential groups.</p>
Description:	<p>The VNS2000 allows the Administrator to provide a description for each Alert.</p> <p>To enter a description, type the appropriate description in the box located to the right of the word "Description".</p>
Location:	<p>The VNS2000 allows the Administrator to provide a description for location where the Alert will be broadcast.</p> <p>To enter a location, type the appropriate description in the box located to the right of the word "Location".</p>
Model:	<p>The VNS2000 allows the Administrator to provide a description of the device that will broadcast the Alert.</p> <p>To enter a description, type the appropriate description in the box located to the right of the word "Model".</p>
S/N	<p>The VNS2000 allows the Administrator to provide the serial number of the device that will broadcast the Alert.</p> <p>To enter a serial number, type the appropriate number in the box located to the right of the letters "S/N".</p>

Comment:	The VNS2000 allows the Administrator to provide a short comment on the Alert or Devices. To enter a comment, type the appropriate statement in the box located to the right of the word "Comment".
Activity Counter:	This feature counts the number of times the particular Alerts has been broadcasted.
Reset:	The Reset button resets the "Activity Counter".

3.1.3.2 - Main Menu – Editing Alerts

The Main Menu screen also allows the Administrator to edit an existing Alert. There are two ways to display an Alert for editing:

- 1) Click on the Alert to be modified and then click the "Edit" button located along the bottom of the screen; or
- 2) Double-click on the Alert to be modified.

The Devices – Edit screen will appear. An example of the Devices – Edit screen is shown as Picture "B"

Picture "B" – Devices – Edit Screen

The screenshot shows the 'Devices - Edit' window with the following fields and options:

- Device ID:** 0001
- Device Type:** Wireless Speaker
- ☐ Set as Sequential Group Device
- Device Settings:**
 - System Service:** Local TX
 - Send via:** Local TX (Serial Port 1)
 - Speaker Type:** Tone / Bell
 - Device Code:** 0500501
 - Baud Rate:** 512
 - Mode:** 0
 - Format:** POCSAG
 - Dialout Number:**
 - Subscriber ID:** 0000000000
 - Password:**
 - Email Address:**
 - Repeat:** None
 - Priority:** Source
 - Divert to Device:**
 - ☒ Allow User to Customize Parameters
 - ☐ Use Time Stamp
 - ☒ Device is Active
 - ☐ Supervised
 - Test** button
- Alert Default Parameters:**
 - Alert Type:** 01
 - Alert Length:** 1
 - Alert Level:** 1 - Low
 - Alert Repeat:** 1
 - Alert Delay:** 1 Second
 - Pre-Recorded Voice Message:**
 - Play** and **Stop** buttons
- Membership in Sequential Groups:**
 - 1st: 05, 2nd: , 3rd: , 4th: , 5th: , 6th: , 7th: , 8th: , 9th: , 10th:
- Device Information:**
 - Description:** 0001 - Speaker #1
 - Location:**
 - Model:**
 - S/N:**
 - Comments:**
 - Activity Counter:** 000001
 - Reset** button

The features of the Device – Edit screen are identical to the Device – Add Screen. The only difference is that the Device ID cannot be changed once it is created and saved. If the Device ID

needs to be changed, the administrator will need to delete the current Device ID record and create a new one.

3.1.3.3 - Main Menu – Deleting an Alert

The Main Menu screen also allows the Administrator to delete an existing Alert. To delete an Alert, click on the Alert to be deleted and then click the “Delete” button located along the bottom of the screen. A pop-up screen will appear that will ask you whether you wish to delete the Alert. Click on the “Yes” button to complete the deletion of the Alert.

3.1.3.4 - Main Menu – Sending an Alert

All Authorized Users can send one or more Alert messages. To send out an Alert:

- 1) Click on the Device Description; and
- 2) Click the “Send” button located at the bottom right corner of the screen.

This will cause the Alert Confirmation screen to appear. The Alert Confirmation screen will display different set up features depending on the type of Alert. Section 3.1.3.4.1 through 3.1.3.7.

3.1.3.4.1 - Sending Out Live Voice & Newly Created Text Messages

An Authorized User can send out live voice and/or newly created text message. To send out such an alert, the Authorized User will click on the “Add” button located along the bottom of the Main Screen and follow the following instructions:

To send a live voice message with the VNS5100:

- 1) Make sure the microphone is plugged into the VNS5100 server.
- 2) Click on the Device ID that has been created for Wireless Speaker, User Recorded messages. (**Note** – If a Device ID has not been created for the Wireless Speaker, User Recorded, then a Device ID must be created. To create a Device ID, click on the Add button located in the bottom left-corner of the main screen. A popup will appear. Enter a unique Device ID (E.g., 9999). Set the “Device Type” to Wireless Speaker and set the “Speaker Type” to User Recorded. Enter the cap code for the Speaker(s) you wish the voice message to be broadcasted from. Set the “Baud Rate” to 512. Set the “Repeat” level to the number of times you wish the live voice message to be sent out. Set the “Priority” level for the alert. Set the “Alert Level” to the desired volume level – It is recommend that the volume level be set at 2 or 3. Save the Device ID. Save the newly created Device ID.
- 3) Click the Send button located in the bottom right-corner of the screen.
- 4) A popup screen will appear.
- 5) Click on the Record button located in the bottom right-corner of the popup screen.
- 6) Start speaking into the microphone.
- 7) Click on the Stop button when the voice message has been completed.
- 8) Listen to the recorded message by clicking on the Play button located in the bottom right-corner of the popup screen.
- 9) To rerecord the message, repeat steps 5) through 8).
- 10) Click the send button located in the bottom left-corner of the popup screen.
- 11) The live voice message is sent to the que to be transmitted in order of priority.

To send a newly created text message to Signboards:

- 1) Click on the Device Id set up for transmitting a text message to the particular LED Display(s). (**Note** – If a Device ID has not been created for the LED Display(s), then a Device ID must be created. To create a Device ID, click on the Add button located in the bottom left-corner of the main screen. A popup will appear. Enter a unique Device ID (E.g., 9999). Set the “Device Type” to Alphanumeric Display. Enter the cap code for the LED Signboard(s) you wish the text message to appear on. Set the “Baud Rate” to 512. Leave the “Mode” at Zero (0). Type in the text message. Modify the remaining features as needed. Type in a Description – e.g., LED Display Message. Click on the Save button located in the upper left-corner of the popup. (This will cause the Main Menu Screen to appear.).
- 2) Click on the Send button located in the bottom right-corner of the Main Menu Screen. (This will cause a popup to appear.).
- 3) Type in the message to be sent.
- 4) Modify any settings as needed
- 5) Click the send button located in the bottom left-corner of the popup.
- 6) The newly created text message is sent to the queue to be transmitted in order of priority.

3.1.3.4.2 - Main Menu – Sending an Alert to Broadcast an Embedded Tone or Message

An Authorized User can activate an Alert that will cause one or more speakers to play an embedded tone or voice message.

To send an Alert to Broadcast an Embedded Tone or Message:

- 1) Click on the Device Id for the Alert to be broadcasted.
- 2) Click on the Send Button located in the bottom left corner of the Main Menu Screen.
- 3) A popup screen will appear. The screen will be entitled: “Alert Confirmation Screen – Wireless Speaker, Tone/Bell”.
- 4) Set the default parameters as needed.
- 5) Click on the Send button located in the bottom left corner of the popup.
- 6) The Alert will be sent to the queue to be transmitted in order of priority.

(**Note:** If the Authorized User cannot modify the Device Id’s default setting, then the alert will be automatically sent to the queue to be transmitted in order of priority.).

An example of the popup screen – “Alert Confirmation Screen – Wireless Speaker, Tone/Bell” is shown as Picture “C”.

Picture “C” – Alert Confirmation Screen – Wireless Speaker, Tone/Bell

The following table sets out an explanation of each of the features that are available when sending an Embedded Tone or Voice Message Alert.

Alert Default Parameters:	<p>Alert Type – Each controller/receiver that powers a speaker can be programmed to play one or more tones or messages. To select a specific tone or message, the Administrator will need to select the number (1 to 99) that is associated with the tone or</p>
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	<p>message.</p> <p><u>Alert Length</u> - This feature determines the length of the tone that is played by the controller/receiver. This feature only applies to Tone/Bell speakers.</p> <p><u>Alert Level</u> - This feature provides the volume level that the speaker will play the Alert message at. There are four (4) levels: 1 – Low, 2 – Medium, 3 – High and 4 – Highest.</p> <p><u>Alert Repeat</u> – This feature provides the number of times the tone or message will be repeated.</p> <p><u>Alert Delay</u> - This feature determines the delay between each repetition of the Alert.</p>
Send:	The “Send” Button will send out the Alert. (Note: There is no other prompt before the Alert is sent.).
Skip:	The “Skip” button will cancel the Alert and will return the user to the main screen.

3.1.3.4.3 - Main Menu – Sending an Alert to Broadcast a Prerecorded Voice Message

An Authorized User can activate an Alert that will cause a prerecorded voice message to be broadcasted over one or more speakers.

To send an Alert to Broadcast a Prerecorded Voice Message:

- 1) Click on the Device Id for the Alert to be broadcasted.
- 2) Click on the Send Button located in the bottom left corner of the Main Menu Screen.
- 3) A popup screen will appear. The screen will be entitled: “Alert Confirmation Screen – Wireless Speaker, Pre-Recorded”.
- 4) Set the Alert Level.
- 5) The name of the designated voice message will be displayed. The Authorized User can select a different prerecorded voice message by clicking the ▼ located to the right of the name of the prerecorded voice message.
- 6) Click on the Send button located in the bottom left corner of the popup.
- 7) The Alert will be sent to the queue to be transmitted in order of priority.

(**Note:** If the Authorized User cannot modify the Device Id’s default setting, then the alert will be automatically sent to the queue to be transmitted in order of priority.).

An example of the Alert Confirmation Screen – Wireless Speaker, Pre-Recorded popup screen is shown as Picture “D”.

Picture “D” – Alert Confirmation Screen – Wireless Speaker, Pre-Recorded

The screenshot shows a software dialog box titled "Alert Confirmation - Device 0002 - Wireless Speaker, Pre-Recorded". It has a standard Windows-style title bar with a close button (X). Below the title bar are "Cancel" and "Help" buttons. The main area is labeled "Alert Default Parameters" and contains several settings: "Alert Type" set to "01", "Alert Length" set to "1", "Alert Level" set to "1 - Low", "Alert Repeat" set to "1", and "Alert Delay" set to "1 Second". Below these settings is a "Pre-Recorded Voice Message" dropdown menu showing "001 - Severe Weather Alert", with "Play" and "Stop" buttons next to it. At the bottom of the dialog are five buttons: "Send", "Skip", "Clear Selected Slot", "Record", and "Play".

The following table sets out an explanation of each of the features that are available when sending an Alert to Broadcast an Prerecorded Voice Message.

Alert Default Parameters:	<p><u>Alert Level</u> – This feature provides the volume level that the speaker will play the Alert message at. There are four (4) levels: 1 – Low, 2 – Medium, 3 – High and 4 – Highest.</p> <p><u>Pre-Recorded Voice Message</u> – To change the default message, the Authroized User can select a previously recorded voice message by clicking on the ▼ located to the right of the name of the prerecorded voice message. (Note: Section 3.1.5.2 provides a discussion of the “Pre-Recorded Voice Message” feature.).</p>
Play:	The “Play” button allows the user to hear the Prerecorded voice message.
Send:	The “Send” Button will send out the Alert. (Note: There is no other prompt before the Alert is sent.).
Skip:	The “Skip” button will cancel the Alert and will return the user to the main screen.

3.1.3.4.4 - Sending an Alert to Activate or Deactivate a Control Device

An Authorized User can activate an Alert that will cause a control device to be turned on or turned off.

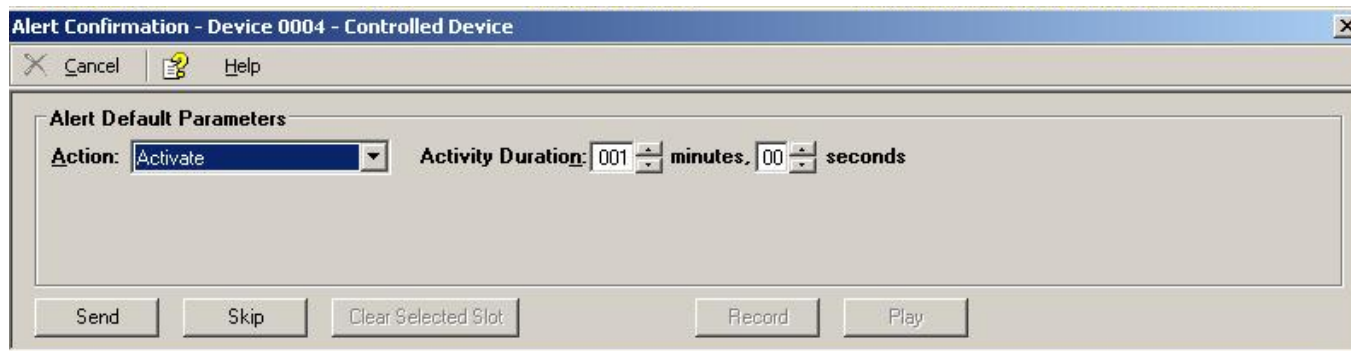
To send an Alert to Broadcast a Prerecorded Voice Message:

- 1) Click on the Device Id for the Alert to be broadcasted.
- 2) Click on the Send Button located in the bottom left corner of the Main Menu Screen.
- 3) A popup screen will appear. The screen will be entitled: “Alert Confirmation Screen – Control Device”.
- 4) Set the Action feature, if different than the designated action.
- 5) Reset the Activity Duration if different than the designated duration.
- 6) Click on the Send button located in the bottom left corner of the popup.
- 7) The Alert will be sent to the queue to be transmitted in order of priority.

(**Note:** If the Authorized User cannot modify the Device Id’s default setting, then the alert will be automatically sent to the queue to be transmitted in order of priority.).

An example of the Alert Confirmation Screen – Wireless Speaker, Pre-Recorded popup screen is shown as Picture “E”.

Picture “E” – Alert Confirmation Screen – Control Device.



The following table sets out an explanation of each of the features that are available when sending an Alert to activate a Control Device.

Alert Default Parameters:	<p>Action – The Administrator can cause the Control Device to:</p> <ul style="list-style-type: none"> • Activate – Turn on • Activate Until Deactivated – Turn on and stay on until deactivated. • Deactivate – Turn Off <p>Activity Duration – This feature sets the time duration that the control device will remain on, when “Activated” is selected in the “Action” dropdown.</p> <ul style="list-style-type: none"> • Minutes – Sets the minutes – up to 149 minutes • Seconds – Sets the seconds – up to 59 seconds
Send:	The “Send” Button will send out the Alert. (Note: There is no other prompt before the Alert is sent.).
Skip:	The “Skip” button will cancel the Alert and will return the user to the main screen.

3.1.3.4.5 - Sending an Alert Broadcast of a Text Message to an Alphanumeric Display

An Authorized User can activate an Alert that will cause a text message to be broadcasted over one or more alphanumeric displays.

To send an Alert to Broadcast a Text Message to an Alphanumeric Display:

- 1) Click on the Device Id for the Alert to be broadcasted.
- 2) Click on the Send Button located in the bottom left corner of the Main Menu Screen.
- 3) A popup screen will appear. The screen will be entitled: “Alert Confirmation Screen – Alphanumeric Display”.
- 4) A designated text message will be displayed.
- 5) The Authorized User can select a different text message by clicking the Add Text button and selecting the appropriate text message.
- 6) The Authorized User can clear display and type in a new text message.
- 7) Modify the default features as needed.
- 8) Click on the Send button located in the bottom left corner of the popup.
- 9) The Alert will be sent to the queue to be transmitted in order of priority.

(**Note:** If the Authorized User cannot modify the Device Id’s default setting, then the alert will be automatically sent to the queue to be transmitted in order of priority.).

An example of the Alert Confirmation Screen – Alphanumeric Display is shown as Picture “F”.

Picture “F” – Alert Confirmation Screen – Alphanumeric Display

The following table sets out an explanation of each of the features that are available when sending an Alert to be displayed on an Alphanumeric Display.

Alert Default Parameters:	<p><u>Text Message</u> – The Administrator can type in the text message that will be displayed on the alphanumeric displays. The text message can be up to 48 characters, including spaces.</p> <p><u>Add Text Button</u> - This button allows the Administrator to copy text messages saved through the “Pre-programed Text” feature. (Note: Section 3.1.5.4 provides a discussion of the “Pre-programed Text” feature.).</p> <p><u>Clear Button</u> - This button clears any text displayed in the “Text Message” box.</p> <p><u>Slot</u> – Depending on how the signboard is configured, it may rotate up to 99 different messages. See Sam on this one.</p> <p><u>Time Slice</u> - Determines the length of time to display the message before switching to the next slot.</p> <p><u>Timeout</u> – The timeout feature allows the Administrator to set the number of minutes that the text message will be displayed on the LED Display. The default setting is infinite, which requires the Authorized User to send a second alert to clear the display.</p> <p><u>Color</u> – When multicolor LED Displays are used, the “Color” feature allows the Administrator to choose the color of the alert message. (Note: Look at the user manual for the LED Display to determine which colors are available.).</p> <p><u>Effect</u> – When the LED Display allows for multi-directional scrolling, the “Effect” feature allows the Administrator to select the direction by which the alert message will scroll. (Note: Look at the user manual of the LED Display to determine whether multi-directional scrolling is permitted.).</p>
Send:	The “Send” Button will send out the Alert. (Note: There is no other prompt before the Alert is sent.).
Skip:	The “Skip” button will cancel the Alert and will return the user to the main screen.
Clear Selected Slot:	This button clears any text that is currently being displayed on the LED Display.

3.1.3.4.6 - Main Menu – Sending an Alert Broadcast to a Pager

An Authorized User can activate an Alert that will cause a text message or tone to be sent to one or more pagers that are with in the broadcast area of the transmitter.

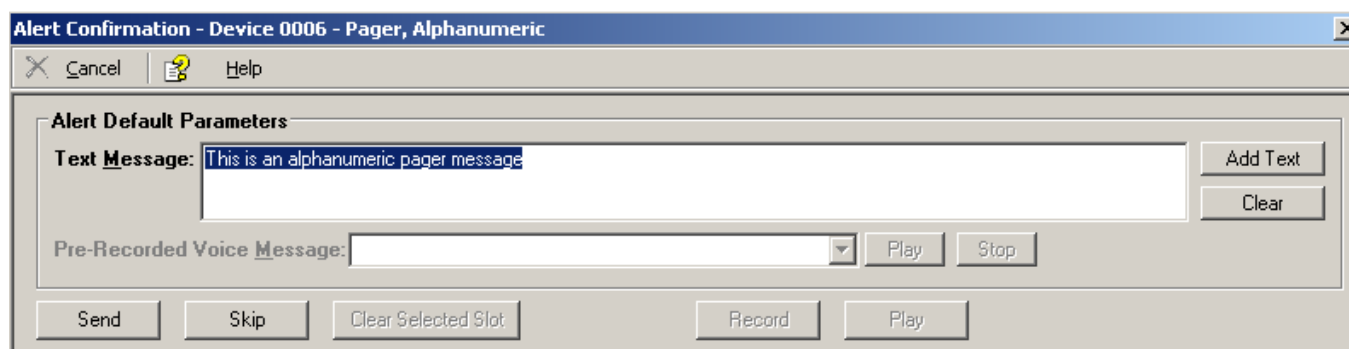
To send an Alert Broadcast to a Pager:

- 1) Click on the Device Id for the Alert to be broadcasted.
- 2) Click on the Send Button located in the bottom left corner of the Main Menu Screen.
- 3) A popup screen will appear. The screen will be entitled: "Alert Confirmation Screen – Pager".
- 4) A designated text message will be displayed.
- 5) The Authorized User can select a different text message by clicking the Add Text button and selecting the appropriate text message.
- 6) The Authorized User can also click the Clear button and type in a new text message.
- 7) Click on the Send button located in the bottom left corner of the popup.
- 8) The Alert will be sent to the queue to be transmitted in order of priority.

(**Note:** If the Authorized User cannot modify the Device Id's default setting, then the alert will be automatically sent to the queue to be transmitted in order of priority.).

An example of the Alert Confirmation Screen – Pager is shown as Picture "G".

Picture "G" – Alert Confirmation Screen – Pager



The following table sets out an explanation of each of the features that are available when sending an Alert to Broadcast to a Pager.

Alert Default Parameters:	<p><u>Text Message</u> – The Administrator can type in the text message that will be displayed on the pager(s). The text message can be up to 230 characters but most pagers will not display that many.</p> <p><u>Add Text</u> - This button allows the Administrator to copy text messages saved through the "Pre-programed Text" feature. (Note: Section 3.1.5.4 provides a discussion of the "Pre-programed Text" feature.).</p> <p><u>Clear</u> - This button clears any text displayed in the "Text Message" box.</p>
Send:	The "Send" Button will send out the Alert. (Note: There is no other prompt before the Alert is sent.).
Skip:	The "Skip" button will cancel the Alert and will return the user to the main screen.

3.1.3.4.7 - Main Menu – Sending an Alert to Transmit an Email Message

An Authorized User can activate an Alert that will cause an email message to be sent to an email address. This is an optional software feature that can be purchased from Visiplex.

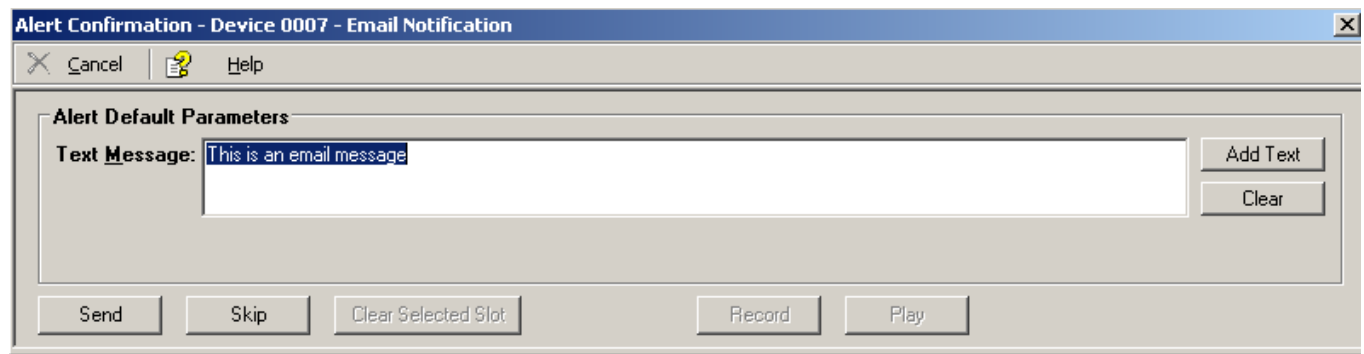
To send an Alert to Transmit an Email Message:

- 1) Click on the Device Id for the Alert to be broadcasted.
- 2) Click on the Send Button located in the bottom left corner of the Main Menu Screen.
- 3) A popup screen will appear. The screen will be entitled: "Alert Confirmation Screen – Email Notification.
- 4) A designated text message will be displayed.
- 5) The Authorized User can select a different text message by clicking the Add Text button and selecting the appropriate text message.
- 6) The Authorized User can also click the Clear button and type in a new text message.
- 7) Click on the Send button located in the bottom left corner of the popup.
- 8) The Alert will be sent to the queue to be transmitted in order of priority.

(**Note:** If the Authorized User cannot modify the Device Id's default setting, then the alert will be automatically sent to the queue to be transmitted in order of priority.).

An example of the Alert Confirmation Screen – Pager is shown as Picture "H".

Picture "H" – Alert Confirmation Screen – Email Notification



The following table sets out an explanation of each of the features that are available when sending an Alert to transmit an Email Message.

Alert Default Parameters:	<p><u>Text Message</u> – The Administrator can type in the text message that will be displayed on the pager(s). The text message can be up to 230 characters but, some devices may not be able to display all the characters.</p> <p><u>Add Text</u> - This button allows the Administrator to copy text messages saved through the "Pre-programed Text" feature. (Note: Section 3.1.5.4 provides a discussion of the "Pre-programed Text" feature.).</p> <p><u>Clear</u> - This button clears any text displayed in the "Text Message" box.</p>
Send:	The "Send" Button will send out the Alert. (Note: There is no other prompt before the Alert is sent.).
Skip:	The "Skip" button will cancel the Alert and will return the user to the main screen.

3.1.3.4.8 - Main Menu – Sending an Alert via a Telephone Line – Prerecorded Message

An Authorized User can activate an Alert that will cause a prerecorded voice message to be sent over a PBX telephone line to a person's telephone or cell phone. This is an optional software feature that can be purchased from Visiplex.

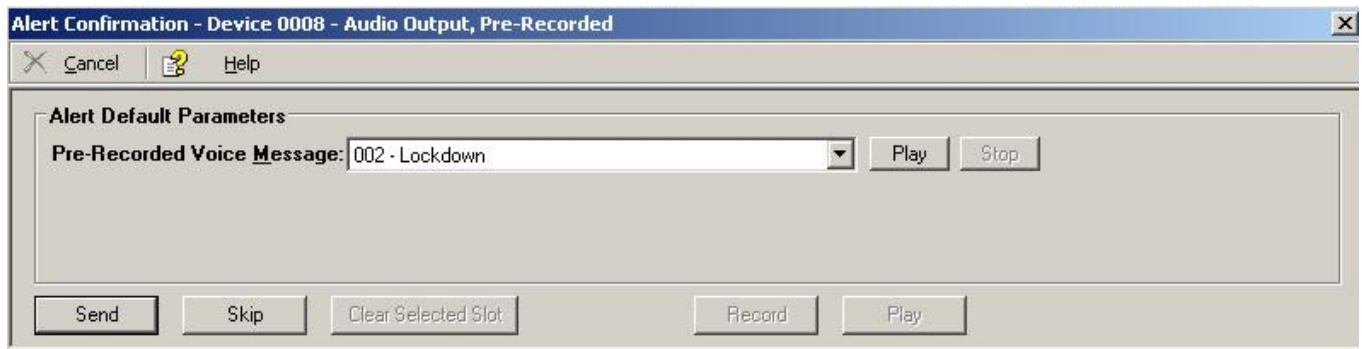
To send an Alert to Broadcast a Prerecorded Voice Message:

- 1) Click on the Device Id for the Alert to be broadcasted.
- 2) Click on the Send Button located in the bottom left corner of the Main Menu Screen.
- 3) A popup screen will appear. The screen will be entitled: "Alert Confirmation Screen – Audio Output, Pre-Recorded".
- 4) The name of the designated voice message will be displayed. The Authorized User can select a different prerecorded voice message by clicking the ▼ located to the right of the name of the prerecorded voice message.
- 5) Click on the Send button located in the bottom left corner of the popup.
- 6) The Alert will be sent to the queue to be transmitted in order of priority.

(**Note:** If the Authorized User cannot modify the Device Id's default setting, then the alert will be automatically sent to the queue to be transmitted in order of priority.).

An example of the Alert Confirmation Screen – Wireless Speaker, Pre-Recorded popup screen is shown as Picture "1".

Picture "1" – Alert Confirmation Screen – Audio Output, Pre-Recorded



The following table sets out an explanation of each of the features that are available when sending an Alert through a PBX telephone line to a person's telephone or cell phone.

Alert Default Parameters:	<u>Pre-Recorded Voice Message</u> – To change the default message, the Authorized User can select a previously recorded voice message by clicking on the ▼ located to the right of the name of the prerecorded voice message. (Note: Section 3.1.5.2 provides a discussion of the "Pre-Recorded Voice Message" feature.).
Play:	The "Play" button allows the user to hear the Prerecorded voice message.
Send:	The "Send" Button will send out the Alert. (Note: There is no other prompt before the Alert is sent.).
Skip:	The "Skip" button will cancel the Alert and will return the user to the main screen.

3.1.3.4.9 - Main Menu – Sending an Alert to Display a Computer Popup

An Authorized User can activate an Alert that will cause a popup to appear on one or more computers. Special Visiplex software must be loaded on the computer in order for the popup to appear. This is an optional software feature that can be purchased from Visiplex.

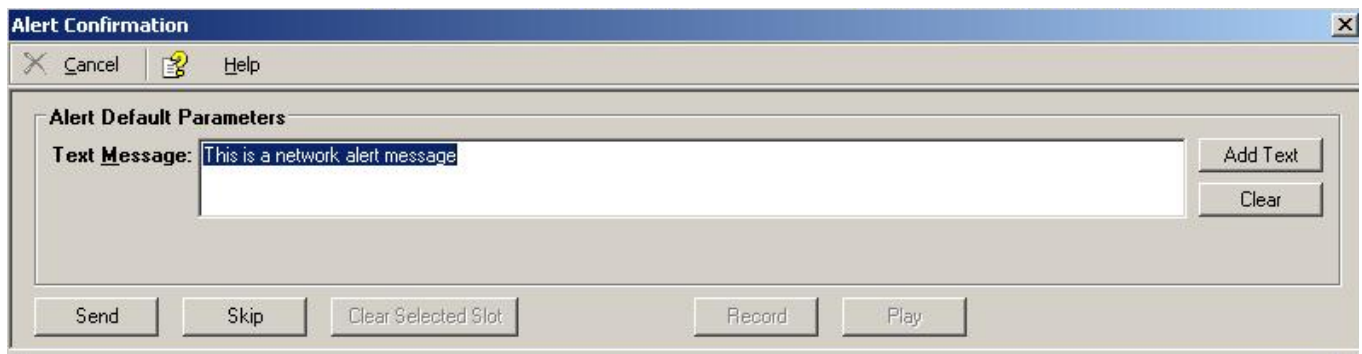
To send an Alert to Display a Computer Popup:

- 1) Click on the Device Id for the Alert to be broadcasted.
- 2) Click on the Send Button located in the bottom left corner of the Main Menu Screen.
- 3) A popup screen will appear. The screen will be entitled: "Alert Confirmation".
- 4) A designated text message will be displayed.
- 5) The Authorized User can select a different text message by clicking the Add Text button and selecting the appropriate text message.
- 6) The Authorized User can also click the Clear button and type in a new text message.
- 7) Click on the Send button located in the bottom left corner of the popup.
- 8) The Alert will be sent to the queue to be transmitted in order of priority.

(**Note:** If the Authorized User cannot modify the Device Id's default setting, then the alert will be automatically sent to the queue to be transmitted in order of priority.).

An example of the Alert Confirmation Screen for a Network Notification is shown as Picture "J".

Picture "J" – Alert Confirmation Screen – Network Notification (Popups):



The following table sets out an explanation of each of the features that are available when sending an Alert to display a Computer Popup.

Alert Default Parameters:	<p><u>Text Message</u> – The Administrator can type in the text message that will be displayed on the pager(s). The text message can be up to 230 characters, including spaces.</p> <p><u>Add Text</u> - This button allows the Administrator to copy text messages saved through the "Pre-programed Text" feature. (Note: Section 3.1.5.4 provides a discussion of the "Pre-programed Text" feature.).</p> <p><u>Clear</u> - This button clears any text displayed in the "Text Message" box.</p>
Send:	The "Send" Button will send out the Alert. (Note: There is no other prompt before the Alert is sent.).
Skip:	The "Skip" button will cancel the Alert and will return the user to the main screen.

3.1.4 - Setup (Software Settings)

The Setup menu offers the following commands and sub-menus:

- **Configure;**
- **Email Forwarding;**
- **User Information;**
- **System Configuration; and**

- **Register Replacement System.**

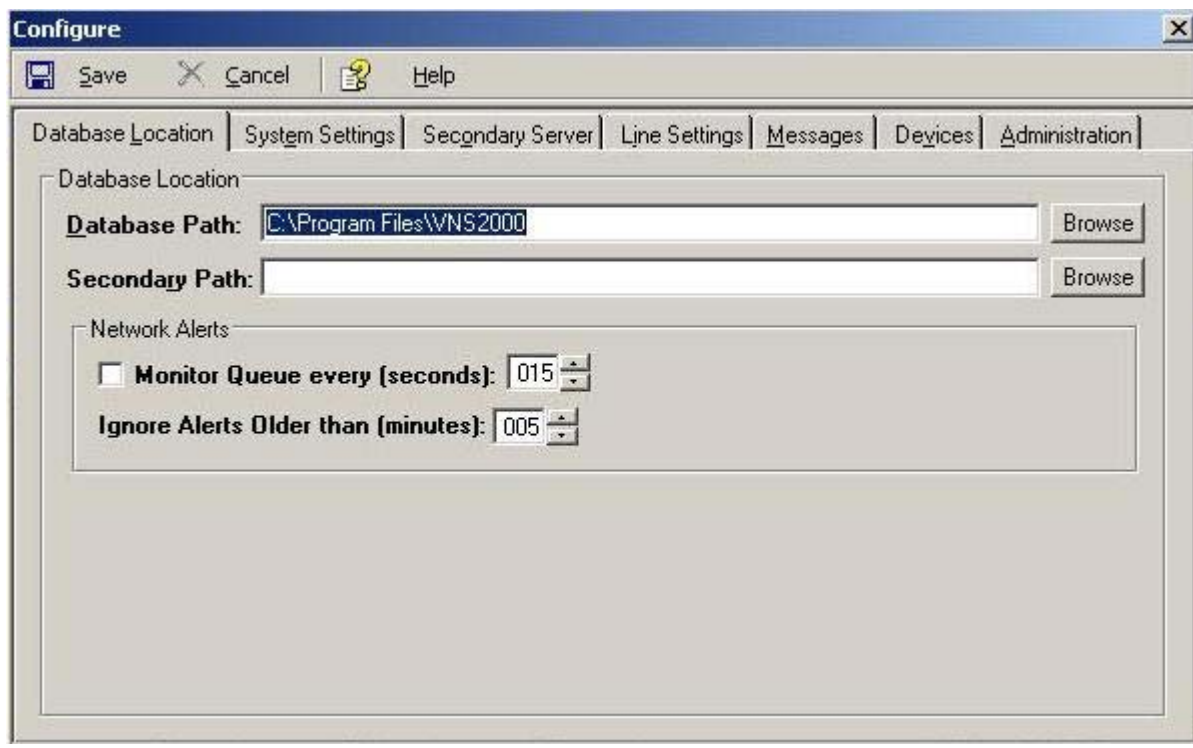
3.1.4.1 Configure

The Configure field allows the Administrative User to create and modify a variety of system settings. To access the configuration settings, Click on the word "Setup" found on the Main Screen. A dropdown will appear. Click the word Configure. A system message popup will appear informing you that all messaging activity will be postponed until the configure screen is closed. Click the Okay button and the Configure screen will be displayed. You can then select the settings and/or features you wish to modify:

- **Database Location**
- **System Settings**
- **Secondary Server Settings**
- **PABX Settings**
- **Messages & Devices**
- **Administration**

The following picture shows the Configure Screen:

Picture "K" – Configure Screen & Database Location Tab



3.1.4.1.1 Database Location

The Database Location tab allows the Administrative User to modify settings relating to the Database Path, Secondary Path and Network Alerts. ***Visiplex recommends that you contact Visiplex Tech Support before making any changes to these settings.*** Moreover, you should only need to modify the default settings if you wish to:

- 1) Change the Database Path where files and settings are saved on the VNS5100 hard drive.
- 2) Set the Secondary Path for a Secondary Server. This is typically used when a hot-back up system has been purchased and installed.
- 3) Establish Network Alerts are used used to monitor the queue which maintains the sequence of Emergency Alerts that are scheduled to be sent out by the system.

To access these settings, Click the "Database Location" tab located on the far left side of the Configure Screen (For the location of this tab, see Picture "A" in Section 3.1.4.1).

An explanation of each "Database Location" function is set out in the following table. **You should always contact your IT System Administrator before making any changes to these settings.**

Function	Explanation
Database Path:	This setting allows the Administrative User to designate the folder where the device database is located or should be created. The default location is "C:\Program Files\VNS2000". To change the Database Path use the Browse button to point to this path or type it in this textbox. This folder must be shared on the network to allow users to access and read the device database.
Secondary Path:	If you are using a secondary system, indicate the path to the secondary system on your network. Use the Browse button to point to this path or type it in this textbox. (Note: The Secondary system is typically used for the hot standby. See , "Secondary Server" section for more information.).
Monitor Queue every (seconds) (Network Alerts):	This setting allows the administrator to enable or disable the monitoring of Network Alerts and to determine the time interval for monitoring the network for new alert. It is recommended that the administrator <u>does not enable</u> this setting as the VNS5100 Server is usually not attended. If the box is checked, then a popup will appear for every NETWORK NOTIFICATION message sent. The system checks the queue every 15 seconds to see if there is any new Network Message.
Ignore Alerts Older than (Minutes) (Network Alerts):	This setting determines the time interval after which a network alerts will be ignored since it is too old (based on the time when the alert was created). It is recommended that the administrator set the minutes to "005".

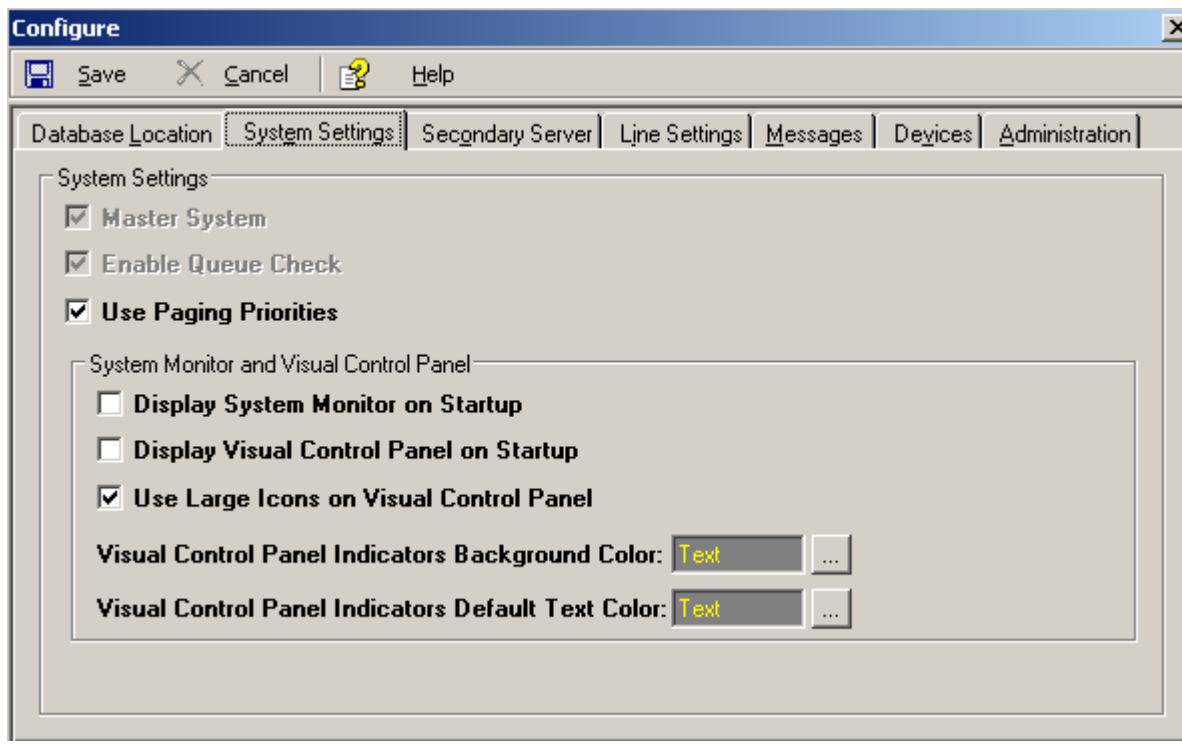
3.1.4.1.2 System Settings

The System Settings tab allows the Administrative User to modify settings relating to:

- 1) Basic System Settings
- 2) The Displaying of the System Monitor Screen
- 3) The Displaying of the Visual Control Panel

To access these settings, Click the "System Settings" tab located on the Configure Screen. (For the location of this tab, see Picture "L".).

Picture "L" – Configure Screen & System Settings Tab



The System Settings are setup in two different sections: “System Settings” & “System Monitor and Visual Control Panel”.

An explanation of each “System Settings” feature is set out in the following table. **You should always contact your IT System Administrator before making any changes to these settings.**

Master System (Server version):	This checkbox determines if the computer, on which the VNS2000 is running, is assigned to handle all alerts and system tasks. It should be checked unless the VNS5100 server is being used for a purpose other than operating the AlertWave Emergency Alert System. (Note: All changes performed by computers that are not the one connected to the hardware components of the system, will not take effect until after the VNS2000 on the Master PC is closed and restarted.).
Enable Queue Check (Server version):	This checkbox must be checked for VNS2000 to send alerts. If unchecked, no alerts are sent. Note: Disabling Queue Check on the Master System will immediately terminate the sending of all alerts and you will have to re-enable it or restart VNS2000.
Use Paging Priorities (Server version):	Alerts are sent by First-In/First-Out order unless this checkbox is checked. If checked, alerts are processed based on the priority assigned to each alert regardless of the alert's date and time. Note: Activating this option may increase processing time, especially with heavily used systems or large sequential groups.
Use Secure Mode Key of (Server version):	The Secure Mode causes encrypted messages to be sent with a 3 digit password. This password provides an additional safety feature to prevent unauthorized broadcast of alerts. To activate this feature: 1) Click the box located to the left of the words “Use Secure Mode Key”. 2) Left Click the box located to the right of the words “Use Secure

	<p>Mode Key" and enter a three digit number.</p> <p>Note: All devices (Speakers, LED Displays, Strobes & Sirents) must be set to the selected password (the three digit number) and support secure mode..</p>
Display System Monitor on Startup (Server version):	Determines if the System Monitor will be displayed automatically when VNS2000 starts.
Display Visual Control Panel on Startup (Server version):	Determines if the Visual Control Panel will be displayed automatically when VNS2000 starts.
Use Large Icons on Visual Control Panel (Server version):	Determines the icon size of the Visual Control Panel indicators on the Visual Control Panel screen.
Visual Control Panel Indicators Background Color (Server version):	Determines the background color of the image section of the Visual Control Panel screen.
Visual Control Panel Indicators Default Text Color (Server version):	Determines the default text color of all added indicators on the Visual Control Panel screen.

3.1.4.1.3 Secondary Server (Optional Feature)

A Secondary server is typically used as a back-up system to the Primary server. This is an optional feature.

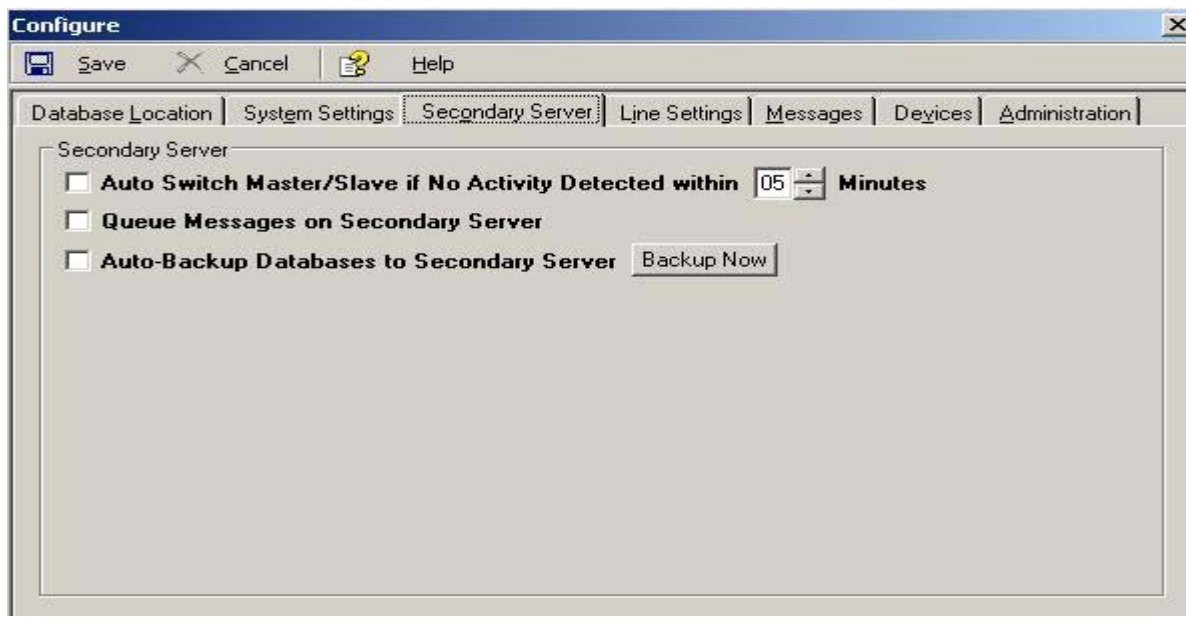
There are two different configurations that can be utilized: 1) Stand Alone secondary server; and 2) Secondary Server connected to the Primary Server. There are various pros and cons to either configuration. You should contact your Visiplex Sales Representative or Technical Support Person for more information.

If a Secondary server has been ordered and will be connected to the Primary Server, then the Secondary Server tab allows the Administrative User to modify the following settings:


- 1) Automatic switching from the Primary server to the Secondary server.
- 2) The queueing of messages on the Secondary server.
- 3) Auto-Backup of the Primary server database to the Secondary server database.
- 4) Immediate backup of the Primary server database to the Secondary server database

To access these settings, Click the "Secondary Server" tab located on the Configure Screen. (For the location of this tab, see Picture "M").

Picture "M" – Configure Screen & Secondary Server Tab



An explanation of each "Secondary Server" feature is set out in the following table. **You should always contact your IT System Administrator before making any changes to these settings.**

Auto Switch Master/Secondary if No Activity Detected Within nn Minutes:	<p>You can set the Secondary system to take over when no activity is detected from the Master system. The Secondary will take over and start functioning as Master system when Master system activity is not detected within the period of time specified. If this check box is not checked, the Secondary system will have to be switched manually to Master mode. (For more information on manual switching, see the Hot Standby System section of this manual.).</p> <p>To activate this feature:</p> <ol style="list-style-type: none"> 1) Left click the box located before the words "Auto Switch Master/Slave". 2) Select the number of minutes  by clicking the box and entering the number – or - by clicking the "up arrow" or "down arrow".
Queue Messages on Secondary Server:	<p>The Primary server can automatically send information to the Secondary server. This information includes sending a copy of the alerts that have been activated in the Primary server. This feature will not cause a second alert to be broadcasted by the Secondary server.</p> <p>To activate this feature, Click the box located to the left of the words "Queue Messages on Secondary Server".</p> <p>Note: This feature is only applicable for alerts sent using the local transmitters.</p>
Auto-Backup to Secondary Server:	<p>The "Auto-Backup" feature causes the Primary server's databases to be automatically copied to the Secondary Server. This feature permits the Primary server and Secondary server to maintain identical databases. This backup is performed every 24 hours and causes the Secondary server databases to be overwritten.</p> <p>To activate this feature, Click the box located to the left of the words "Auto-Backup Databases to Secondary Server".</p> <p>Note:</p> <ol style="list-style-type: none"> 1) This feature requires the Master and Secondary server to be connected.

	2) Make sure that only the Master server is copying the databases to the Secondary server.
Backup now:	<p>The "Back-up Now" feature will cause the immediate backup of the Primary server's databases to the Secondary server. This should be performed when there has been modifications to the Settings, Preset Messages or Event Triggers. Server Settings, to maintain identical databases. Note: The databases on the Secondary Server will be overwritten.</p> <p>To activate this feature, Click the box located to the left of the words "Auto-Backup Databases to Secondary Server".</p> <p>Note: Make sure that only the Master server is copying the databases to the Secondary server.</p>

3.1.4.1.4 Line Settings (Optional Feature)

The VNS5100 Command Center Server can automatically dialout prerecorded voice messages to designated telephone numbers. This telephone dial-out is an optional feature. If this feature is ordered, the Line Settings control how the Primary server handles out-going telephone calls. There are three controls that need to be set by the Administrative User:

- 1) Number of rings before disconnecting.
- 2) Number of times the Primary system will redial a phone number when no answer or a busy signal is received.
- 3) Number of seconds between each attempt to retry a phone number.


To access these settings, Click the "Line Settings" tab located on the Configure Screen. (For the location of this tab, see Picture "N".).

Picture "N" – Configure Screen & Line Settings Tab

The screenshot shows the 'Line Settings' tab selected in the 'Configure Screen'. The settings are as follows:

- Number of Rings to Wait for Answer:** 06
- No Answer / Busy Retry Count:** 3
- Retry every (seconds):** 030

An explanation of each "PABX Settings" feature is set out in the following table. **You should always contact your IT System Administrator before making any changes to these settings.**

Number of Rings to Wait for Answer:	<p>Determines after how many rings an outgoing call will be considered as not answered by the called party.</p> <p>To set the number of rings, click the box  and enter the appropriate number – or – click the "up arrow" or "down arrow".</p>
No Answer / Busy Retry Count:	<p>Determines the number of times the system will call to send a message by dialing out to the called party.</p>

	<p>To set the number of attempts, click the box <input type="text" value="03"/> and enter the appropriate number – or – click the “up arrow” or “down arrow”.</p> <p>Note: The system will not attempt another dialout after the outgoing call has been picked up.</p>
Retry every (seconds):	<p>Determines the time in seconds between each dial out retry to send a message by dialing out to the called party.</p> <p>To set the number of seconds, click the box <input type="text" value="030"/> and enter the appropriate number – or – click the “up arrow” or “down arrow”.</p>

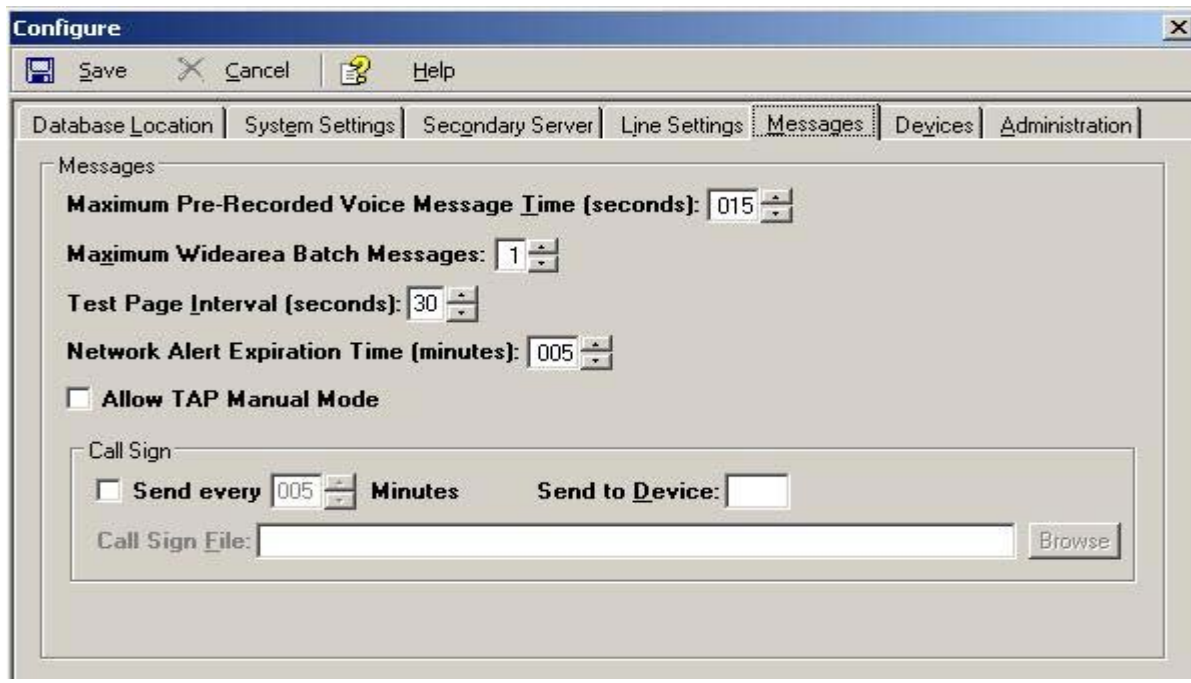
3.1.4.1.5 Messages

The System Administrator has the ability to set various message parameters. These parameters will normally provide a time limitation for a certain feature. The parameters that can be set by the Administrative User are:

- 1) The maximum recording time (in seconds) for prerecorded voice messages.
- 2) The maximum number of wide batch messages that can be sent in a single phone call.
- 3) The test page interval.
- 4) The number of minutes that will elapse before an unsent alert is deleted from the alert message queue.
- 5) The permitting of a TAP manual mode.
- 6) The setting of call sign functionality.



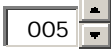
To access these settings, Click the “Message” tab located on the Configure Screen. (For the location of this tab, see Picture “O”).

Picture “O” – Configure Screen & Message Tab



An explanation of each “Messages” feature is set out in the following table. **You should always contact your IT System Administrator before making any changes to these settings.**

Maximum Pre-Recorded Voice Message Time (seconds) (Server version only):	<p>The Administrator User can determine the maximum length of voice messages allowed to be recorded by system users. This provides the Administrator User to avoid unnecessarily long alert messages.</p> <p>To set the number of seconds, click the box <input type="text" value="015"/> and enter the appropriate number – or – click the “up arrow” or “down arrow”.</p>
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Maximum Widearea Batch Messages (Server version):	<p>An optional feature available with the VNS5100 is the sending out of pages through a widearea batch message system. This widearea batch message system utilizes a local PABX telephone line. If this option is purchased, this feature will limit the number of alerts that the VNS2000 software can send to the Widearea paging service using one phone call.</p> <p>To set the number of alerts, click the box  and enter the appropriate number – or – click the “up arrow” or “down arrow”.</p> <p>Note: The VNS2000 software has default setting of 1 message. This setting should be sufficient in most circumstances.</p>
Test Page Interval (Server version only):	<p>Visiplex provides optional features that can utilize test pages to determine if various components of the system are working. If an optional feature has been purchased that utilizes test paging, the System Administrator can set the Test Page Interval with this feature. To set the number of seconds between test pages, click the box  and enter the appropriate number – or – click the “up arrow” or “down arrow”. This is a standard option that is active on all VNS5100s.</p> <p>Note: The maximum interval between test pages is 60 seconds.</p>
Network Alert Expiration Time (minutes) (Server version only):	<p>The System Administrator can set the number of minutes that must expire before an alert broadcast is removed from the message broadcast queue. This feature allows the System Administrator to set the length of time the VNS2000 software will allow an alert to remain in the system queue before it is removed. The interval is calculated from the time that the alert message is sent to the queue by the User.</p> <p>To set the number of minutes, click the box  and enter the appropriate number – or – click the “up arrow” or “down arrow”.</p>
Allow TAP Manual Mode (Server version only):	<p>In certain unique circumstances, a TAP manual mode needs to be initiated. The System Administrator can allow the tAP manual mode by activating this feature.</p> <p>To activate this feature Click the box located before the words “Allow TAP Manual Mode”.</p>
Send Every (Call Sign, Server version):	<p>In certain unique circumstances, a “Call Sign” needs to accompany a message broadcast. The call sign feature allows the System Administrator to send a call sign to a certain device in given intervals. To activate this feature Click the box located before the words “Allow TAP Manual Mode”.</p> <p>To activate this feature Click the box located before the words “Send Every” and set the number of minutes.</p>
Send to Device (Call Sign, Server version):	<p>When a “Call Sign” is needed, this feature determines the device for sending a call sign message.</p>
Call Sign File (Call Sign, Server version):	<p>When a “Call Sign” is needed, this feature determines the file name to be sent as a call sign. The file name can be a text file (.txt) or voice file (.vox or .wav).</p>

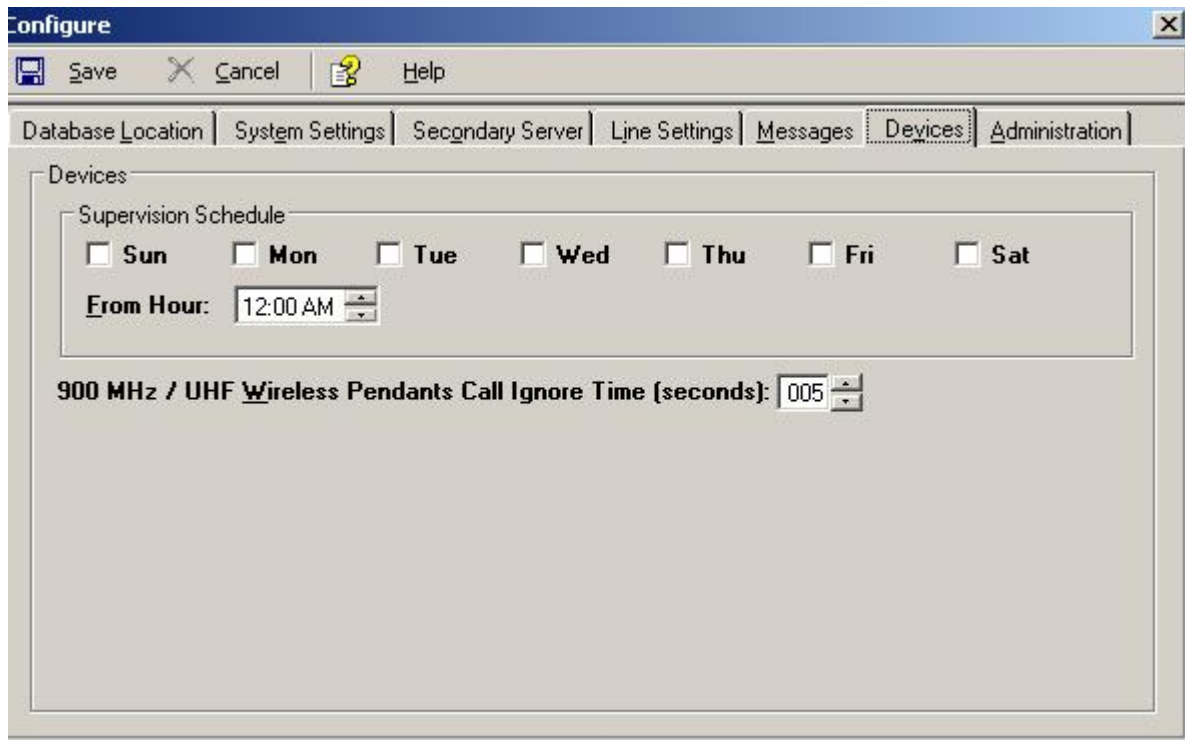
3.1.4.1.6 Devices

The System Administrator has the ability to set various device parameters. The parameters that can be set by the Administrative User are:

- 1) The time when a supervision page will be sent to all system devices. (**Note:** The supervision feature is an optional feature that requires specific software and hardware.).
- 2) The length of time for ignoring duplicate pendant calls.

To access these settings, Click the “Devices” tab located on the Configure Screen. (For the location of this tab, see Picture “P”).

Picture “P” – Configure Screen & Devices Tab



An explanation of each “Messages” feature is set out in the following table. **You should always contact your IT System Administrator before making any changes to these settings.**

<p>Supervision Schedule (Server version only with the Supervision Software and Hardware.)</p>	<p>Visiplex offers an optional software and hardware feature called supervision. Supervision allows the VNS5100 Command Center Server to send a page to each device instructing the device to transmit a page back to the VNS5100 Command Center Server. The VNS5100 Command Center Server will maintain a record of all reporting devices and their settings. The Administrator can then run reports to determine which devices did not report and must be looked at.</p> <p>The “Supervision Schedule” feature allows the Administrator to set the date(s) and time that the VNS5100 Command Center Server will send out a supervision page. To set this feature, click the box To set the number of minutes, click the box containing the time</p> <p>12:00 AM and enter the appropriate time – or – click the “up arrow” or “down arrow”.</p>
<p>900 MHz / UHF Wireless Pendants Call Ignore Time (seconds) (Server version only):</p>	<p>An optional feature available with the VNS5100 Command Center Server is the broadcast of alert messages when a wireless pendant is activated. If this option is purchased, the VNS2000 software can send out alert messages when data is received from a wireless pendants. Some wireless pendants (such as 900 MHz) are designed to repeatedly send out data when the pendant is activated. The receipt of this duplicate data can cause the VNS2000 software to broadcast multiple alerts messages. To avoid sending multiple</p>

	<p>alerts, the Administrative User can set the "Ignore Time Interval" to ignore data from a wireless pendant for set number of seconds after receiving the first set of data.</p> <p>To set the number of seconds, click the box <input type="text" value="062"/> and enter the appropriate number – or – click the "up arrow" or "down arrow".</p> <p>Note: The VNS2000 software has a default setting of 5 seconds. You can use System Monitor to optimize this setting even though the default of 5 seconds should be appropriate in most cases.</p>
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3.1.4.1.7 Administration

The Administration tab allows the System Administrator to set important administrative settings. These settings are:

- 1) The administrator's email address.
- 2) The administrator's device.
- 3) The administrator's password
- 4) The no activity warning message and time interval.

To access these settings, Click the "Administration" tab located on the Configure Screen. (For the location of this tab, see Picture "Q").

Picture "Q" – Configure Screen & Administration Tab

An explanation of each "Administration" feature is set out in the following table. **You should always contact your IT System Administrator before making any changes to these settings.**

Administrator Email (Server version only):	The VNS2000 software can automatically send an email alert when a problem occurs that requires the Administrator's attention
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	To receive the automatic email alert, enter the administrator's email address in the text box.
Administrator Device (Server version only):	<p>The VNS2000 software can automatically send an alert to a device when a problem occurs that requires the Administrator's attention. The device must be currently programmed into the VNS2000 Software. It is recommended that the device be a pager or signboard, as a speaker can only play an embedded message.</p> <p>To have an automatic alert be sent to a particular administrator device, enter the device ID in this field.</p>
Administrator Password (Server version only):	<p>The Administrator can require a password to be entered before a user can login to the software and gain access to the administrative screens.</p> <p>To require users login using a password, enter the password in the text box that is no more than 10 characters. The password can be a combination of letters (upper and lower case) numbers and special characters.</p> <p>Note:</p> <ol style="list-style-type: none"> 1) The default password is blank, meaning that nothing is typed into the password text box before Clicking okay. 2) Always write down the password and keep it in a secure place.
Send Warning if No Activity Detected within (No Activity Warning, Server version):	<p>The VNS2000 software can send an alert to the administrator device and email when a no activity is detected within a specified period of time. This field determines the time interval to elapse before a warning alert is sent.</p> <p>To activate the "No Activity Warning" feature, Click on the box located to the left of the words "Send Warning if No Activity Detected" and then set the number of minutes within which the feature will be activated.</p> <p>Note:</p> <ol style="list-style-type: none"> 1) This "No Activity Warning" feature only indicates that there was no alert request from any source (network users, serial port, TELEPHONE LINE , etc.). It does not provide an indication if an alert was actually sent via the transmitter or serial port. 2) Outlook Express account must be set and active. 3) The Administrator Device and/or Administrator Email must be valid. For Example, if the administrator email address is wrong, then your Outlook or Outlook Express will receive a message tht the email was undeliverable. The VNS2000 software will not be effect by sending of an incorrect email.
Message	<p>The Administrative User can type out the message to accompany the "No Activity Warning" alert.</p> <p>To create a message, type the message to be displayed in the text box located to the right of the word "Message".</p>

3.1.5.1 Email Forwarding & User Information Command Features (Optional)

The VNS5100 Email Forwarding Feature allows the Central Command Center Server to analyze an email and activate a device based upon: a) The sender of the email; and b) Keyword in the title of the email message. The System Administrator can set the following parameters when using this feature:


- 1) Activate or deactivate the forwarding of new email messages.
- 2) Monitor an email account to trigger the automatic broadcast of alert message(s).
- 3) Establish a Keyword and Sender filter that will trigger the automatic broadcast.
- 4) Set the time interval for the system to check an email account for messages.
- 5) Include user information at the beginning or end of an alert.

To access these settings, Click the word "Setup" in the Main Screen. A dropdown will appear. Click the on the words "Email Forwarding & User Information". (Picture "R" provides an example of the "Email Forwarding & User Information" screen.).

Picture "R" – Email Forwarding & User Information

An explanation of each "Email Forwarding & User Information" feature is set out in the following table. **You should always contact your IT System Administrator before making any changes to these settings.**

User Information:	<p>The VNS2000 software allows a System Administrator to place a particular string of characters before or after the email alert.</p> <p>To create the string of characters, type the characters in the text box located to the left of the words "User Information"</p>
Append Information to:	<p>The System Administrator can activate the "User Information" feature by Clicking the checkbox that appears before the words "Append Information To"</p> <p>The user will then need to select whether the string should be included at the Beginning of Message or End Of Message. This can be done by Clicking the circle before either option.</p>
Activate Email Forwarding:	<p>The VNS2000 software can be programmed to automatically send out an alert broadcast to one or more devices. This alert broadcast is done through the activation of a Device ID when a specific keyword and/or sender is found in an email message that is sent to the VNS5100 Outlook Express Inbox.</p>

	<p>To activate/deactivate the Email Forwarding feature, Click the box located before the words "Activate Email Forwarding"</p> <p>Note: If this feature is activated, the VNS2000 software will automatically check for unread messages in its Outlook Express Inbox and will then send an instant alert to the device entered in the Send to Device field (See below).</p>
Send to Device:	<p>This feature allows the System Administrator to designate a Device to which email messages should be sent.</p> <p>To designate the Device, type in the four-digit Device ID in the text box located to the right of the words "Send to Device".</p> <p>Note: The Device ID can be determined from the list of devices that is displayed on VNS2000 Main Menu screen.</p>
Check for Unread Messages Every nnn Minutes:	<p>This feature determines the time interval to check for unread messages in the Outlook Express Inbox.</p> <p>To set the number of minutes, click the box  and enter the appropriate number – or – click the "up arrow" or "down arrow".</p>
Message Keyword Filter:	<p>The VNS2000 software can filter incoming emails to find if the "subject line" contains a keyword that activates the Email Forwarding feature. (See the above-discussion on "Email Forwarding"). If a keyword filter is defined, only emails that contain that keyword in their subject line will be forwarded to the device. (See the above-discussion on "Designating a Device"). Emails that do not contain this keyword will be ignored.</p> <p>To designate a "keyword", type the word in the text box located to the right of the words: "Message Keyword Filter".</p> <p>Note:</p> <ol style="list-style-type: none"> 1) Leave this field empty to forward all emails to the user device. 2) The keyword can not contain spaces and can be as long as 20 characters. 3) The email will be considered valid for forwarding if the keyword is found at any location in the email's subject line.
Force Email Download:	<p>If this checkbox is checked, VNS2000 software will automatically try to connect to your email service and download new messages. If this checkbox is unchecked, you will have to download the messages manually or leave your email software running and configure it to check for new messages periodically. VNS2000 software will send the unread message only (these messages appear in bold font in your Inbox) to the selected device. After the messages are sent, they will be marked as read in your inbox.</p> <p>Note: "The Remember Password" in the Incoming Mail Server section of your email software, under the email account properties, must be checked in order for the Email Forwarding command to work without user intervention. Otherwise, you will be prompted to enter the password each time an account is checked for new messages. Email Forwarding command is compatible with Outlook Express. It is not guaranteed to be compatible with other email software programs.</p>

3.1.5.2 System Configuration

The VNS2000 software allows the System Administrator to view and modify configurations of various serial ports and line settings. The System Administrator can also send a system test page.

To view and configure these settings or to send a test page, Click the word "Setup" in the Main Screen. A dropdown will appear. Click the on the words "System Configuration". Another dropdown box will appear and Click on the setting you wish to configure.

3.1.5.3 Serial Port Settings

Serial port settings can be accessed by clicking the words "Serial Port Settings" when the second dropdown appears. The Serial Port Setting Screen will appear. Double click on the serial port you wish to modify to make any changes. (Picture "S" contains a an example of the Serial Port Settings - Edit screen.).

Picture "S" – Serial Port Settings – Edit - Screen

Serial Port Settings

Serial Port Settings - COM Port 001 - Edit

Save

Cancel

Help

Protocol:

Local TX

Speed:

9600

Databits:

8

Parity:

None

Stopbits:

1

Description:

COM 001

Options

Page Priority:

1 - Min

Device ID Length:

4

Communication Type:

Output

Process Message from Character:

0001

Limit Message Length to

9999

Characters

Protocol Options

☐
Assign and Monitor Alarm Points from

001

to

000

Validate

☐
Send Time Synchronization Signal between

01:00 AM

and

04:00 AM

Read Settings

☐
Synchronize Encoder to PC Time Daily

Synchronize

☐
Use Secure Mode Key of

000

An explanation of each Serial Port Settings is set out in the following table. **You should always contact your IT System Administrator before making any changes to these settings.**

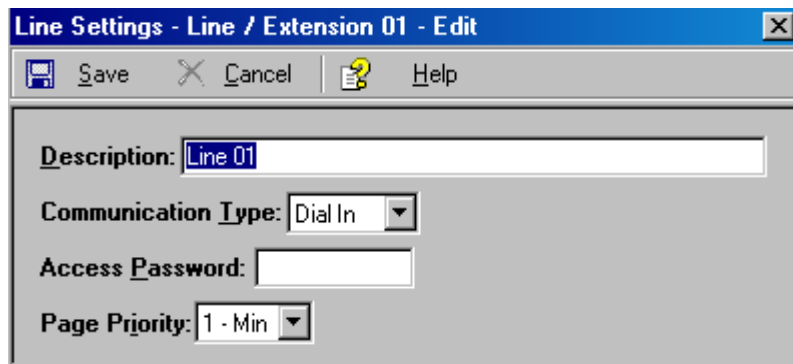
Com:	Designates the Communications Port
Protocol:	Determines the protocol running on the serial port.
Speed:	Determines the serial port speed (Baud rate). This should normally be set to 9600.
Databits:	Determines the serial port Databits. This should normally be set to Eight (8).
Parity	Determines the parity required. This should normally be set to "None".
Stopbits:	Determines the serial port Stopbits. Typically set to 1.
Description:	Determines the protocol description as it will show in reports.
Priority (Options):	Determines the priority of the alerts sent by activity on the serial port.
Device ID Length (Options):	Determines the length of the device field in messages sent using protocols such as Visiplex, Dukane, COMP2 etc.
Communication Type (Options):	Some protocols allow not only receiving information but also sending information using the selected protocol. All protocols allow Input but Visiplex, Data Stream Analyzer, COMP1 and

	COMP2 also allow Output, which means you can send paging requests or data to the serial port using the selected protocol.
Process Message from Character (Options):	This option allows you to determine if the message received will be sent as is or if some characters will be eliminated from the message to the device. This feature is helpful when connecting to systems that send some character at the beginning of the message that are not required.
Limit Message Length to (Options):	This option allows you to determine if the message received will be sent as is or if only a specific number of characters will be sent to the device as the message (starting at the character indicated in Process Message from Character field).
Assign and Monitor Alarm Points from nnn to nnn (Protocol Options):	Determines if an Alarm Point module or Local TX with alarm points are installed and should be monitored. The range of the alarm points assigned should correspond to the same range of Alarm Points under Event Triggers. For example, if the assigned range is 005 to 028, then in order to generate an alert when an alarm is triggered, alarm points 005 to 028 should be programmed (Note , for more information see Alarm Points – Section 3.1.6.1.).
Validate (Protocol Options):	Verifies the presence of a module or transmitter that supports alarm points and the number of alarm points supported. Output ID= Suffix (Protocol Options): Determines the character that will be sent by the system when sending ID= (TAP protocol only). The default character is <CR> (ASCII 13).
Output Results to Serial Port (Protocol Options):	Determines if the transaction result should be sent by the system to the serial port (Visiplex protocol only). Some external systems (such as the VS1505) may require disabling this option.
Row Delimiter (Protocol Options):	Determines the character that indicates the end of an input string when using Data Stream Analyzer protocol. When this character is detected, VNS2000 will start processing the input string and will respond to it accordingly. If the row delimiter required is <CR><LF> use <LF> as a row delimiter. The <CR> and <LF> characters are ignored when processing the input string.
Use Visiplex Protocol as Alternative (Protocol Options):	Determines if the system should process the input from the serial port as a Visiplex protocol if no match is found for the keyword (Data Stream Analyzer protocol only).
TNPP Source ID (Protocol Options):	Determines the source ID to be used in by the TNPP protocol running on the selected serial port (TNPP protocol only).
TNPP Dest ID (Protocol Options):	Determines the destination ID to be used in by the TNPP protocol running on the selected serial port (TNPP protocol only).

3.1.5.4 Line Settings

Line settings can be accessed by clicking the words "Line Settings" when the second dropdown appears. (See the discussion set out at the beginning in Section 3.3.1.2). The Line Setting Screen will appear. Double click on the serial port you wish to modify to make any changes. (Picture "T" contains a an example of the Line Settings – Edit screen.).

Picture "T" –Line Settings – Edit - Screen



An explanation of each field of the Line Setting feature are set out in the following table. **Note: You should always contact your IT System Administrator before making any changes to these settings.**

Description:	The telephone line description as it will show in reports.
Communication Type:	Determines if the specific line is assigned to answer calls (Dial In) or dial out to a PABX extension or telephone number and play a voice message.
Access Password:	Determines if users are required to enter a numeric password (up to 10 digits) in order to access the system and send an alert using the selected telephone line.
Page Priority:	The priority of the alerts sent by activity on this telephone line. Note: This command is available only in the Server version and if installed on the system.

3.1.5.5 Transmitter Cover Page

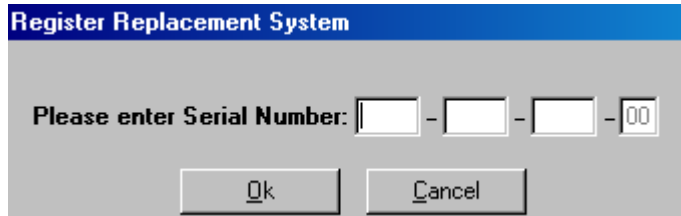
The VNS2000 software allows the System Administrator to send a coverage test for a particular Device ID. To initiate a coverage test, perform the following actions:

- 1) Select the Device ID you wish to test. (The Device ID can be selected from the list of devices that is displayed on VNS2000 screen.).
- 2) Click on the word "Setup" located on the Main Screen. This will cause a dropdown to appear.
- 3) Click on the words "TX Coverage Test".

The coverage test will be initiated and a System Message popup will appear. Click the Cancel button to stop the coverage test.

3.1.5.6 Register Replacement System

The VNS2000 software allows you to register a replacement encoder to be used with your software. This command displays a dialog box that allows you to set the location of the device database. This command is also used to change system settings (Server version only). You will need to use this feature if you need to use a new or different VNS2500 than your original. The 2500 serial number will be different so the VNS2000 software will need a new license number to work with it.



3.2.1 Preset Messages

The VNS2000 software allows the Administrator to save prerecord voice messages or prewritten text messages that can be easily accessed when creating a new alert voice or text message. There are three types of messages that can be created and stored:

- 1) Alpha-By-Phone Messages.
- 2) Prerecorded Voice Messages.
- 3) Prewritten Text Messages. programmed is being created.or Preset Messages menu offers the following commands: Alpha by Phone Messages, Pre-Recorded Voice Messages, UHF Wireless Pendant Locators and Pre-Programmed Text.

3.2.2 Alpha-By-Phone Messages

The VNS5100 Server allows for a Administrator to use a phone to dial into the server and activate a prewritten text message. The message will be sent to which ever device number you enter in the telephone prompt. Text can only be sent to a pager or signboard.

The Administrator can perform the following actions to access the Alpha-By-Phone screen. Click the word "Preset Messages" located in the Top Menu. This will cause a dropdown to appear. Click on the words "Alpha By Phone Messages". The Alpha-By-Phone Message screen will appear. Double click on the message you wish to create or modify. (Picture "U" contains a an example of the Alpha-By-Phone Message – Edit screen.).

Picture "U" – Alpha-By-Phone – Edit - Screen



An explanation of each of the Alpha-By-Phone settings are set out in the following table. **Note: You should always contact your IT System Administrator before making any changes to these settings.**

Message Text	<p>This feature allows the Administrative User to type in a text message that will be sent when the user enters the message code preceded by asterisk.</p> <p>To enter a text message, click the text box located to the right of the words "Message Text" and start typing the messages. There is a limit of 200 characters for this text box. You should also check the specifications of the pagers that will receive the text. Many pagers have a limit on the amount of characters that can be displayed.</p>
Page Priority:	<p>The VNS2000 software allows the Administrator to set the priority of an alert message. When a series of alert messages are requested to be transmitted, the VNS2000 will then send out the highest priority messages first, in a "First-In/First-Out" manner.</p> <p>To assign a "Page Priority", click on the dropdown box located to the right of the words "Page Priority" and select the priority level.</p>
Active:	<p>The Administrator can activate/deactivate a given Alpha-By-Phone message. If a message is not active, it will not be accessible when the Administrator dials into the system.</p> <p>To activate the Alpha-By-Phone message, Click on the box to the left of the word "Active".</p>

3.2.3 Prerecorded Voice Message

The VNS2000 software allows the Administrator to prerecord messages that can be selected when an alert voice message is created. This feature allows the Administrator to lessen the chance that User will need to create voice messages during an emergency situation.

The Administrator can perform the following actions to create a Prerecorded Voice Message. Click the word "Preset Messages" located in the Main Screen. This will cause a dropdown to appear. Click on the words "Pre-Recorded Voice Messages". The Prerecorded Voice Message screen will appear. (Picture "V" contains a an example of the Prerecorded Voice Message – Edit screen.).

Picture "V" – Prerecorded Voice Message – Edit - Screen

The screenshot shows a software window titled "Pre-Recorded Voice Messages - Message 001 - Edit". At the top, there is a standard Windows-style title bar with a close button (X). Below the title bar is a menu bar containing three items: "Save" (with a floppy disk icon), "Cancel" (with an X icon), and "Help" (with a question mark icon). The main content area of the window is divided into three sections. The first section is labeled "Description:" and has a text input field containing the text "Severe Weather Alert". The second section is labeled "Page Priority:" and has a dropdown menu currently displaying "Source". The third section is labeled "Active:" and features a checkbox that is currently checked.

An explanation of each of the Prerecorded Voice Message functions are set out in the following table. **Note: You should always contact your IT System Administrator before making any changes to these settings.**

Edit:	<p>The VNS2000 software allows the Administrator to enter the following:</p> <ol style="list-style-type: none"> 1) Create or change the description of the Prerecorded Voice Message. 2) Set the Page Priority of the Prerecorded Voice Message. (Note: The VNS2000 software allows the Administrator to set the priority of an alert message. When a series of alert messages are requested to be transmitted, the VNS2000 will then send out the highest priority messages first, in a "First-In/First-Out" manner.) 3) Activate/Deactivate the Prerecorded Voice Message. <p>To enter or change the description or settings, click on the Prerecorded Voice Message you wish to change and then click the word "Edit" found along the top of the Prerecorded Voice Message screen.</p> <p>Notes: First, if the Page Priority of the Prerecorded Voice message is different than the Page Priority of the Device ID, the Page Priority for the Prerecorded Voice Message will be used. Second, if the voice message is not active, it will not be accessible to the Users.</p>
Play:	Play the selected Voice Message.
Stop:	Stop the playing or recording of the selected Voice Message
Record:	Record the selected Voice Message.

Note: You should always contact your IT System Administrator before making any changes to these settings.

3.2.4 UHF Wireless Pendants Locators

The VNS2000 software allows the Administrator to add the location of the user that activated the pendant to the message sent by the UHF pendant. The message to the device will be constructed from the pendant pre-programmed message and the locator information as programmed in to the system. For example, if the pendant message is "Mr. Smith " and locator #1 Message Text is "2nd Floor", the message to the device will be "Mr. Smith – 2nd Floor".

The Administrator can perform the following actions to access the UHF Wireless Pendants Locators: Click the words "Preset Messages" in the Main Screen and then click on the words "UHF Wireless Pendants Locators" when the dropdown appears. The UHF Wireless Pendants Locators screen will appear. Double click on a line to display the UHF Wireless Pendants Locators – Edit screen (Picture "W" contains an example of the UHF Wireless Pendants Locators – Edit screen.).

An explanation of each of the UHF Wireless Pendants Locators functions are set out in the following table. **Note: You should always contact your IT System Administrator before making any changes to these settings.**

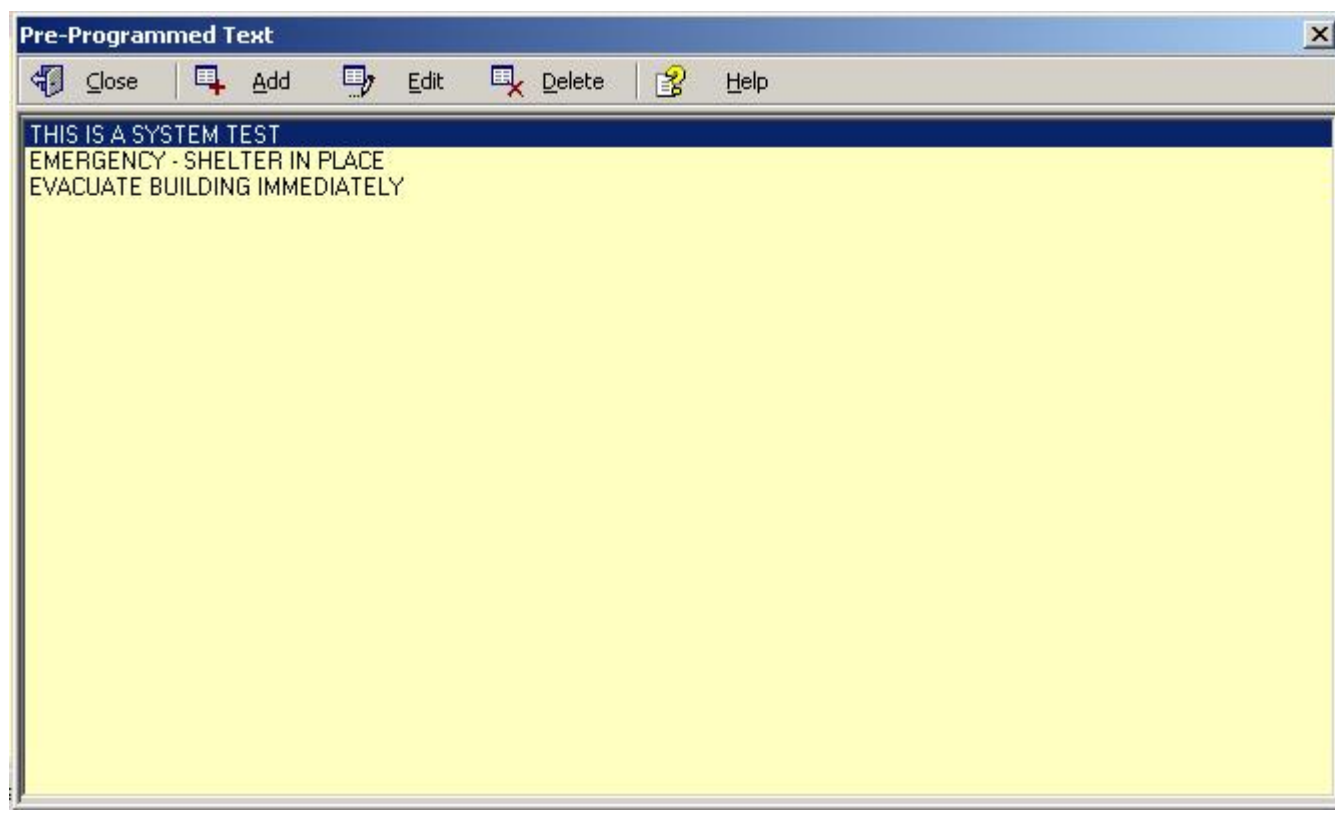
Description:	Locator description.
Message Text:	Determines the message that will be added to the pendant message and sent by the system.
Active:	Indicates if the locator is active or not.

3.2.5 Preprogrammed Text

The VNS2000 software allows the Administrator the ability to create preprogrammed phrases that can be used by all users when creating or editing a text message to be sent to an Alphanumeric Display, Pager, Computer Network Popup or Email.

The Administrator can perform the following actions to create Preprogrammed Text. Click the word "Preset Messages" located in the Main Screen. A dropdown will appear. Click on the words "Pre-Programmed Text". The Pre-Programmed Text screen will appear and all saved text messages will appear in the order they were created. Double click on a line to display. This will cause the Pre-Programmed Text – Edit screen. You can also create a new preprogrammed text message by clicking the word "Add" in the menu located in the grey-shaded area. (Picture "W" contains a an example of the Pre-Programmed Text screen.).

Picture "W" – Pre-Programmed Text – Screen



An explanation of each of the Preprogrammed Text Message functions are set out in the following table. **Note: You should always contact your IT System Administrator before making any changes to these settings.**

Add:	To create a new message, click on the word "Add", which is found on the top menu of the Pre-Programmed Text screen. The Pre-Programmed Text – Add screen will appear. Type the new text message in the box located to the right of the word "Text" and click the word "Save". Note: Text messages can contain up to 100 characters.
Edit:	To edit an existing message either 1) Click on the message to be edited and click the word "Edit" on the top menu of the Pre-Programmed Text screen – or - double click the message you wish to edit. This will cause the Pre-Programmed Text – Edit box to appear. Delete the old message and type in the new message. Click the word "Save" to complete the edit. Note: Text messages can contain up to 100 characters.
Delete:	To delete an existing message, click on the message to be deleted. Click the word "Delete", which is found on the top menu of the Pre-Programmed Text screen. A system message popup will appear. Click on the "Yes" button to delete the existing message.

3.3.1 Event Triggers

The VNS2000 software allows can be preprogrammed by the Administrator to automatically perform one or more actions based upon a trigger or scheduled event. The Event Triggers menu offers the following commands: Alarm Points, Serial Port Data Stream, 900 MHz / UHF Wireless Pendants and Scheduled events. The Administrator may need to purchase additional hardware in order for the trigger to activate the VNS2000 software.

To access this functionality, click on the word “Event Triggers” found on the Main Screen. A dropdown will appear. You can then select the settings or features you wish to modify from the following list:

- **Alarm Points – Optional**
- **Serial Port Data Stream - Optional**
- **900 MHz/UHF Wireless Pendants - Optional**
- **Schedule Events**

3.3.2 Alarm Points (Optional Hardware Required)

Alarm points are setup to receive a signal from another system of a potential or ongoing emergency situation exists. The Administrator can preprogram the VNS2000 software to automatically initiate one or more alerts when an alarm point is activated. This preprogramming is created through the Alarm Points screen. (**Note:** The minimum hardware requirements to setup alarm points are: 1) An open Serial Connector on the VNS5100 server and 2) VS1800 expansion board.).

To create or edit an Alarm Point, click the words “Event Triggers” on the Main Screen. Click on the words “Alarm Points” in the dropdown box. This will cause the Alarm Points screen to appear. Click on the Alarm Point you wish to setup or modify, and then click the word “Edit”. This will cause the Alarm Points – Edit screen to appear. This screen will allow you to create or modify an alarm point. (Picture “X” contains a an example of the Alarm Points – Edit screen.).

Picture “X” – Alarm Points – Screen

An explanation of each of the Alarm Points feature are set out in the following table. **Note: You should always contact your IT System Administrator before making any changes to these settings.**

<p>Send To Device:</p>	<p>The VNS2000 software allows the Administrator to assign a "Device ID#" to a specific alert message. (See, Section: 3.1.7 Devices - Wireless Device Database Programmer for a detail discussion of Device ID Numbers and creating alert messages.). The Alarm Point – Edit screen allows an Administrator to enter a Device ID in the box located to the right of the words, "Send To Device". When an alarm point is activated, the VNS2000 software will automatically initiate the alert message or activate the control device associated with the Device ID.</p> <p>For example: Alarm Point #001 has Device ID #5454 entered in the box to the right of the words - "Send To Device" box. Device ID #5454 will cause a voice message to be broadcast over all speakers. When Alarm Point#-101 is activated, the VNS2000 software will automatically send out the preprogrammed voice message setup for Device ID#-5454.</p> <p>Note: All Device ID#s must be 4 digits.</p>
<p>Repeat Time:</p>	<p>The VNS2000 software allows the Administrator to send a repeat alert when a specific alarm point is activated. The alert will be repeated at the selected interval until the alarm status is changed.</p> <p>To select a repeat time, click on the down arrow located to the right of the words "Repeat Time". This will cause a dropdown to appear. Click on the number of minutes between alerts. To view additional choices, move the rectangle up or down the scroll bar.</p> <p>Note: The Device ID may also provide for a specific voice message to be</p>

	repeated. If this is the case, the "Repeat Time" will cause the VNS2000 software to activate the Device ID at the selected interval and the voice message to be repeated based upon the Device ID setting.
Message Text:	<p>The VNS2000 software allows the Administrator to create a specific text message that will be sent out through the Device ID. This text message will override any specific text message that has been set up for the Device ID. If the Device is not a Text Device (pager, signboard), then the device will activate with its default parameters – i.e., a strobe will activate until cancelled if that is its default.</p> <p>To create a specific text message, type the message in the box located to the right of the words 'Message Text'.</p>
Activation Plan:	<p>Certain alarm systems require an activation plan. This activation plan provides for a specific period when the alarm point is active or inactive. The VNS2000 software allows the Administrator to set each alarm point consistent with the alarm system's schedule.</p> <p>To set the Activation Plan, click on the dropdown located to the right of the words "Set Plan to". Select the appropriate schedule to be applied and select the appropriate days and hours.</p> <p>Note: When the "To Hour" is earlier than the "From Hour", the system will assume it applies to the next day. For example, if you set the schedule to from 09:00 AM to 07:00 AM, it will apply from 09:00 AM to 07:00 AM the next day.</p>
Page Priority:	Priority assigned to the specific alert. If the priority is different than "Source", it will override the priority of the source generated the alarm point. For example, if the serial port triggered has a priority of 3, the alert priority will be also 3 unless it is different than "Source".
Use Device Default Settings:	Determines if the alert sent to the designated device should use the device's alert default parameters. If this option is checked, the Message Text is ignored.
Active:	Determines if the alarm points is active. If it is not active, no alert will be sent when it is triggered.

3.3.3 - Serial Port Data Stream

Certain monitoring systems send messages through a free-text data stream. Visiplex's Serial Port Data Streams feature can monitor a data stream and initiate one or more preprogrammed alert message(s). Visiplex's VNS2000 software can be set up to look for one or more specific strings of character ("Keywords") received from a data stream. If the specific keywords are found in the data stream, then one or more alert messages are initiated.

For example, Visiplex's VNS2000 software is programmed to monitor a data stream from a security monitoring alarm system. The Administrator sets up the Serial Port Data Stream feature to look for the keywords "Alarm1-BuildingA" in the security system's data stream. If the security system sends a warning "Alarm1-BuildingA" through the data stream, VNS2000 software will detect this keyword and automatically send one or more preprogrammed alert message created by the Administrator.

To create or edit an Serial Port Data Stream, click the words "Event Triggers" on the Main Screen. Click on the words "Serial Port Data Stream" in the dropdown box. This will cause the Serial Port Data Stream screen to appear. Click on the "Key Word" line item you wish to setup or modify, and then click the word "Edit". This will cause the Serial Port Data Stream – Edit screen to appear. This screen will allow you to create or modify a specific "Key Word" line item. (Picture "Y" contains a an example of the Serial Port Data Stream – Edit screen.).

Picture "Y" – Serial Port Data Stream – Edit Screen – Screen

An explanation of each of the Alarm Points feature are set out in the following table. **Note: You should always contact your IT System Administrator before making any changes to these settings.**

<p>Send To Device:</p>	<p>The VNS2000 software allows the Administrator to assign a "Device ID#" to a specific alert message. (See, Section: 3.1.7 Devices - Wireless Device Database Programmer for a detail discussion of Device ID Numbers and creating alert messages.). If the Keyword is detected in a data stream, the VNS2000 will send an alert to the assigned Device ID#.</p> <p>To enter the Device ID# to be activated, type in the four digit Device ID# into box located next to the words "Send To Device".</p> <p>(Note: 1) A Device ID# can be triggered by one or more keywords. For example Keyword line "1" could trigger Device ID#1010 when the words "Door1-BuildingA" is detected <u>and</u> Keyword line "2" could also trigger the same Device ID#1010 when the words "Door2-BuildingA" is detected. 2) If the selected device does not support alphanumeric messaging, the alert will be generated according to the device's alert default parameters. For example Device ID#1010 is set up to trigger an "intrusion alert" voice message to be played by all speakers located in building "A").</p>
<p>Keyword Text:</p>	<p>The Administrator can enter the Keyword(s) to be looked for in the box located to the right of the word "Keyword".</p> <p>To enter the Keyword(s), type the word or words into the box.</p> <p>Note: The Keyword text box holds upto 50 Characters, which can be either alphabetical (Upper & lower case) numerical and/or special characters.</p>
<p>Message Text:</p>	<p>The Administrator can choose a Device ID# that will initiate a single text message to one or more LED signboards or pagers. The VNS2000 software allows the Administrator to enter a specific alphanumeric text message that overrides an existing text message assigned to the Device ID.</p>

	<p>To enter a specific message text, type the text message into the box located next to the words "Message Text".</p> <p>The Message text box holds upto 50 Characters.</p>
Case Sensitive Comparison (Server version only):	<p>The VNS2000 software can be set to differentiate between upper case (ABC) and lower case (abc) letters when processing an data steam.</p> <p>To activate this feature, click on the box to the left of the words "Case Sensitive". To deactivate this feature, click on the box only if a check mark appears.</p> <p>(Example: The Keyword Text is Door1-BuildingA and the Case Sensitive box is checked. No alert would be initiated when the words door1-buildinga is received because the "D", "B" and "A" were not capitalized.)</p>
Exact Match Only (Server version only):	<p>The VNS2000 software can be set to only initiate an alert when only an exact match occurs between the "Keyword(s)" and the "data stream".</p> <p>To activate this feature, click on the box to the left of the words "Case Sensitive". To deactivate this feature, click on the box only if a check mark appears.</p> <p>(Example: 1) The Keyword text is BCDE and the Exact Match box is checked. An alert would <u>not</u> be initiated when the data stream receives a single input string of ABCDEF because "BCDE" does not exactly match "ABCDEF". 2) The Keyword text is BCDE and the Exact Match box is <u>not</u> checked. An alert would be initiated when the data stream receives a single input string of ABCDEF because "BCDE" is contained in the characters "ABCDEF".).</p>
Page Priority:	<p>The VNS2000 software allows the Administrator and/or Designated Users to simultaenously initiate multiple alerts. The Administrator can prioritize which of the alerts will go out first through the "Page Priority" feature. (See, Section: 3.1.7 Devices - Wireless Device Database Programmer for a detail discussion of the "Page Priority" feature.). The Administrator can override the "Page Priority" level set for a particular Device ID#, by setting changing the default setting from "Source" to a number 1 to 9.</p> <p>To override the "Page Priority" setting of the particular Device ID#, select the specific priority level from the dropdown. 1-Min is the lowest priority and 9-Max is the highest priority.</p> <p>(Example: Device ID#1010 has a "Page Priority" level of 3. The Administrator uses the Serial Port Data Stream feature to have the VNS2000 software to look for the Keyword "Floor1-BuildingA" in the data stream from the Security Monitoring System. If the Administrator leaves the "Page Priority" dropdown to source, then the priority level of 3 will be used. If the Administrator sets the "Page Priority" dropdown to 5, then the priority level of 5 will be used.).</p>
Use Device Default Settings:	<p>The VNS2000 software allows the Adminitrator to choose whether to send the typed text message when the Keyword(s) are detected in a data stream. The VNS2000 software will only send the typed text message when the box located in front of the words "Use Device Default Settings" is</p>

	<p>checked.</p> <p>To activate the sending of the typed text message, click the box in front of the words "Use Device Case Sensitive". To deactivate this feature, click on the box only if a check mark appears.</p> <p>If this field is left empty, the alphanumeric message will be the same as the keyword text received. If the device is a speaker or strobe, then the devices default settings will be used.</p>
Active:	<p>The VNS2000 software will only send active Keyword line items.</p> <p>To activate the sending of the alert message to the Device ID#, click the box in front of the word "Active". To deactivate this feature, click on the box only if a check mark appears.</p> <p>(Note: If the Administrator saves the entries and the box in front of the word "Active" is not checked, then a system message box will appear. If you wish to have the data stream keyword active, click on the button with word "Yes". If you wish to not have the data stream keyword inactive, click on the button with the word "No".).</p>

3.3.4 - 900 MHz / UHF Wireless Pendants

The VNS2000 software allows the Administrator to program alerts that will be sent as a result of the activation of a wireless pendant.

To create or edit a wireless pendant programmed alert, click the words "Event Triggers" on the Main Screen. Click on the words "900 MHz/UHF Wireless Pendants" in the dropdown box. This will cause the 900 MHz/UHF Wireless Pendants screen to appear. Click on the pendant device number you wish to setup or modify, and then click the word "Edit". This will cause the 900 MHz/UHF Wireless Pendants – Edit screen to appear. This screen will allow you to create or modify a specific "Key Word" line item. (Picture "Z" contains an example of the 900 MHz/UHF Wireless Pendants – Edit screen.).

Picture "Z" – 900 MHz/UHF Wireless Pendants – Edit Screen – Screen

900 MHz / UHF Wireless Pendants - Pendant 001 - Edit

Save Cancel Help

Pendant Code: 0000201 Send to Device: 0006 Repeat Time: None

Message Text: Assistant Required in Room 201

Device Additional Status

☒ Report Call Cancel to Device: 0005

☒ Report No Activity to Device: 0005 No Activity Timeout (minutes): 1440

☒ Report Low Battery to Device: 0005

Pendant Description: Room 201

Activation Plan

Set Plan to: Always Active

☒ Sun ☒ Mon ☒ Tue ☒ Wed ☒ Thu ☒ Fri ☒ Sat

From Hour: 12:00 AM To Hour: 12:00 AM

Page Priority: Source

☐ Use Device Default Settings

☒ Active

An explanation of each of the Alarm Points feature are set out in the following table.

Note: You should always contact your IT System Administrator before making any changes to these settings.

Pendant Code:	<p>Visiplex provides each pendant with a unique code.</p> <p>To enter the unique pendant code, enter the pendant code in the box located to the right of the word - "Pendant Code".</p> <p>(Note: The pendant code normally is a 7-digit number. For UHF pendants enter the 7 digit capcode of the pendant.).</p>
Send To Device:	<p>The VNS2000 software allows the Administrator to assign a "Device ID#" to a specific alert message. (See, Section: 3.1.7 Devices - Wireless Device Database Programmer for a detail discussion of Device ID Numbers and creating alert messages.). If the Administrator sets up an alert to be broadcast when a specific wireless pendant is activated, the VNS2000 software will trigger the assigned Device ID# to initiate an alert message broadcast.</p> <p>To enter the Device ID#, type in the four-digit Device ID# into box located next to the words "Send To Device".</p> <p>Notes:</p> <p>First, a Device ID# can be triggered by one or more wireless pendants. For example Pendants #076701 and #076702 can</p>

	<p>both be set up to trigger Device ID#1010.</p> <p>Second, A pendant can be programmed to trigger more than one Device ID# - by creating multiple entries for the same device. But when that particular pendant is triggered, then all of those devices will be queued to transmit. You will not be able to pick an choose which device goes off.</p>
Repeat Time:	<p>The VNS2000 software allows the Administrator to repeat the initiation of alert messages by the designated Device ID#. This alert will repeat every x-minutes until a cancel call is received from the wireless pendant.</p> <p>To select the interval between each alert, click on the desired time period (1-99 minutes) from the dropdown located to the right of the words "Repeat Time".</p>
Message Text:	<p>The Administrator can choose a Device ID# that will initiate a single text message to one or more LED signboards or pagers. The VNS2000 software allows the Administrator to enter a specific alphanumeric text message that overrides an existing text message assigned to the Device ID.</p> <p>To enter a specific message text, type the text message into the box located next to the words "Message Text".</p> <p>The Message text box holds upto 200 Characters.</p>
Report Call Cancel to Device:	<p>Determines the device to which the Call Cancel alert will be sent (not supported by all pendants). This option is not recommended for momentary switch pendants. It is used for pull cords, which have an activation when pulled and a call cancel when put back into place. Push button pendants will transmit both in rapid succession.</p>
Report No Activity to Device:	<p>Determines the device to which an alert will be sent when there is no activity reported from the pendant during the No Activity Timeout interval. This feature is only to be used with 900 MHz pendants if the pendants have the supervision option enabled in them.</p>
No Activity TimeOut (minutes):	<p>The VNS2000 software can be programmed to periodically determine if a pendant device is active. The VNS2000 software performs this activity by sending a silent page to the device if there has not been any activity detected from the pendant device during a given period of time (between 1-9999 minutes).</p> <p>To activate this feature, click on the box to the right of the words "No Activity Timeout (minutes) and enter the number of minutes. You can also click the up and down arrows to set the time.</p> <p>(Note: 1) The Administrator can set the interval from 1 minute to 9999 minutes. 2) This timeout counter is being reset every time an activity is reported by the pendant, regardless if it was generated by normal activity or by an automated supervision activity. Some pendants can be programmed for automated supervision transmission but it should be used only after performing proper evaluation of the system on site).</p>
Report Low Battery to Device:	<p>Determines the device to which the Low Battery alert will be sent. This option is to be used only with the 900 MHz pendant option. These pendants will send a Low Battery alert when the voltage drops below a certain threshold. Activate this if you want that signal to be transmitted to a certain pager.</p>
Pendant Description:	<p>The VNS2000 software allows the Administrator to provide a</p>

	<p>description to a particular pendant. This pendant description can be used by the system when reporting No Activity and Low Battery.</p> <p>To enter a pendant description, enter the desired description in the box located to the right of the words "Pendant Description".</p>
Activation Plan:	<p>The VNS2000 software allows the Administrator to assign a specific schedule in which a pendant device is active or not active. Some activation plans may also require entry of activity hours.</p> <p>To assign a specific schedule, choose the correct activity plan from the dropdown located to the right of the words – "Set Plan to" and then click the days and hours applicable to the selected activity plan.</p> <p>(Note: 1) The "To Hour" can not be the same as the "From Hour". When the "To Hour" is earlier than "From Hour", the system will assume it applies to the next day. For example, if you set the schedule to from 09:00 AM to 07:00 AM, it will apply from 09:00 AM on Day 1 to 07:00 AM on Day 2 – for each "day" selected.).</p>
Page Priority:	<p>The VNS2000 software allows the Administrator and/or Designated Users to simultaneously initiate multiple alerts. The Administrator can prioritize which of the alerts will go out first through the "Page Priority" feature. (See, Section: 3.1.7 Devices - Wireless Device Database Programmer for a detail discussion of the "Page Priority" feature.). The Administrator can override the "Page Priority" level set for a particular Device ID#, by changing the default setting from "Source" to a number 1 to 9.</p> <p>To override the "Page Priority" setting of the particular Device ID#, select the specific priority level from the dropdown located to the right of the words "Page Priority". (1-Min is the lowest priority and 9-Max is the highest priority.).</p> <p>(Example: Device ID#1010 has a "Page Priority" level of 3. The Administrator uses the 900 MHz/UHF Wireless Pendant to activate Device ID#1010 whenever Pendant Device#-0760101 is activate. If the Administrator leaves the "Page Priority dropdown to source, then the priority level of 3 will be used. If the Administrator sets the "Page Priority dropdown to 5, then the priority level of 5 will be used.).</p>
Use Device Default Settings:	<p>The VNS2000 software allows the Administrator to choose whether to send the typed text message when the pendant device is activated. The VNS2000 software will only send the typed text message when the box located in front of the words "Use Device Default Settings" is checked.</p> <p>To activate the sending of the typed text message, click the box in front of the words "Use Device Case Sensitive". To deactivate this feature, click on the box only if a check mark appears. If there are no characters typed into the Message Text box, will VNS2000 software send a blank message if the Use Device Default Settings is activated.</p>

	Regardless of text, a speaker or strobe will always go with its default settings because it cannot receive or display a text message.
Active:	<p>The VNS2000 software will only initiate an alert to the designated Device ID# when the active box is checked.</p> <p>To activate the sending of the alert message to the Device ID#, click the box in front of the word "Active". To deactivate this feature, click on the box only if a check mark appears.</p> <p>(Note: If the Administrator saves the entries and the box in front of the word "Active" is not checked, then a system message box will appear. If you wish to have the data stream keyword active, click on the button with word "Yes". If you wish to not have the data stream keyword inactive, click on the button with the word "No".).</p>

3.3.5 Scheduled Events

The VNS2000 software allows the Administrator to schedule the activation of a device or group of devices on a regular basis. The scheduled activation can be for a single day of the week or a series of days during the week. The activation will be executed based upon the time that is maintained by the Windows XP software, which is the operating system for the VNS5100 server. To create or edit an activation schedule, click the words "Event Triggers" on the Main Screen. Click on the words "Scheduled Events" in the dropdown box. This will cause the Scheduled Events screen to appear. Click on the name of the scheduled event you wish to setup or modify, and then click the word "Edit". This will cause the Scheduled Events – Edit screen to appear. This screen will allow you to create or modify a specific scheduled event. (Picture "AA" contains an example of the Scheduled Events – Edit screen.).

Picture "AB" – Schedule Event – Edit Screen

An explanation of each of the features on the "Scheduled Events – Edit" screen are set out in the following table. **Note: You should always contact your IT System Administrator before making any changes to these settings.**

Send To Device:	<p>The VNS2000 software allows the Administrator to assign a "Device ID#" to a specific "scheduled event". (See, Section: 3.1.7 Devices - Wireless Device Database Programmer for a detail discussion of Device ID Numbers and creating alert messages.). The specific alert and devices associated with the "Device ID" will be broadcasted when the specific "scheduled event" is activated by the VNS2000 software.</p> <p>To enter the Device ID#, type in the four-digit Device ID# into box located next to the words "Send To Device".</p> <p>Notes:</p> <p>First, a Device ID# can be triggered by one or more wireless pendants. For example Pendants #076701 and #076702 can both be set up to trigger Device ID#1010.</p> <p>Second, more than one scheduled event can be programmed to trigger the same ID#. The User will have set up a different time for each event.</p>
Event Time:	<p>The VNS2000 software allows the Administrator to set an alarm activation to the minute.</p> <p>To set the time of that the alarm is activated, click on the box located to the right of the words "Event Time". You can move between "hours", "minutes" and "am/pm" settings by clicking the left and right directional arrows on your keypad. You can change the settings by clicking the up or down directional arrows on your keypad.</p>
Page Priority:	<p>The VNS2000 software allows the Administrator and/or Designated Users to simultaenously initiate multiple alerts. The Administrator can prioritize which of the alerts will go out first through the "Page Priority" feature. (See, Section: 3.1.7 Devices - Wireless Device Database Programmer for a detail discussion of the "Page Priority" feature.). The Administrator can override the "Page Priority" level set for a particular Device ID#, by changing the default setting from "Source" to a number 1 to 9.</p> <p>To override the "Page Priority" setting of the particular Device ID#, select the specific priority level from the dropdown located to the right of the words "Page Priority". (1-Min is the lowest priority and 9-Max is the highest priority.).</p> <p>(Example: Device ID#1010 has a "Page Priority" level of 3. The Administrator uses the 900 MHz/UHF Wireless Pendant to activate Device ID#1010 whenever Pendant Device#-0760101 is activate. If the Administrator leaves the "Page Priority dropdown to source, then the priority level of 3 will be used. If the Administrator sets the "Page Priority dropdown to 5, then the priority level of 5 will be used.).</p>
Active:	<p>The VNS2000 software will only intiate an alert to the designated Device ID# when the active box is checked.</p> <p>To activate the sending of the alert message to the Device ID#, click the box in front of the word "Active". To deactivate this feature, click on the box only if a check mark appears.</p> <p>(Note: If the Administrator saves the entries and the box in front of the word "Active" is not checked, then a system message box will appear If you wish to to have the data stream keyword active, click on the button with word "Yes". If you wish to not have the data stream keyword inactive, click on the button with the word "No".)</p>

3.4 Tools

The VNS2000 software provides the Administrator with certain screens that can be used to enhance the Administrator and other users' ability to utilize the software. These screens can be accessed by clicking on the word "Tools" found on the top menu of the Main Screen. When the word "Tools" is clicked, a dropdown will appear. You can then select the following screens from the dropdown:

- **Device Database Programmer**
- **900 MHz Wireless Pendants Programmer**
- **System Monitor**
- **Visual Control Panel**

3.4.1 Device Database Programmer

The Device Database Programmer feature allows the Administrator to add/edit a single or groups of wireless devices in the VNS5100 database. This feature can be beneficial when a series of similar alerts needs to be created.

To access the Device Database Programmer screen, click the word "Tools" on the Main Screen. Click on the words "Device Database Programmer" in the dropdown box. This will cause the Device Database Programmer screen to appear. (Picture "AC" contains an example of the Scheduled Events – Edit screen.).

Picture "AC" – Device Database Programmer Screen

The screenshot shows the 'Database Programmer' window with a menu bar (Close, Program, Clear, Help) and several configuration sections:

- From Device ID:** 0001 **To Device ID:** 0001 ☒ **Increment Device Code by:** 001 **Device Type:** Wireless Speaker
- Device Settings:**
 - System Service:** Local TX **Send via:** Local TX (Serial Port 1) **Speaker Type:** Tone / Bell
 - From Device Code:** 0000000 **Baud Rate:** 1200 **Mode:** 0 **Format:** POCsAG
 - Dialout Number:** **Subscriber ID:** 0000000000 **Password:**
 - Email Address:**
 - Repeat:** None **Priority:** Source **Divert to Device:**
 - ☒ **Allow User to Customize Parameters** ☐ **Use Time Stamp** ☒ **Device is Active** ☐ **Supervised**
- Alert Default Parameters:**
 - Alert Type:** 01 **Alert Length:** 1 **Alert Level:** 1 - Low **Alert Repeats:** 1 **Alert Delay:** 1 Second
 - Pre-Recorded Voice Message:** **Play** **Stop**
- Membership in Sequential Groups:**
 - 1st:** **2nd:** **3rd:** **4th:** **5th:** **6th:** **7th:** **8th:** **9th:** **10th:**
- Device Information:**
 - Description:** **Location:** **Model:**
 - From S/N:** ☐ **Increment S/N by:** 001 **Comments:**

The Device Database Programmer screen provides many of the same features that are used when setting up alerts with the Main Screen. The major difference is that the database programmer can create or edit multiple alerts with a single entry. This feature is accomplished through four settings. These settings are:

From Device ID:	<p>This setting allows the Administrator to select the first device ID to program.</p> <p>To enter a Device ID, type the appropriate ID number in the box located to the right of the words "From Device ID".</p>								
To Device ID:	<p>This setting allows the Administrator to select the last device ID to program.</p> <p>To enter a Device ID, type the appropriate ID number in the box located to the right of the words "From Device ID".</p>								
Increment Device Code by:	<p>This setting allows the Administrator to increase the Device Code incrementally with each Device ID created. For example, if the "From Device ID" is 0100, the "To Device ID" is 0102, the "From Device Code" is 076101 and the "Increment Device Code by" is 2, then the following combinations will be created by the VNS2000 software:</p> <table> <tr> <td><u>Device ID</u></td><td><u>Device Code</u></td></tr> <tr> <td>- 0100</td><td>0760101</td></tr> <tr> <td>- 0101</td><td>0760103</td></tr> <tr> <td>- 0102</td><td>0760105</td></tr> </table> <p>To select the increment, check on the box to the left of the words "Increment Device Code by" and click the up/down arrows located to the right of the text box.</p>	<u>Device ID</u>	<u>Device Code</u>	- 0100	0760101	- 0101	0760103	- 0102	0760105
<u>Device ID</u>	<u>Device Code</u>								
- 0100	0760101								
- 0101	0760103								
- 0102	0760105								
From Device Code:	<p>This setting allows the Administrator to enter the cap code of the first device programmed.</p> <p>To enter the cap code, type in the cap code number into the box located to the right of the words "From Device Code".</p>								

The remaining settings are similar to the settings discussed in section 3.1.3.1. Please turn to section 3.1.3.1 for a discussion of these settings.

3.4.2 900 MHz Wireless Pendants

Use this command to program 900 MHz wireless pendants (not applicable to UHF pendants).

To access the 900 MHz Wireless Pendant Programmer screen, click the word "Tools" on the Main Screen. Click on the words "900 MHz Wireless Pendant Programmer" in the dropdown box. This will cause the 900 MHz Wireless Pendant Programmer screen to appear. (Picture "AD" contains an example of the MHz Wireless Pendant Programmer screen.).

Picture "AD" – 900 MHz Wireless Pendant Programmer Screen

The screenshot shows the '900 MHz Wireless Pendant Programmer' window. It has a menu bar with 'Close', 'Program', 'Clear', 'Remove', and 'Help'. Below the menu bar is a 'COM Port Settings' section with 'Serial Port' set to 'COM 1', 'Settings' set to '9600-8-N-1', and 'Initialization Mode' as an empty field. Below this is the 'Pendant Code (Decimal)' section with the value '00001' and an unchecked checkbox for 'Auto Increment by' with the value '01'. The 'Check-In' is set to 'None' and 'Contacts' is 'Open ext. switch'. At the bottom is a large yellow area with the text 'Press Program to connect.'

An explanation of each of the settings on the "900 MHz Wireless Pendant Programmer screen" screen are set out in the following table. **Note: You should always contact your IT System Administrator before making any changes to these settings.**

Serial Port:	Select the serial port that will be used to program the pendants. Selecting a serial port that is used by VNS2000 to communicate with the system will terminate all activities on that serial port.
Pendant Code (Decimal):	Enter the decimal code to be programmed into the pendant.
Program:	Click this button to program the pendant with the code entered in the Wireless Pendant Code (Decimal) box.
Auto Increment by:	Check the box if you want the pendant code to be incremented automatically when you program more than one pendant. The pendant code will be incremented by the value entered in the adjacent box.
Check-In:	Select the check-in interval for the programmed pendant. Check-in interval other than None will cause the pendant to send a supervision message, according to the interval selected. The more. Note: As number of pendants increases, designers should consider increasing either or both the check-in and the supervision window intervals. Designers should seek combinations of check-in and supervision window, which provide maximum reliability in a given system.

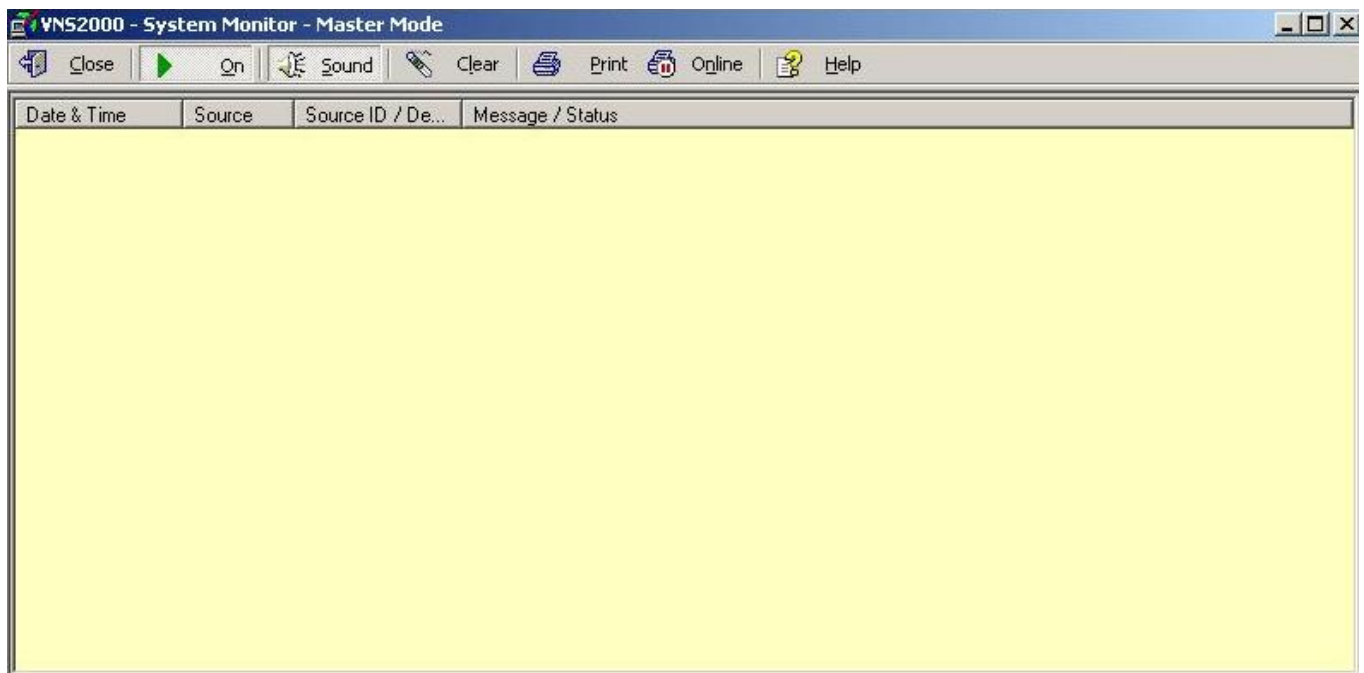
FA403 Specifications: The listed intervals are the approximate actual Check-In intervals according to tests performed by Visiplex. These intervals are different from the specifications in the FA403 user manual. The following table lists the actual Check-In intervals and the Check-In intervals as they appear in the	Interval According to Specifications Approximate Actual Interval 10 Sec. 25 Sec. 30 Sec. 80 Sec. 60 Sec. 160 Sec. 5 Min. 13.5 Min. 60 Min. 180 Min. 8 Hours 22 Hours 18 Hours 50 Hours
Contacts:	Select the contacts options for the programmed pendant. Open switch means that the button has to be pressed in order to send a message. Closed switch means that the pendant will send a message continuously as if the button is pressed. The default used option is Open external switch.

3.4.3 System Monitoring

The VNS2000 software allows the Administrator to monitor system activity through the System Monitor screen. This screen displays each alert message sent to a device. The Administrator can print a listing when the entire page is filled or when exiting the screen.

To access the System Monitor screen, click the word "Tools" on the Main Screen. Click on the words "System Monitor" in the dropdown box. This will cause the System Monitor screen to appear. (Picture "AE" contains an example of the System Monitor screen.). **NOTE: This screen is not permanent. Once you close the System Monitor, any information displayed will be erased.**

Picture "AE" – System Monitor Screen



An explanation of each of the settings on the "System Monitor" screen are set out in the following table. **Note: You should always contact your IT System Administrator before making any changes to these settings.**

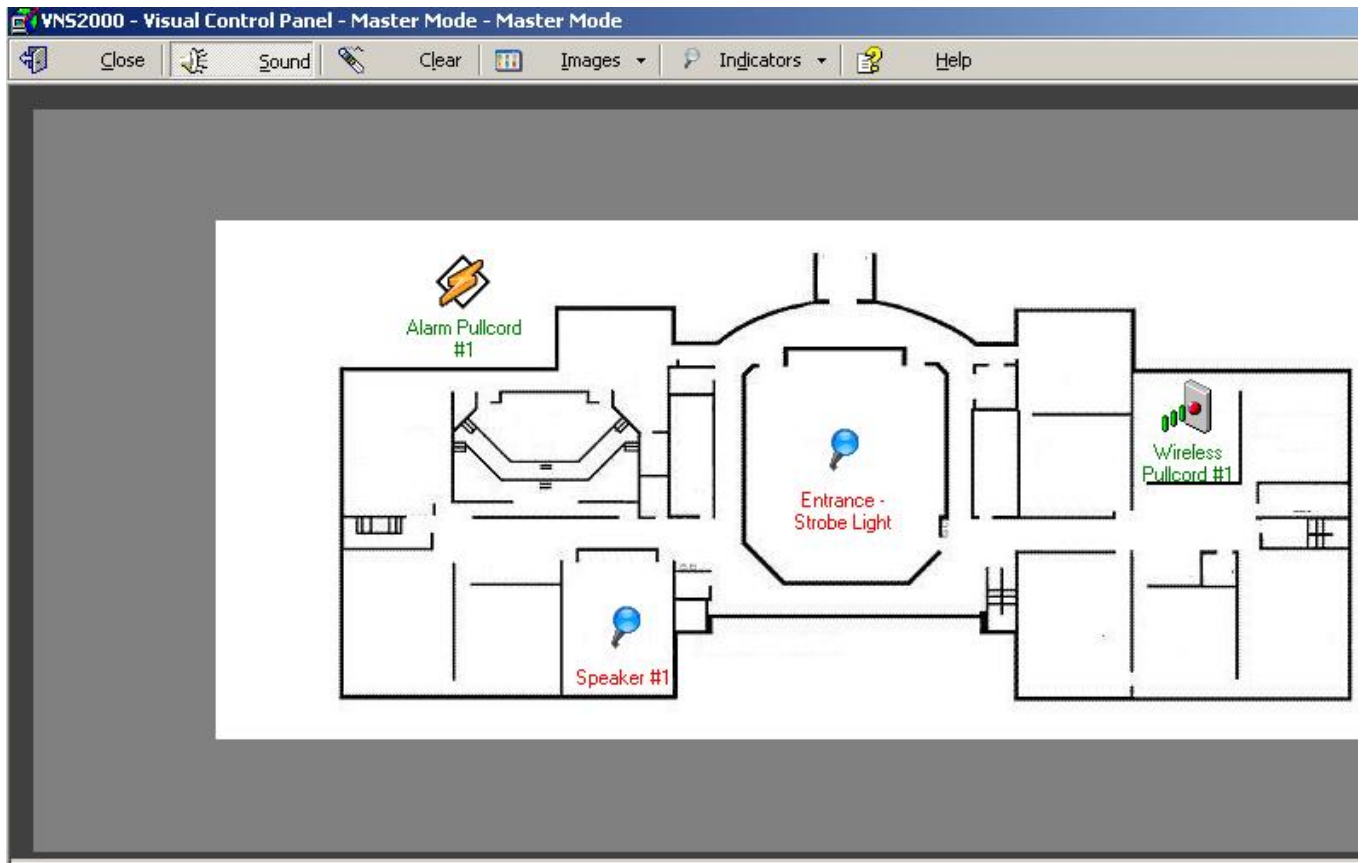
On:	<p>The Administrator can set the monitoring status to on or off. The monitoring status is "on" if a green triangle appears. The monitoring system is "off" if two red bars appear.</p> <p>To set the monitoring status, click the "On" button located in the upper left corner of the screen.</p>
Sound:	<p>The Administrator can have an audible sound played whenever a system event occurs. A sound will play if the horn icon appears. No sound will play if the horn icon has a red "circle and slash" over it.</p> <p>To change the setting for an audible sound, click the button that contains the word "Sound" and a picture of a horn. This button is located to the right of the "On" button.</p>
Clear:	<p>The Administrator can clear the monitor list.</p> <p>To clear the monitor list, click the button that contains the word "Clear" and a picture of a pencil. This button is located to the right of the "Sound" button.</p>
Print:	<p>The Administrator can print the monitor list in a report form.</p> <p>To print the report, click on the button that contains the word "Report" and a picture of a printer.</p>
Online: printing	<p>VNS2000 can have each message to be printed as soon as it is sent to a device. These messages will be placed in a printer queue and will be printed when an entire page is completed. The messages will also print if the Administrator exits the System Monitor screen.</p> <p>To activate the Online printing feature, click on the button with the word "Online". A printer with a green arrow will appear to show you the online feature is activated. A printer with two red bars indicates that the online feature is not activated.</p> <p>Note - It is recommended that a printer be dedicated to this task if you intend to use Online</p>

3.4.4 Visual Control Panel

The VNS2000 software can display the location of any triggered alarm point or pendant. This display is created through the use of the Visual Control Panel. The Visual Control Panel screen allows the Administrator to upload an image of the facility and to insert on the image indicators that represent alarm points, pendants and standard devices. When an alarm point, pendant or standard device is triggered, its corresponding indicator will begin blinking.

To access the System Monitor screen, click the word “Tools” on the Main Screen. Click on the words “Visual Control Panel” in the dropdown box. This will cause the System Monitor screen to appear. (Picture “S” contains an example of the System Monitor screen.).

Picture “T” – Visual Control Panel



An explanation of each of the settings on the “Visual Control Panel” screen are set out in the following table. **Note: You should always contact your IT System Administrator before making any changes to these settings.**

Sound:	<p>The VNS2000 allows the Administrator to play an audible sound when a system event has occurred.</p> <p>To cause a sound to be played when an event has occurred, click on the button that contains the word “Sound” and a picture of a horn. The button will be highlighted when the sound feature is activated.</p>
Clear:	<p>The Administrator can clear the monitoring list by clicking the clear button.</p> <p>To clear the monitor list, click on the button that contains the word “Clear” and contains a picture of a pencil.</p>
Images:	<p>The VNS2000 allows the Administrator to display campus map on the Visual Control Panel. The Administrator can then display indicators directly on the map.</p> <p>To display a campus map on the screen, click on the button that contains the word “Images”. Click on the words “Select Image” and select the file contain the map to be uploaded.</p> <p>To remove a campus map on the screen, click on the button that contains the word “Images”. Click on the words “Remove Image”. This will cause the map to be removed from the screen.</p> <p>Note: The campus map will need to be saved in a format that will allow it to appear in the display area of the Visual Control Panel Screen.</p>

Indicators :	<p>The VNS2000 software allows the Administrator to add, edit, remove or save Indicators. Indicators consist of alarm points, pendants and system devices.</p> <p><u>Adding Indicators:</u></p> <p>To add an indicator, click on the button that contains the word "Indicators" and a picture of a magnifying glass. Click on the words "Add Indicator". The "Add Indicator" screen will appear.</p> <p>Use the Save Indicators option to save the current positions of the displayed indicators. Use the Lock Indicators Position option to prevent the indicator from being re-positioned on the screen.</p>
Help:	Display the Help screen.

3.5 Reports

The Reports menu offers the following commands:

Activity Report

Print / Preview of system activity report by device type, device number, date and source (VNS2000, keyboard, alarm, etc.).

Statistics Report

Print / Preview of system statistics report.

Failed Messages Report:

Print / Preview of failed messages by device ID and date.

The 'Failed Messages Report' dialog box features a menu bar with 'Close', 'Print', 'Preview', and 'Help'. The main area contains several input fields: 'Source' is a dropdown menu set to 'All'; 'From Device' is a text box with '0001' and 'To Device' is a text box with '9999'; 'From Date' is a date picker set to '08/01/08' and 'To Date' is a date picker set to '08/31/08'; 'Sort By' is a dropdown menu set to 'Device ID' with a secondary dropdown set to 'Ascending'; and an unchecked checkbox labeled 'Include Full Message Text'.

Device Database Report

Print / Preview of devices programmed into the system.

The 'Device Database Report' dialog box has a menu bar with 'Close', 'Print', 'Preview', and 'Help'. The main area includes multiple input fields: 'From Device' (text box with '0001') and 'To Device' (text box with '9999'); 'Device Type' (dropdown menu set to 'All') and 'System Service' (dropdown menu set to 'All'); 'From Device Code' (text box with '0000000') and 'To Device Code' (text box with '9999999'); 'Baud Rate' (dropdown menu set to 'All'), 'Mode' (dropdown menu set to 'All'), and 'Format' (dropdown menu set to 'All'); 'Dialout Number' (text box), 'Subscriber ID' (text box), and 'Password' (text box); 'Use Time Stamp' (dropdown menu set to 'All') and 'Device is Active' (dropdown menu set to 'All'); 'Diverted to Device' (text box); 'Sequential Group / Individual Device' (dropdown menu set to 'All') and 'Membership in Group' (dropdown menu set to 'All'); 'Description' (text box) and 'Location' (text box); and 'Sort By' (dropdown menu set to 'Device ID' with a secondary dropdown set to 'Ascending').

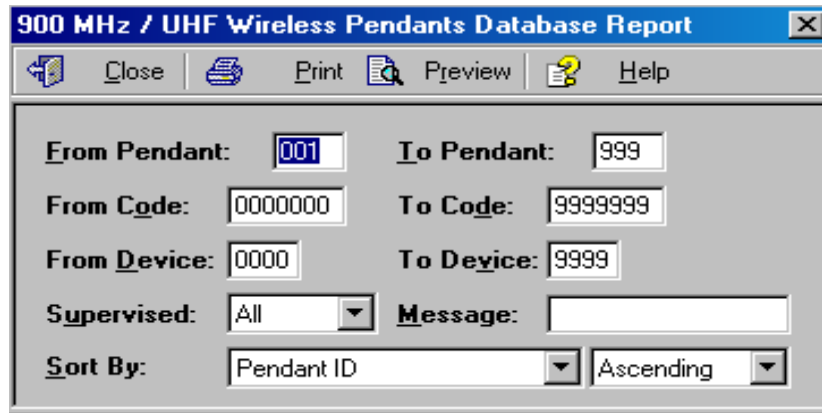
Alarm Points Database Report

Print / Preview of alarm points programmed into the system.

The 'Alarm Points Database Report' dialog box features a menu bar with 'Close', 'Print', 'Preview', and 'Help'. The main area contains input fields: 'From Alarm' (text box with '001') and 'To Alarm' (text box with '024'); 'From Device' (text box with '0000') and 'To Device' (text box with '9999'); 'Message' (text box); and 'Sort By' (dropdown menu set to 'Alarm Point' with a secondary dropdown set to 'Ascending').

900 MHz / UHF Wireless Pendant Database Report

Print / Preview of wireless pendants programmed into the system.



From Pendant:	001	To Pendant:	999
From Code:	0000000	To Code:	9999999
From Device:	0000	To Device:	9999
Supervised:	All	Message:	
Sort By:	Pendant ID		Ascending

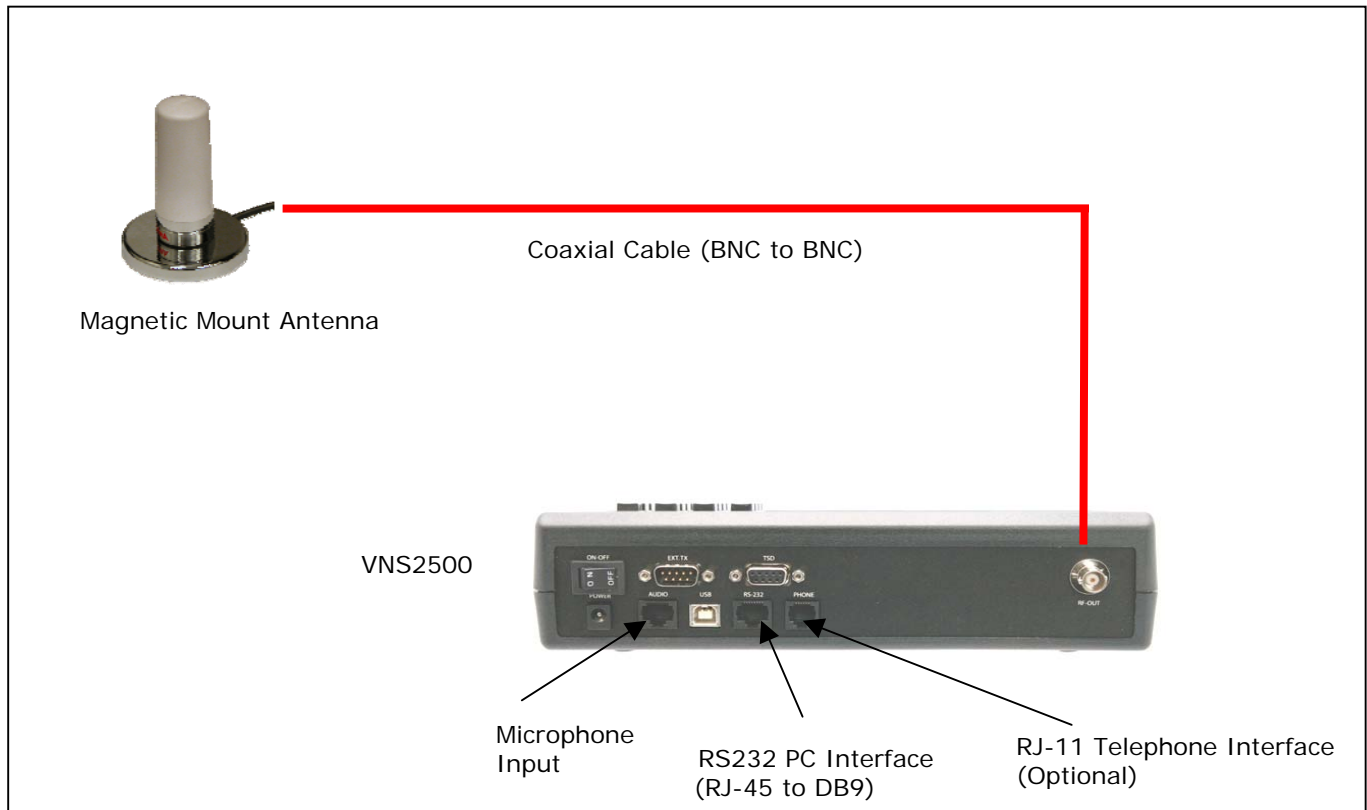
Rebuild Reports Archive

Rebuild the reports archive database. Use this command to rebuild the reports archive database that is used for generating the reports. Assuming that VNS2000 Server is running and not shut down, this task is executed automatically each day between 3:00 to 4:00 AM and whenever a report is manually generated. This task is necessary in order to get updated reports and it should be used only if the archive folders hold old files that were not removed automatically. This task removes all the daily messages from the subfolders under MsgArchive folder and updates the corresponding database files in the MsgArchive folder. After this task is performed, all subfolders under the MsgArchive folder should be empty.

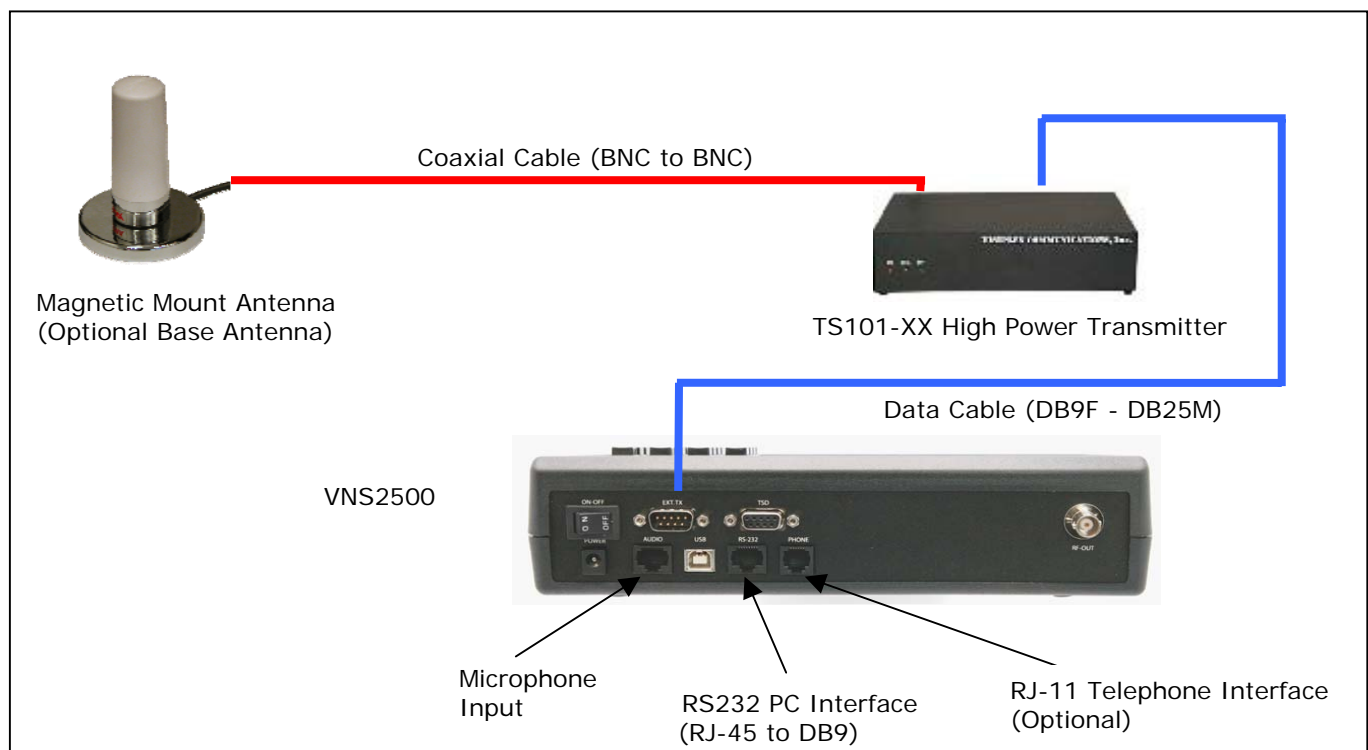
Warning: Do not edit or change the system files as it may cause unpredictable result.

Appendices

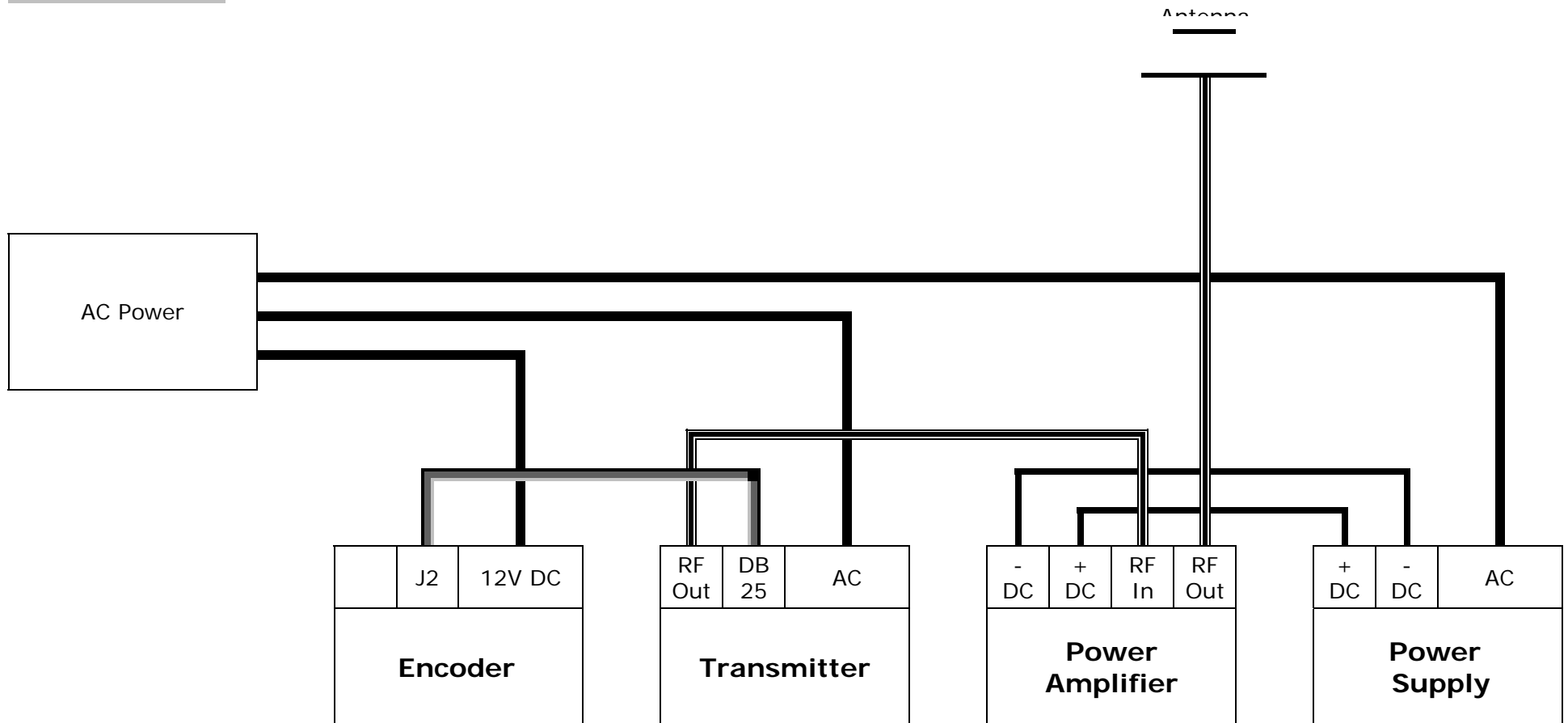
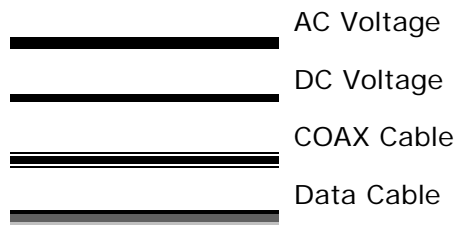
4.1 Appendix A – Installation Diagrams



Low Power System Installation Diagram



Medium/High Power System Installation Diagram



High Power System Installation Block Diagram

General Information

5.1 Specifications

Encoder

Frequency Range	VHF: 148-174 MHz, UHF: 403-433 MHz, 438-470 MHz
Data Baud Rate	512, 1200, 2400 BPS
Paging Format	POCSAG, Narrow or Wide Band
Paging Type	Voice, Tone, Numeric, Alphanumeric
Channel Spacing	12.5 kHz or 25 kHz
Power	AC Adaptor - Input: 100-240VAC, 50/60Hz Output: 12VDC, 3A
Approvals	UL/CSA listing
Operating Temperature	32° to 104° F / 0° to 40° C
Storage Temperature	14° to 140° F / -10° to 60° C
Operating Humidity	10%-65%
Dimensions (W x H x D)	7.5" x 1.75" x 5.0" / 190mm x 45mm x 127mm
Weight	2.10 lbs.
Warranty	1 Year, Parts and Labor

Internal Transmitter

RF Power Output	VTX-8: 8W
Modulation	Data and Tone: ± 3.5 kHz, Voice: ± 5.0 kHz
Frequency Stability	$\pm 0.0025\%$, -22° to 140° F / -30° to 60° C Reference Temperature: 77° F / 25° C
FM Noise	Minimum 40dB below ± 3.0 kHz deviation at 1000 Hz
Spurious & Harmonic	75 dB
FCC Registration	AIERIT11-450

Telephone Line

Input Impedance	600 Ω Nominal (Off-Hook)
Line Type	Line Level (End to End Station Level), DTMF
Telephone Audio	DTMF Receive Level Dynamic Range: -26 dBm minimum DTMF Receive Frequencies Tone (Nominal, $\pm 1.5\%$, ± 2 Hz): 697, 770, 852, 941, 1209, 1336, 1477, 1633

5.2 Warranty

Unless otherwise specified at the time of original purchase, all equipment is warranted as to quality and performance for one year from the date of original shipment from our factory.

This factory warranty covers all parts, software, and/or labor (as specified at time of purchase) at our factory, as well as return shipping to you, the customer, but does not apply to any batteries or other damage resulting from abuse of the equipment. Warranty coverage excludes free replacement of cosmetic items such as clips, logos, etc.

The warranty is void if:

1. There is evidence of abuse to the equipment (i.e., corrosion, unusual physical damage, signs of exposure to temperatures outside the range of specifications, etc.)
2. The equipment contains an unauthorized modification.
3. Identification numbers on the printed circuit boards or chassis have been altered or removed.
4. Evidence of the product having been exposed to or submerged in water.
5. Equipment is damaged through acts of God, including, but not limited to: flood, lightning, hurricane, tornado, sustained high winds, acts of war, natural disasters, etc.

Should you experience problems with any product, we would suggest consulting your system or clock maintenance guide to correct any routine problems such as replacing batteries, cleaning contacts, checking AC voltage, etc.

If the problem persists, please call our technical support department for additional assistance, remote diagnostics help, etc.

If your product must be returned for repair, our technical service department will provide you with a Returned Material Authorization (RMA) number and any other special instructions that will allow the repair to be handled as quickly as possible.

All non-warranty products require a purchase order number in addition to an RMA number for repair work to be started.

For more information, or to obtain technical assistance on any warranty or non-warranty product, please write, call, fax or email to:

Visiplex, Inc.

100 N Fairway Drive, Suite 120

Vernon Hills, IL 60061

Phone: (847) 918-0250 or (877) 918-7243

Fax: (847) 918-0259

E-mail: support@visiplex.com

Website: www.alertwave.com

Business Hours: Monday-Friday, 9:00 AM - 5:00 PM Central Time.

Notes

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