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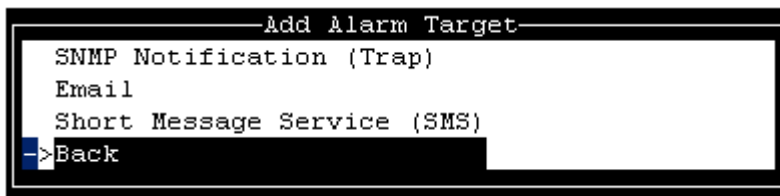# Application Note:
Use of Pagers with Interceptor

The stock Interceptor is able to send email alerts as well as SMS text messages to cellular phones. It is also possible to send alarms to alphanumeric pagers as well. Pagers are preferred to cell phones in SCIF's as the pagers do not have a transmit capability and they cannot be used to transmit secure information from the controlled area.

This application note will explain several of the alarming options in the Interceptor, how they relate to pagers as well as other web based communication devices, and how the Interceptor may be set up for use with an alphanumeric pager.

NOTE: The Interceptor cannot communicate directly with a standard voice-only pager or a pager that requires access through a phone number only. Any device that will be used to display text alarms from an Interceptor must be web or Ethernet based (the Interceptor does not have a POTS line modem).

Alarm options in Interceptor

The Interceptor communicates alarms to external devices through the use of alarm targets. The alarm target options are as follows:
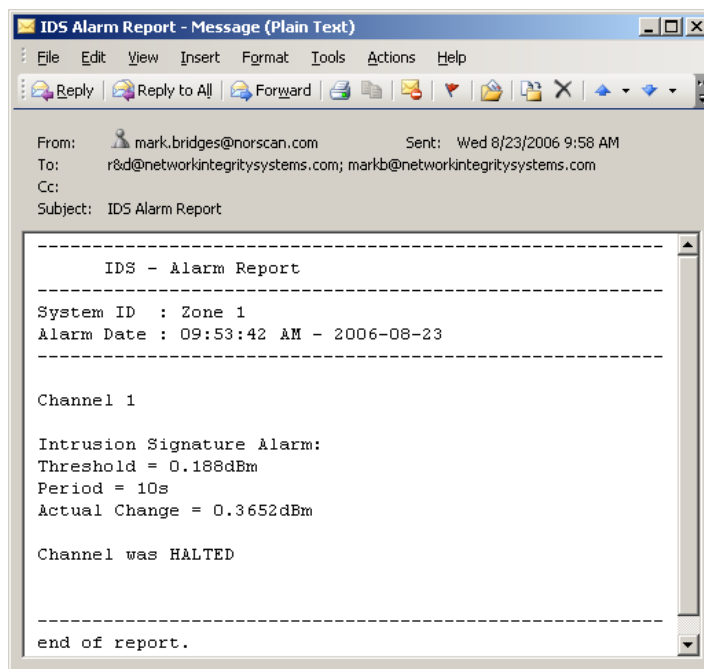

SNMP Notification: allows SNMP traps to be sent to network management system
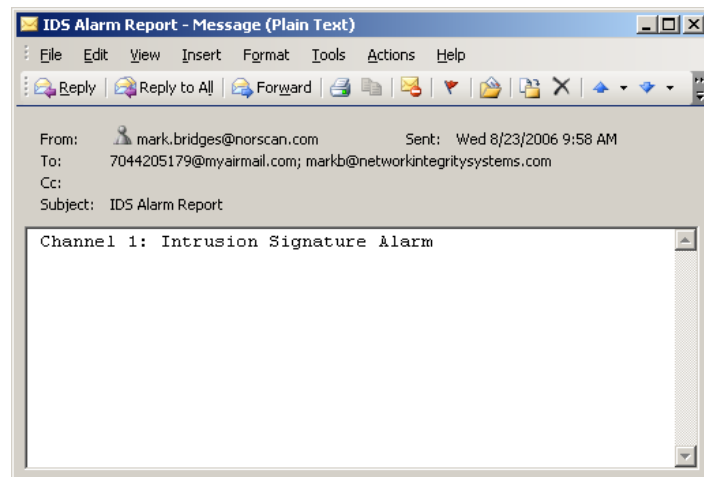Email: allows email alerts to be sent to target email addresses
Short Message Service (SMS): allows SMS alerts to be sent to target web addresses

All three of the target types require a web address to communicate with.

The Email and SMS targets are actually quite similar, the main difference is the message length. The following is an example of an Email alarm:

Network Integrity Systems
1937 Tate Blvd SE
Hickory, NC 28602
Phone: 828.322.2181
Fax: 828.322.5294

info@networkintegritysystems.com
www.networkintegritysystems.com

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Short Message Service (SMS) alarm sent to email target:

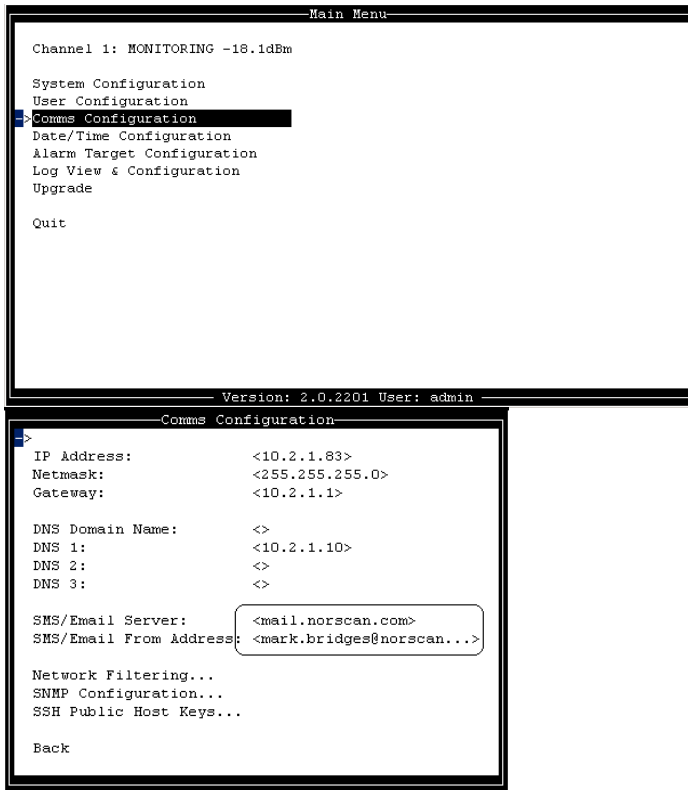It can be seen that the email alarm has more information (system ID, channel parameters, action taken by Interceptor) than the SMS alarm. However, some devices such as SMS cell phones and pagers may not be able to correctly display the email message as the message would have too many characters. The SMS target is provided for such devices. We have found that the SMS target is the best one for use with an alphanumeric pager.

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Interceptor setup for use with alphanumeric pager

Step 1: Verify the proper communication parameters are entered in the Comms Configuration menu in the Main Menu. There must be an active SMS/Email Server address, as well as an SMS/Email From Address entered:

```
──────────────────────Main Menu──────────────────────

    Channel 1: MONITORING -18.1dBm

    System Configuration
    User Configuration
 ─▶ Comms Configuration
    Date/Time Configuration
    Alarm Target Configuration
    Log View & Configuration
    Upgrade

    Quit




────────────── Version: 2.0.2201 User: admin ──────────────
```

```
──────────────────Comms Configuration──────────────────
─▶
    IP Address:             <10.2.1.83>
    Netmask:                <255.255.255.0>
    Gateway:                <10.2.1.1>

    DNS Domain Name:        <>
    DNS 1:                  <10.2.1.10>
    DNS 2:                  <>
    DNS 3:                  <>

    SMS/Email Server:       <mail.norscan.com>
    SMS/Email From Address: <mark.bridges@norscan...>

    Network Filtering...
    SNMP Configuration...
    SSH Public Host Keys...

    Back
```

Step 2: Add an Alarm Target for the alphanumeric pager:

```
──────────────────────Main Menu──────────────────────

    Channel 1: MONITORING -18.01dBm

    System Configuration
    User Configuration
    Comms Configuration
    Date/Time Configuration
 ─▶ Alarm Target Configuration
    Log View & Configuration
    Upgrade

    Quit




────────────── Version: 2.0.2201 User: admin ──────────────
```

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```
┌──────Alarm Target Configuration──────┐
│                                       │
│   No Targets Defined.                 │
│                                       │
│ ─>Add Alarm Target                    │
│                                       │
│   Back                                │
│                                       │
└───────────────────────────────────────┘
```

```
┌───────────────────────────────────────┐
│ Please enter a unique target description: │
│ SMS pager                             │
│                                       │
│    <OK>                    <CANCEL>   │
│                                       │
└───────────────────────────────────────┘
```

Select Short message Service (SMS) as Alarm Target:

```
┌─────────────Add Alarm Target─────────────┐
│   SNMP Notification (Trap)            │
│   Email                               │
│ ─>Short Message Service (SMS)         │
│   Back                                │
└───────────────────────────────────────┘
```

Enter pager email address (available from paging service provider):

```
┌──────────Create SMS Target──────────┐
│                                      │
│    Press Tab to move to the next field, or │
│    Backspace to move to the previous field │
│  Seperate multiple SMS addresses with a comma │
│                                      │
│ SMS Address    7044205179@myairmail.com     │
│                                      │
│                                      │
│                                      │
│          <OK>       <CANCEL>         │
│                                      │
└──────────────────────────────────────┘
```
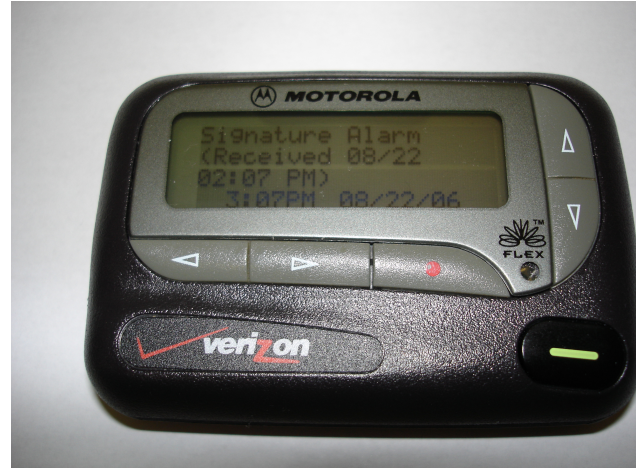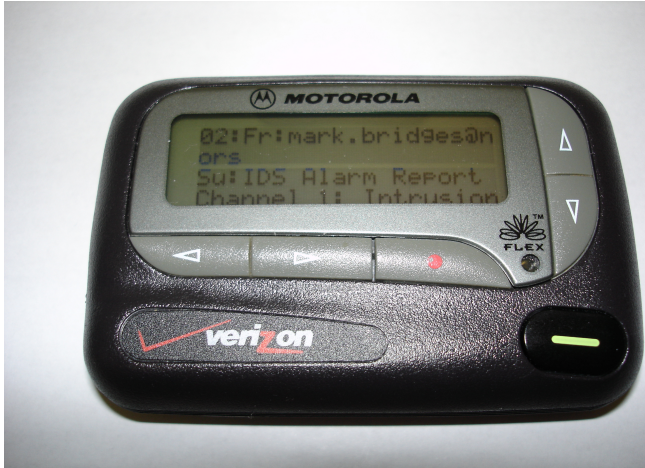
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Examples of received SMS alarm on alphanumeric pager:

Pager Number: 704-420-5179

Email pager#: 7044205179@myairmail.com

Pager provider: American Messaging Paging Solutions (http://web.americanmessaging.net)

Pager type: Motorola Flex Advisor Gold A05CMB5812AA