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Application Note # 151

Introduction

Vartek introduces an ISP hosting service using low cost, dial-up service to the Internet, to provide connectivity from field-based monitoring sites to dynamically updated web sites with alarm notification.

This “site-ISP-notification” web based service, Vartek’s **Web2Alarm ISP**, permits a complete end-to-end Internet e-mail connectivity solution. Access to the web from Vartek’s monitoring equipment is seamless or transparent to the customer. Connection to the ISP server is made through a Public Switched Telephone Network (PSTN) connection originating from the modem within the monitoring box. The monitoring equipment utilizes XML formatted e-mail updates to transfer remote status information to a central host server, the **Web2Alarm ISP**.

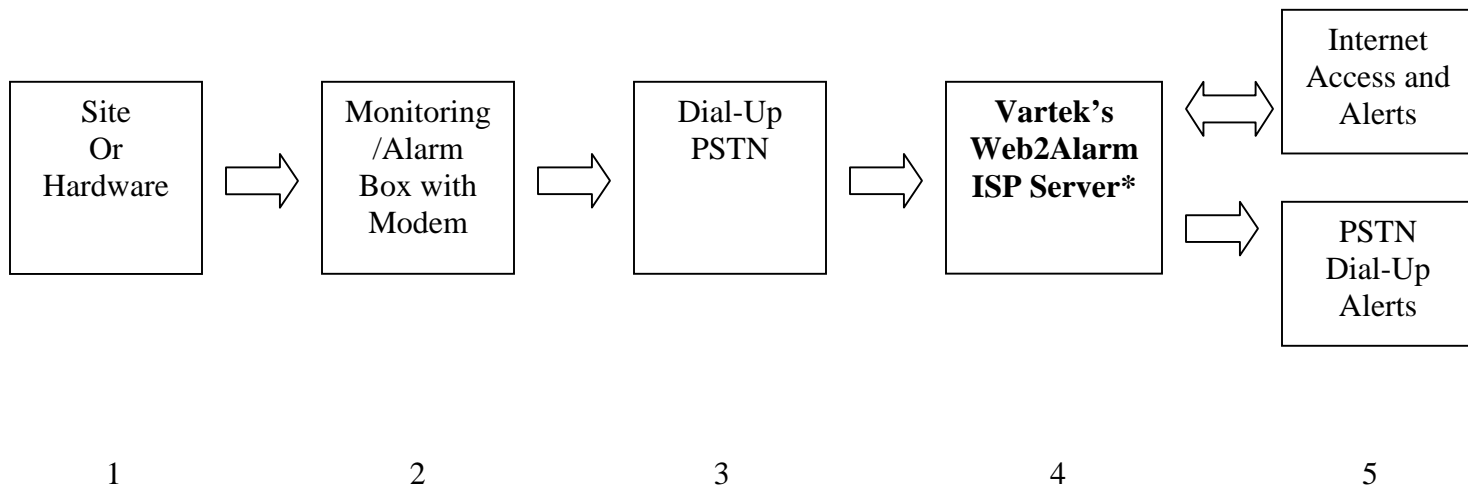
Automated polling of large numbers of field sites or devices is handled simply, and the system can convert e-mail text to voice messages for wireless cell phone or wired phone transfer. The **Web2Alarm ISP** server facilitates multiple routing of e-mail messages and large file transfers.

The **Web2Alarm ISP** works in conjunction with a System Administrator web page. The System Administration web page can be accessed via username and user password, viewed using a conventional browser. The System Administration web page permits the customer to sort status data into convenient report pages or dynamically accessible viewing pages under username and password control.

Through the **Web2Alarm ISP** alarm notification service, e-mail is used to transfer status information or alarm alert status between systems and can be transmitted or received as required. The customer web site is automatically and dynamically updated with daily e-mail status reports. The frequency of status reports can be customer defined. If an alarm e-mail status report is received, it is immediately and automatically routed to any one of the following pre-assigned destinations:

- Updates customer System Administration web site
- E-mail alert to customer designated e-mail address
- Voice or text message to alpha-numeric pager, phone or FAX
- SMS or FTP alert
- Any combination of the above message alerts

Vartek's Web2Alarm ISP System Approach



System Flow:

1. Triggers electronic alarm status.
2. Monitors alarm status and sends Daily Status and/or Alarm Status Reports via XML formatted e-mail.
3. Local PSTN dial-up sends XML e-mail to the Web2Alarm ISP server.
4. Web2Alarm ISP reads, strips, stores and re-directs e-mail messages, and sends PSTN alerts.
5. Internet access permits System Administration viewing of the web site. PSTN alerts are received via pager, telephone or FAX.

*Vartek's Web2Alarm ISP Server can route e-mail updates or messages to:

- ➡ Dynamically updated customer web site
- ➡ E-mail alert to customer designated e-mail addresses
- ➡ SMS or FTP alerts
- ➡ PSTN generated voice or text messages to alpha-numeric pager, phone or FAX
- ➡ Multiple message alerts