

WATCHMAN Reliability Portal™ IT Requirements

Sales Team - Ensure the Customer's IT department concurs with these requirements before accepting a purchase order:

Portal Web Pages

The portal web subscription provides full access to your plant's machine health and program statistics through a Secure Socket Layer (SSL) encrypted Internet connection to our web servers. A pre-assigned user name and strong password are required. Users and passwords are managed by the customer.

- Outbound Internet connections via ports 443 (HTTPS)

Portal Analysis – Terminal Services Web Access

The analysis subscription provides full access to your machine vibration data through a Secure Socket Layer (SSL) encrypted Internet connection to our web servers. The Portal Analysis system is accessed through a remote **Windows 2008 Server running Terminal Services Web Access**. Thin-client applications accessing the remote system require:

- Internet Explorer 6, 7 or 8 with the Microsoft Remote Access active-X control installed. *At this time Mozilla Firefox, Google Chrome and other browsers are not supported.*
- Outbound Internet connections via ports 443 (HTTPS), 3389 (TS Web Access)

Vibration Data Acquisition

Vibration data that is collected on-site with portable data collectors (Azima DLI's DCA-60 or DCX) is transferred to the remote data center through the Sybase Data Replication Engine. The DCA-60 and DCX include an embedded Windows XP Tablet operating system, however, these data collectors do not need to be part of your domain or network, but need to periodically reach the Internet to transfer data to the data center.

Data is transmitted by **encrypted message files** using File Transfer Protocol (FTP) to the remote data center.

- Outbound Internet connections via ports 20,21 (FTP)
- Dedicated FTP server ftp.watchmanportal.com

Vibration and process data that is collected on-site with online data acquisition systems (SpriteMAX) is transferred to the remote data center through XML data files. This data is transmitted using File Transfer Protocol (FTP) to the remote data center.

- Outbound Internet connections via ports 20,21 (FTP)
- Dedicated FTP server ftp.watchmanportal.com

Data Backups and Transfer

All customer databases are backed up nightly. In the unlikely event of catastrophic data loss, Azima DLI IT engineers are able to restore your previous night's backup.

Upon request by the customer, Azima DLI will provide a mirror copy of the customer database file and deliver it to the customer address that is on file, by courier (fees apply).