

The DLI Integrated Asset Monitor will identify to the user any vibration-related changes that might represent operational degradation of rotating equipment monitored within an 800xA System. Simple installation and configuration, followed by automatic uploading, permits this integrated system to continuously monitor performance over the long term, indicating significant vibration profile changes for rotating equipment. Resulting notifications can alert operations and maintenance staff to situations which are developing well before any actual equipment or failure problems begin – i.e., implementation of a true Predictive Maintenance alert system.

The purpose of the ABB-DLI Integrated Asset Monitor is to make use of the expert analytical capabilities in DLI's ExpertALERT (DLI-EA) vibration monitoring and analysis system within the context of ABB's Asset Optimization (AO) environment. When a vibration-related equipment fault is detected by DLI-EA, that status is automatically passed from DLI-EA's database into ABB's AO Asset Monitors for each machine represented in the DLI-EA database. The reported condition generates an alarm in the 800xA Alarm and Event system. Additionally, if a Computerized Maintenance Management System (CMMS) is configured, it is possible to quickly generate a Work Order for a maintenance request on the rotating equipment, as might be required when there is trouble with a gear or bearing.

#### Operation

The package includes a set of software components that allow for efficient monitoring of rotating equipment via DLI-EA, as well as the necessary service and 800xA client components.

The software components consist of files for service executables and AFW files for various Object Definitions for the 800xA Process Explorer components. Asset Monitors package the data from DLI-EA fault reports into an AO-compatible Asset Condition Document (ACD), enabling data to be distributed throughout the AO infrastructure.

At every execution of the DLI-EA's analysis engine, changes in the status of machines is automatically forwarded to the 800xA system. Asset Monitors receive the detailed status information, which is then reformatted to comply with AO requirements. If there is a change in status for one of the DLI machines, a condition report is sent to AO for further handling. Maintenance issues related to vibration can be automatically forwarded to an available CMMS.

#### Asset Monitor dependencies

The following software is required for configuration / operation of the DLI Integration with 800xA:

- ABB 800xA Core System
- ABB Asset Optimization Asset Monitoring
- Optional ABB 800xA System Extensions:
  - Maximo Integration (CMMS connectivity)
  - SAP Integration (CMMS connectivity)
  - Messenger (e-mail / paging for maintenance needs)
- DLI ExpertALERT system, locally or remotely installed
- The ABB DLI-800xA Asset Monitor Integration package

## Setup and configuration

A complete step-by-step description of the installation and various component configurations make the setup of a system easy.

Once basic installation and configuration have been completed, an automated upload process can be triggered to create DLI Machine Objects within the 800xA system. These Objects are fully populated with working Asset Monitors, Views, and Messaging. DLI aspects may also be added to machine objects which already exist in the 800xA system.

For the latest information on ABB visit us at <http://www.abb.com>



**ABB**  
**Process Automation Division**  
Västerås, Sweden  
Phone: +46 (0) 21 32 50 00  
Fax: +46 (0) 21 13 78 45  
[www.abb.com/controlsystems](http://www.abb.com/controlsystems)  
email: [processautomation@se.abb.com](mailto:processautomation@se.abb.com)

**ABB**  
**Process Automation Division**  
Wickliffe, Ohio, USA  
Phone: +1 440 585 8500  
Fax: +1 440 585 8756  
[www.abb.com/controlsystems](http://www.abb.com/controlsystems)  
email: [industrialitsolutions@us.abb.com](mailto:industrialitsolutions@us.abb.com)

**ABB**  
**Process Automation Division**  
Mannheim, Germany  
Phone: +49 (0) 1805 26 67 76  
Fax: +49 (0) 1805 77 63 29  
[www.abb.de/controlsystems](http://www.abb.de/controlsystems)  
email: [marketing.control-products@de.abb.com](mailto:marketing.control-products@de.abb.com)

© Copyright 2006 ABB.

All rights reserved. Specifications subject to change without notice. Pictures, schematics, and other graphics contained herein are published for illustration purposes only and do not represent product configurations or functionality. User documentation accompanying the product is the exclusive source for functionality descriptions.

The Industrial<sup>IT</sup> wordmark, Aspect Objects, and all above-mentioned names in the form XXXXX<sup>IT</sup> are registered or pending trademarks of ABB.

All rights to other trademarks reside with their respective owners.