ABB Ability™ asset management solutions gathers and analyzes data to build a health profile of your transformer assets while delivering condition-based maintenance recommendations.

ABB Ability™ asset management solutions is designed for flexibility. These customizable offerings leverage ABB hardware, software, and industry leading expertise; to provide immediate value. These solutions are easily deployable and backed by ABB’s industry leading service organization.

ABB Ability™ asset management solutions provides out-of-the-box connectivity to new or existing transformer monitoring equipment using ABB wireless technologies. Along with our partnership with Microsoft, ABB Ability™ leverages domain expertise to provide the most secure storage of data. ABB’s asset health software developed by ABB experts provides deep immediate analysis and feedback of online and offline data providing asset probability of failure, online/offline DGA assessment, thermal assessment, LTC/bushing monitoring and preventative actions.

ABB Ability™ is our unified, cross-industry, digital capability – extending from device to edge to cloud – with devices, systems, solutions, services and a platform that enables customers to know more, do more, do better, together.

Asset management solutions service offering:

- **Expert services**
  - Remote connection
  - Expert support upon request
  - ABB reacts if you need help
  - Rapid solutions in case of problems

- **Condition monitoring**
  - Remote connection
  - Condition monitoring portal
  - ABB provides the tools to help you monitor your transformer fleet
  - Alerts and information for customers to react quickly

- **Predictive maintenance**
  - Remote connection
  - Predictive analytics and active monitoring
  - ABB monitors your transformer fleet
  - ABB reacts and responds in real time

Transformer Intelligence™ helps you:

- Increase reliability by identifying risks before realization
- Lower maintenance costs by reducing ineffective time based practices and expensive failures
- Lower capital expenditures by getting longer economical life out of existing assets
- Replace time-based maintenance with condition-based maintenance for cost effective reliability
- Connect with transformer experts when needed
A lean set of offerings for your transformer assets that is simple yet scalable, providing the tools needed to digitize and monitor your transformer fleet.

- **Sensors**
  - CoreSense product line compatible
  - CoreTec compatible
  - Integrates with most DGA monitoring equipment
  - Modbus TCP communication protocol

- **Wireless communication**
  - Highly secure IP communications
  - WPA2 authentication
  - SSID suppression
  - IP address, protocol and TCP / UDP port filtering
  - VPN with filtering
  - Easy deployment
  - Cost effective price point

- **Software**
  - Recommended actions
  - Probability of failure
  - DGA assessment
  - Thermal assessment
  - LTC/bushing monitoring
  - Machine learning
  - Private network installation
  - ABB Ability™ cloud ready

- **Expert service**
  - Industry leading expertise
  - Expansive transformer install base
  - Design, thermal, condition and life assessments
  - Immediate response
  - Powercare service contracts

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Asset management solutions standard architecture:

<table>
<thead>
<tr>
<th>Substation</th>
<th>Control building</th>
<th>Web browser &amp; ABB Ability™</th>
<th>Customer experience</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>4</td>
<td>7</td>
</tr>
<tr>
<td>Wireless communication</td>
<td>Internet</td>
<td>CPM + Historian (Transformer module)</td>
<td>Near real-time monitoring</td>
</tr>
<tr>
<td>Edge data transfer</td>
<td>Customer portal</td>
<td>Asset health software</td>
<td>Email alerts</td>
</tr>
</tbody>
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Deploying asset health software on ABB Ability™

- Consistent, repeatable processes that extend through the product lifecycle management process
- High flexibility, allowing organizations to tailor business processes to their specific requirements

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Why ABB?

ABB provides industry-leading software and deep domain expertise to help the world’s most asset-intensive industries such as energy, utilities and mining solve their biggest challenges, from plant level, to regional network scale, to global fleet wide operations.

For more information, please contact:

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