MEDIUM VOLTAGE

ABB Ability™ Asset Manager for Utilities

Understanding assets

ABB Ability™ Asset Manager is the state-of-the-art on-premise and cloud solution for monitoring and analyzing site equipment. This intuitive solution has the ability to optimize your site's electrical distribution system and other utilities, resulting in improved performance, efficiency and safety.

Through its scalable and flexible design, ABB Ability™ Asset Manager ensures comprehensive accessibility and is ready-to-use with low- and medium voltage electrical distribution as well as water, gas or heating equipment.

Table of contents

003–004 **Overview**

005–006 **Empowering your asset management with data**

007–008 **A smart interface**

009–010 **A world of applications**

011–014 **Architecture**

Overview

A new approach to energy and asset management

ABB Ability™ Asset Manager is a state-of-the-art on-premise and cloud solution that integrates your energy and asset management in a single intuitive dashboard.

Providing full remote visibility of asset and electrical-system behavior, this solution provides you with the insight to minimize cost and risk and maximize performance and safety across your operations.

This is achieved by supervising your electrical system and monitoring its conditions and energy flows. The solution also verifies asset health and visualizes your system structure to provide actionable insights that enable maintenance and replacement at the optimum time.

By constantly analyzing asset conditions and energy demands, ABB Ability™ Manager helps you make the right decisions at the right time.

ABB Ability™ Asset Manager also provides access on a multi-site level, allowing you to monitor and compare the performance of different facilities at the same time.

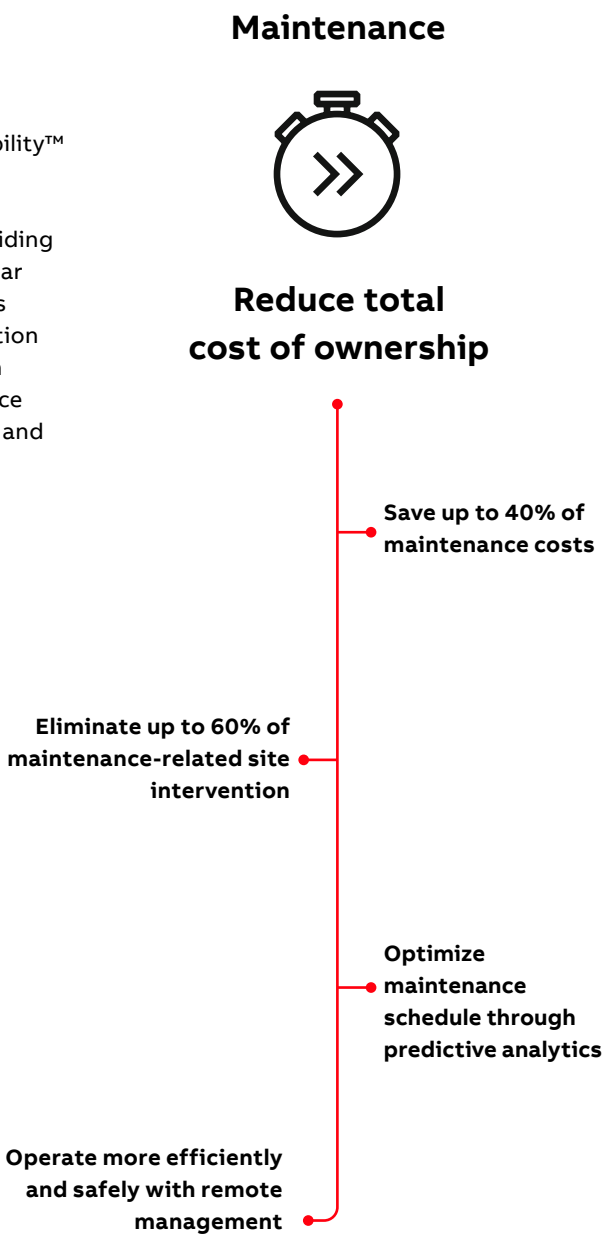
It allows profiling of users according to the level of access they require.

ABB Ability™ Asset Manager
Empowering your asset management with data

Added value from installation to operation and maintenance

As well as coming in a combined bundle, ABB Ability™ Asset Manager is also available separately.

ABB Ability™ Asset Manager adds value by providing analysis of field device data that delivers granular visibility of your asset behavior in real time. This solution detects potential faults through condition assessment, performance trends and pre-alarm notifications and enables predictive maintenance that significantly reduces unplanned downtime and operational costs.

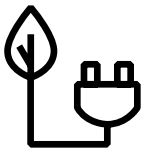


Operations

Maximize uptime

- Monitor up to 70% of potential asset failure causes
- Minimize risk of unplanned downtime through predictive analytics
- Increase asset lifecycle with optimized maintenance cycles
- Avoid expensive emergency services

Installation



Easy to install and use

- Integrate digital switchgear and equipment quickly
- Digitalize existing assets with plug and play kits
- Connect to cloud and run ABB Ability™ Asset Manager within one hour
- Ability to pilot and easily scale to multiple sites

ABB Ability™ Asset Manager
A smart interface

Every facility sets different asset performance targets, and that's why the ABB Ability™ Asset Manager widgets can be customized for the specific needs of your business. And you can define, compare and access the most relevant results with maximized efficiency.

Condition monitoring
Granular visibility of your asset behavior in real-time for both LV and MV environments

Maintenance planning
Root-cause analysis of asset condition enables predictive maintenance

Health analysis
Get the full picture of your connected assets' health with clear categorizations for appropriate action, from "Very poor" (mostly failed, urgent action required) to "Very good" (as new, no action)

Power factor
Monitor the power factor of every available asset within a defined period

Alerts
Automate your alerts and receive immediate feedback on the status of your site via email or SMS

Digital twin
Access asset data, documentation, historical data and more

Events and notification
Set up alerts and notify key personnel remotely when an action needs to be taken

Reporting
Get scheduled reports with relevant site information. Fully customizable to your needs, receive reports by device group and time, with the ability to compare your data

Power quality
Access real-time data on parameters associated with each asset

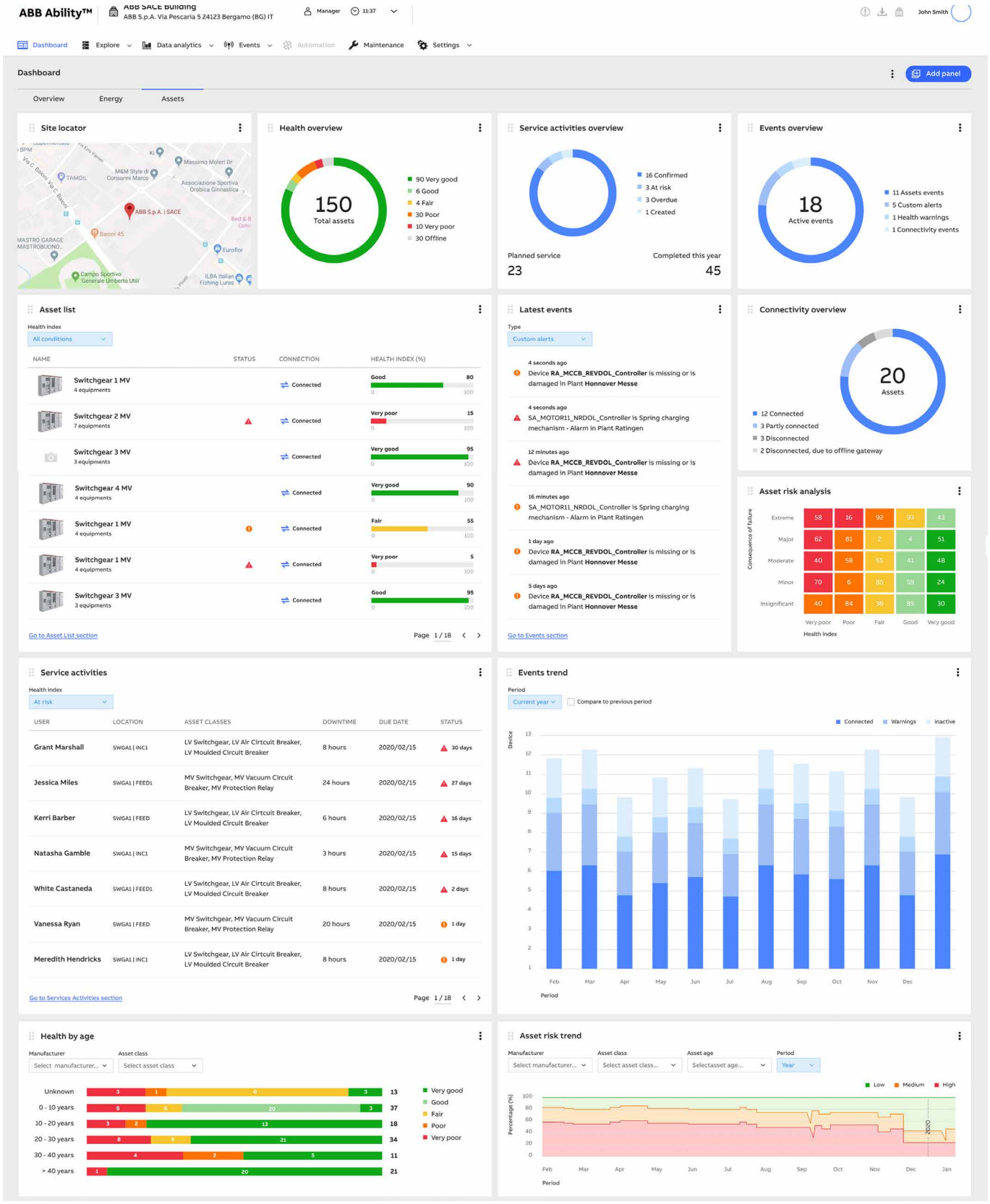


ABB Ability™ Asset Manager

ABB Ability™ Asset Manager
A world of applications

ABB Ability™ Asset Manager sets a new benchmark for simplicity and flexibility in asset performance management. It gives you the power of seeing and optimizing your site equipment behavior anytime, anywhere. From facilities to process industries, through to data centers and utilities.

Utilities

Asset critical industries like electricity and water utilities

- Increase transparency, resiliency and operational continuity
- Improve safety with remote health analysis
- Optimize maintenance activities and asset lifecycle
- Reduce total cost of ownership

Process

Asset intensive industries like mining, oil, gas and chemical plants

- Identify and remediate equipment issues
- Avoid productivity loss and reduce maintenance costs
- Ensure the highest level of power reliability
- Maximize uptime, safety, speed and yield

Manufacturing

Industrial plants like food & beverage and automotive

- Improve equipment performance
- Ensure maximum product quality and consistency
- Lower costs and emissions
- Prevent costly downtime and product wastage

Data centers

Critical power systems, like in data centers and hospitals

- Ensure reliable power supply and continuous efficiency
- Detect any anomaly to optimize your assets
- Ensure maximum uptime

Buildings

Mid-large commercial buildings like hotels, malls and offices

- Remotely view, manage, and optimize building systems
- Implement predictive (condition-based) maintenance
- Ensure reliability and availability of power and equipment

Architecture

ABB Ability™ Asset Manager enables the collection of relevant information from your medium voltage power distribution system and gives you the power of seeing and optimizing your site equipment behavior anytime, anywhere via an intuitive graphic interface, resulting in greater reliability, availability and minimized unplanned maintenance.

Cloud

- Predictive maintenance
- Load forecasting
- Analytics

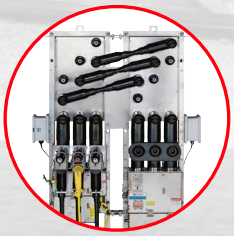
Cloud view

Edge/ On-premise

- Trends
- Status
- Alerts
- Alarms

Local view

Swicom HMI



Elastimold™ Solid Dielectric Switchgear

Connected Solutions

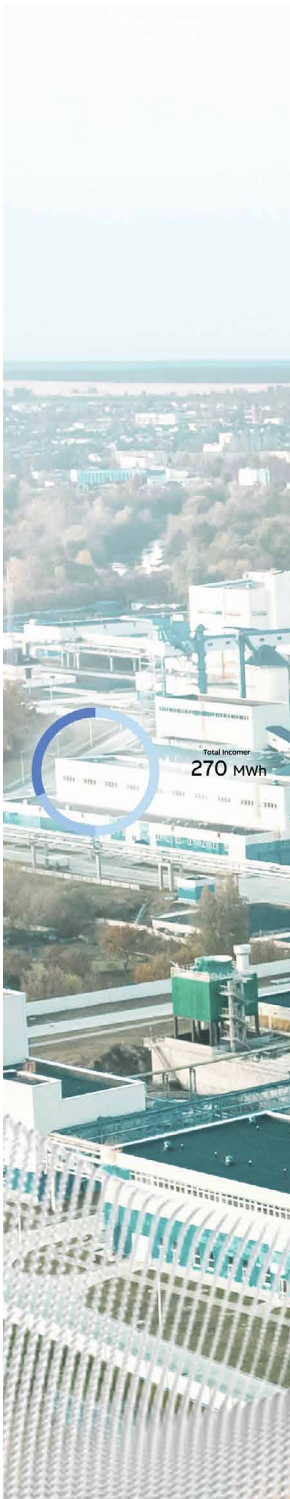
- Local Status
- Local Alerts
- Local Alarms

ReliaGear™ ND

Elastimold™ Recloser

ABB Ltd.
305 Gregson Dr.
Cary, NC 27511
United States

ABB Ability Energy and Asset Manager



© Copyright 2022 ABB. All rights reserved.
Specifications subject to change without notice.

9AKK108466A9025