

ABB Ability™ and EAM explained

What is ABB Ability™?

- Cloud-based digital connectivity platform from ABB
- Enabling technology for managing operations at end-use level
- Leveraging AI and ABB's codified domain expertise
- Helps improve operating efficiencies and safety
- Drives cumulative operating cost savings – direct and indirect

Note: our online [ROI calculator](#) is a useful tool to estimate approximate savings potential at end use.

What is ABB Ability™ EAM?

- ABB Ability™ Energy and Asset Manager ([EAM](#)) is a subscription-based **Software as a Service (SaaS)** platform
- Data repository with pre-configured widgets for dashboard visualization of energy consumption, power quality, energy forecasting, asset health monitoring, predictive functions, etc.
- Connects easily to site-installed hardware like circuit breakers ([Emax2](#), [TmaxXT](#)) and digital devices ([EkipUP](#), [Edge Gateway](#), [CMS-700](#), [Swicom](#), and [Relion](#)) ... and more.

How does Ability™ EAM work?

- Secure device to cloud connectivity from one or more locations with data presented in a pre-configured, user selectable dashboards online
- Focus on **simplicity** = no programming, no graphics development, no tags, no coding
- Intended for use by multiple functions in any organization to manage energy and assets
- Safe, simple, scalable, secure, and economical digital upgrade of existing installations (brownfield retrofits) with little to no disruption on site
- Integrates into new equipment (greenfield) as embedded technology

What value-add does Ability™ EAM bring?

- [Operating cost savings](#) through energy/asset management, predictive maintenance, etc.
- Platform value by way of consolidating a spectrum of plant data into one cloud location
- Aligned with [ISO50001](#), [LEED](#) and [IEC60364-8-1](#) to track and improve energy efficiency
- Local device-based functions include advanced protection, load management, ATS, etc.
- Focus is on **simplicity** and **safety** and **cost saving** in implementation and operation
- Key value-add by stakeholder is summarized below:

Stakeholder	Ability™ value-add
Engineer Consultant	System concept and architecture facilitates faster design and specifications, component selection with clear value demonstration.
Integrator Contractor Energy manager	Architecture comprises pre-configured web-app and automatic device mapping to drastically reduce wiring and equipment footprint. Simple installation with cost savings and safe implementation.
Owner End-user	Simple solution offers end-user full flexibility and ownership of their plant/process/assets. Focus on OPEX rather than CAPEX simplifies decision-making. Cost savings through process and energy efficiency.

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Where does Ability™ EAM exist?

- ABB Ability™ including EAM exists in the Microsoft Azure® environment
- Leveraging the [close partnership](#) between ABB and Microsoft® towards [sustainability](#)

How secure is Ability™ EAM?

- Strong focus on cybersecurity by ABB and Microsoft®
- Multi-level encryption, verifications, checks & balances, etc.
- **Important:** cybersecurity is never a final solution but a rapidly moving target in a dynamic landscape. Threat mitigation is a continuous effort (individual and collective) at every stage of development and every level in an organization, to address intentional threats, inadvertent lapses, and vulnerabilities, effectively and proactively, to the extent possible.
- For more information, please read our whitepapers on cybersecurity:
[ABB-MSFT-NXP Cybersecurity Whitepaper 2021.pdf \(microsoft.com\)](#)
[Protecting-data-unsurpassed-industrial-cybersecurity_2020 \(abb.com\)](#)

How is Ability™ EAM sold in Canada?

- Hardware and accessories/firmware sold through standard sales/distribution channels as loose components and/or packaged solutions based on customer need and application
- Configuration software downloadable free of charge (programming cable one-time purchase)
- Selection tool for EkipUP and other products freely available for download
- EAM SaaS offered as an annual subscription directly online at [ABB Marketplace™](#)

Weblinks for more information:

- [ABB Ability™ in Electrification](#)
- [ABB Ability Energy and Asset Manager | Monitoring Software](#)
- Video links → [EAM intro](#), [Asset Manager](#), [Edge Gateway](#), [EAM live demo](#)
- ... or simply email us at ability@ca.abb.com

