Glossary of terms
ABB Ability™ Performance Optimization for Hoists
Version 2.0
ABB Ability™ Platform
The platform is made up of software components from two major areas: Microsoft and ABB.

Microsoft is our key partner who delivers key platform software components across all layers of our technology stack. (Note: Ability™ Platform does not leverage ALL of Microsoft Azure. Only some key components.). Microsoft Azure is one of the top public cloud providers across the globe (#2 public cloud in the world after AWS, and #2 in China after Ali Cloud). Strong PaaS capability which can maximize the value for ABB.

ABB components are developed by the ABB Ability™ team as well as by ABB Businesses, Business Lines, and corporate research who are contributing software to be used across ABB.

ABB Fingerprint
A one-time audit partially executed at customer site and ABB office. It is a specified, focused analysis of a process or system. A Fingerprint has a clearly defined scope, a specified set of deliverables and includes an implementation plan for recommended improvements. Recommendations for improvements are documented in a report and presented to appropriate customer personnel when the diagnosis and analysis process is completed. A Fingerprint does not include tuning, repair or replacement activity.

ABB Remote Access Platform (RAP)
A platform that provides a secure connection to the site, configured to meet all IT and regulatory security requirements. Comparable to a VPN connection, the RAP provides a custom firewall between the ABB Support team and ServicePort. An established remote access link enables fast access to a larger pool of technical and global support resources and enhances the efficiency of service delivery and effectiveness of support, while eliminating some or all associated travel costs and delays.

Amplitude
A measure of the degree of change in a process.
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<th>Term</th>
<th>Definition</th>
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<td><strong>Argus</strong></td>
<td>Argus is a powerful measuring system, developed by ABB Service in Sweden, for fault-tracing, condition monitoring and performance monitoring of electrical equipment. It is used by ABB Service technicians as well as by customers’ personnel for troubleshooting, service and preventive maintenance.</td>
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<td><strong>Cloud</strong></td>
<td>Location for the aggregation, processing and storage of data. Related: Cloud analytics, Microsoft Azure</td>
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<td><strong>Collaborative Operations Center</strong></td>
<td>ABB Mine Hoist Experts monitor, analyze and create reports. They recommend optimization opportunities. They close the loop by coordinating and managing the work with ABB Hoist engineers on site.</td>
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<td><strong>Cybersecurity</strong></td>
<td>Use of diverse tools and techniques to protect systems, networks, computer programs and applications from cyberattacks</td>
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<td><strong>Dashboard</strong></td>
<td>The KPIs are displayed in the dashboard and present insights and recommended actions. Central experts set up rules that automatically create cases.</td>
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<td><strong>DevOps</strong></td>
<td>Set of practices combining software development (Dev) and information technology operations (Ops) with the aim of shortening the system’s development lifecycle and continuously deploying new software versions to the cloud</td>
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<td><strong>Digitalization</strong></td>
<td>Use of digital technologies and principles to harness data and transform operational processes, engagement and interaction between a company and its customers; and create opportunities to maximize revenue and profitability</td>
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<td><strong>Edge</strong></td>
<td>Software and hardware running near the source on premise, securing the connection between the cloud, control systems and smart devices; and acting like an application execution platform</td>
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**Edge computing**
Practice of processing data near the edge of the network, where the data is being generated instead of relying on the cloud, to improve response times and save bandwidth.

**Edgenius**
The Edgenius Hardware is installed at customer site and is a secure gateway between site and cloud. KPI values are collected from iba and transferred to ability platform.

**HMI (Human Machine Interface)**
Hardware and software that allow user inputs to be translated into signals for machines that, in turn, relay the required result back to the user.

**Iba**
Close to the hoist process we have our logger installed to collect data. A real-time analyze is done in the iba and a KPI value is calculated. Raw data is stored on site while KPI values are transferred via OPC UA to Edgenius.

**Industrial AI**
Application of Artificial Intelligence (AI) to industrial processes and application of technologies to address industrial pain points for customer value creation, productivity improvement and insight discovery.

**Information model**
An information model is a precursor to a data model, contains diverse pieces of information about an entity and is used for definition of common terminology. An example is the ABB Information Model, which collects data in a standardized format so any IIoT device, system, or process can be monitored, managed, and analyzed.

**IoT (Internet of Things)**
The global network connecting any smart object

**KPI**
Key Performance Indicator,
A quantifiable measure used to evaluate the success of an industry process performance.
Mean, Median, Mode numbers
In a series of numbers, the mean is the average, the median is the middle number, and the mode is the most frequently occurring number.

Range
The difference between the high and low points of a wave.

Release
Distribution of the final version of an application, which may be preceded by alpha and beta versions of the application.

SaaS (Software as a Service)
On-demand, subscription-based access to software without the need to invest into licenses in perpetuity and for use, delivery over a central network such as the Internet.

Sampling Rate
The period of time between the data points of a sampled signal. This typically can be 1 second to 10 seconds for loop performance analysis.

Sensor
Device used to detect and respond to electrical or optical signals by converting a physical parameter into a signal which can be measured electrically.

Sine Wave
A mathematical curve that defines a smooth, repetitive oscillation.

Statistical Process Control
A method of quality control based on statistical data derived from a process and mathematics and analysis.

Variance
The average of the squared difference from the mean. In process control, the variance is the shift away from the mean based on data selected when the process is running at optimal levels.
**View**
A functional part of ServicePort Explorer that allows customers and ABB personnel to view raw data associated with each channel without analysis. View is a critical function to validate results presented by automated analyses.

**Warm data**
Data that is analyzed frequently but not required on a constant basis and is typically retained for a short to medium time period.