
ABB MOTION SERVICES

ABB Ability™ Condition Monitoring for drives

Get new features by updating to CMD 4.1.3

Notice

ABB Ability™ Condition Monitoring for drives (CMD), new version 4.1.3 is available with enhanced features. Users of CMD 2.4.0 (earlier called as RCM) can switch to CMD 4.1.3 and benefit from the new features.

What's new in CMD 4.1.3?

- Event list with self-service feature for efficient fault evaluation
 - Users can self-evaluate faults using data collected around the fault condition (dataloggers, trends, etc.).
- Enhanced email alert feature
 - Possible to
 - limit number of emails per day to avoid email spamming.
 - configure email alert when the limit is exceeded.
- User limits
 - Users can
 - define limit for line trends.
 - define customized limit for each trend signal.
 - monitor the drive and confirm it is operating within the defined limits.
- Enhanced condition-based maintenance
 - Improved lifetime estimation for components.

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- Fleet report
 - Possible to generate fleet report for your drive fleet (maximum 15 drives) to know how well the drive fleet is operating.
- Changed parameter list
 - A list of parameter changes can be detected by the gateway daily.
- Scalable digital services for drives
 - Users can choose features as per their needs.
- IoT Drive Connectivity panel support (for example: ACS880, ACS580)
 - This platform supports drives connected to IoT Drive Connectivity panel for regions where narrow band network is available.
 Note: IoT Drive connectivity panel is currently available only in China.
- Onboarded new drives
 - Supports new drive types (for example: ACH580, ACS530, LCI, ACS6080).
- Improved performance
 - Increased speed and availability in remote service.
- Cloud Interface Rest API support

Cloud Interface Rest APIs are:

 - available for all drives supported in this platform.
 - used to obtain information on drive measurements, events, KPIs, etc. with monthly throughput limit of 2 GB data per drive.
 - used to generate own solutions/dashboards/analysis based on available use cases.
 - easy to integrate and build on open standards such as OpenAPI and OAuth2.

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Drives compatibility in CMD 4.1.3

- Platform CMD 4.1.3 supports all drives supported by platform CMD 2.x with the following exceptions:
 - DCS800
 - Megastar
 - ACS800 packages not supported:
 - ACS800 BJXXxxxx Winder control program
 - ACS800 BZXXxxxx PCP/ESP control program
 - ACS800 AVXRxxxx Spinning and Traverse control program
 - ACS800 APXRxxxx Motion control program
 - ACS800 BHXXxxxx Inline control program
 - ACS800 BRXRxxxx Rod pump light control program
 - ACS880 packages not supported:
 - ACS880 ATCL Tower crane control program (+N5650)
 - ACS880 QTPL Top drive control program
 - ACS880 APCL Position control program

Note: Platform CMD 2.x can still be used for DCS800, Megastar and the missing ACS800 and ACS880 packages (see in list above).

Availability of historic data in CMD 4.1.3

- Data of following drive types is available from April 2020
 - ACS800 (Except ATXR)
 - ACS880 (except DSU, ATBL)
 - ACS580, ACQ580, ACH580
 - ACS580MV
 - ACS1000
- Data of following drive type is available from June 2020
 - ACS6000

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- Data of following drive types is available from August 2020
 - ACS2000
 - ACS5000
- Data of following drive types is available from September 2020
 - ACS880 DSU, ATBL
 - ACS800 ATXR
- Migration of history data
 - Migration is ongoing to move the history data from CMD 2.x platform to CMD 4.x. It is expected to complete the migration by end of year 2020, so that at least 1-year data for all drives is available in the new platform.
 - Drive experts can still generate expert reports during Q4 2020 using platform CMD 2.x.
 - Migration includes all email alert configurations for all users from CMD 2.x to CMD 4.x. No additional effort is needed from users.

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