ABB MOTION SERVICES

ABB Ability™ Digital Powertrain
What’s new? PT19

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Note: In this document, ABB Ability™ Digital Powertrain portal will be referred as “Powertrain portal”.

**New features for rotating equipment**

**Generate instant fleet report for motors**

In Powertrain portal, you can generate and view an instant fleet report for motors and get a deeper insight of the assets in operation. You can store, query, and trigger different fleet reports for the motors in the selected organization.

**Note:** The report is visible for the assets that the user has access to.

In the portal, click **Reports**. In **Report type**, select Instant fleet report for motors.

You can do the following actions:

- **Generate** a new report based on the report type, organization, reporting period and measurement unit.
  - A new report appears in **Pending** status when the generation is still in progress.
  - The new report generation is successful only if sufficient measurement data (past 30 days) is available. The status then shows as **Completed**.
  - The new report generation can fail if there is insufficient measurement data. The status shows as **Error**. You can trigger raw data collection and retry to generate the report after data is available.
- **Filter** or search an existing report based on the report name, report type and the last updated or reporting period.
- **Download** a generated report in **Completed** status and **view** the report in PDF format (see below sample report format).
Sample report:
Enhancements for rotating equipment

Commissioning of sensors for synchronous motor type

Note: The Smart Sensor mobile app release will be tentative in two weeks.

In Smart Sensor mobile app v.8.15 and later, you can commission a MACHsense-R for synchronous motor type like the Gen1 sensor. The verification of motor type is based on the name plate information provided by the user. If the slip is equal to zero, the app identifies the motor as synchronous motor type. See the below sample screens:
Profile validation via MACHsense-R channels

In Smart sensor mobile app v.8.15, you can select any number of pre-defined or dynamic profile combinations based on the available MACHsense-R channels. The configuration profiles define the sensor type and its associated KPI used for monitoring an asset.

Associating multiple profile combinations with one asset enables monitoring many motors along with additional set of bearings or additional sensors or motor body which may not be included in the standard profile.
Enhancements for drives

ACS860 drive onboarded
In Powertrain portal, the ACS860 drive is onboarded only for China users. The drives are connected through NETA-21 or Edge gateway.

<table>
<thead>
<tr>
<th>Drive type</th>
<th>Software name</th>
<th>Loading package</th>
<th>Firmware name</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACS860</td>
<td>ACS860 primary control program</td>
<td>QGKL</td>
<td>QGKF</td>
</tr>
</tbody>
</table>

ACS880 wind turbine converters onboarded
In Powertrain portal, the following ACS880 wind turbine converters are onboarded.

<table>
<thead>
<tr>
<th>Drive type</th>
<th>Software name</th>
<th>Loading package</th>
<th>Firmware name</th>
</tr>
</thead>
</table>
| ACS880     | ACS880 wind dual control software | WTDLU           | WTDLU_x_v4.00.242.0  
|            |                                |                 | WTDLU_x_v4.00.241.0  |
| ACS880     | ACS880 wind dual control software | WTDL            | WTDL5_v2.90.240.12  
|            |                                |                 | WTDL5_v2.90.244.12  |

Monitoring additional PP temperature for ACS800 drives
In Powertrain portal, the existing ACS800 drives monitoring includes additional PP5 to PP12 temperature parameters.

ACS6080 drive configuration is updated
In Powertrain portal, the existing ACS6080 drive configuration is updated to include the recent firmware changes, such as, removing unwanted parameters from monitoring list, adding required parameters to the monitoring list, updating parameter indexes and names according to the latest firmware version, and updating the access levels of certain parameters.