ABB’s Paper Machine Drives Automation Software Maintenance program for pulp and paper mills ensures greater availability and reduced maintenance costs with its lifecycle management program. This helps users easily move between system versions and major upgrades, in addition to accessing incremental updates and new features.

Overview

PMC800, ABB’s control package for paper machine drives, provides papermakers with a combination of software and hardware that helps them achieve the highest possible performance levels.

With the new ABB Paper Machine Drives Automation Software Maintenance (PM Drives ASM) program, pulp and paper mills have access to the latest software for enhancements between system upgrades, resulting in an overall improved and simplified upgrade process. Moreover, it unlocks complimentary licenses to some of the most popular applications to increase performance and system availability.

ABB’s PM Drives ASM program exclusively features a tiered subscription service that allows customers to access the latest updates within their current version whenever they may want them – including patches, new features, and more. By taking advantage of incremental system updates, mills can cost-effectively achieve enhanced performance and improved production – while reaching the next level of cyber security.

Features

- Two subscription options to align to system status and upgrade needs
- Access to the latest updates, patches and features all on an on-demand basis for PMC800 and higher
- Free licenses to ABB’s newest drives software applications like Datalogger, PM Drives Performance and more
- Ability to upgrade from legacy system versions including new licenses and functionality
- myABB business portal access that enables program management, premium system documentation etc.

Benefits

- Improve operating performance with access to latest HMI and diagnostic features
- Increase machine control safety with conformance to latest international machine safety directives
- Better manage and predict your total cost of ownership
- Reduce maintenance and support costs through shorter software delivery times
**Proactive system management**

The program provides the fundamental software support and deliverables required to maintain operation and maximize the availability of PMC800 – including software enhancements between system upgrades for customers with PMC800 v6.0 SP1 or higher. This keeps drive control software up to date, providing solutions for the main challenges system owners may encounter to achieve maximum availability and reliability such as:

- Software maintenance and upgrades
- Cyber and IT security
- Online access to relevant information
- Control system software and performance checks

Customers who want to cost-effectively improve their system, or those who are ready to make phased upgrades, can now do so more easily. These newer system enhancements are all geared to improve plant effectiveness and long-term support. Plus, the subscription model helps mills simplify annual budgeting while also gaining a clearer understanding of the CAPEX and OPEX costs when making a drives investment or starting an upgrade project.

Examples of recent feature releases subscribers could have accessed include:

- Unlocks latest interaction window and online help files for better troubleshooting
- Keeps your machine within safety directive compliance
- Access to drive control features for all machine sections (sizer, calendar)
- Align each machine section upgrade with the latest controls

**Machinery safety library and updates**

Program subscribers have access to the safety software packages that help to make the drive control system, devices and their components comply with relevant European and international safety standards. This includes the safety requirements for the design and construction of papermaking and finishing machines as well as adjustable speed electrical power drive systems. Safety functions like an emergency stop, ability to turn safe torque off and start-up warnings, among others, are included in the safety software packages along with relevant displays.

**Improved interface**

**Compact HMI** – provides access to this display option for machines/twin drum winders using compact control builder drive control package. The feature is available from PMC800 v6.1 providing a graphics display similar to 800xA.

**High Performance HMI** – this display package is an enhancement over standard 800xA displays for PM Drives’ control. High-performance graphic elements display process information with minimal distraction to operators and are available for all packages of machines in 800xA from PMC800 v6.1.2.

**Complimentary licensing for premier applications**

A special value-added benefit of this program are the multiple licensing fees that are included. Customers can pick and choose precisely what they want to implement, and they can implement it at any time within the three-year subscription. For instance, with only the cost of minimal installation requirements, you can get:

- PMC800 Datalogger: based on Real Time Database (RTDB), which can collect configured data on a millisecond level, and store it for several months. This helps with fault tracing, as any event in the history can be analyzed later.
- Winder/Paper Machine Drives Performance captures and continuously updates performance indices to provide maintenance and production teams with up-to-date drive performance status, advanced warnings on potential failures and predictive root cause insights.
- Special Reel Library: Gain access to optional control libraries for special reeling sections (Opti-reel, Sirius reel etc). Particularly useful when machine reel parts are upgraded.
Cyber Security
ABB fully honors the importance of cyber security and its role to advance the security of control systems. ABB customers can rely on system solutions where reliability and security have the highest priority. Similar to process and safety improvements, security improvement needs to be a continuous activity.

Improvements are always prioritized and included as an integral part of the release cadence to enhance security against cyber-attacks and new threats.

PM Drives ASM offers two program levels of support to provide greater flexibility for mills.
The two program levels available are:

1. **Maintain Plus** – Introduced to support our customers within the main PM Drives software version (from PMC800 v6.0 and above) and to provide access to different releases of PMC800 software within this main version. This gives flexibility for augmenting the base system by adding other features like machinery safety, PMC800 Datalogger with equipment structure and fast data access, or PM Drives Performance or Winder Performance, adding Compact HMI to compact solutions or updating 800xA displays to High-Performance HMI. This maximizes program value to our customers and also brings flexibility for the latest panel interfaces and drive interfaces.

2. **Maintain & Evolve** – This includes all the deliverables of Maintain Plus in addition to the ability to upgrade any obsolete PM Drives software to an active system version of PMC800. Maintain & Evolve will provide new licenses that are functionally equivalent to those of the heritage system to be evolved. (In some cases, an equivalent function has not been pursued or has been discontinued and will not be replaced, at the discretion of ABB.)

The PM Drives Automation Software Maintenance commitment periods and renewal possibilities are shown in the table at right. It is possible to renew to the higher program level **Maintain & Evolve** from **Maintain Plus** at any time during the **Maintain Plus** subscription period, as long as it’s before the expiration date. Each program level requires a three-year commitment when initiated.

### Commitment to lifecycle management
ABB’s lifecycle management program offers a two-pronged approach to maximize the value of your investments while optimizing asset life. PM Drives ASM allows our customers to choose the level of support and the upgrade schedule that works best for immediate business needs and long-term production targets.

### Program deliverables

<table>
<thead>
<tr>
<th>PM Drives ASM Deliverables</th>
<th>Maintain Plus</th>
<th>Maintain &amp; Evolve</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Obsolete PM Drives Software Upgrades</strong></td>
<td></td>
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</tr>
<tr>
<td>PPS200 to PMC800 current release</td>
<td>—</td>
<td>●</td>
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<td>—</td>
<td>●</td>
</tr>
<tr>
<td><strong>PMC800 Software Upgrades &amp; Updates to current release</strong></td>
<td></td>
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<tr>
<td>From PMC800 v1.x</td>
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<td>●</td>
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<tr>
<td>From PMC800 v2.x or higher up to v3.9</td>
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<td>●</td>
</tr>
<tr>
<td>From PMC800 v6.0</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Machinery safety library and updates</td>
<td>●</td>
<td>● 1)</td>
</tr>
<tr>
<td>Compact HMI (AC800 Base set)</td>
<td>●</td>
<td>● 1)</td>
</tr>
<tr>
<td>High-Performance HMI (AC800 Base set)</td>
<td>●</td>
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<tr>
<td>PMC800 Datalogger</td>
<td>●</td>
<td>● 1)</td>
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<tr>
<td>PM Drives Performance (for the subscribed period)</td>
<td>●</td>
<td>● 1)</td>
</tr>
<tr>
<td>Winder Performance (for the subscribed period)</td>
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<tr>
<td>Winder Optimization (for compatible versions)</td>
<td>●</td>
<td>● 1)</td>
</tr>
<tr>
<td>Special Reel Library (for compatible versions)</td>
<td>●</td>
<td>● 1)</td>
</tr>
<tr>
<td>Panel upgrade templates &amp; library (as per panel upgrade matrix)</td>
<td>●</td>
<td>● 1)</td>
</tr>
<tr>
<td>Drive interface (all supported ABB drives) (refer PMC800 product guide)</td>
<td>●</td>
<td>● 1)</td>
</tr>
<tr>
<td>Profinet/Profibus DP Drive interface for 3rd party drives (interface control module*) (* testing &amp; setup to be handled by LBLs)</td>
<td>●</td>
<td>● 1)</td>
</tr>
</tbody>
</table>

**MyABB & ABB Library Premium Access**
My ABB Technical Documentation and ABB Library Premium Documentation ● ● 1)

1) After upgrading to PMC800 version 6.0 or higher to which the feature is first released (as example Hi-Perf HMI is released in PMC800 v6.1.2).