
MAY 11, 2021

Beyond Connected Virtual Event

Questions and answers

1. We have a project which has 21 floors. We want to use CMS 700 for each floor to measure energy but we have lot of energy meters on each floor. Can I use **System pro M compact® InSite instead of CMS? and connect to the ABB Ability™?**

This is a great example that shows how we are moving from the previous platform of products to the new one. We want to ensure that not only the information coming from branch monitoring (CMS700) to a layout (Insite pro M), a system delivering information about branch monitoring, current sensors, meters, status of main breakers and connect to **ABB Ability™ Energy and Asset Manager**.

2. What about the integration of KNX?

With Rest API, we allow our electrical distribution system more easily connectable also to KNX system working on cloud. Alternatively, this also applies with a MODBUS to KNX converter that is already part of ABB portfolio.

3. Is there a pre-configuration of the kits?

The smart kits are pre-configured according to a selection of typical configurations, covering the monitoring, automation .

They aim to make the choice easier to Customers, ensuring enough flexibility for spare part components addition or integration with other kits depending on the specific needs.

They can be found in ABB Products and in the ABB switchboard configurator e-Configure Enclosures, available in **ABB Connect PartnerHub**.

4. How can TCP/IP device be connected? Through switching hub?

This functionality is already partially implemented, for example TCP devices can be sent through Rest API, and Insite Pro M can recognize these devices.

5. How to apply ABB solution to an existing system or panels?

Retrofit is also very easy. All components of the system are already compatible with existing layouts and with 3rd party devices. Insite Pro M control unit can be added within an existing panel as this is not influencing the heating of the switchboard itself, or eventually in a separate small box in case there's not enough space. Information can then be collected through open core I/O modules, which can be installed at any stage through the current sensors. Energy meters and power meters can be added also at later stage, as they are equipped with Rogowski coils.

6. What about security firewall?

Firewalls depend system by system and by the application itself. All ABB digital solutions go through a very demanding cybersecurity verification process following the most updated rules of the field, to ensure the information collected is not put at risk.

7. ABB Energy management system is only accessible via web/cloud or it comes with handphone/mobile app ?

ABB Energy management system is fully accessible via webserver and cloud, not via dedicated app. However both of them have mobile version.

8. What are the differences with SCADA and BMS systems?

SCADA and Building Management System (BMS) are supervision systems to be selected according to specific application needs. Our smart sub-distribution system it's flexible and scalable to be integrated with both of them.

9. Let's say we have several meters which measure energy individually. Is it possible to monitor by a single meter?

System pro M compact® InSite has the possibility to integrate up to 16 meters through the Insite webserver there are dedicated pages to monitor each single meter separately. Alternatively, with the grouping function, you can generate groups and monitor the cumulative information.

10. Is the ABB smart solution applicable only to ABB panel-boards or also on other manufacturers' panels?

ABB smart solution is independent from the panel itself, and it can be also integrated into other manufacturer's panels both for greenfield and brownfield applications.

11. The Ekip E-hub2.0 can use to connect to the ABB Ability™? I know that the 3G connection is not available in Asia/pacific region but any chance to connect with using WiFi? We have one at our place but not connecting WiFi. only working on Ethernet.

For the time being, the existing product works over Ethernet. We are evaluating wireless options for future developments.

12. Do you think about an online simulator of system to show its potentials to end customers?

We have demo installation already available for promotion by the ABB sales teams, and we also have demo box simulating the system. Thank you for the great suggestion, we will surely keep into consideration for upcoming developments!

13. Is the new ABB Ekip Lite panel available?

The new ABB Ekip Lite panel is officially released. Please, verify with your ABB local contact for availability in your market.

14. Do you provide some device like data concentrator or metering device with IEC61850 communication protocol instead of Modbus protocol?

In ABB portfolio many products are integrated and enabled by IEC61850 communication protocol, typically related to main breakers and medium-voltage portfolio rather than sub and final distribution devices.

15. Can you present better the smart kits?

The smart kits are thought to make the selection and installation easier. The aim is to deliver ready-made, pre-configured and pre-installed kits for the sub-distribution panels delivering a set of capabilities in one order code.

Then you can surely expand according to specific needs, by adding spare components or another kit.

They can be found in ABB Products and in the ABB switchboard configurator e-Configure Enclosures, available in ABB Connect Partner Hub.

16. What are the basic pre-requisit for upgrading any brownfield project?

Main requisite is to have the opportunity to install the component, hence to have space for the central unit in the existing panel. As it is not changing that much the existing configuration of the panel, by having the point of access to the information a lot of other ABB devices are suitable for retrofit. For example, the current sensors are open-core sensors that can be installed even on 3rd party devices. The same applies to the meters, provided with Rogowski coils. I/O modules can also be integrated in any type of configuration, as they are compatible with any ABB or 3rd party protection device already in place.

17. Do we have software tools for design, bom and configuration

Besides the tools presented during the event, ABB tools for electrical distribution boards design, BOM and configuration can be also accessed digitally through ABB Connect PartnerHub.

18. Can it be used for medium voltage to high voltage industrial buildings

ABB Ability™ Energy and Asset Manager cloud platform is built to tailored application up to the medium voltage level, where the solutions in the portfolio are integrated to monitor asset health and energy related information, especially in the cloud.

Find out more information on solutions.abb/beyondconnected and do not hesitate to contact your ABB representatives for additional details.