

Fact File

Low Voltage Switchgear Service Extension, Retrofit and Upgrades

When a plant or a process increases, this will often mean that additional capacity is required from the low voltage switchgear.

In case of **Extension** there are many options to be considered:

- Additional switchgear panels,
- Additional circuit breakers or functional units such as motor starter,
- Enhanced functionality of motor starter.

These types of expansion to the system requires in depth knowledge of the original switchgear supplied. Further, all environmental and electrical characteristics must be evaluated.

ABB Service offers the following extension services:

- On-site analysis to define the best solutions ,
- Engineering and manufacturing of the extension based on the original specification,
- Errection, installation and commissioning assistance.

MNS low voltage switchgear simplifies and optimizes the extension with the following features:

- Standardized MNS and MNS *iS* parts and modules such as functional units,
- The MNS engineering tool, which guarantees backwards compatibility to the original system,
- Site analysis for cubicle extension including short circuit and heat loss calculation.

On-site services by ABB ensure the correct installation and commissioning of new units and panels.



Before installed switchgear products and solutions reach the end of its life time, ABB offers **Upgrade and Retrofit** solutions.

In close cooperation with our customer, the current site status will be thoroughly evaluated and the best option for upgrade and retrofit will be proposed.

Upgrade for intelligent switchgear solutions in MNS are:

- Replacement of intelligent devices with state-of-the-art devices from ABB product portfolio for life time extension of the switchgear
- Conversion of conventional switchgear to intelligent solution for better diagnostic and maintenance
- For MNS *iS*, upgrade solution with extended functionality and diagnostic solutions such as MService are offered.

For more information, contact your local ABB representative or visit: www.abb.com/mns

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