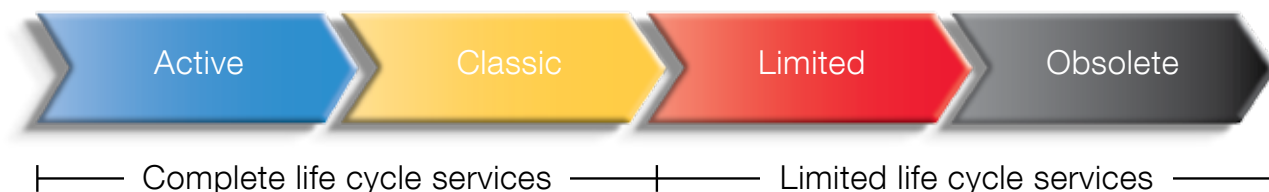


## UNITROL® F life cycle status

The easy way to connect with your UNITROL® system

ABB Power Electronics life cycle phases



### Life cycle status

UNITROL F moves into the limited phase in 2017. In this phase, ABB cannot guarantee life cycle services and support due to the scarcity of key components and technical knowledge.

The Product Life Cycle Management program is offered in all phases of UNITROL's life cycle. With ABB, you have a strong and reliable partner to define your optimal operation strategy.

### Recommended service offerings

ABB strongly recommends migration planning to the latest technology before degradation affects performance, as the product moves into the limited phase. To ensure product reliability and optimum performance, ABB offers various services including:

- Spare parts
- Performance Review
- Replacement
- Control Upgrade to the UNITROL 6000 platform (on request)
- ABB Excitation Care service agreement

For more detailed information, please see next page:

# Life cycle services

## Performance Review

ABB's UNITROL® Performance Review identifies all excitation system components that suffer from aging. In addition, all available spare parts are assessed and complementary spares are recommended.

To ensure the correct and safe operation of the system, all critical protection devices and system settings in various operating conditions are tested.

The Performance Review identifies improvements to increase the overall performance of a system such as upgrades, retrofit or replacement. Performance Review benefits can be optimized through:

- Closed loop testing with real-time transient simulation
- On-site maintenance and operation instructions



UNITROL® 6000 Power

## Spare parts management

Some circuit boards may be coming to the end of their operational life and component scarcity may hinder any replacements being available. ABB's target is to create awareness of the progressed life cycle and to inform which spare parts are affected. Please contact your local ABB office today for a spare parts list.

## Replacement

The replacement service means the controller and the complete excitation system can be migrated to an active product family. The availability of all feature types and services are clear advantages of this service.

The extremely flexible and powerful UNITROL 6000 is the optimal product for large applications and technically more demanding solutions.

By considering a replacement, users are able to capitalize on the features of a product still in its active phase, thereby eliminating any risks associated with equipment entering the obsolete stage.

## ABB Excitation Care - service agreement

ABB is committed to the reliability of its customers operations. Its service offerings provide the opportunity to maximize production uptime and lower life cycle cost. With the service agreement, ABB Excitation Care, the customer receives guaranteed fast and prioritized response time, secured service engineers availability and reduced hourly rates for troubleshooting.

## Control Upgrade (on request)

The Control Upgrade service includes the replacement of the legacy components of the control cabinet with the new UNITROL 6000 control platform, while retaining the existing power part.

This service allows the existing system to be exchanged for an active control platform. This increases the reliability of the installation and the availability of spare parts product expertise is ensured. The bigger the existing system and the better the condition of its converters, then the more beneficial is the upgrade. This results in valuable cost- and time savings compared to a full system replacement.

For more information please contact:

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