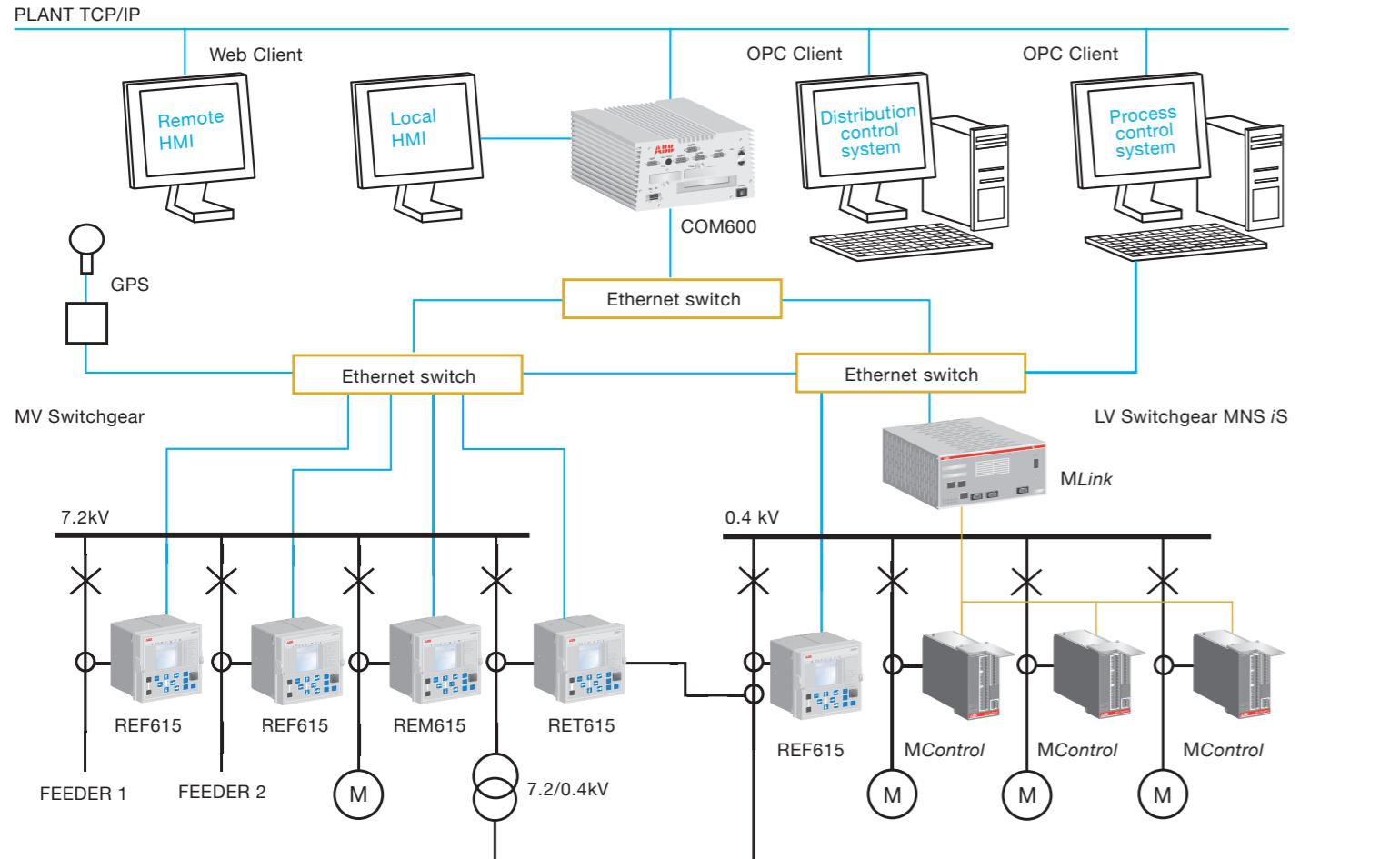


# Communication and components overview



The described architecture is one of the several possible within the eSI concept, offering the simplest though complete functionality.

## All-in-one communication gateway COM600

COM600, the station automation device of ABB, is an all-in-one communication gateway, automation platform and user interface solution for utility and industrial distribution substations. As a user interface solution COM600 accommodates web technology based functionalities providing access to substation devices and processes via a web browser based human machine interface (HMI).

## Communication interface module MLink

The communication interface module MLink serves for the serial gateway interface to higher level systems which communicates through the internal bus to all MControl modules.

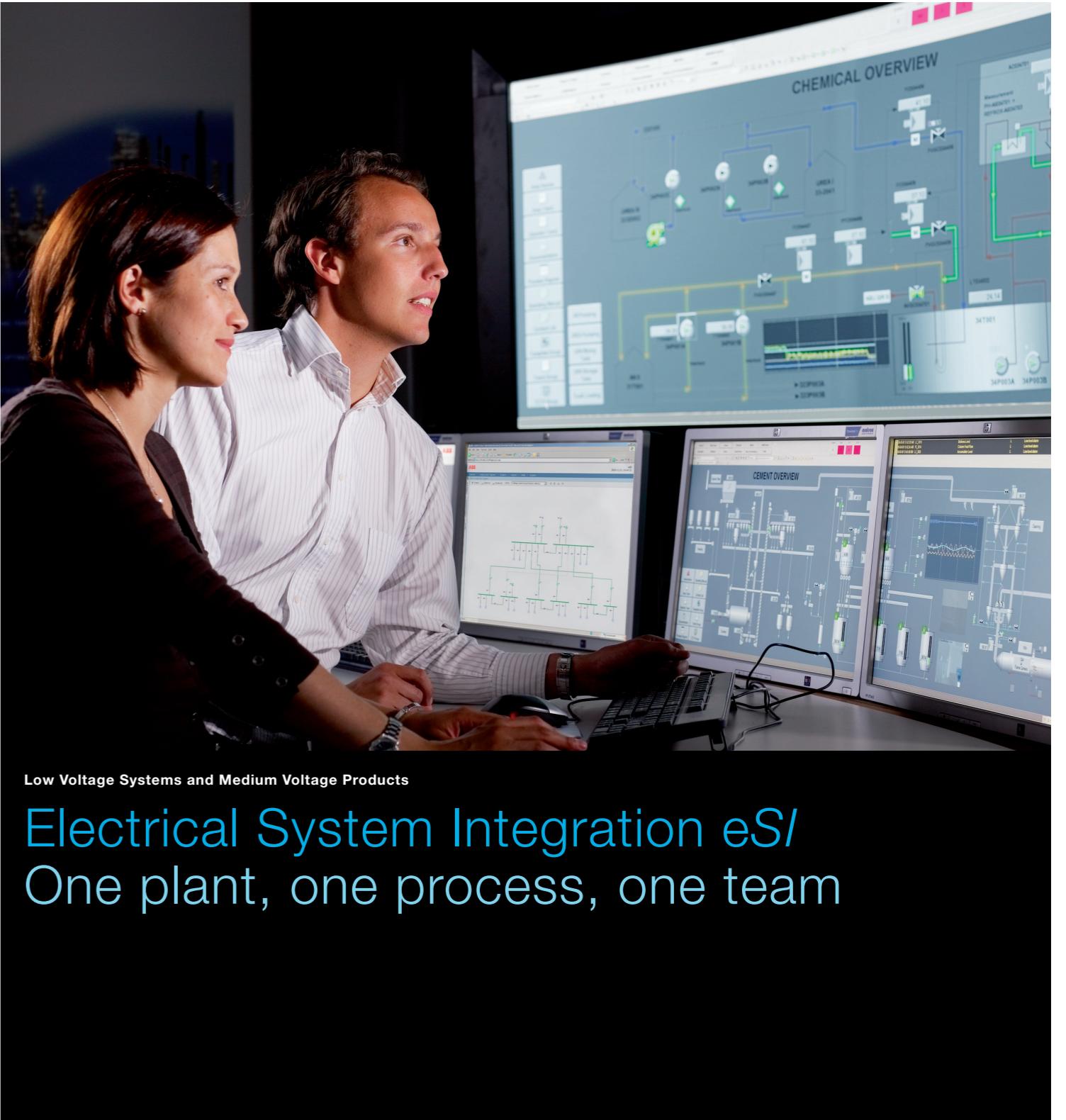
## MControl - Motor starter control unit

The MControl is a powerful and modular platform for communication, control, data processing and protection functions. The main control board is based on a microprocessor platform and includes memory for application and process data and a fast communication interface to MLink.

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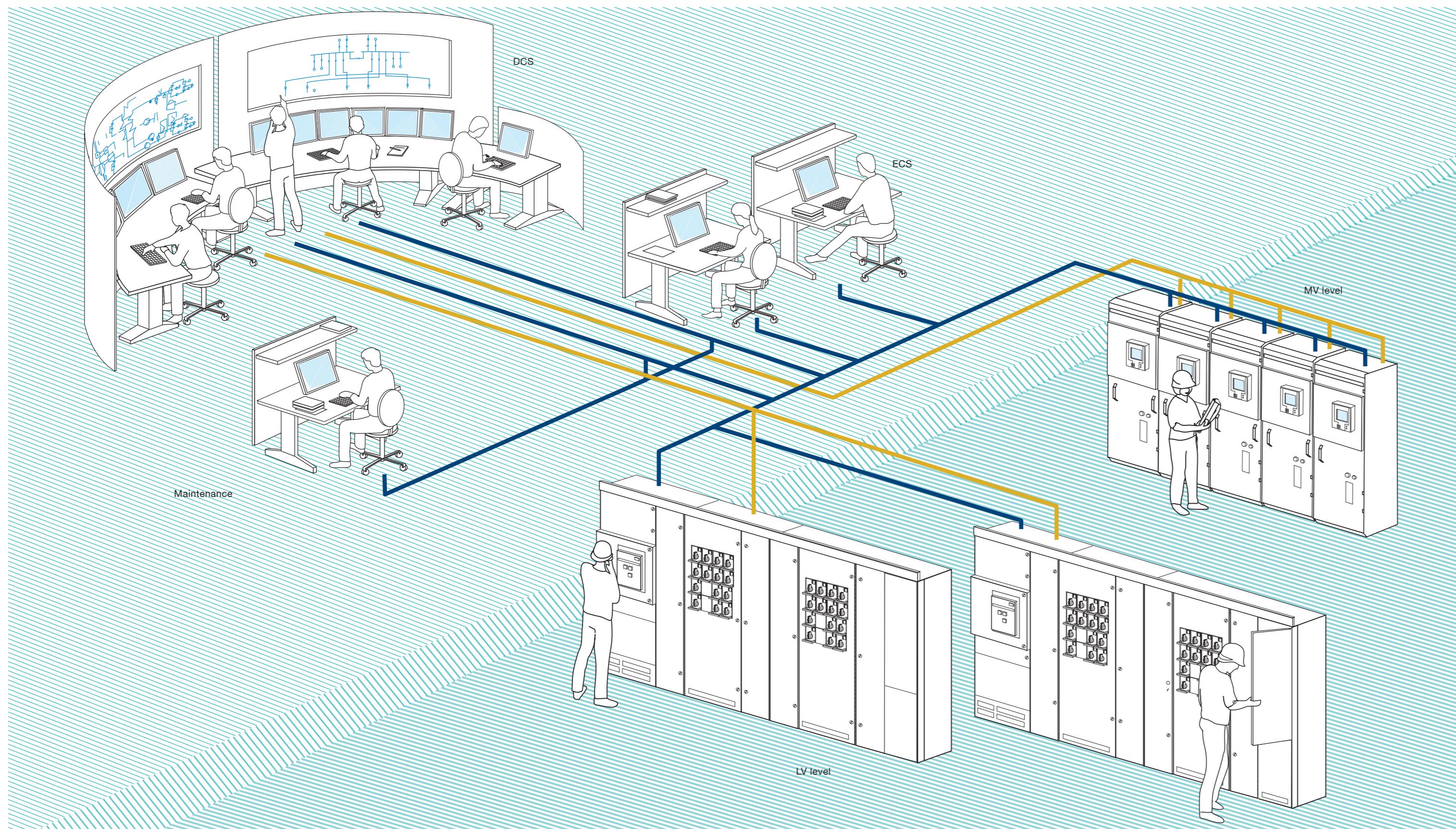
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Low Voltage Systems and Medium Voltage Products

**Electrical System Integration eSI**  
One plant, one process, one team

# Electrical System Integration eSI for total state information



and incommers. Now, with segregation of electrical and process control data, this minimises the risk of interruption and speeds up the data transfer between these two systems requirements.

**Enhanced operator safety**  
Programmable alarms and the level of predictive actions are available to guide on-site plant operators to take correct actions.

Maintenance can also be budgeted and planned according to the needs of the equipment, not only according to the time. With such flexibility, plant maintenance becomes organised and cost effective. This is particularly effective for motors, which need special attention in maintenance.

**Efficient engineering**  
eSI maintains a single engineering tool, the Station Automation Builder 600 (SAB 600). This minimises integration time between MV and LV devices using system integrators during the commissioning and start-up stage. The described architecture on next page is one of the several possible within the eSI concept, offering the simplest though complete functionality.

#### Total accessibility

eSI uses a Web client, making it possible for the end-user to access their plant information remotely.

Experts are

not required to be physically present to

rectify and evaluate the condition of the

equipment in the plant.

Experts are not required to be physically present to rectify and evaluate the condition of the equipment in the plant.

#### Higher process availability

eSI is also able to provide condition monitoring at the plant, allowing predictive and proactive maintenance.

This helps to optimise the plant's availability and limit unexpected downtime.

#### An overview

With eSI, the system can monitor and display the complete state of the plant, from LV switchgear MNS IS, LV motors, LV feeders, VFD, soft-starters to medium voltage switchgear, MV feeders

and minimum additional engineering effort.

**eSI encompasses cross-divisional ABB products and systems and allows flexibility between DCS and ECS system requirements.**