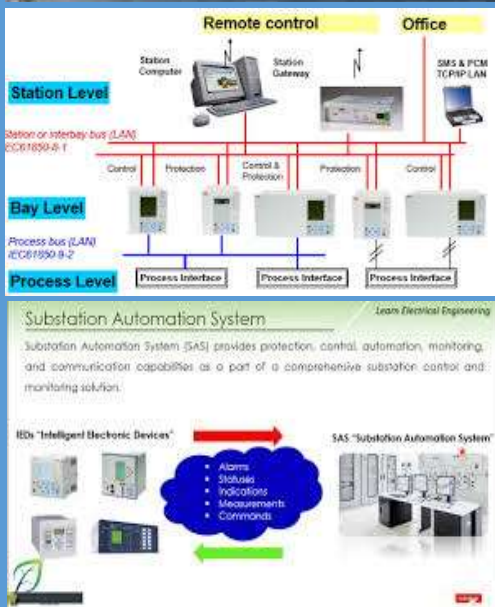
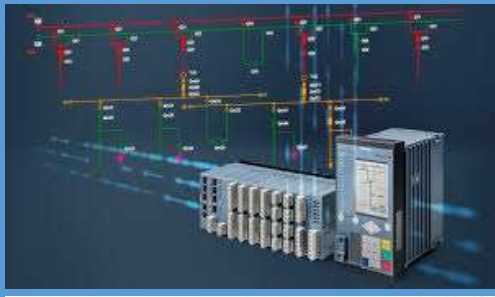
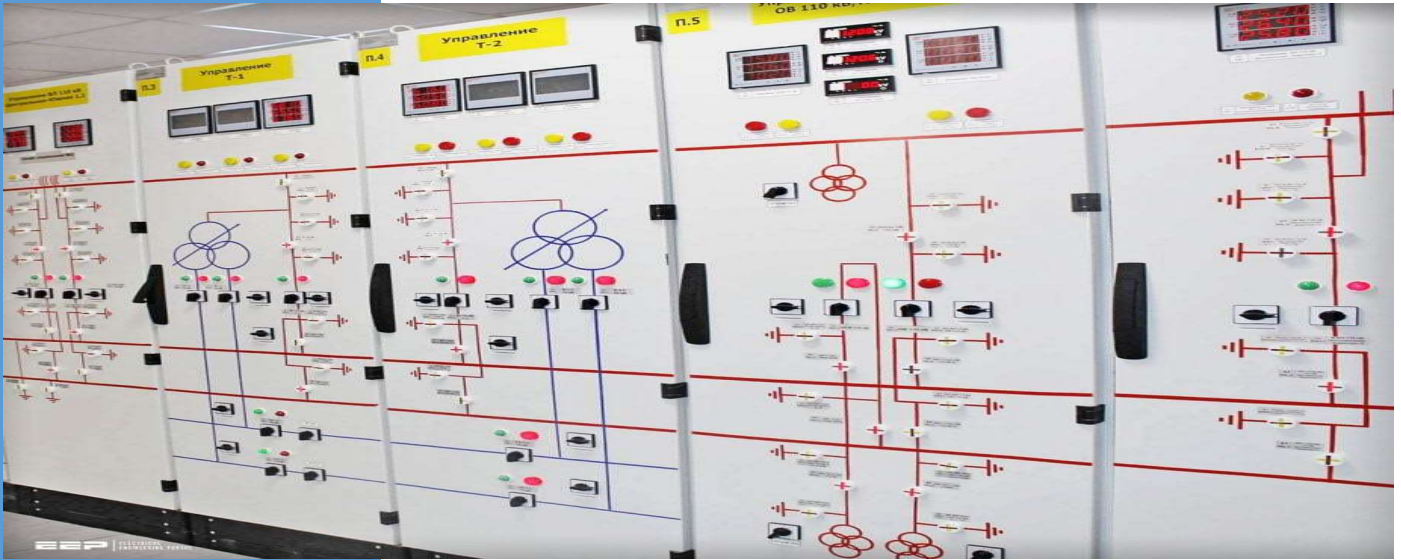


# azarakhsh Software Automation System (aSAS)



In today's industries, the use of automatic control systems has become increasingly common due to their undeniable advantages. These systems aim to establish efficient connections between various equipment and devices, ultimately enhancing system efficiency.

Our ASAS (Automated Substation Automation System) software set was designed, implemented, and tested by our expert technical staff for use in electric substations and energy stations. Since 2012, it has been successfully deployed, with its initial version utilized at the 20/132 kV substation in Mashhad Mountain Vector.

The advanced versions of our ASAS software are currently utilized across the country's electricity industry and various other sectors, including city trains. They have been successfully approved for operation by regional power companies, Sanat, Tovanir Company, Non-Active Defense Organization, Information Technology Organization, and more.

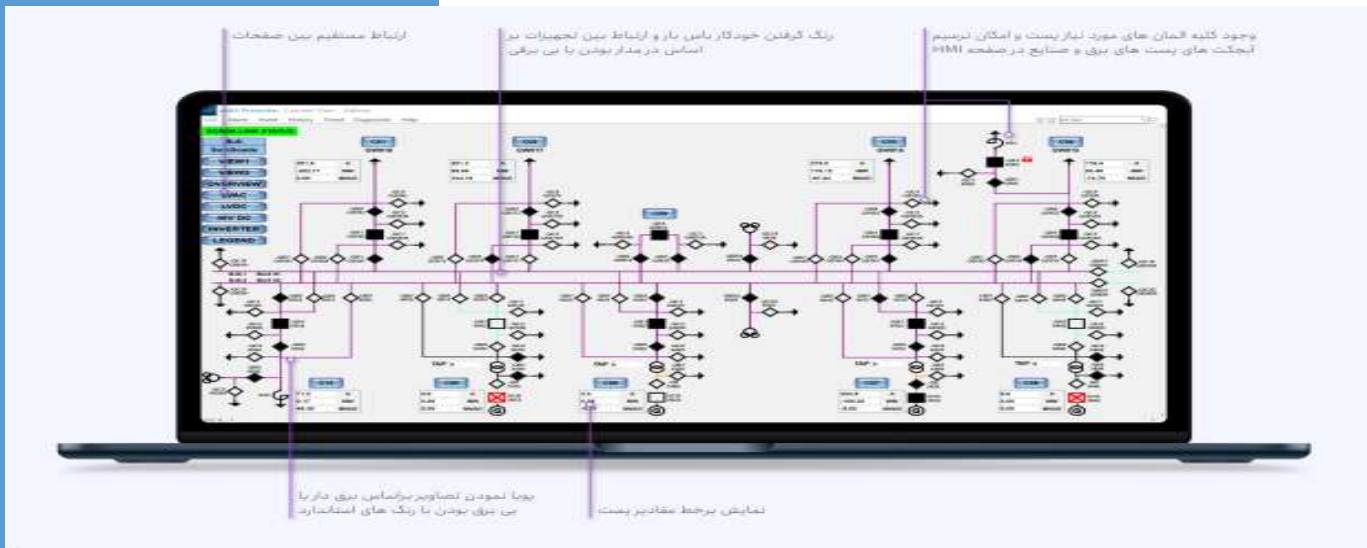
Key features of our native software include:

- Support for all IEC61850 relay brands
- Implementation of all national security requirements (passive defense, EFTA, etc)
- Full technical support for all Tavanir requirements
- Unique and user-friendly design
- Database and server redundancy
- Simultaneous connection to different control centers
- Automatic configuration of networked systems
- Integration of all engineering departments

Security considerations at the software level include:

- Software stability
  - ✓ Software redundancy
  - ✓ Data redundancy
- Backup
  - ✓ Automatic and manual

# azarakhsh Software Automation System (aSAS)



- Backup
  - ✓ Automatic and manual backup
- Event Recording
  - ✓ Logging events in the database
  - ✓ Event recording for internal errors of each software separately
  - ✓ Event recording in dot matrix printers
- Role definition and authentication
  - ✓ Change user password
  - ✓ Change station password
  - ✓ Station password protection
- Software security messages
  - ✓ Lack of license to use the software
  - ✓ Word registration and user exit
  - ✓ Registration of unauthorized entry
- Change default setting
- Considerations related to the software version
- Account lockout

