

# JOYO-R Integrated Operating System for Dispatching Switching Error Prevention



## SUMMARY

From the perspective of regional power grid production operation, electrical operation mode and switching error prevention, this product integrates the risk factors of electrical switching misoperation that may occur in each link of regulation and control operation into the switching error prevention system, so as to realize the switching error prevention in the whole process from scheduling, decomposing and flowing of dispatch instruction to the operation performing, effectively prevents accidents caused by wrong dispatching, wrong telecontrol, misoperation and operation deviate from dispatching order.

## ADVANTAGE



### All directional and multi-level

The system fully covers the misoperation prevention of control, operation and maintenance, station control, bay and process, and meets the mandatory and comprehensive requirements of misoperation prevention.



### Transfer order binding

Except for special cases, all operations are based on dispatching instructions to prevent operation not according to dispatching orders.



### Modular design

The system adopts modular design, which can increase or decrease modules according to the actual situation of the site or user needs. If there are dispatching instructions issued to the system, the system can cut this module through configuration.



### Multiple safety verification

The system not only supports intelligent topology security check, but also introduces power flow judgment, protection and control misoperation prevention and abnormal signal check to realize multiple security check.



### Unified platform

The dispatching switching error prevention, centralized control switching error prevention and substation switching error prevention are integrated in the unified platform, so that the dispatching instructions can be issued, decomposed, and all the specific operations can be judged and simulated on the unified platform.



### Full coverage

Realize the whole process of switching error prevention from scheduling, decomposing and flowing of dispatch instruction to the operation performing.



### Real time transmission of ground wire status

The status of ground switch which is not collected by the integrated automation system is transmitted by switching error prevention system at the substation in real time, which is consistent with the site and different from the listing mode of other systems.



### Misoperation prevention of intelligent network topology

According to the connection relationship and real-time state between devices, as well as the intelligent reasoning model, the intelligent topology error prevention based on the whole regional power grid is realized.



### Multiple remote control constraint modes

The system not only has the function of communication soft interlocking for remote control operation, but also has the function of remote control loop hard contact locking, which can prevent the monitoring background equipment from misoperation due to software and hardware failure or interference.



### Centralized data management

The switching error prevention server can centrally manage, count and query all data, and provide switching error prevention service for all stations, which can realize centralized control, unified management, unified maintenance and unified overhaul.