Abstract

Smart grid is nothing but the electrical power grid which is fully automated. It is the emerging technology in power grid that includes both Electrical Engineering and Information & Communication Engineering. As the Information and Communication Technology comes into the grid, it is subjected to both physical and cyber attacks. In the present three layer architecture of the smart grid network, each layer is subjected to cyber attack from the outsiders at different format. To provide effective security an Intrusion Detection System is must for the Network. In the proposed model the Intrusion Detection system is distributed among the three layers of the Network. If an attack is detected an alarm will be given at the corresponding layer.
If a detection decision cannot be made at certain layer, then it is left to the upper layer which has a wider scope. This distributed network based Intrusion Detection system provides full protection against existing and future sophisticated security attacks.

References


Index Terms

Computer Science    Security

Keywords

Intrusion Detection System    Smart Grid