

In smart grid, efficient and reliable communication is incorporated to improve the efficiency, sustainability, and stability of the whole system. This paper presents a review on the different types of available communication methods and protocols, which are used for data communication within and outside a smart grid based power supply system.

This bidirectional grid with integrated communication system, highly efficient sensors and measuring units, advanced components and control methods, decentralized generation and smart distribution is called smart grid.

In contrast to conventional telecommunication standards, the modern communication standards of IoT-assisted smart grid systems need interoperability among interfaces, message and workflows. Interoperability is also necessary for effective business rules, which poses a significant challenge due to the problems associated with multiple vendors ...

In this paper, we present the background and motivation of communication infrastructures in smart grid systems. We also summarize major requirements that smart grid communications must...

In this paper, a comprehensive review of commonly used standards and protocols in the smart grid environment is provided, ranging from those related to the enterprise, control center and wide area monitoring, distributed generation, substation, demand response, metering, electric vehicles and cyber security.

This article presents an enhanced certificateless AKA protocol for smart grids, named ECL-AKA. First, this article outlines the architecture and security model of this protocol. Subsequently, it presents the complete workflow of the ECL-AKA protocol.

The IEEE Guide for Smart Grid Interoperability, National Institute of Standards and Technology, and U.S. Department of Energy provide recommendations for communication and networking requirements such as payload (size and frequency), physical (PHY) and media access control (MAC) layer latency for smart grid applications.

We present smart-grid communication technologies, standards, and protocols for the physical layer operations. We next discuss the medium access control (MAC) and network layer protocols of the smart-grid communication technologies.

It will greatly improve the system robustness and reliability by harnessing the modern and secure communication protocols, the communication technologies, faster and more robust control devices and



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Intelligent Electronic Devices (IEDs) for the entire grid from substation and feeder to customer resources .

presents different communication protocols used in smart grid technology. **KEYWORDS:** Smart Grid, WSN, Zigbee, WiFi, GSM I. **INTRODUCTION** The electrical grid is being revolutionarily transformed as Smart grid. Smart Grid is an automated and broadly distributed energy generation, transmission and distribution network.

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