

IEEE Ubiquitous Green Community Control Network - IEEE 1888™ Series (Bundle)

The 1888 bundle of Ubiquitous Green Community Control Network identifies gateways for field-bus networks, data storage for archiving and developing data sharing platforms, and application units as important system components for developing digital communities, i.e., building-scale and city-wide ubiquitous facility networking infrastructure. It defines a data exchange protocol that generalizes and interconnects these components (gateways, storage, application units) over the IPv4/v6-based networks. This enables integration of multiple facilities, data storage, application services such as central management, energy saving, environmental monitoring, and alarm notification systems. It defines heterogeneous networks convergence and scalability, enhances security management function for the protocol defined in IEEE 1888(TM), and provides security requirements, system security architecture definitions, and a standardized description of authentication and authorization.

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