

## **212. SET AND PAM PROTOCOLS FOR CLUSTER BASED WIRELESS SENSOR NETWORKS**

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Clustering is an effective and practical way to enhance the system performance of WSNs. New mechanism provides a secure data transmission for cluster-based WSNs (CWSNs), where the clusters are formed dynamically and periodically. Propose two Secure and Efficient data Transmission (SET) protocols for CWSNs, called SET-IBS and SET-IBOOS, by using the Identity-Based digital Signature (IBS) scheme and the Identity-Based Online/Offline digital Signature (IBOOS) scheme, respectively. In this paper further implementation show the energy consumption for every node in the cluster based sensor network. The power-aware multicast protocols tend to create additional control traffics. The basic mechanism in this work is highly extensible and supports QoS for the Cluster based wireless sensor network and increase a life timefor battery of the node.Here, it considers two metrics, namely residual-battery-capacity of the node and relay capacity of the node to do multicasting from the source to a group of destination nodes. The proposed model is simulated using network simulator-2.33 and is tested under various conditions.

Keywords: — Cluster, Multicast, node lifetime, network lifetime, performance, residual battery capacity.

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