

OPERATING SYSTEMS FOR WIRELESS SENSOR NETWORKS

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Introduction

- 1 WSNs are a special type of distributed network system that is similar to database, real-time, and embedded systems.
- 2 The basic function of WSNs is to collect information and to support certain applications specific to the task of WSN deployment.
- 3 Commercially available sensor nodes are categorized into four groups

- Specialized sensing platforms such as the Spec node designed at the University of California–Berkeley. This sensor node has a single chip with low-power low-cost, operation.
- Generic sensing platforms such as Berkeley motes . This node can perform generic sensing tasks.
- High-bandwidth sensing platforms such as iMote . This node can handle sensed data flow with high bandwidth.
- Gateway platforms such as Stargate . This node can be used as a sink and can connect low-level sensor nodes directly to the Internet.