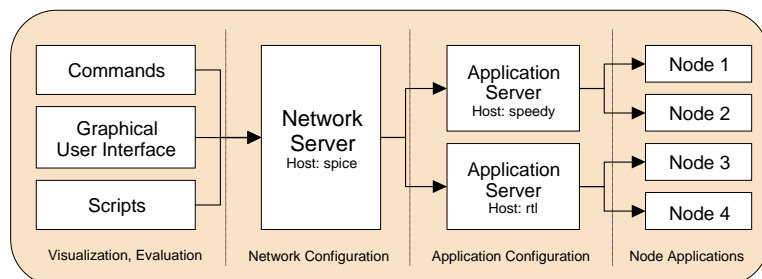


# Software Development using SeNeTs for Wireless Sensor Networks

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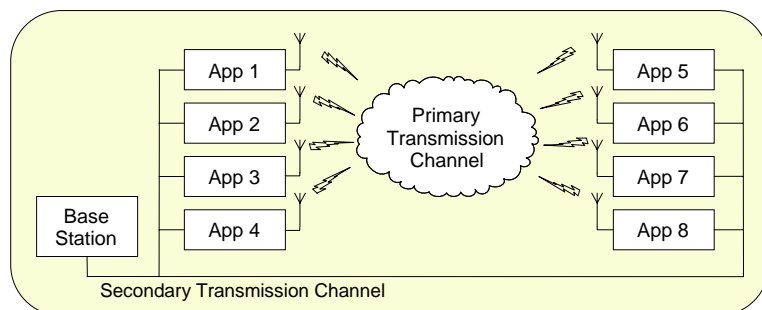
## Motivation:

- Only few sensor nodes available but thousands required
- Monitoring sensor network applications affects operation
- Debugging of sensor network applications is sophisticated



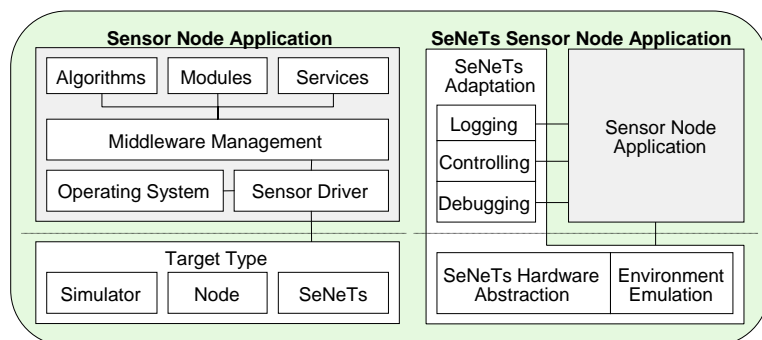
## Approach:

- Hierarchical administration environment
- Use of existing workstations as simple sensor nodes
- Two independent communication channels during development phase



## Features:

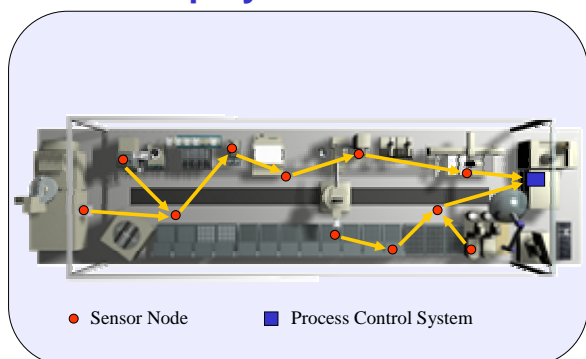
- Test and validation of large-scale sensor networks in small-size laboratories
- Platform independent
- Same source code used for emulation and deployed system



## Example Application:

- Data Collection Protocol for Bluetooth-based sensor networks
- Huge networks beyond piconets and scatternets
- SeNeTs emulation provided essential insights for protocol design

## Deployed Network



## Test and Validation Environment

