Deployment-Support Network: Functional Overview

Remote Logging and Event Detection
- Time-synchronized logging at DSN nodes
- Configurable event logging and monitoring
- Multiple verbosity levels
- Asynchronous notifications to host GUI

BTnut OS Tracing Facility
- Fine-grained tracing of low-level events and IRQs
- Easy, post-facto analysis

Long-term Logging and Trend Analysis
- Logging to files and mySQL database
- Simple but powerful queries
- Online graphing using cacti and rrdtool

Remote Programming
- Simple insertion of firmware images using web-based frontend
- Automatic dissemination of version controlled firmware
- Multiple target architectures, independance from target OS

Generic DSN Access
- Flexible acces using Bluetooth
- Command line and GUI Control using XMLRPC

Power and Status Monitoring
- Support for in-situ battery status and current measurement
- Live power consumption characterization

Coordinated Fault Injection
- Control over all distributed target devices
- Simple creation of test scenarios