

Quality of Service

Overview of JANET QoS Project

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QoS Implementation

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Managed Bandwidth – Next Generation

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JANET QoS Development

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JANET QoS Development

- Background
- JANET QoS development project
 - Overview
 - Current Position
 - Challenges

Background

- JANET QoS Think Tank
 - Requirement for QoS on JANET
 - Policy Framework
 - Technical Framework

Proposed QoS Classes

QoS Class Name	Description
Less than Best Efforts (LBE)	The aim of this service is to give a better quality of service for more important data by channelling lower priority, non-critical traffic into a less than best efforts class.
Best Efforts	This is the service that we currently use on JANET.
IP + (at a later date)	For support of service such as streaming video and interactive applications.
IP Premium	For time-sensitive applications, such as videoconferencing and Voice over IP.

JANET QoS Development Project

➤ Overview

- QoS project initiated – March 2002
- Expressions of Interest – April 2002
- Policy and Technical Framework – May 2002
Available at: http://www.ja.net/development/qos/qos_dev.html
- Further Information Documents – July 2002

Current Position (1)

➤ Partners

- Bournemouth University
- University of Southampton
- C&NL MAN – Lancaster University
- LMN – Imperial College
- EastNet – Anglia Polytechnic University
- Net North West – University of Manchester & Daresbury Laboratory
- MidMAN – University of Wolverhampton, Ludlow College, Shrewsbury 6th Form College & West Midlands RSC
- WNL – University of Wales Swansea, University of Glamorgan, Coleg Gwent & Barry College
- EMMAN – De Montfort University

Current Position (2)

- JANET Backbone preparation
 - Instrumentation – Complete ✓
 - Re-marking – May 2003
 - Policing – September 2003
 - Queuing – December 2003
 - Testing – Early 2004
 - Following testing – What Next?

Challenges

- Proof of Concept
 - Does IP Premium & LBE work?
- How to Monitor IP Premium & LBE
 - Where and why is traffic dropped?
 - Establish a Monitoring Working Group

Further Information

➤ Further Information:

<http://www.ja.net/development/qos/index.html>