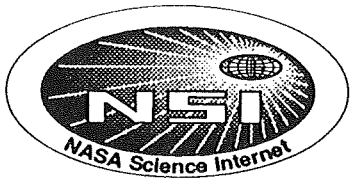
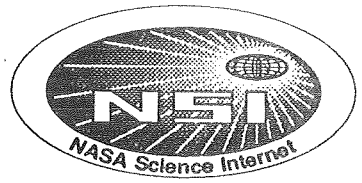


NSI Dual Protocol Backbone

Reference: NSI Users Working Group
February 12, 1991

Warren Van Camp



NSI Dual Protocol Backbone

Upgrade DECnet links to match TCP/IP links performance

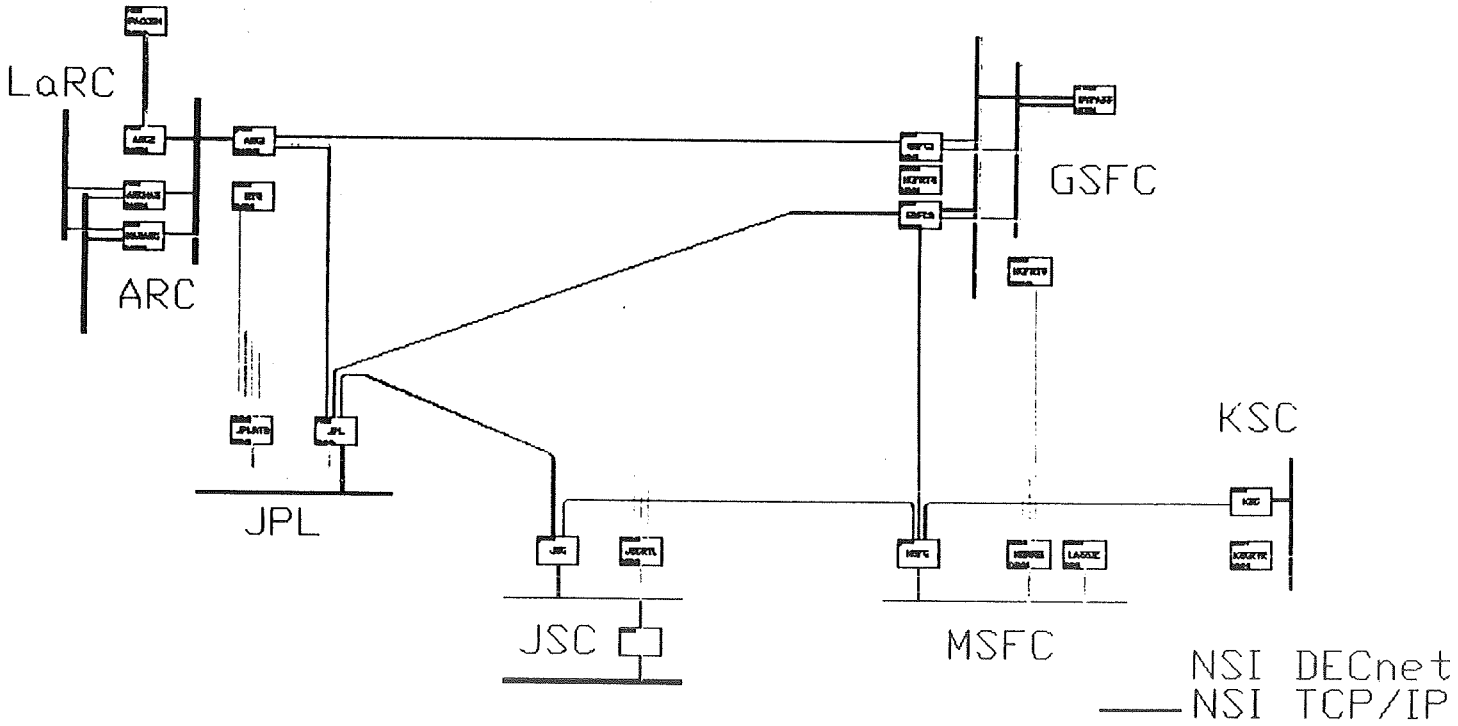
Integrate backbone resources and central management

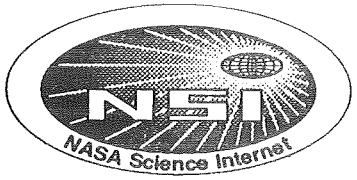
Transition to be done in two phases

- Phase 1 - "top triangle" GSFC, JPL, ARC
- Phase 2 JSC, MSFC, KSC

Phase 1 transition plan developed

- Warren Van Camp, Jeffrey Burgan, Linda Porter

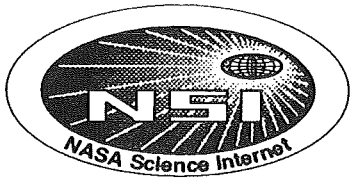

LaRC
ARC
GSFC
KSC
JPL
JSC
MSFC
NSI DECnet
NSI TCP/IP



NSI Dual Protocol Backbone

Phase 1 transition process

- Perform necessary reconfigurations
- Turn on DECnet routing on NSI Proteon routers as backup path
- Change circuit cost for ARC-JPL to use dual protocol as primary
- Change circuit cost for ARC-GSFC and JPL-GSFC to use dual protocol path as primary
- Monitor and evaluate performance



NSI Dual Protocol Backbone

Backbone network operations

- NSI operations - 24 hours/day, 7 days/week, engineers on call

DECnet routing equipment

- NSI is replacing existing DECnet-only routers to provide multiple protocols to tail sites and manage network from 24x7 NOC
- Use of existing DECnet dedicated routers may be maintained where only requirement is for DECnet