

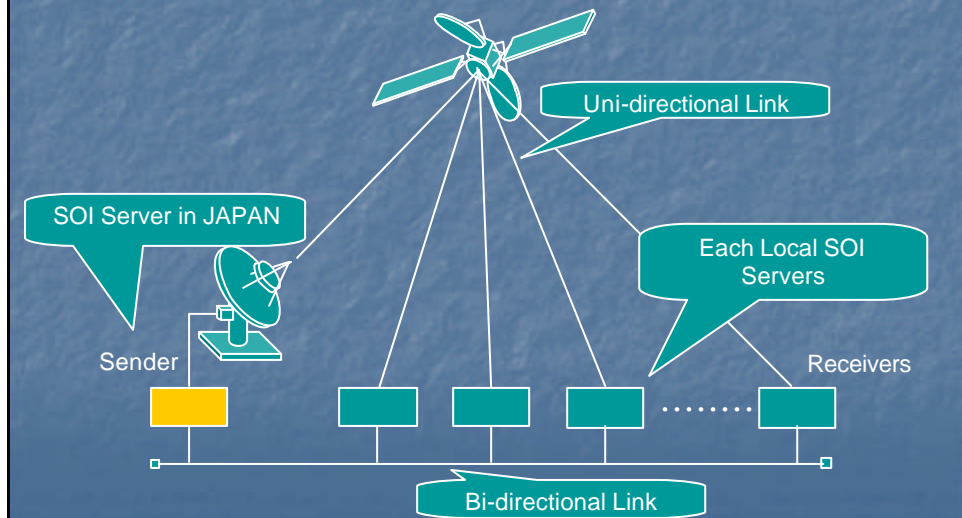
SAKURAFUBUKI Software

23 February 2003
SOI Asia Workshop II

File Delivering Tool SAKURAFUBUKI

- What is SAKURAFUBUKI ?
 - File Transfer Program using multicast.
 - Useful in UDL environment
- Typical usage;
 - To transfer presentation materials before the lecture.
 - To transfer the archived lecture to your local Server.

SAKURAFUBUKI Model



UDL Network characteristics

- UDL network has large delay.
- UDL return path is narrower than satellite link.
- UDL return path is unsharable directly on each receivers.

Features

- Multicast Transfer
- IPv6 capability
- Directory Tree and Files
- Pre/Post processing
- Three modes of reliability
 - Scalable vs Reliable
- Fail recovery by re-transmission
- Tuned for the UDL environment
- Web Interface

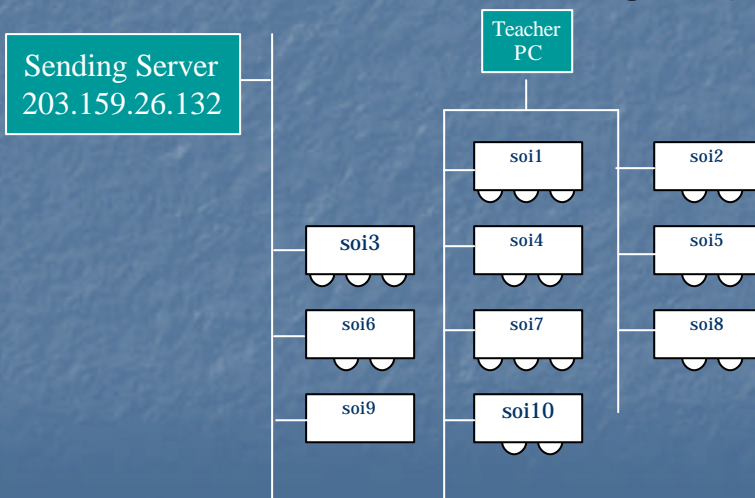
Three Transmission Modes

- CLOSED
 - Only specified member can receive data, and receiver can request missing data and should report receive status to sender.
- OPEN
 - Everyone can receive data, and only members of the group can request missing data and should report receive status to sender.
- UNLIMITED
 - One-way transmission. Everyone can receive data, but nobody can request missing data.

Today's Agenda

- Installation of SAKURAFUBUKI software
 - Including IPv6 (USAGI) installation
- Demonstration between server and teacher-PC
- Setting up your SOI Server to be a SAKURAFUBUKI receiver
- Receiving Data from the Server to all SOI Servers
- Receiving Archived Lecture from the Server to all SOI Servers

Today's environment - 11 member PCs in 1 group -



Reference

- Author
 - Mr. Mikiyo Nishida (west@sfc.wide.ad.jp)
- Paper
 - Presented in SAINT2003 in Florida
- Source code is available
 - <http://www.ai3.net/~west/fcb3/>
- !CAUTION!
 - still in "Release-Candidate-1"

You input, comments and contribution is highly welcome !