



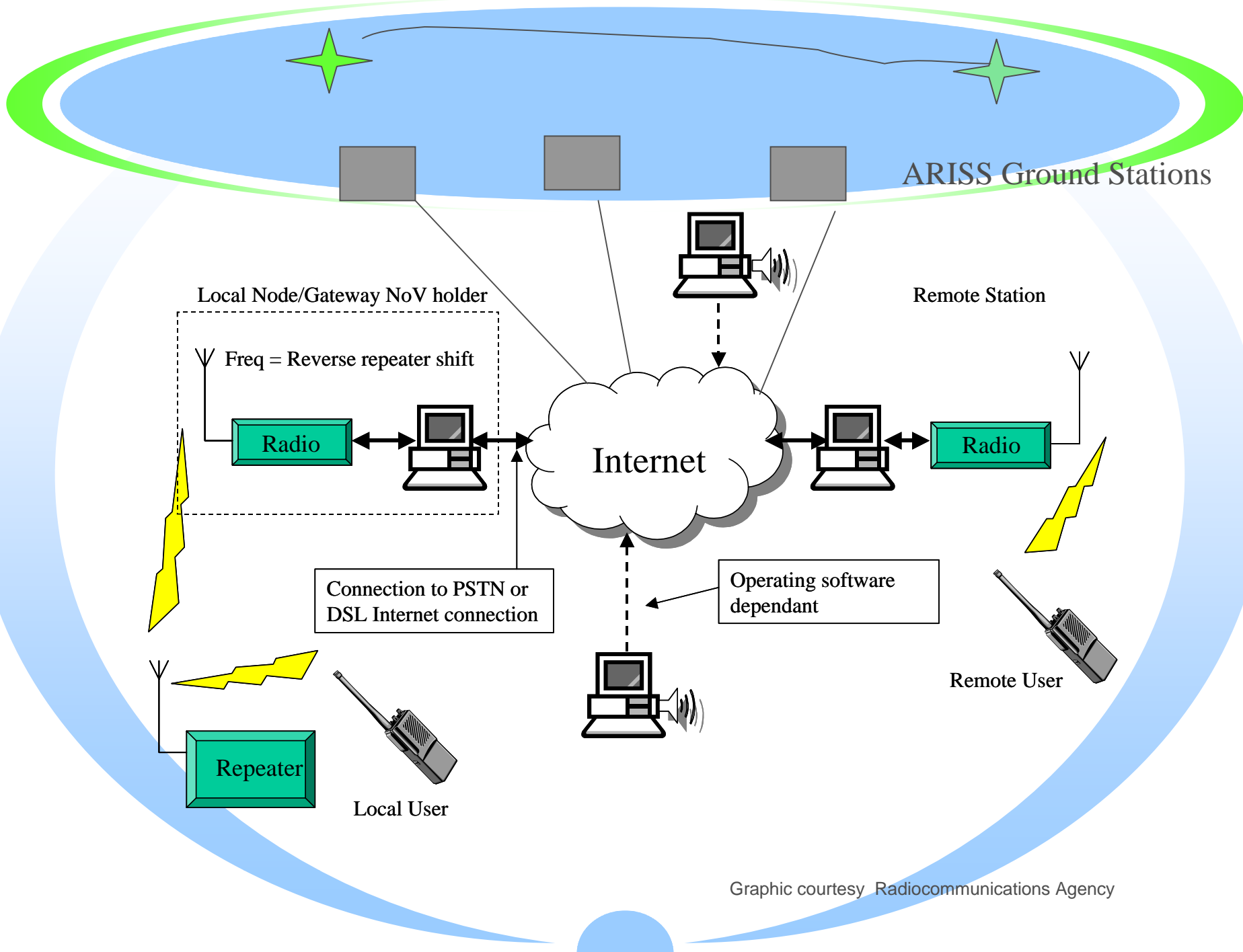
ISS Link -- Update

Linking the ISS to the Internet

Presented at ARISS October 2004
by Scott H. Stevens, N3ASA

Connecting Radio over IP

- EchoLink
 - Multiplatform internet linking
 - Computer centric
- IRLP
 - Linux based connected repeaters
 - Radio centric



ISS Link Purpose

Phase 1

- **Use EchoLink/IRLP to expand ARISS QSO audience**
 - Feed QSO audio into an IRLP reflector or an EchoLink conference room for redistribution
 - Replay most recent QSOs
 - Bulletin Board type notices

Funding, Training, Timeline

- No funding initially
 - Volunteer ground stations supply hardware/internet connection
 - Software is FREE
- Training impact on ISS crew: NONE
- Ground crew training needed
- Time to use: within 3 months of test phase ending

Current Status

- Each Method demonstrated for an audience
 - EchoLink successfully redistributed via AMSAT conference room for Challenger Learning Center at Prairie Aviation Museum, Illinois contact, approx. 50 connects
 - IRLP demo successful on Adelaide, Australia contact
 - Audio levels excellent!
 - Persistently streamed audio presents time-out challenge

Both demos set up quickly!

Upcoming IRLP presentation by the IRLP team via Net Meeting to be held Oct. 19, contact n3asa@amsat.org if delegates/ops want to join in.

Technical Status

- IRLP group will resolve IRLP timeout issue
- Both need to work on developing feeds from QSO to point of redistribution
 - Connection equipment involved
 - Implementation involved
- Both need to settle on teams of N. American volunteers
- Ops/mentor training will be needed (Net Meeting)
- **Security: Users verified, specified calls only allowed in during QSOs**



Thank you

Canadian IRLP Project

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Robert L. Ewert, VE1KS

EchoLink

various

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