



# VoIP and JANET

UKERNA VoIP Event October  
2004



# VoIP



- VoIP and Regulations
- VoIP usage Scenario's
- Possible VoIP service provision on JANET
- Things to consider
- UKERNA's experience of VoIP so far.....



# VoIP and Regulations



- VoIP and Internet telephony are different
- Five EU directives covering; Framework; interconnection and access; data protection, universal service; authorisation
- Ofcom regulations only applicable to certain “types” of VoIP service
- Technology is very early – regulations are still being created



# VoIP Regulations



- PATS heavily regulated, ECS are not
- PATS are regulated as a telecommunications provider – 999, operator services and uptime SLA's
- Ten separate regulatory “conditions” apply to PATS
- Waiting on the outcomes of various “consultations”



# VoIP Usage



- VoIP is used on JANET in a number of ways – point to point, IP PBX, backhauling of Voice traffic
- A number of organisations now have IP PBX's (proprietary), soft clients are free and easy, standards are starting to emerge
- Common Approach is needed



# VoIP Usage.....



- Impossible to “gateway” between fully proprietary PBX systems
- VoIP often limited to “the campus” with PSTN breakout for all external calls



# VoIP Services?



- Significant number of possibilities for VoIP services on JANET
- SIP enable JANET, and provide directory services
- Deploy and manage central VoIP switch with tailored clients
- Provide advice and central support for trunking PBX



# VoIP Services



- Provide central PSTN breakout services (extremely difficult)
- Provide a fully managed telephony service



# VoIP considerations



- Choice of local VoIP equipment extremely important – protocol support
- Retro-fitting of numbering / addressing
- PSTN breakout – remain as a local service?
- What does the community want
- Unlikely that a “solution” will satisfy all