

A decorative graphic at the top of the slide features a horizontal black bar. Above and below this bar are several colored squares: a red square above the left end, a green square above the left side, a yellow square above the middle, a blue square below the left side, and a red square below the middle. A yellow square is also positioned below the bar, centered under the yellow square above.

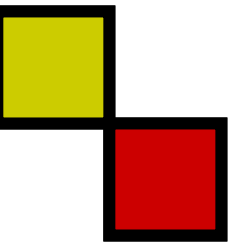
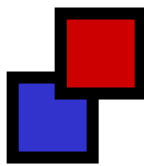
JANET IP Videoconferencing Service



Karen Perrins
Video Services Manager
UKERNA

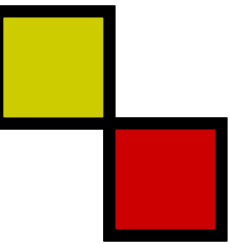
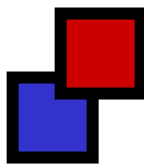
A decorative graphic consisting of a horizontal black line with several colored squares (blue, green, blue, red, yellow, blue) attached to it at various points.

Outline

- 
- A decorative graphic consisting of a yellow square and a red square stacked vertically.
- A bit of history
 - JANET Videoconferencing Service
 - Why IP Videoconferencing
 - IP Videoconferencing Service
 - Further information
- 
- A decorative graphic consisting of a blue square and a red square stacked vertically.

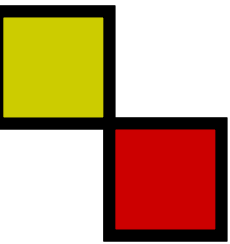
A decorative graphic consisting of a horizontal black line with several colored squares (blue, green, blue, red, yellow, blue) attached to it at various points, some overlapping.

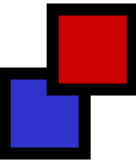
Videoconferencing on JANET

- 
- A decorative graphic consisting of a yellow square and a red square positioned below it, both with black outlines.
- Centralised Videoconferencing Service for the JANET community for over seven years
 - ISDN and ATM technologies
 - Research into IP videoconferencing (PIPVIC, PIPVIC 2, VIP)
- 
- A decorative graphic consisting of a blue square and a red square positioned above it, both with black outlines.

A horizontal black line with several colored squares (blue, green, blue, red, yellow, blue) attached to it at various points along its length.

Using videoconferencing

- 
- A cluster of four colored squares (yellow, red, blue, red) arranged in a small grid-like pattern on the left side of the slide.
- Technical training
 - Best practice
 - Pedagogical issues
 - Fresh ideas



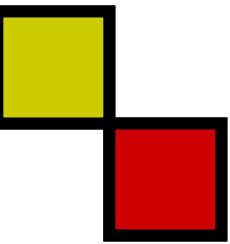
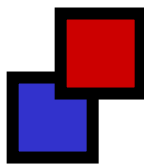


JANET Videoconferencing Service

- Registered venues
- Quality Assurance (QA) testing
- JVCS – Booking Service
- MCUs and gateways
- Data and application sharing
- Videoconferencing Management Centre

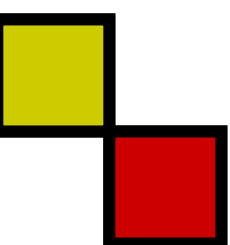
A decorative graphic consisting of a horizontal black line with several colored squares (blue, green, blue, red, yellow, blue) arranged in a stepped pattern above and below it.

IP Videoconferencing: Drivers

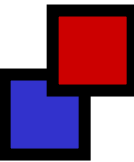
- 
- A decorative graphic consisting of a yellow square above a red square, both with black outlines.
- SuperJANET4 capacity
 - Requirements from the community
 - Closure of Scottish MANs
Videoconferencing Network (SMVCN)
 - Welsh Video Network
- 
- A decorative graphic consisting of a blue square below a red square, both with black outlines.

A decorative graphic consisting of a horizontal black line with several colored squares (blue, green, red, yellow) attached to it at various points, some overlapping.

IP Videoconferencing Service

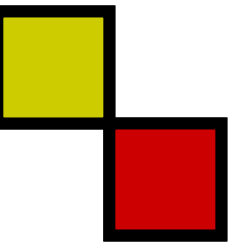
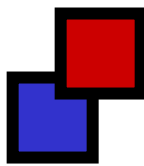
- 
- A decorative graphic consisting of a yellow square and a red square positioned below it, both with black outlines.
- Limited Pilot starting early June 2002
 - Full Pilot August 2002

 - JVCS-IP service launch
17 February 2003



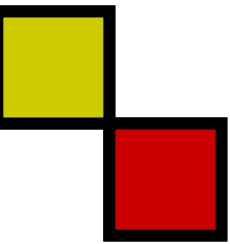
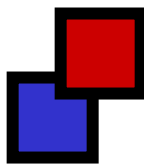
A decorative graphic consisting of a horizontal black line with several colored squares (blue, green, blue, red, yellow, blue) positioned above and below it.

JVCS-IP

- 
- A decorative graphic consisting of a yellow square and a red square positioned to the left of the list.
- MCUs, Gateways and Gatekeepers
 - Equipment located in Core Points of Presence (C-PoPs) and managed remotely on JANET
 - Security and resilience are vital
- 
- A decorative graphic consisting of a blue square and a red square positioned to the right of the list.

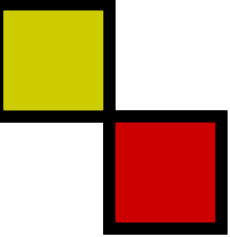
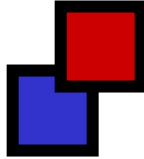
A decorative graphic consisting of a horizontal black line with several colored squares (blue, green, blue, red, yellow, blue) arranged in a stepped pattern above and below it.

JVCS-IP: service capabilities

- 
- A decorative graphic consisting of a yellow square above a red square.
- Up to 48 sites at speeds of up to 2Mbit/s
 - MCUs initiate conferences
 - Gateways initially capable of 24 IP and ISDN mixed sites
 - Full transcoding between 384kbit/s, 768kbit/s and 2 Mbit/s
 - Initial central gatekeeper service
- 
- A decorative graphic consisting of a blue square below a red square.

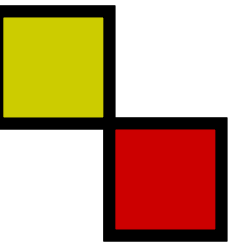
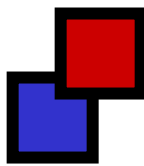
A decorative graphic consisting of a horizontal black line with several colored squares (blue, green, blue, red, yellow, blue) arranged in a stepped pattern above and below it.

JVCS-ISDN and JVCS-IP

- 
- A decorative graphic consisting of a yellow square above a red square.
- Continue using ISDN
 - Matched ISDN – IP capacity
 - Replace ISDN capacity with IP capacity as service grows
- 
- A decorative graphic consisting of a blue square below a red square.

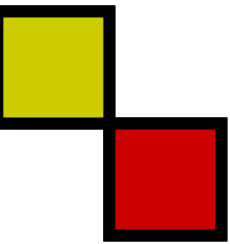
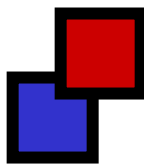
A decorative graphic consisting of a horizontal black line with several colored squares (blue, green, blue, red, yellow, blue) arranged in a stepped pattern above and below it.

Gatekeepers

- 
- A decorative graphic consisting of a yellow square above a red square.
- Three levels of Gatekeeper; International, National, and Site, to support international dialling plan
 - European NRN's and ViDeNet adopting same Gatekeeper Hierarchy and Global Dial Scheme (GDS)
 - Sites can register with central JANET site gatekeeper(s)
- 
- A decorative graphic consisting of a blue square below a red square.

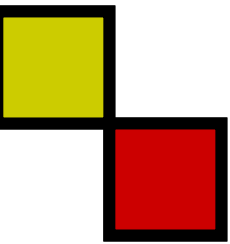
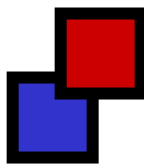
A decorative graphic consisting of a horizontal black line with several colored squares (blue, green, blue, red, yellow, blue) attached to it at various points, some above and some below the line.

Local Gatekeeper Functions

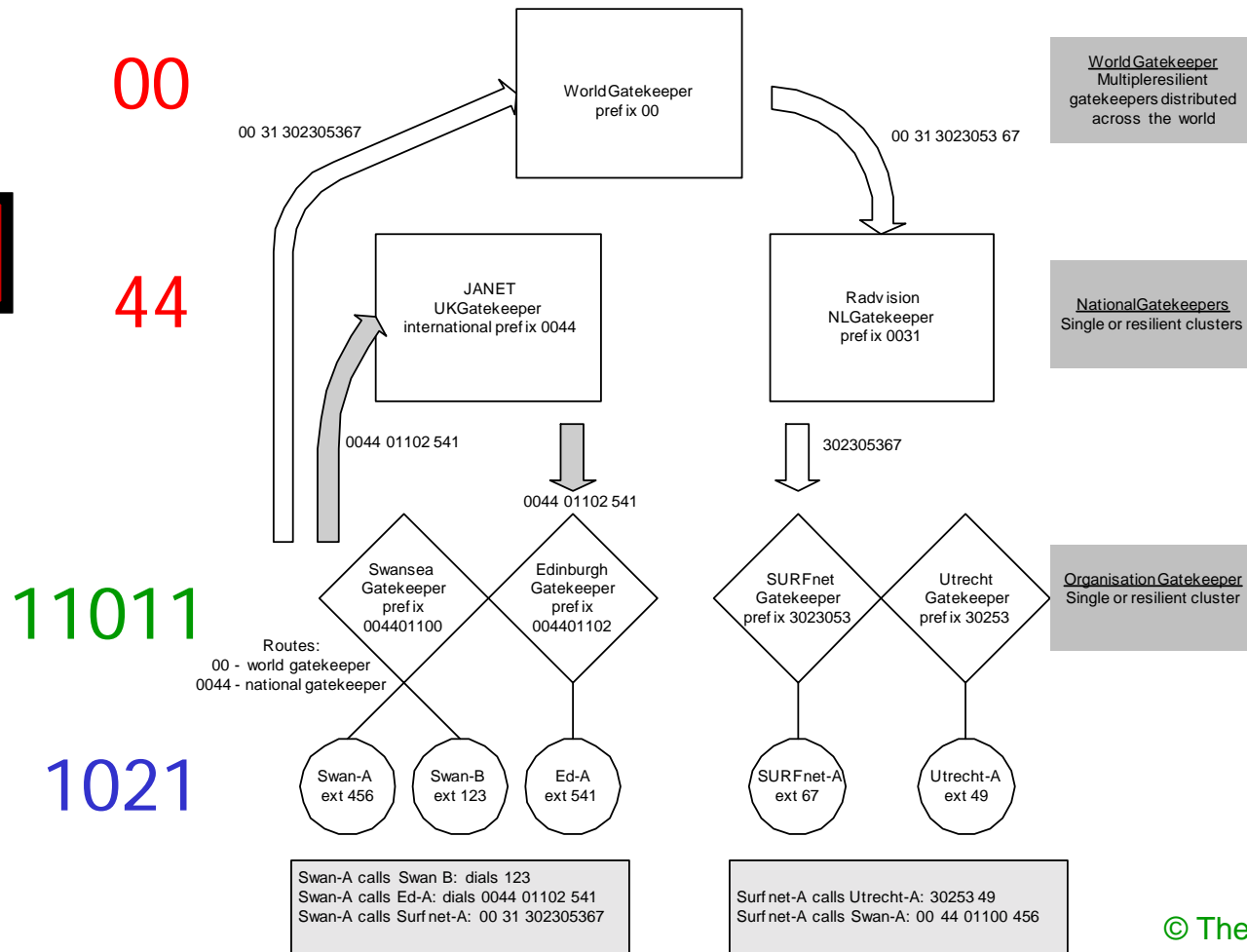
- 
- A decorative graphic consisting of a yellow square and a red square positioned below it, both with black outlines.
- Control IP videoconferencing services by creating zones
 - Management criteria created by local sites
 - Zones are independent of network architecture
 - Proxy functionality for QoS and local security
 - Central service
- 
- A decorative graphic consisting of a blue square and a red square positioned above it, both with black outlines.

A decorative graphic consisting of a horizontal black line with several colored squares (blue, green, blue, red, yellow, blue) attached to it at various points.

Global Dialling Scheme (GDS)

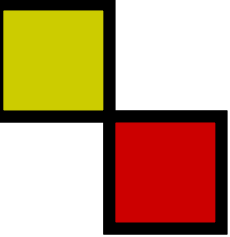
- 
- A decorative graphic consisting of a yellow square and a red square stacked vertically.
- Standard international dial plan developed
 - Each registered end-point will have a unique international E.164 number
 - UK example: 0044 11011 1021
 - Hierarchy of Gatekeepers route calls to endpoints based upon number string
- 
- A decorative graphic consisting of a blue square and a red square stacked vertically.

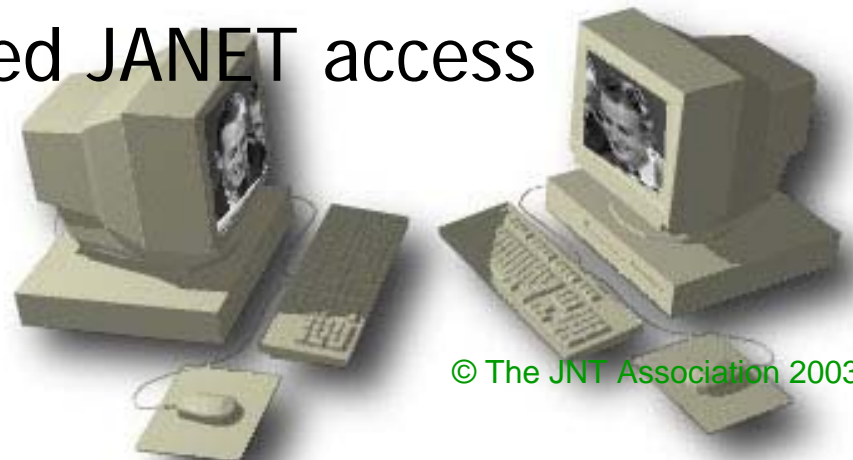
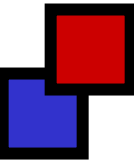
Global Dialling Scheme (GDS)



A decorative graphic consisting of a horizontal black line with several colored squares (blue, green, blue, red, yellow, blue) attached to it at various points.

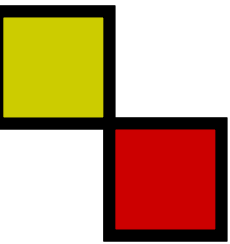
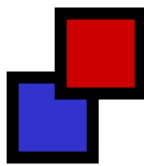
Studio recommendations

- 
- A decorative graphic consisting of a yellow square and a red square stacked vertically.
- CODECs ideally capable of initiating calls at speeds between 384kbit/s & 2Mbit/s
 - Organisational gatekeeper
 - Proxy server or H.323 aware firewall for security
 - Suitably provisioned JANET access



A decorative graphic consisting of a horizontal black line with several colored squares (blue, green, blue, red, yellow, blue) attached to it at various points along its length.

QA Testing

- 
- A decorative graphic consisting of a yellow square and a red square positioned vertically next to each other.
- Each venue or CODEC
 - Audio and video level checks
 - Check network errors
 - Objective and subjective checks
 - When registering to use JVCS
 - Every six months
- 
- A decorative graphic consisting of a blue square and a red square positioned vertically next to each other.

A decorative graphic consisting of a horizontal black line with several colored squares (red, blue, green, yellow) attached to it at various points.

Further information

- 
- A decorative graphic consisting of a yellow square and a red square stacked vertically.
- JVCS-IP documentation
<http://www.jvcs.video.ja.net/docs/jvcsip.shtml>
 - Video Technology Advisory Service
<http://www.video.ja.net>
 - VIP Project
<http://www.ja.net/development/video/vip/reports/>
 - H.323 Architecture Group Report
<http://www.ja.net/development/video/arch/>
- 
- A decorative graphic consisting of a blue square and a red square stacked vertically.

A horizontal line with several colored squares (blue, green, blue, red, yellow, blue) attached to it at various points.

Contact information

- 
- A cluster of three colored squares (yellow, red, and blue) on the left side of the slide.
- Videoconferencing Management Centre
vidconf@jvcs.video.ja.net
 - Video Technology Advisory Service
service@ukerna.ac.uk
 - mention VTAS in the subject line
 - Karen Perrins
k.perrins@ukerna.ac.uk

