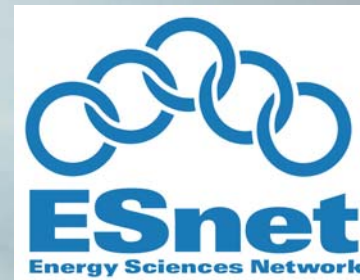
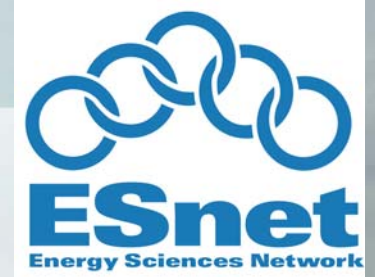


ESnet Production Collaboration Services

**Mike Pihlman, Clint Wadsworth
October 27, 2004, AM**

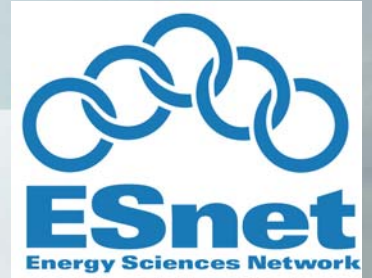


Thank You



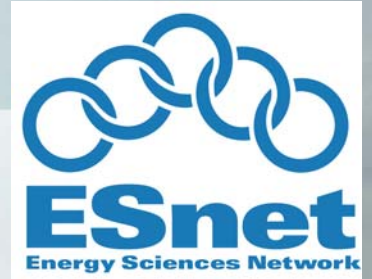
- **Since we are only 1.5 FTE, we rely on the “Sheila’s” out in ESnet land to help..**
 - **Sheila Cisko, Fermi**
 - **Alan Flavell, University of Glasgow**
 - **RCWG Folks: Christian Helft, Ed May, Ivars Ambats, Hans Frese, all others**
 - **Early Adopters: Rick St. Denis and Alan Sill and all the rest.....**

Overview



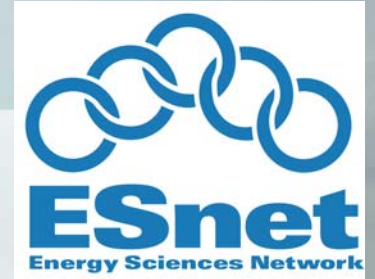
- **ESnet Collaboration services are run by 1.5 FTE**
 - 8 to 5 PST, Best Effort, Workdays
- **Production voice, video and data services are based on commercially available equipment**
- **Everything has to be “fully” automatic**
- **We support industry standard endpoints for videoconferencing and Windows for data collaboration.**

Our Charter



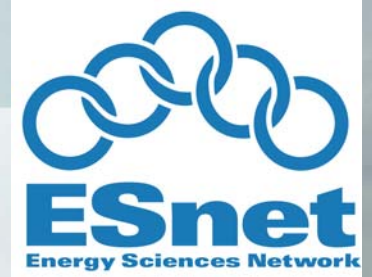
- **To advance the state-of-the-art in commercially available, standards based, collaboration (voice, video and data)**
- **To provide our customers with the latest in standards based collaboration technology**
- **To provide fully automatic reliable collaboration services (1.5 FTE)**

Announcements



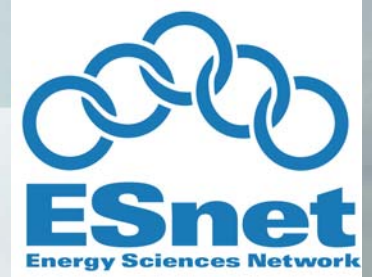
- **Accord MCU turned off Oct 22, 2004**
 - ISDN users now need to use the Gateway to join meetings on the H.323 bridges
- **The Forgent Alliance Scheduler**
 - Was going to be turned off Jan 2005
 - Decided to turn it off with the Accord

Current Services Overview



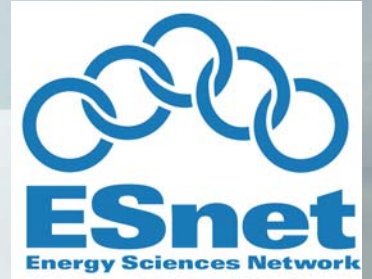
- **Web-based registration process**
- **Audio and Data Conferencing Bridge**
- **H.323 Ad-Hoc Video Bridge**
- **Streaming/H.323 Video Bridge**
- **Gateway for telephone and ISDN video to join meetings**

Current Services-Registration



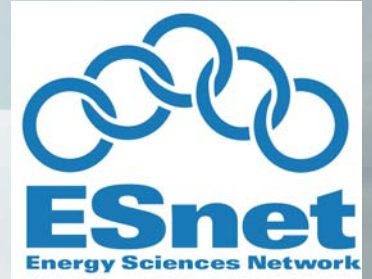
- **Home-grown registration process**
 - Fill out web-based form
 - Email to ECS Staff to approve
 - Email with info needed to get started sent to approved user
- **Home-grown web pages “unify” diverse services**
- **Main collaboration web site**
 - ecs.es.net
 - <http://www.ecs.es.net>

Current Services-Audio/Data



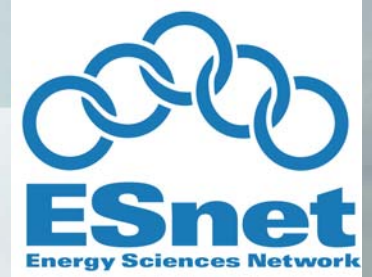
- **Audio and Data Bridge**
 - Latitude/Cisco M3
 - **Web-Based Scheduling**
 - audiobridge.es.net
 - <http://audiobridge.es.net>
 - **144 ports**

Current Services-Video



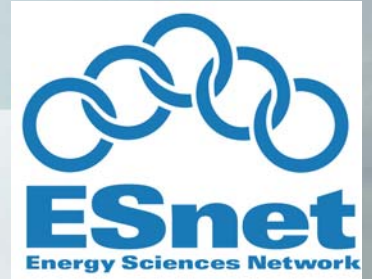
- **H.323 Ad-Hoc Bridge**
 - Radvision ViaIP MCU
 - 82x, 83x, 84x (768), 85x
 - 70 ports
- **Streaming and H.323**
 - Codian MCU
 - 88x
 - 40 ports H.323, 100 ports Stream
 - Quicktime or REAL

Current Services-Gateway



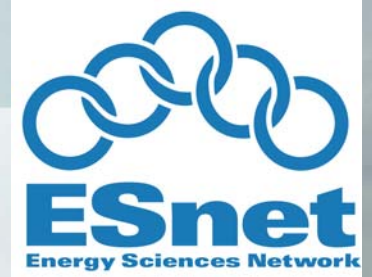
- **Gateway**
 - **All video services are accessible via the gateway for telephone or ISDN video participants**
 - **Radvision Gateway in the VialP**
 - **Max of 3 simultaneous 384 kbps ISDN or 11 simultaneous 128 kbps ISDN calls or 23 telephone calls.**
 - **Call out...during emergencies only (90x)**
 - **510-883-7860**

Current H.323 Video Services



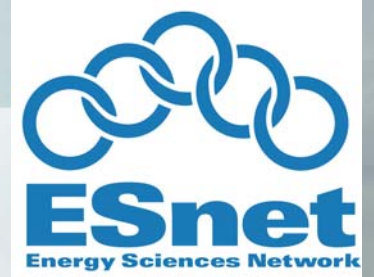
- **82x, “Legacy”**
 - Full screen
 - 128kbps – 384 kbps
 - CIF
 - H.261
 - 15 frames per second
 - Up to 70 ports

Current H.323 Video Services



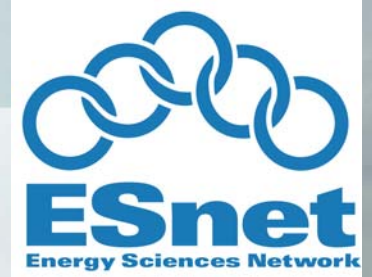
- **83x, “Continuous Presence”**
 - 4 Quad screen
 - 384 kbps
 - QCIF/CIF
 - H.261
 - 30 frames per second
 - Up to 30 ports

Current H.323 Video Services



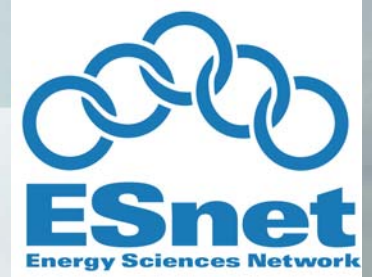
- **84x, “High Speed”**
- **Full screen**
- **768 kbps**
- **CIF**
- **H.263**
- **30 frames per second**
- **Up to 5 ports**

Current H.323 Video Services



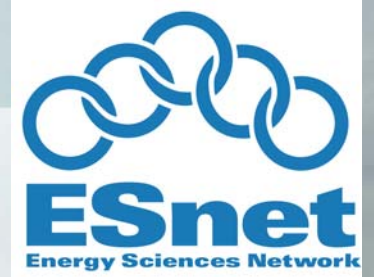
- **85x, “Enhanced”**
- **Full screen**
- **128 kbps – 384 kbps**
- **CIF**
- **H.263**
- **30 frames per second**
- **Up to 30 ports**

Current H.323 Video Services



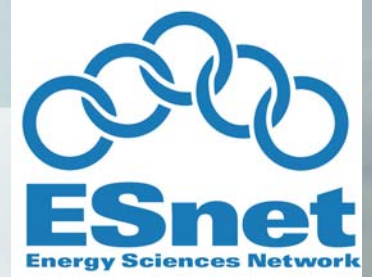
- **88x, “Streaming and H.323”**
- **Select screen from 5 choices**
- **Any bit rate**
- **CIF, QCIF and more**
- **Any codec**
- **Any frame rate**
- **Up to 40 ports H.323, 100 ports Stream**

Current Services-Scheduler



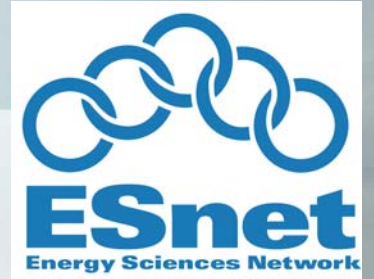
- **Forgent Alliance Scheduler**
 - Decided to turn off with the Accord
- **New Scheduler due in Jan 2005**
 - Cisco/Latitude unified voice, video, and data.

Latest Statistics-Sept 2004

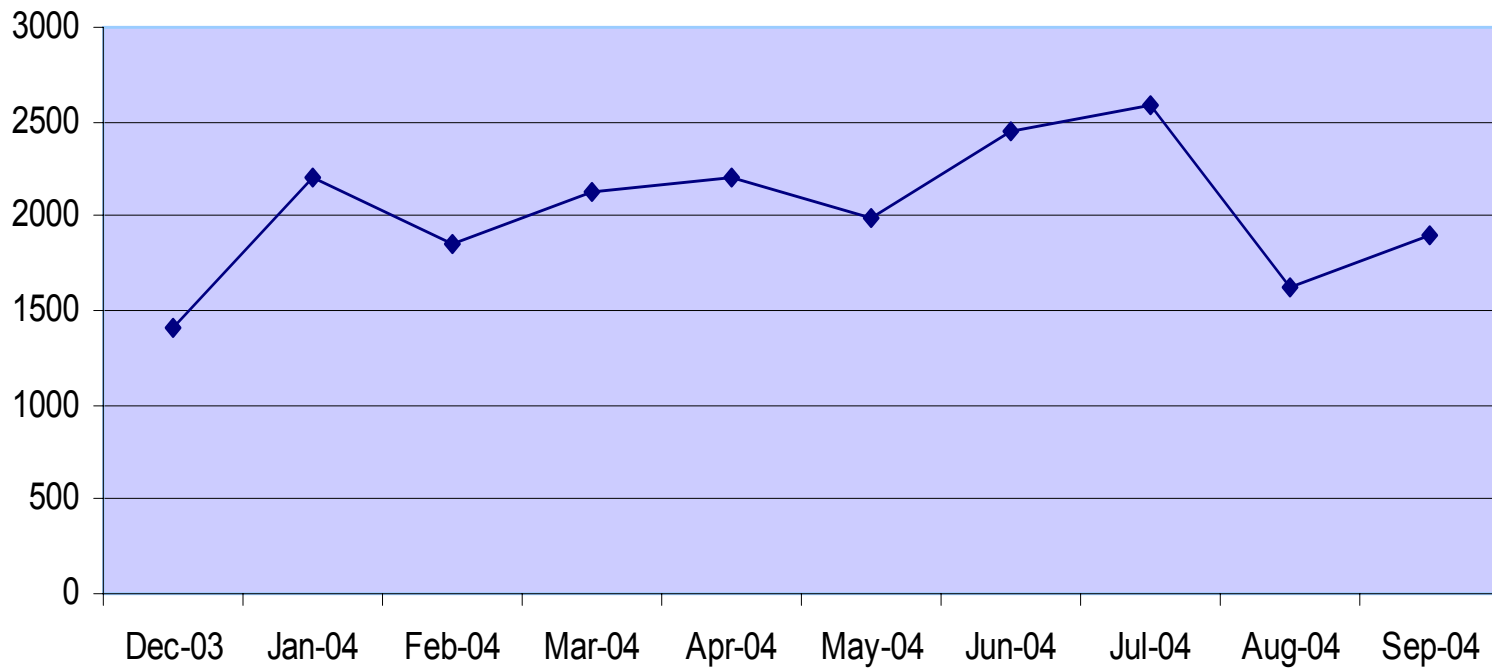


- **Audio**
 - Sept 2004: 1898 port hours, 691 mtgs
- **Data**
 - Sept 2004: 155 port hours
- **H.323**
 - Sept 2004: 4459 port hours
- **H.320**
 - Sept 2004: 280 port hours, 27 mtgs
 - Scheduled port hours

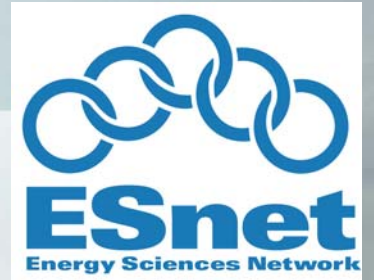
Usage Trends-Audio



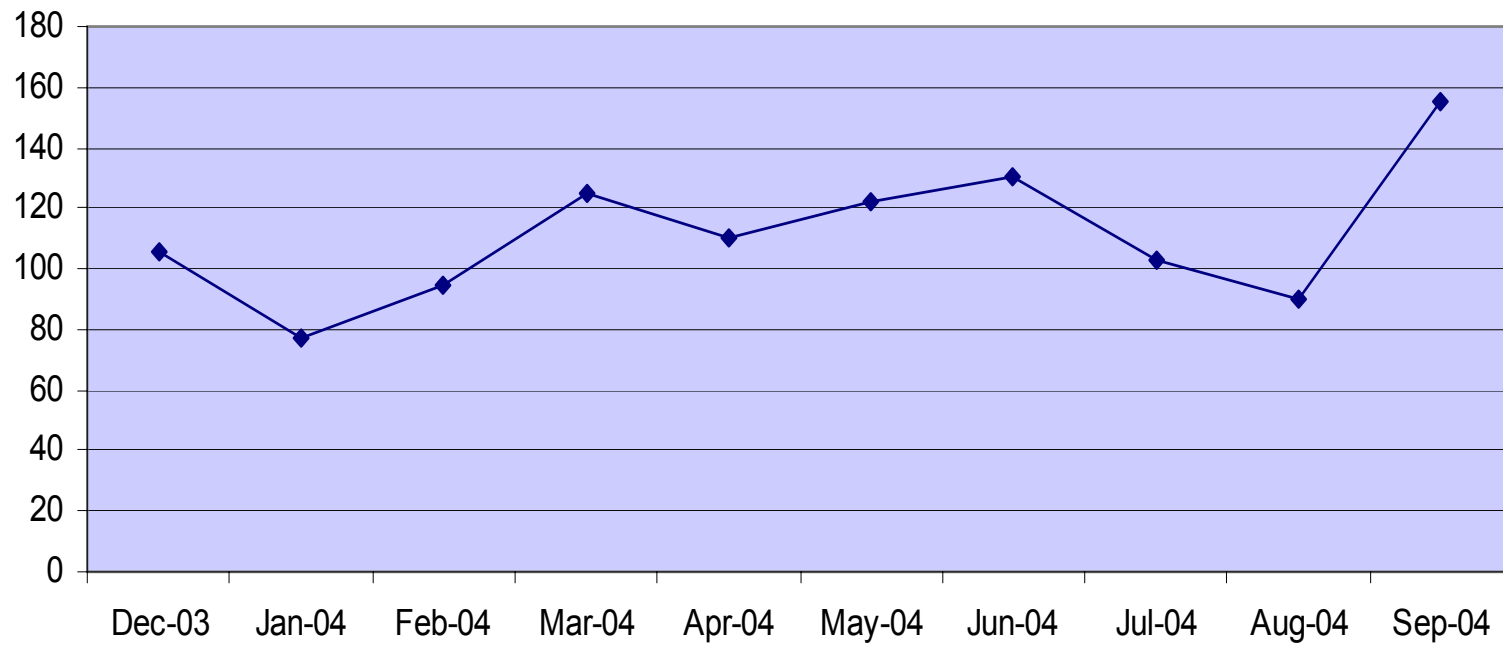
Voice Conference Port Hours



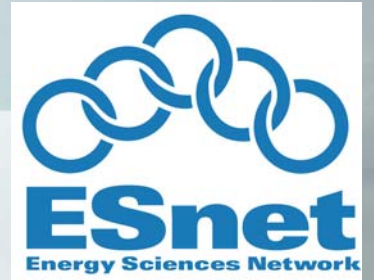
Usage Trends-Data



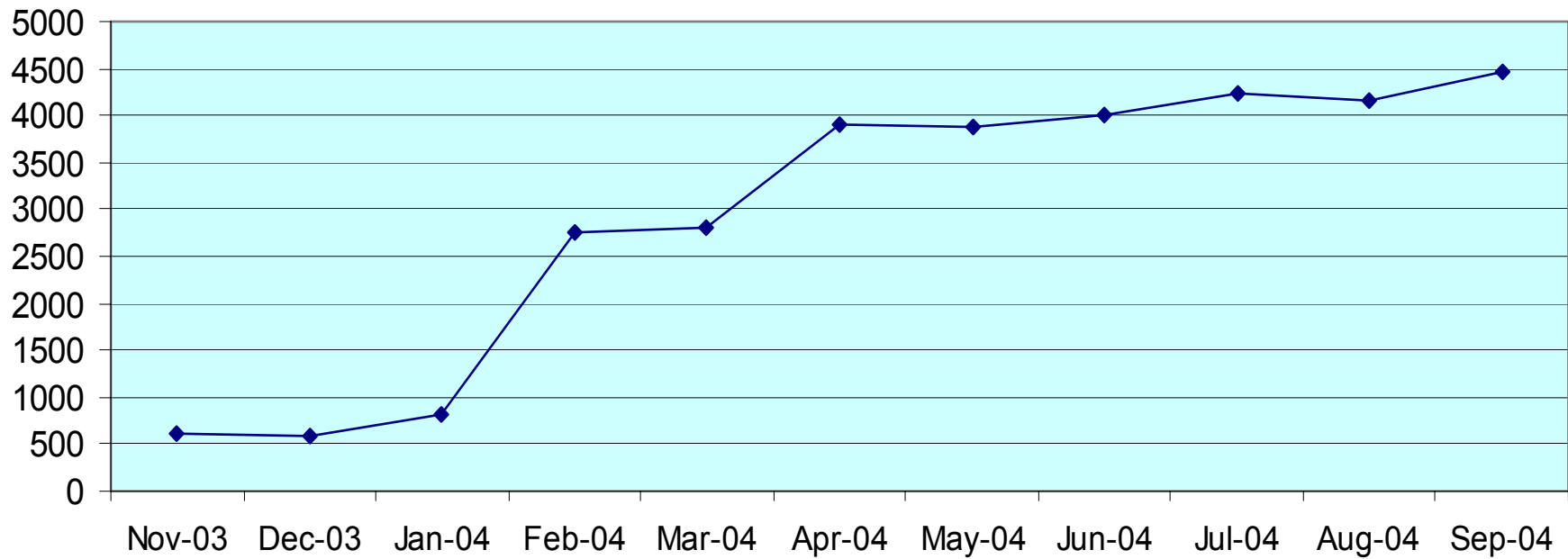
Data Conference Port Hours



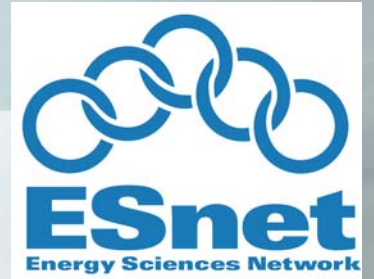
Usage Trends-H.323



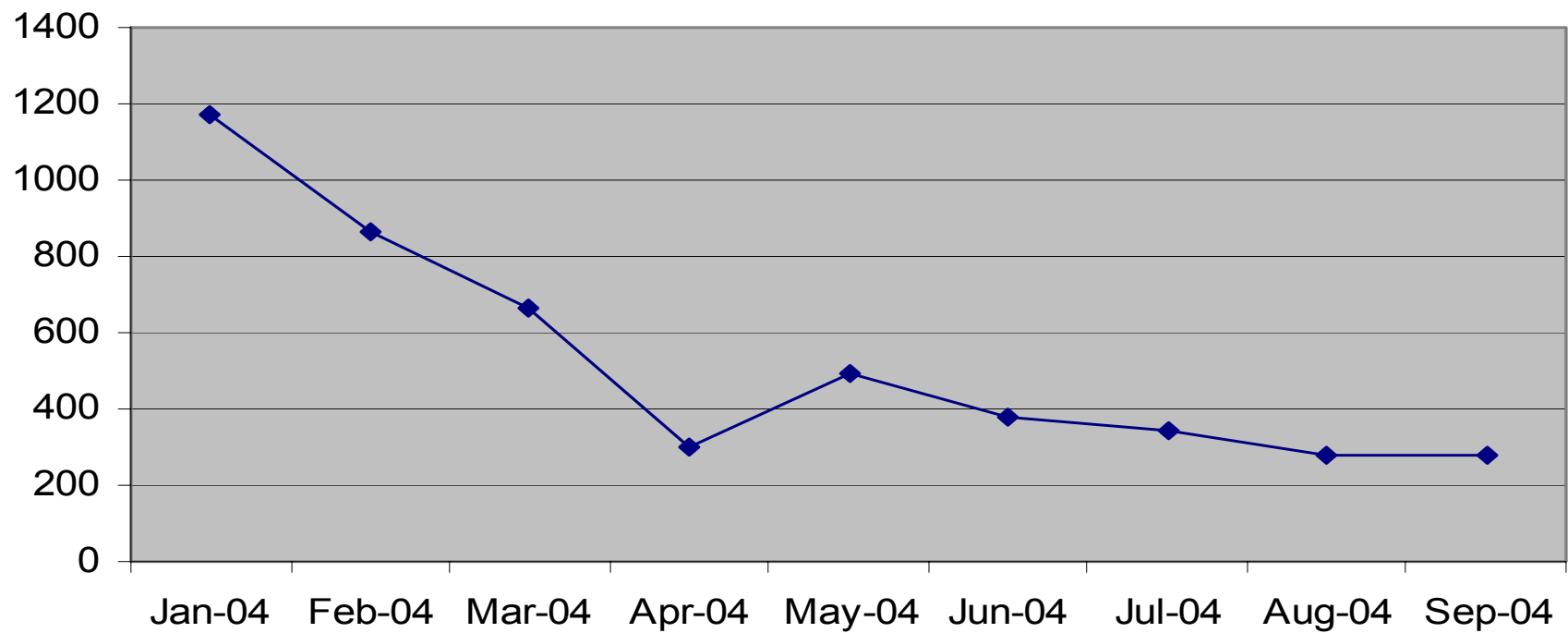
H.323 MCU Port Hours



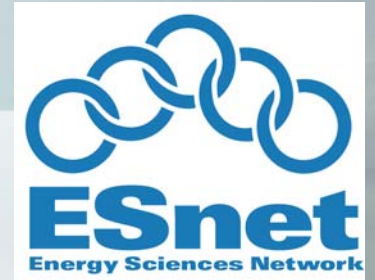
Usage Trends-H.320



Accord Conference Hours



ECS Development Process

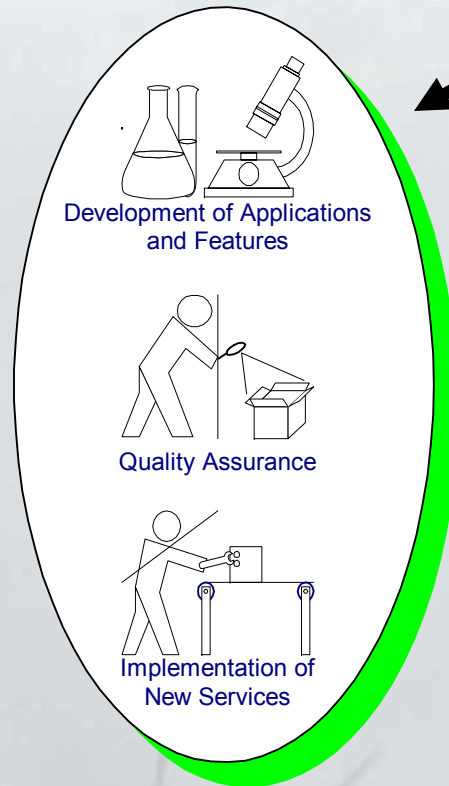
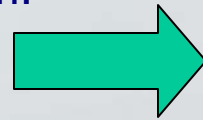


ESnet Staff



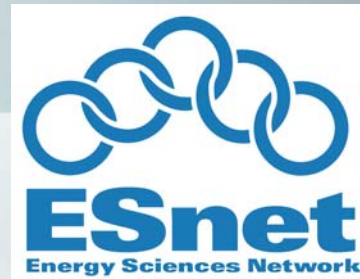
Input and Requests from:

1. DOE
2. ESSC
3. ESSC Working Group (RCWG)
4. ESnet Program Plan
5. ESnet End Users
6. Industry Trends
7. Vendors
8. ESnet Staff
9. Others



New Services used by
ESnet Customers





- **Questions/Comments?**