



**Creating New Session**

Session Name: Planning and Status  
Requestor: Elaine Nova  
Case Code: 100-1402E  
Description: Semi-weekly meeting of department heads to discuss old and new business.

Start Date and Time  
☐ Now  
☒ Specify Time  
D: 12.21.1998 Monday  
T: 9:00 A.M.  
End:  
☒ Duration: 0:50  
☐ Specify Time  
End time: Monday 9:50 A.M.

☒ Repeating Session  
Repeat Type:  
☐ Daily  
☒ Weekly  
☐ Monthly(date)  
☐ Monthly(days)  
Every: 1 Week(s)  
Ending:  
☒ End Date: 05.18.199  
☐ Total Sessions

Available Sites:

| ID     | Name         | Partition  | Ports | Resource    | Action |
|--------|--------------|------------|-------|-------------|--------|
| 107700 | Alton2_BdRm  | GroupB     | 1     | Site (Full) |        |
| 108700 | Alton_Rm100  | RegionC100 | 1     | Site (Full) | ADDED  |
| 107500 | AltonHQ_BdRm | GroupB     | 1     | Site (Full) |        |
| 108900 | Babry_West10 | RegionC100 | 1     | Site (Full) | ADDED  |
| 107100 | BecLineCmRm  | GroupA     | 1     | Site (Full) |        |
| 109100 | Creston_302  | RegionC100 | 1     | Site (Full) | ADDED  |

Selected Sites:

| ID     | Name         | Partition  | Resource    | Conflict |
|--------|--------------|------------|-------------|----------|
| 108700 | Alton_Rm100  | RegionC100 | Site (Full) |          |
| 108900 | Babry_West10 | RegionC100 | Site (Full) |          |
| 109100 | Creston_302  | RegionC100 | Site (Full) |          |

Select MediaFORUM: Automatic MediaFORUM selection.  
Initial Conductor: Babry\_West10 (RegionC100)  
Session Type: Multipoint - MediaFORUM  
Session Quality: Economy  
No conflict.

Save Session    Reset Information    Cancel Session

## MCS-ATM

## Multimedia Conferencing Services

### Robust, feature rich multimedia conferencing services for ATM networks

Public and private service providers worldwide have deployed extensive ATM based networks with an eye towards consolidating voice, data and video traffic over a single managed network infrastructure. Until now, ATM based videoconferencing services have been difficult to implement, manage, and have lacked many of the capabilities found in ISDN based services. Starvision's MCS-ATM tears down these barriers enabling ATM based service providers to play a significant role in the lucrative ten billion dollar annual videoconferencing services market.

MCS-ATM, a service layer software module for Starvision's SCMS-25000, enables H.320, Motion JPEG, MPEG-1 and MPEG-2 conferencing services to be delivered over ATM networks.

Powerful automation and management tools allow these services to be delivered more reliably and cost effectively than today's ISDN based videoconferencing services. In addition, web based conference scheduling, advanced call models, low latency multiparty conference bridging, and gateways to ISDN and IP based videoconferencing networks make these services extremely attractive to subscribers, opening up significant new sources of value added service revenues for ATM based service providers.

Whether you are a public service provider seeking to rapidly introduce profitable, differentiated conferencing services or a large private network operator seeking to reduce costs by moving legacy ISDN based videoconferencing users onto your new ATM network, MCS-ATM offers a powerful and compelling alternative to ISDN based conferencing.

- An SCMS-25000 service layer module for seamless narrowband and broadband multimedia conferencing over native ATM networks
- Flexible multiparty videoconferencing, with support for transcoding and gateways to ISDN and IP videoconferencing users
- Automated web based scheduling service empowers subscribers and lowers service operating costs
- Comprehensive management and monitoring tools minimizes the cost of operating the service while maximizing user satisfaction
- An open, vendor independent solution

## Multimedia Conferencing Over ATM

ATM's end-to-end quality of service, bandwidth-on-demand, and high capacity provide an ideal transport for real-time visual communications services. Starvision's MCS-ATM enables service providers to fully maximize the revenue generating potential of their ATM networks by providing a comprehensive solution for ATM based, managed multimedia conferencing services.

### H.320 over ATM (H.321)

The advent of T1/ATM multiplexers (also known as integrated access devices) has made H.320 conferencing over ATM a cost effective and appealing alternative to ISDN. When combined with any standard H.320 conferencing terminal, T1/ATM multiplexers offer service providers and their customers many advantages over ISDN.

Customers benefit from lower communications costs realized by consolidating multiple services onto a single network connection. In addition, the dynamic bandwidth-on-demand capabilities of T1/ATM multiplexers means that customers can use their bandwidth more efficiently and take advantage of higher quality bitrates when participating in a videoconference.

Service providers benefit by being able to offer their customers complete, integrated solutions for all their voice, video, and data needs. Starvision's MCS-ATM proxy signaling capability overcomes the lack of SVC signaling capabilities common on many of today's T1/ATM multiplexers and is compatible with UNI 3.x and UNI 4.0 compliant networks.

### MPEG-2 over ATM (H.310)

For the most natural and highest quality conferencing, MCS-ATM offers comprehensive support for low latency, broadcast quality MPEG-2 codecs. These codecs are now available from a variety of suppliers and have become an affordable alternative to top end H.320 codecs in group conferencing, telemedicine, and interactive distance learning applications. MCS-ATM supports the industry's broadest range of MPEG-2 codecs and is the only solution that offers seamless interworking of H.321, MPEG-2, and H.320/ISDN conferencing terminals.

## Unmatched Flexibility

Using MCS-ATM, service providers can offer a wide range of conferencing services to their customers. MCS-ATM supports the following session types:

**Point to Point** - connects two sites together in a bidirectional session. When using heterogeneous conferencing standards/terminals (e.g., one MPEG-2 user and another H.320/ISDN user) gateways will be automatically invoked to provide transcoding services.

**Continuous Presence** - connects up to 8 sites together in an interactive session. Any site may be viewed full screen or up to 8 sites may be viewed simultaneously. Delivers full duplex, mix-minus audio for all conference participants

**Multi-Monitor Full View** - connects up to 4 sites together without requiring a centralized multipoint conferencing bridge. This session type can use the underlying multicast capabilities of the ATM transport network to send each participant's video to the remote sites. Commonly used in Interactive Distance Learning networks, multi-monitor full view sessions require each site to be configured with a single video encoder and up to 3 video decoders.

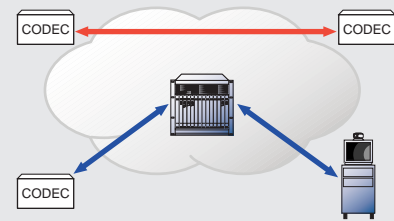
**Broadcast/Multicast** - connects up to 32 sites together in a unidirectional conference. Ideal for addressing a large number of remote sites.

## Bridging the Gap

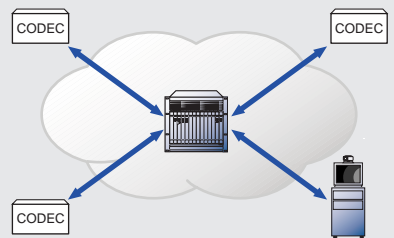
When using MCS-ATM with Starvision's MCU/Gateway technologies, service providers can offer their ATM based conferencing customers interworking with non-ATM based conferencing terminals and networks. MCS-ATM supports interworking of MPEG-2 and H.321 terminals with H.320/H.323 sites as well users on legacy DS-3 based broadband conferencing networks and analog fiber networks. MCS-ATM can even provide seamless interworking of continuous presence and multi-monitor, full view conferencing sites.

## Internet Based Scheduling

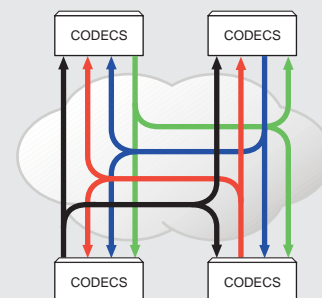
Starvision MCS-ATM includes SessionBuilder™, a powerful service application designed for reliable and secure videoconference scheduling over the Internet. SessionBuilder empowers subscribers, giving them the ability to initiate immediate and future conference



Point to Point



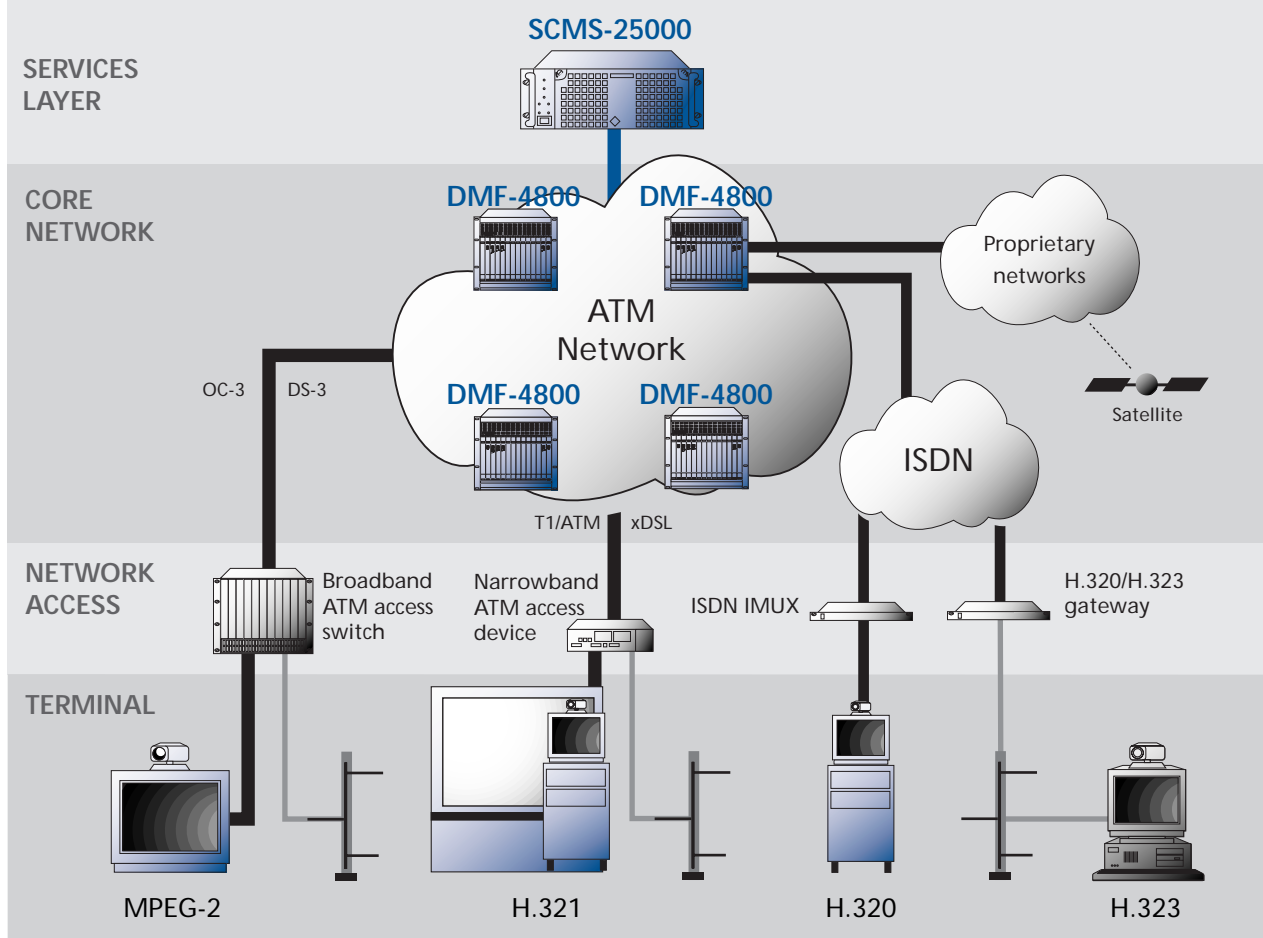
Continuous Presence



Multi-monitor Full View



Multicast/Broadcast



Four tier architecture for managed visual services

sessions without the delays and inconvenience associated with centralized scheduling services. Service automation through user controlled scheduling lowers operational costs and minimizes the staff required to run a videoconference service.

With SessionBuilder, subscribers can set up conferences between heterogeneous terminals as easily as any other type of conference. Users can schedule conferences up to 2 years in advance, may repeat sessions on a daily, weekly, or monthly basis, and can optionally specify a desired quality of service for the session. SessionBuilder performs automatic resource conflict resolution and allows users to email, fax, or print confirmation reports.

When a conference is about to begin, MCS-ATM will automatically connect all sites, freeing the end users from the complexities of dialing. During the conference, SessionBuilder makes it easy for users to extend their conference and even add and drop other sites.

## Scalable, Reliable, Profitable

MCS-ATM leverages the power of Starvision's Multi-Service Intelligent Network platform and carrier-class intelligent peripherals to deliver the industry's most flexible, reliable, scalable, and cost effective multimedia conferencing solution.

Powerful, web-based management tools, which reduce the cost of provisioning, managing, and monitoring a large multimedia conferencing service are included with MCS-ATM. These tools give service operators end-to-end visibility of their services and allow them to rapidly diagnose and resolve faults. Service providers may also use these tools to create virtual private video networks, closed user groups and even to offer customer service management capabilities to their conferencing customers.

MCS-ATM enables service providers to significantly raise the bar for service reliability and performance. By leveraging

capabilities of Starvision's SCMS-25000 services platform such as fault tolerance, scalability, automatic load balancing, and system wide redundancy, MCS-ATM minimizes outage times and maximizes customer satisfaction. And using this same platform, videoconferencing service providers can increase their revenues by expanding into other high margin, value added services such as disaster recovery, generic connection management, video streaming, and video trunking.

## Vendor Independence

Starvision is committed to providing open, standards compliant solutions which enable service providers to deliver high value, profitable network based services to their customers. MCS-ATM is based on a modular architecture and is capable of supporting any vendor's codecs, MCUs, gateways, and networking equipment. Whether you are deploying new services over ATM or adding to your existing ISDN based videoconferencing services, MCS-ATM offers a powerful solution for managed multimedia conferencing.

## Service Capacities

Up to...

|  |        |
|--|--------|
| Number of subscribers .....  | 10,000 |
| Number of endpoints/codecs .....   | 5,000  |
| Number of MCU/Gateways .....   | 1,200  |
| Quality of Service levels .....  | 32     |
| Concurrent management sessions .....   | 80     |
| Concurrent subscriber sessions .....   | 1,600  |
| (any combination of point to point, continuous presence, multi-monitor full view, and broadcast/multicast) |        |

### MCS-ATM Services

- Web/Java based scheduling
- Point to point, Continuous Presence, Multi-Monitor Full View, Multicast/ Broadcast session types
- Chair control
- Remote device control
- Automated call setup
- T.120 whiteboarding and application sharing
- Web based service management

- Wireless ATM including LMDS/LMCS

#### T1/ATM Integrated Access Devices

- 3Com S310/S330
- Ascend/Lucent SA50/SA100/SA600
- Cisco 3810
- Newbridge/Siemens MainStreetXpress 36121/36123

#### Video Codec Technologies

##### H.320 Videoconferencing Codecs

- Intel TeamStation
- Picture Tel Concorde, Venue, Swiftsite I/II
- Zydacron 220Plus, 360Plus

##### MPEG-1 Codecs

- VBrick 1000, 2000, 3000

##### H.310/MPEG-2 Codecs

- AG Communications Systems VIA 188
- Pixstream VDS2000
- Newbridge/Siemens MainStreetXpress 36150 , 36177
- VideoTele.com M2-C
- Others

#### Multipoint Bridge/Gateways

- Starvision AMF-400/800 and DMF-4800
- support for others available

#### Interworking Units

- Starvision MGW-580 ATM/ISDN Interworking Unit
- Newbridge/Siemens MainStreetXpress 36170/36177 ATM/ISDN IWU

#### Future Service Enhancements

- Realtime multimedia streaming and storage
- H.323 support (including Annex C)

#### Future Access Technologies

- xDSL and cable modem support (H.323)

## Software Compatibility

### SCMS

- Requires SCMS-25000 Release 2.0 or later

### SessionBuilder

- Netscape 4.x
- Microsoft Internet Explorer 4.x/5.x

## Hardware Compatibility

### Transport Networks

Supports services delivered over the following networks:

- Any SVC enabled ATM network (IISP, UNI 3.1, UNI 4.0, UNI 4.0 proxy)
- ATM SPVC/PVC network (Siemens/Newbridge 46020/48020)

Starvision's proxy SVC signalling agent has been tested against numerous ATM vendors switches including;

- 3Com Pathbuilder/Corebuilder
- Ascend/Lucent CBX500/550
- Fore ASX, TNX
- Newbridge/Siemens MainStreetXpress

### Access Technologies

The following is a partial list of access technologies supported by the SCMS-25000:

- Wide variety of DS-3/OC-3 access devices



### Starvision Multimedia Corporation

1-888-383-5553

[www.starvision.com](http://www.starvision.com)

Vancouver, BC  
Dallas, TX

© Starvision Multimedia Corporation, 1999. All rights reserved.

Starvision and the Starvision logo are trademarks of Starvision Multimedia Corporation. All trademarks are recognized as property of their respective owners.

Information subject to change without notice.

SVD0C0112 - Printed in Canada