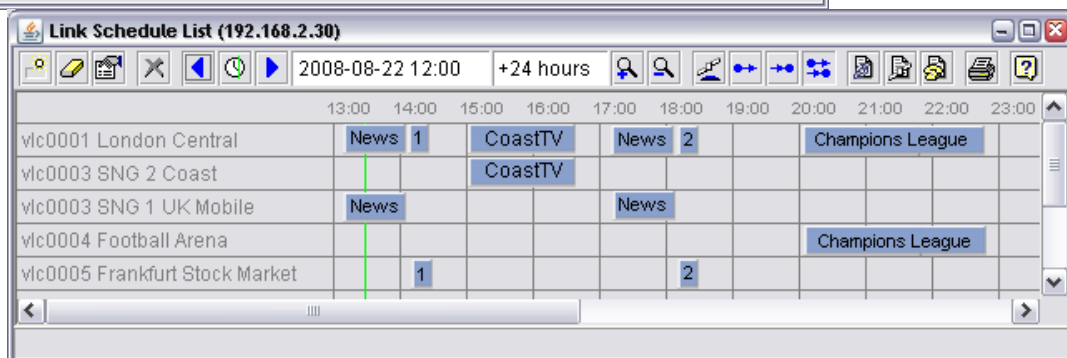
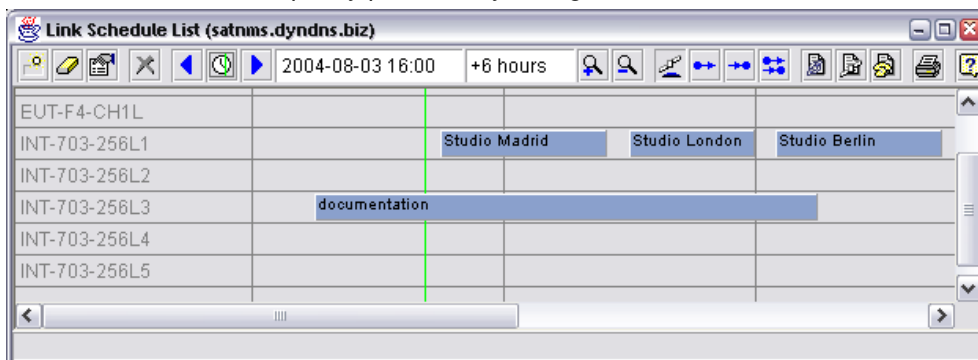


## sat-nms LM Link Management Module

The **sat-nms** NMS System is used in small and medium-sized VSAT networks or satellite ground stations to monitor and control a number of remote satellite ground stations or VSAT's from a central site. The **Satellite Link Management** is an optional software module which enables the operator to set up satellite links easily, either by operator interaction or automatically time scheduled, controlled by the central **sat-nms** NMS and corresponding remote VSAT local controllers (VLC). The VLC's monitor and control the remote satellite ground terminal. The software module also manages the available satellite channels and performs an automatic channel assignment. The main features of the satellite link management are:

- Supports bi-directional satellite links occupying two satellite channels (modem data link applications)
- Supports one-way (A -> B) transmissions and broadcasts (A -> B, C, D...) as well (any distribution application)
- Built in resource control: keeps track of the usage of satellite channels and earth station equipment. Impedes the operator from using the same satellite resource twice at the same time.
- Links / transmissions may be scheduled or started immediately on demand. Links may be scheduled to be active periodically (e.g. once a day).
- Automatic satellite channel assignment from customer defined channel pools.
- Supports multiple user groups with access to different satellite ground station equipment. Groups can share satellite capacity provides by a single NMS.



### Key Features

- Support for unidirectional and broadcast links
- Support for bidirectional links
- Link scheduling and automatic channel assignment
- User-friendly graphical interface with Drag&Drop link configuration
- Central resource control / resource tracking
- Distributed scheduling for high reliability
- "One Click" Link Monitoring with CSM module
- Link Down Time Statistics for static links
- multi-tenant / multi-client capable

### Contact Information

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## sat-nms LM User Interface

Start Time	End Time	Duration	Reason
2005-03-16 00:00:00	2005-03-16 14:06:23	14h6m	Administratively down
2005-03-16 14:08:31	2005-03-16 14:10:00	1m29s	Administratively down
2005-03-16 14:10:37	2005-03-16 14:13:29	2m52s	Link fault
2005-03-16 14:15:00	2005-03-22 00:00:00	5d9h	Administratively down
Total down time		99.92%	5d23h
Total fault time		0.03%	2m52s
			Σ Availability 99.97%

Down Time Statistic View

Channel Name	Frequency	Polarization
Astra-11567V	↑ 0.000 MHz H	↓ 11567.000 MHz V
Astra-11685V	↑ 0.000 MHz H	↓ 11685.000 MHz V
Astra-11778V	↑ 0.000 MHz H	↓ 11778.000 MHz V
Astra-11837H	↑ 0.000 MHz V	↓ 11837.000 MHz H
Astra-11954H	↑ 0.000 MHz V	↓ 11954.000 MHz H
EUT-F4-CH1	↑ 14310.000 MHz H	↓ 11596.000 MHz V
EUT-F4-CH1H	↑ 14315.000 MHz H	↓ 11586.000 MHz V
EUT-F4-CH1L	↑ 14305.000 MHz H	↓ 11606.000 MHz V
Hotbird 2-RAI	↑ 14100.000 MHz V	↓ 11804.000 MHz H
Hotbird 3-StreamNews	↑ 14100.000 MHz V	↓ 11881.000 MHz H

Satellite Channel List

**Link Properties**

link name: Daily News  link is activated  static link

end point A: vlc0101 Linkman Enhancement Test  end point B: extern link end point

TX-1: PAL-16-MBit-TX  TX-2: PAL-16-MBit-RX

channel (A->B): Astra-11837H EIRP (dBW): 0.0  AUTO channel (B->A): EIRP (dBW):

start now  as long as possible  continuously

start at: 2005-07-14 20:00:00  end at:

end after: 15min  intermittently every:

burst duration:

OK Cancel

Link Properties Definition Dialog