

product

CellStack Integration Suite 6

Management, Control and Operation
of the CellStack Video Network



surveillance
surveillance
& control
& control



A networked solution for video surveillance is complex and requires a powerful management system that allows the user to perform daily tasks. A key attribute of this system must be its ability to mask the complexity of the network from the surveillance operator while still allowing the experienced IT user to perform essential system administration tasks.

The CellStack Integration Suite comprises the following integrated products:

- Manager
- Operator
- Event Handling System
- Gateway
- Vision
- Vision WebGate
- MultiVision

The CellStack Integration Suite (CIS) is a comprehensive surveillance network management system for ATM and Gigabit Ethernet networks. CIS is well suited to a multi-service IT environment, which allows the network designer to create a video surveillance network suitable for all user types and enables the network administrator to manage the video surveillance network. The CIS comprises the following integrated products:

- Manager
- Operator
- Event Handling System
- Gateway
- Vision
- Vision WebGate
- MultiVision

CellStack Manager

CellStack Manager allows the system administrator to graphically represent a surveillance network and manage network devices to meet Service Level Agreements (SLAs).

Therefore, as well as network configuration, CellStack Manager includes a high degree of fault diagnosis and management.

The ability to manage, control and update the entire video network quickly and efficiently through CellStack Manager results in lower maintenance costs and increased availability.

CellStack Manager uses a generic Microsoft Windows user interface and 'tree-view' structure, allowing an administrator to manage many features.

Key features:

- Control of:
 - CellStack Centauri MPEG-2/ MJPEG video codecs
 - Telindus MPEG-2/MPEG-4 4xxx series codecs
 - CellStack Centinel Networked Video Recorder (NVR)
- Allocation of codec and user domains
- Administration of maps, cameras and telemetry
- Control of video sequences and playback
- Control of Event Handling System (EHS)
- Permission and access privileges for operators, including maps, cameras, monitors, workstations and video profiles
- Network fault diagnosis and notification
- Performance monitoring and call records, informing managers of the behaviour of the video network, for example highlighting temperature variations and chassis error rates which may be required as part of a Service Level Agreement (SLA)
- Audit trail analysis, enabling managers to monitor all connection and operator activity
- 24/7 Operational Data Back-up, providing a means by which system managers can back-up the centralised network database at set intervals while the system is still active
- Software Auditing, which displays the software versions running on Centauri nodes and CIS applications
- Automatic software download facility for CellStack Centauri nodes
- Fully integrated with all other CIS applications

A special version of CellStack Manager, which is fully integrated with Hewlett Packard OpenView Network Node Manager (NNM), is also available so users familiar with this product can work with CellStack Systems nodes and view alarms.

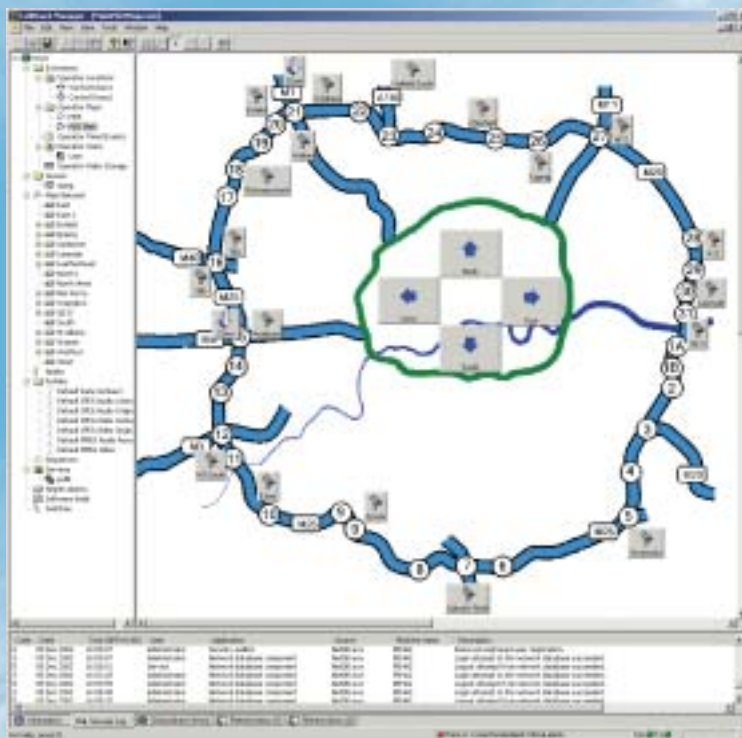


Fig 1.

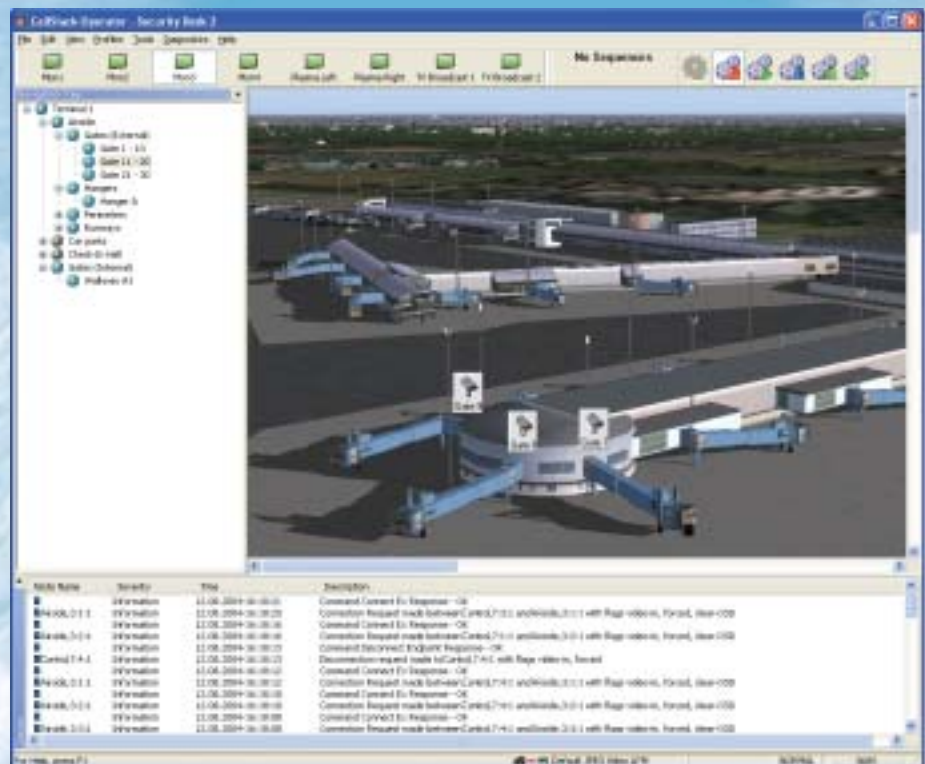
CellStack Manager

used in a Highways monitoring application for the London M25 motorway

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Fig 2.
CellStack Operator
used in an Airport
surveillance application



CellStack Operator

CellStack Operator is a PC-based software tool designed as an alternative to keyboard workstations. This application allows operators to make video, audio and telemetry connections at the touch of a button using a simple user interface.

Designed to be interoperable with a variety of camera protocols, CellStack Operator does not limit customers to any one particular make or model of camera, but instead enables cameras to be selected based on the requirements of a given project.

Key features:

- Creation of video, audio and telemetry connections
- Creation of connections to CellStack Vision, MultiVision, standard monitors and quad split displays
- Intergrated with the Event Handling System (EHS), which can be used to zoom cameras to pre-defined positions, for example when an intruder is detected
- Display of alarm and status information from video endpoints
- Easy selection of pre-defined video, audio and telemetry setting(s) (profiles)
- Connection to multiple monitors
- Real-time control of camera PTZ facilities (via an on-screen control or joystick)
- Operational control of the CellStack Centinel NVR

CellStack Event Handling System (EHS)

The CellStack Event Handling System (EHS) allows users to combine Access Control Systems and networked video surveillance.

The EHS accepts inputs from a wide range of third party devices via a CellStack I/O Unit, Telindus 4xxx series codec or directly via a PC Ethernet or serial port.

functions, such as camera positioning, video recording or external alarms. In addition, timed trigger systems can be set up for performing actions at set intervals.

All these features can be controlled via two modes of operation: either fully automatic or with operator intervention.

Key features:

- Fully compatible with the CellStack Centauri and CellStack I/O Unit
- One EHS can monitor up to 2048 CellStack I/O unit ports or up to 255 Telindus 4xxx series codecs
- Up to 32 external devices can be monitored per CellStack I/O Unit
- Trigger system for motion, video loss and unified picture alarms using Telindus 4xxx series codecs
- Generic trigger system for use with third party monitoring systems
- Fully configurable list of actions, including opening and closing connections, controlling cameras and telemetry
- Fully automatic or semi-automatic operation
- Automatic queuing of events, so important alarms are not missed
- Automatic override of existing video or audio connections
- Multiple Event Handling Systems can run on a network

CellStack Gateway

CellStack Gateway enables users to integrate third party applications, such as camera control, access control, alarms, electronic road signs and network management systems, with the video network.

CellStack Gateway is a key element in creating a fully integrated networked surveillance solution. It can provide video, voice and telemetry functionality to a third party control system.

Key features:

- Extensive Application Program Interface (API) for application development
- Test software for application quality assurance
- Full control of CellStack Centauri and Telindus 4xxx series codecs
- Full control of third party devices via CellStack I/O Units
- Codec status feedback system
- Full integration with the CellStack Centinel NVR
- Codec status feedback system
- Load-balancing over multiple CellStack Gateway servers
- Server redundancy management

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Management, Control and Operation of the CellStack Video Network

Fig 3.
**A CellStack Surveillance
Solution**



CellStack Vision

CellStack Vision enables users to view high quality MPEG-2 and M-JPEG video, from both the CellStack Centauri and CellStack Centinel NVR, on their PC monitors.

Key features:

- Convenient selection of different camera inputs using channel buttons
- MPEG-2 and MJPEG video decoding in one product
- Connection initiation from within Vision or via another CellStack application, such as Manager or Operator
- Connection prioritisation, to allow the current view to be overridden by an alarm event
- Support for multiple PC monitors, allowing the operator to see the output from a camera on one monitor and a second CellStack application, such as CellStack Operator, on the other
- Connection display on the window status bar
- Supports playback of Centinel NVR export files

CellStack Vision WebGate

CellStack Vision WebGate allows users to display live video images from a CellStack codec on a website. The software samples M-JPEG video from codecs on the network and automatically saves the video frames as graphics files for transfer to a web server.

Key features:

- Simultaneous processing of up to 32 video streams
- Configurable sampling rate
- Configurable image size and quality
- Automatic File Transfer Protocol (FTP) copying of image files to web server
- Connection initiation from within Vision or another CellStack application, such as CellStack Operator

CellStack MultiVision

MultiVision allows users to view MPEG-2 and MPEG-4 streams from any of the Telindus 4xxx series codecs on their PC monitors.

Key features:

- Quad view application capable of displaying 4 windows with separate video streams
- Resizeable viewing windows
- On Screen Display for each video stream being decoded
- MPEG-2 and MPEG-4 streams can be viewed at the same time



Disclaimer: The features and technical specifications listed on this sheet are correct at the time of printing. Telindus Surveillance Solutions Ltd reserves the right to change specifications and availability of features without prior notice.

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