# MES, ESR and Video Surveillance

Key achievements of 2025
and roadmap for 2026

# MES Equipment

## Managed Ethernet Switches

### ISS OS

- MES24xx
- MES3400
- MES37xx

### ROS4 OS

- MES23xx
- MES33xx
- MES35xx

### ROS6 OS

- MES2300-xx
- MES3300-xx
- MES5400-xx
- MES5500-xx onwards

# MES 2025 Results - ROS6

MES series 2300, 3300, 5332A, 5400, 5500, 5600, 5700

## 6.6.7

- Support for adding VLANs on LAG interfaces via the WEB
- Support for GRE tunnels
- VRF improvements: support for DHCP Relay, SNMP v2/v3

## 6.6.8

- Secure FTP client
- NTP support
- Non-Stop Forwarding for stacking (NSF)
- VRF improvements: support for DNS, SFlow, SSH client

## 6.6.9

- PFC (Priority-based Flow Control)
- PIM support for VRF
- Support for power module info output via CLI
- ROS4 feature porting, including IP Source Guard per VLAN, MES2300-24P and MES2300-48P stacking, and others
- replace-config implementation (integration with NAICE)

## 6.6.10

- Support for BGP Next Hop Unchanged
- Support for Voice VLAN without Authentication (Bypass)
- VRF improvements: support for IP SLA, NTP, PBR, SCP, SFTP client
- ROS4 feature porting, including Cisco-like STP Loop Guard, Password change via TACACS and others

# MES 2025 Results - ISS

MES series 24xx, 3400, 37xx

## 10.4.2

- Added support for stacking:
    - MAC Address Table
    - VLAN
    - PoE
    - Jumbo frame
    - Loopback Detection
    - Channel aggregation
    - OSPF
    - and other features
- IP Source Guard
  and MAC-based VLAN collaboration

## 10.4.3

- Stacking improvements:
    - Dying Gasp
    - QinQ and Selecive QinQ
    - Rate-limit
    - Per-VLAN Access List
    - Ethernet OAM
    - LBD per VLAN
    - Software images synchronization
    - and other features
- Support for LBD per VLAN

# MES 2025 Results - Hardware

## MES5300-24

**Firewall**
1.68 Tbps

**Interfaces**
24 × 10G SFP+,
6 × 100G QSFP28,
1 × OOB

**Power supply**
AC/DC, 2 hot-swappable
power supplies

## MES3500I-24F

**Firewall**
128 Gbps

**Interfaces**
20 × 1G SFP,
4 × 1G Combo (RJ-45/SFP)
4 × 10G SFP+

**Power supply**
AC/DC, 2 hot-swappable
power supplies

## MES2420D-24DP

**Firewall**
200 Gbps

**Interfaces**
24 × 2.5G PoE/PoE+,
4 × 10G SFP+

**Power supply**
AC, 2 hot-swappable power
supplies

## MES3500I-8P8F

**Firewall**
72 Gbps

**Interfaces**
8 × 1G PoE/PoE+ (RJ-45),
8 × 1G SFP,
2 × 10G SFP+

**Power supply**
DC

# MES 2026 Roadmap - ROS6

## Main priorities are Datacenter, MPLS, ROS4 feature porting, security

### 1Q26

- MPLS L3VPN (Datacenter)
- Asymmetric IRB
- BFD in stack
- ROS4 feature porting, 11 tasks including FTP client, PPPoE Intermediate Agent

### 2Q26

- BGP Labeled Unicast
- BGP Dynamic Neighbors
- BFD for static routes
- Persistent Hashing for LAG
- IEEE 802.1x Open Authentication

### 3Q26

- Explicit Congestion Notification (ETS)
- Enhanced Transmission Selection (ECN)
- MicroBFD (BFD for LAG)
- NSF L3 (OSPF, VRRP, ARP)
- PTP and PRP (for new Industrial models)
- Option 79 in IPv6 DHCP Relay

### 4Q26

- BGP Labeled Unicast (MPLS)
- Persistent Hashing for ECMP
- DCBX
- Dynamic Load Balance

# MES 2026 Roadmap - ISS

MES series 24xx, 3400, 37xx

## 1Q26

- SSH version update (OpenSSH)
- IGMP Snooping adaptation for stack
- Dynamic ACL

## 2Q26

- Alarm Relay (MES3710P)
- Multiple security improvements
- DACL (NAICE integration)

## 4Q26

- IP SLA implementation
- 802.1x legacy mode implementation
- port isolation adaptation (stacking)
- switchport protected adaptation (stacking)
- GVRP adaptation (stacking)

# Multi-gigabit switches

## 2Q26



### MES2310-48DP

Firewall

440 Gbps

Interfaces

48 × 2.5G PoE/PoE+

4 × 25G SFP28



### MES2310-12XU

Firewall

440 Gbps

Interfaces

12 × 10G PoE/PoE+/PoE++

4 × 25G SFP28

# Industrial switches

## 3Q26

### Support for PTP and PRP
### MES3510S-08P

**Firewall**
24 Gbps

**Interfaces**
8 × 1G PoE/PoE+
4 × 1G SFP

**Power supply**
DC

### Support for PTP and PRP
### MES3510DS-24F

**Firewall**
128 Gbps

**Interfaces**
16 × 1G SFP
4 × 10G SFP+
8 × 1G Combo

**Power supply**
AC/DC, 2 hot-swappable
power supplies

# Data Center Switches

**1Q26**

**2Q26**

**4Q26**

### MES5320-24

Firewall
1.6 Tbps

Interfaces
24 × 25G SFP28
2 × 100G QSFP28

### MES5700-32

Firewall
25.6 Tbps

Interfaces
32 × 400G QSFP56-DD
2 × 10G SFP+

### MES5600-24

Firewall
11.2 Tbps

Interfaces
24 × 100G QSFP28
8 × 400G QSFP56-DD
2 × 10G SFP+

# ESR 2025 Results – Software

## 1.28.1

- Static multipath routes configuration
- Application Firewall in stateful mode
- CLI commands for cluster management

## 1.34.3

- Cluster expanded to four units in Active/Standby mode via VRRP
- Support for ESR-3250 and ESR-3350

## 1.37.4

- Optimized RAM performance for ESR-30/31/3100 models
- Increased the max number of static DNS records from 32 to 512 (DMVPN)
- Increased the max number of static NHRP records (DMVPN)

# ESR 2025 Results - Hardware

## ESR-3250

**Firewall**

52.6 Gbps

**Interfaces**

8 × 1G Combo

4 × 25G SFP28

**Power supply**

AC/DC, 2 hot-swappable power supplies

## ESR-3350

**Firewall**

106.5 Gbps

**Interfaces**

8 × 1G Combo

4 × 25G SFP28

**Power supply**

AC/DC, 2 hot-swappable power supplies

# ESR 2025 Roadmap – Software

## 1.40 (1Q26)

- PIM SM
- BGP Confederation
- Specify NTP source address in VRF
- Active/Active cluster mode via VRRP
- BFD support in LDP
- Certification Authority (Firewall)
- Firewall rules on schedule

## 1.46 (2Q26)

- MPLS traffic balancing
- BGP Route Flap Damping
- BGP Soft Reconfiguration
- GeoIP (Firewall)
- Fail2ban (Firewall)
- PKI server as intermediate CA (Firewall)
- Update to Suricata 8 (IPS)

## 1.49 (4Q26)

- ECMP routes in MPLS
- BGP Additional-path
- RADIUS authentication for IPsec tunneling
- Unicast Reverse Path Forwarding (RFC 3704)
- Support for IPv6 in VTI (Firewall)

# Service routers

**1Q26**

**3Q26**



## ESR-3150

**Interfaces**
8 × 1G Combo
4 × 10G SFP+

**Firewall**
FW – 10.5 Gbps  (IMIX)
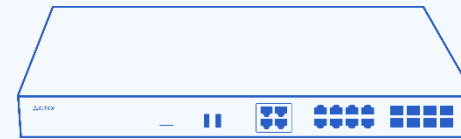IPsec – 2.16 Gbps (IMIX)



## ESR-15R-4G

**Interfaces**
4 × 1G
2 × 1G SFP

**???**
Cat 12
2 × SIM-card slots



## ESR-31-4G

**Interfaces**
8 × 1G
2 × 10G SFP+
6 × 1G SFP

**???**
Cat 12
2 × SIM-card slots

# Console servers

## 2Q26

### SCS-32

**Interfaces**
32 × RS-232 (RJ-45)
2 × 1G
2 × 10G SFP+

**Power supply**
AC/DC
Redundant power supplies

**Video Surveillance**

IP-cameras and EVI Platform

# Video and PACS 2025 Results

## EVI Platform

### 1.3

- Integration of multiple components into one system EVI Platform
- Interactive plan viewing and management
- Guest access and management
- Remote update of controller firmware

### 1.4

- Support for h.265 video codec
- Support for square number plates and number plates of the CSI counties
- New analytic models: tripwire, perimeter intrusion
- Analytics schedule
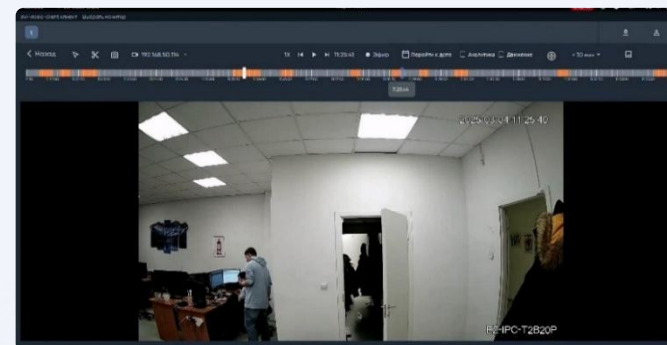- Administrator landing page and re-designed archive page

## Front-end

### EVI Web (Chrome)

**Fully functional administrator interface for system configuration and administrative tasks**
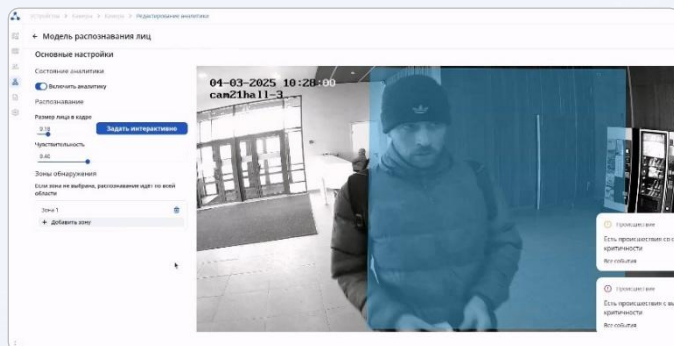


### EVI Video Client (Windows/Linux)
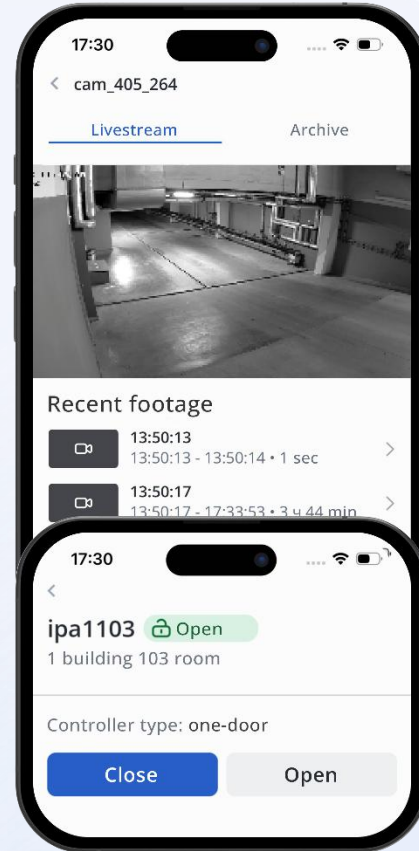
**Desktop client for security and management tasks**

# Video and PACS 2025 Results

## EVI Platform Extensions

### EVI Mobile client
### for Android and iOS

- Camera
  and archive viewing
- Checkpoint access
- Notifications
  and event journal

### SVP-100
### video panel

- A neat alternative to full-size
  security cameras
- Integration with EVI Platform
  for facial recognition
- Immediate feedback
  on recognition status

# Video and PACS 2026 Roadmap

Hardware B2B

## Specifications

- **1/2.7" CMOS image sensor**
- 4 M (2560×1440) at 25 FPS
- 2.8 mm focal distance
- 3 video streams (H.265 / H.264)
- DWDR
- Built-in speaker (SV-BA301-E)
- Built-in microphone
- MicroSD 512 GB support
- IR range up to 40 m
- **PoE Mode A, Mode B / DC 12 V**
- From -40 to +60 °C (≤90 %)

## SV-BA314-E rev. B

Dome camera



## SV-BA301-E rev. B

Cylindrical camera



## In development

- 2 Megapixel models
- True WDR 120 dB models
- PTZ model

# Video and PACS 2026 Roadmap

Hardware B2C

## Specifications

- **1/2.7" CMOS image sensor**
- 4 M (2560×1440) at 25 FPS
- 2.8 mm focal distance
- H.265, H.264 video codecs
- DWDR
- Built-in microphone
- IR range up to 5 m
- Wi-Fi 802.11a/b/g/n 2.4 GHz
- **Bluetooth**
- Type C connector 5 V, 2 A

## SV-CA204-W rev. B

Wi-Fi indoor camera



## SV-CA213-WE rev. B

Wi-Fi / Ethernet indoor motorized camera



## Smart home or provider level

- Cloud storage of video archive
- Motion detection and other video analytics
- Intuitive installation and management

# Video and PACS 2026 Roadmap

Hardware

**2Q26**

**3Q26**



## SV-BA331-E4C

Image sensor and focal distance
1/3" CMOS 4M,
fixed 2.8 mm

Image enhancement
DWDR

Protection level
IK10, IP67



## SV-BB341Z-E

Image sensor and focal distance
1/2.7" CMOS 4M,
varifocal 2.7 - 13.5 mm

Image enhancement
True WDR 120 dB

Protection level
IP67



## NVR

Channels
16/32/64

HDDs
2/8

Video output
2 x HDMI, VGA

# Video and PACS 2026 Roadmap

## EVI Platform

### 1.5

- Face recognition reports
- Number plate reports
- Support for PTZ cameras
- Flexible notification system
- Support for module redundancy

### 1.6

- Desktop Eltex equipment discovery app (cameras and controllers)

### 1.7

- Integration via OpenAPI
- Support for audio on EVI Client and EVI Web
- New analytic models: people counting, anti-spoofing
- Full Peeper integration
- Eltex cameras' motion detection utilization

### 1.8

- Flexible role model
- NVR integration

# Video and PACS 2026 Roadmap

EVI Mobile

## 1Q26

- Equipment and event filters
- Event summary
- PIN-based logging

## 2Q26

- Employee and guest lists
- Event viewing

## 3Q26

- Event calendar per camera
- Video player upgrade
- Playback speed adjustment

## 4Q26

- Dashboard
- Video export from archive
- Screenshot export from archive/camera
- Tripwire and perimeter intrusion display

**ELTEX**

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