

Broadband access scores of 2024 and future plans



Core/data center switches



Parameters

MES5300-48

MES5310-48

MES5305-48

Interfaces

48 × 10G SFP+
6 × 100G QSFP28

48 × 10G SFP+
6 × 100G QSFP28

48 × 10G SFP+
6 × 100G QSFP28

Throughput

2.16 Tbit/s

2.16 Tbit/s

2.16 Tbit/s

MAC table

32K

64K

131K

ARP table

16K

32K

30K

Number of unicast IPv4 routes

16K

32K

28K

Number of unicast IPv6 routes

4K

8K

7K

Power supply, number of PSUs

AC/DC, 1+1

AC/DC, 1+1

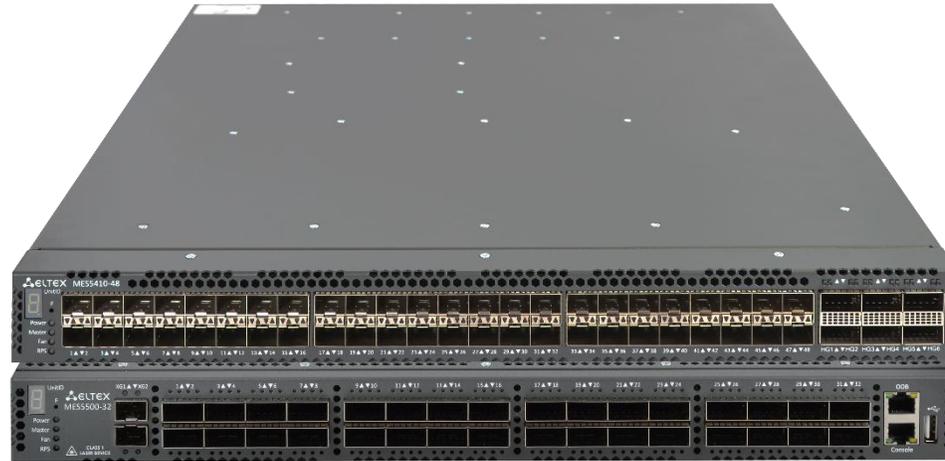
AC/DC, 1+1

Core/data center switches



It is now possible to select the direction of airflow from front to back or vice versa

Air stream
front-to-back



MES5500-32

MES5410-48

Air stream
back-to-front

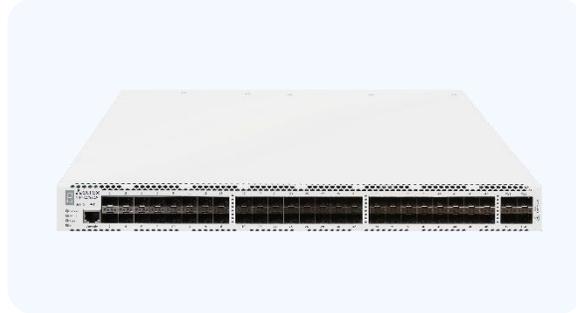


Support for breakout modes

100Gb to 4 × 25Gb

40Gb to 4 × 10G

Aggregation switches



MES3400-48F

Interfaces

48 × 1G SFP
4 × 10G SFP+

Throughput

176 Gbit/s

MAC table

32K

Power supply

AC/DC, 1+1

Switches with POE function



MES2410-08DU

Interfaces

8 × 2.5 G PoE/PoE+/PoE++
2 × 10G SFP+

Throughput

80 Gbit/s

MAC table

16K

Power supply

1 PSU



MES2410-08DP

Interfaces

8 × 2.5G PoE/PoE+
2 × 10G SFP+

Throughput

80 Gbit/s

MAC table

16K

Power supply

1 PSU



Software update



Switches

Key improvements

HardWare BFD

Implemented in the following models only:

MES5332A
MES53xx-xx
MES54xx-xx
MES5500-32

Developing opportunities to use EVPN/VxLAN technology

ARP Suppression and DHCP Relay
over EVPN/VxLAN

Service routers



ESR-15VF

Interfaces

8 × 1G 4 × FXS
2 × 1G SFP

Throughput

FW (IMIX) – 600.6 Mbit/s
IPsec (IMIX) - 139 Mbit/s
IPS/IDS – 39.5 Mbit/s



ESR-31

Interfaces

8 × 1G 2 × 10G SFP+
6 × 1G SFP 3 × Serial

Throughput

FW (IMIX) – 3.5 Gbit/s
IPsec (IMIX) – 497.2 Mbit/s
IPS/IDS – 350.2 Mbit/s



ESR-3200L

Interfaces

8 × 10G SFP+
4 × 25G SFP28

Throughput

FW (IMIX) – 9.9 Gbit/s
IPsec (IMIX) – 863.9 Mbit/s
IPS/IDS - 729 Mbit/s



ESR-3300

Interfaces

4 × 25G SFP28
4 × 100G QSFP28

Throughput

FW (IMIX) – 33.9 Gbit/s
IPsec (IMIX) – 1.4 Gbit/s
IPS/IDS – 2.6 Gbit/s



Software

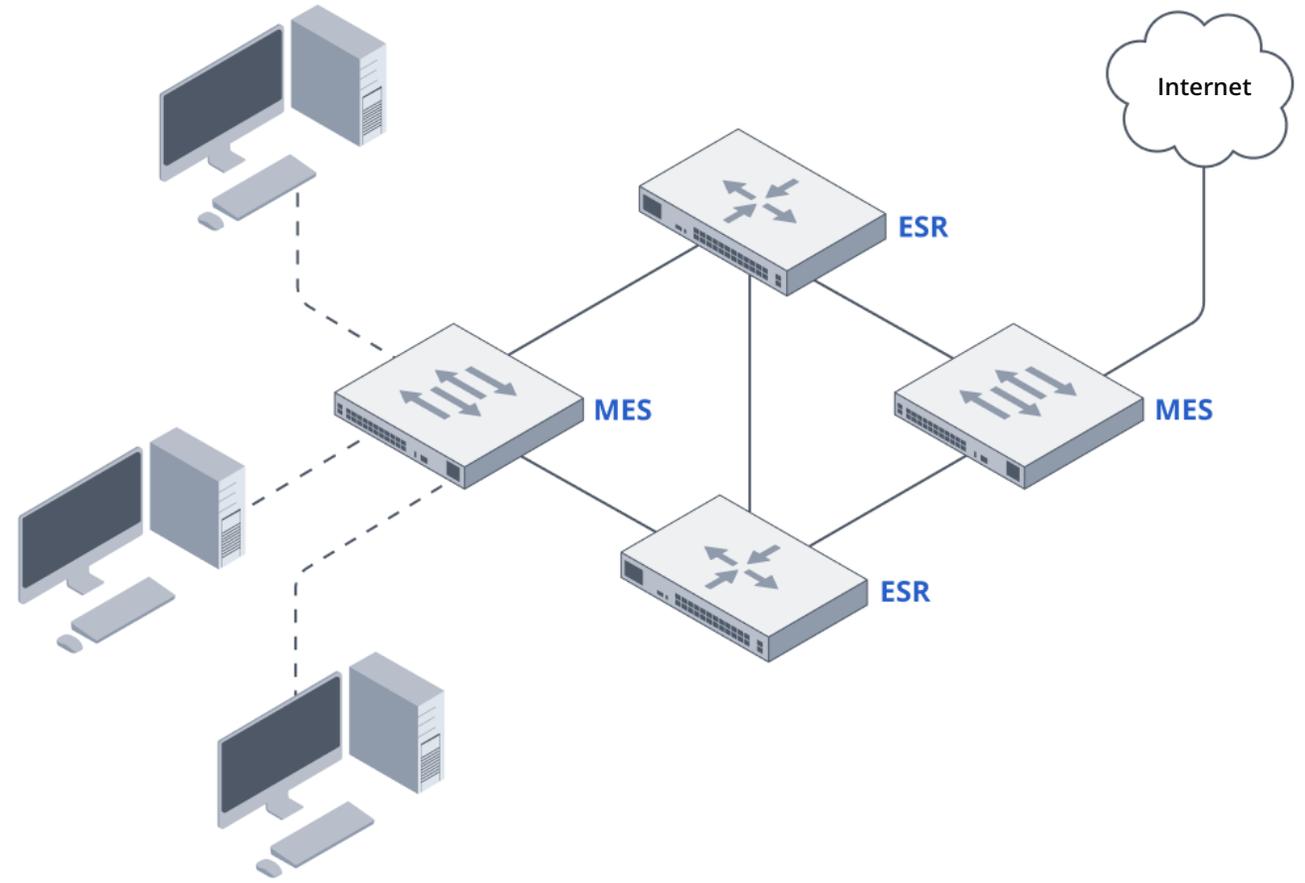


Service routers

Key improvements

Cluster

- Redundancy of routers and all connections in the cluster
- Synchronization of states for fast failover in case of failure
- Centralized cluster management, configuration and monitoring
- Synchronization of configurations
- Replacing one router in a cluster does not require reconfiguration of neighboring devices



Software



Service routers

Key improvements

WireGuard

An advanced and modern VPN protocol that is easy to set up and also provides high speeds

Firewall redesign

Transition from static firewall to dynamic firewall*

*Apply settings without config file overwriting



Service routers

Key improvements

vESR software = ESR software

The vESR functionality supports all the functionality of the current version of the ESR series devices

Combining vESR with virtualization tools

virt-manager, eve-ng, gns3

Improvements in architecture

- Interface driver support
- Support for hard disk drivers (SCSI and SATA)
- Virtualization (XEN)



Backbone routers



ME5210S

Interfaces

32 × 10G SFP+
6 × 100G QSFP28

Power supply

AC/DC, 1+1

Throughput

920 Gbit/s

Size

1U



ME2001

Interfaces

16 × 10G SFP+
8 × 25G SFP28
2 × 100G QSFP28

Power supply

AC/DC, 1+1

Throughput

300 Gbit/s

Size

1U

Software



Backbone routers

Key improvements



BGP Inter-AS Option B (MPLS)



OSPF, IS-IS Multi-instance



Carrier-supporting-Carrier (CsC)



MulticastVPN over RSVP-TE P2MP LSP



xPON equipment



Station terminals



LTX-8

Throughput
300 Gbit/s

Interfaces
8 × XGS-PON
4 × 100G QSFP28

Number of ONTs
1024/2048

Power supply
AC/DC, 1+1



LTX-16

Throughput
300 Gbit/s

Interfaces
16 × XGS-PON
4 × 100G QSFP28

Number of ONTs
2048/4096

Power supply
AC/DC, 1+1



Software

xPON equipment



Key improvements

-  Web-interface on LTP-8/16 and LTX-8/16
-  Support for IPv6 for LTP-8/16 and LTX-8/16
-  DHCP option 82 for LTP-8/16 and LTX-8/16

ECCM management system



Key improvements



User authorization via LDAP
and Microsoft Active Directory



Event generation based on syslog
(Fault Management)



SSH terminal

Access control system NAICE



Main features

- Centralized policy storage and management
- 802.1X (RADIUS) authentication of network users
- User segmentation
- Works with RADIUS-enabled devices from multiple vendors

Cisco ISE → Eltex NAICE

Plans for the future



Industrial switches



New devices

Release in 3Q25

Release in 4Q25

Release in 2Q26

MES3500I-24F

Interfaces

20 × 1G SFP
4 × 1G Combo
4 × 10G SFP+
1 × OOB
1 × USB

Throughput

128 Gbit/s

Power supply

AC/DC

Size

1U

MES3500I-8P8F

Interfaces

8 × 1G PoE+ RJ-45
8 × 1G SFP
2 × 10G SFP+
1 × USB

Throughput

72 Gbit/s

Power supply

DC

Size

4U (DIN-rail)

MES3510S-08P

Interfaces

8 × 1G PoE+ RJ-45
4 × 1G SFP
1 × USB

Throughput

24 Gbit/s

Support for

PTP, SyncE, PRP/HSR

Power supply

DC

Size

4U (DIN-rail)

MES3510DS-24F

Interfaces

16 × 1G SFP
8 × 1G Combo
4 × 10G SFP+
1 × OOB
1 × USB

Throughput

128 Gbit/s

Support for

PTP, SyncE, PRP/HSR

Power supply

AC/DC, 1+1

Size

1U



Core/data center switches



New devices

Release in 3Q25

Release in 3Q26

Release in 4Q26

MES5320-24

Interfaces

24 × 25G SFP28
2 × 100G QSFP28
1 × Console RJ-45
1 × USB
1 × OOB

Throughput

1.6 Tbit/s

Power supply

AC/DC, 1+1

Size

1U

MES5700-32

Interfaces

32 × 400G
2 × 10G SFP+
1 × Console RJ-45
1 × USB
1 × OOB

Throughput

25.6 Tbit/s

Power supply

AC/DC, 1+1

Size

1U

MES5600-24

Interfaces

24 × 100G
6 × 400G
1 × Console RJ-45
1 × USB
1 × OOB

Throughput

9.6 Tbit/s

Power supply

AC/DC, 1+1

Size

1U



Multigigabit switches



New devices

Expected release in 3Q25

MES2420D-24DP

Interfaces

24 × 2.5G PoE/PoE+ RJ-45

4 × 10G SFP+

1 × Console RJ-45

Throughput

200 Gbit/s

PoE budget

740 W

Power supply

AC/DC, 1+1

Size

1U

MES2310-48DP

Interfaces

48 × 2.5G PoE/PoE+ RJ-45

4 × 25G SFP28

1 × Console RJ-45

1 × USB

1 × OOB

Throughput

440 Gbit/s

PoE budget

1450 W

Power supply

AC/DC, 1+1

Size

1U

RoadMap 2025



MES23/3300-xx, MES3500I-08/10P, MES5332A, MES53xx-xx, MES54(55)00-xx, MES5410-48

1Q25

PFC (DCB) incl. Cut Through*

Commit (replace config)

Confirm (replace config)

Sflow in VRF

2Q25

QCN (DCB)

NSF L2 (STP, LACP, IGMP)*

MPLS L3VPN*

PBR in VRF*

Spanning-tree bpdu
filtering per PVST/PVST+

ESI ingress replication +
arp-suppression

SCP in VRF

3Q25

ECN (DCB)

ETS (DCB)

NSF L3 (OSPF, VRRP, GR)*

BGP Additional Paths

BGP Next Hop Unchanged

DNS client in VRF

RoadMap 2025/26



MES23/3300-xx, MES3500I-08/10P, MES5332A, MES53xx-xx, MES54(55)00-xx, MES5410-48

4Q25

DCBX

Cut Through

NTP in VRF

BGP Multipath AS-Path Relax

Triggered FailOver
EVPN/VXLAN

SFTP client in VRF

Micro BFD

IP SLA in VRF

BGP Inter-AS Option C

SyncE*

MES3510S-08P, MES3510DS-24F

PRP (parallel redundancy)*

MES3510S-08P, MES3510DS-24F

1Q26

IEEE 1588v2 (PTP)*

MES3510S-08P, MES3510DS-24F

High-availability Seamless
Redundancy (HSR)*

MES3510S-08P, MES3510DS-24F

3Q26

Integration PRP/HSR
& IEEE 1588v2 (PTP)

MES3510S-08P, MES3510DS-24F

RoadMap 2025



MES24xx, MES24xx-xx, MES3400-xx, MES37xx

1Q25

Setting buffer charge limit

Accounting per IEEE
802.1X (RADIUS)

2Q25

IEEE 802.1X in Stack

OSPF in Stack*

RPVST in Stack*

DHCP Option 82, 18/37
in Stack*

Dynamic ARP Inspection
in Stack*

PPPoE Option 105 in Stack

LAG per Stack-port

RADIUS-based acl

DHCP Snooping in Stack*

IP Source Guard in Stack*

3Q25

Dying Gasp in Stack*

ACL per VLAN in Stack

VLAN translation in Stack

QinQ in Stack*

Port ingress/egress rate
limit in Stack

Switchport protected
in Stack

Port isolation in Stack*

IGMP Snooping in Stack*

EOAM (EEE 802.3ah)
in Stack

RoadMap 2025



MES24xx, MES24xx-xx, MES3400-xx, MES37xx

4Q25

GVRP in Stack*

IPv6 (static) in Stack*

ACL UDB in Stack

IPv6 RA Guard in Stack

IPv6 NDP in Stack*

Commit (replace config)

Confirm (replace config)

RADIUS Change
of Authorization

Dynamic ACL*

NSF in Stack*

Service routers



New devices

Expected release in 2Q25



ESR-3350

Interfaces

- 8 × Combo RJ-45/1G SFP
- 4 × 50G SFP56
- 1 × Console RJ-45
- 1 × microSD
- 2 × USB

Power supply

AC/DC, 1+1

Size

1Unit



ESR-3250

Interfaces

- 8 × Combo RJ-45/1G SFP
- 4 × 25G SFP28
- 1 × Console RJ-45
- 1 × microSD
- 2 × USB

Power supply

AC/DC, 1+1

Size

1Unit

RoadMap 2025



ESR

1Q25

BFD for RIP*

Configure unique BGP peers on each cluster member

GRE/GRE over IPsec with VRRP IP*

Configure unique Active/Standby services in VRF* (Cluster)

Config prompt

2Q25

uRPF

Rekeying of an IKEv2

Active/ Active with VRRP* (Cluster)

Unit priority (Cluster)

Hand Switch Master (Cluster)

BFD for VRRP*

BGP FlowSpec* (NGFW)

GeoIP* (NGFW)

STP BPDU Guard*

Application Firewall* (NGFW)

DNS name in src/dst address firewall (NGFW)

3Q25

PIM-SM*

MPLS QoS*

X.509 certificate authority

Active/Standby 1+N VRRP* (Cluster)

Fail2ban

Changing cost of the OSPF route using tracking

BGP Confederation

4Q25

Active/Active without VRRP* 1+1 (Cluster)

PBR resolve-recursive per ip next-hop

RoadMap 2026

ESR



1Q26

MPLS ECMP*

MPLS
Config Firewall L3VPN*

MPLS OAM (LSP ping/traceroute)

MPLS L2VPN backup pseudo wire

Integration with LDAP/MS AD (NGFW)

HTTPs-proxy* (NGFW)

Active/Active without VRRP more
than 2 devices* (Cluster)

RoadMap 2025-2026



vESR

1Q25

Auto Binding Interfaces*

Shutdown vESR

2Q25

Serial support
(recovery tools)

Support for image release
(recovery tools)

3Q25

CD-ROM support*
(recovery tools)

ZTP* (recovery tools)

4Q25

HyperV

Rosa

Citrix

1Q26

Realtek network card

Broadcom network card

Yandex Cloud

Backbone routers



New devices

Expected release in 2Q25



ME6008

- 8 slots for line cards 24 × 100G and 48 × 25G
- Throughput: 19.2 Tbit/s
- Power supply: DC, 1+1
- Size: 15U

ME7000 Series modular routers
with 2U-3U form factor

RoadMap 2025



ME

1Q25

PTP (IEEE1588v2)*
(ME2001, ME5201S)

SCP/SFTP/FTP/TFTP

VRRP on BVI-interfaces
IPv4/IPv6

L3VPN tunnel selection

L3VPN multipath*

LFA for transit MPLS LSP

HQoS for IP/GRE-tunnels

2Q25

BGP 6PE

BGP flowspec for VRF*

SNMP MIB: IS-IS/ OSPF/
BGP/ LDP/ TE/ LLDP

Copy files on USB-storage

BGP
(community, prefix-list, active-path)

BGP IP multicast nexthop
over IGP

Netflow IPv6*

Filtering for InterVRF routing*

OSPF/ISIS prefix-priority

DHCP client on OOB

BGP table-policy

3Q25

Routed VPLS*

EVPN IRB

BGP Accumulated metric
attribute

L2VPN tunnel selection*

IS-IS/ OSPF/ RIP/ BFD
on BVI-interfaces

MAC-limit discard on bridge

Untagged sub-interfaces

MVPN Draft-Rosen

4Q25

EVPN Multihoming*

ACL for HQoS

Statistics QoS

RoadMap 2026



ME

1Q26

BGP RT constraints

BGP Large Communities

FIB identification
(route-map)

RSVP-TE class-based tunnel
selection (ME30xx/ME60xx)

PW headend

Remote LFA

MPLS Explicit null

MPLS Explicit null

3Q26

EVPN BUM over mLDP

EVPN BUM over RSVP-TE
P2MP LSP

EVPN Designated Forwarder
Election Extensibility

MPLS ACL*

IPv6 Multicast*

BGP VPNv4 multicast*

BGP PIC

Congestion management

BGP PIC

PBR nexthop VRF

IGMP snooping in VPLS*

4Q26

per-PW counters

IGMP snooping in VPLS

L2 protocol tunneling*

L2 BUM flood blocking

Software-based Netflow*

InterAS OptionC without
BGP-LU

xPON equipment



Station terminals

Expected release in 2Q25

Expected release in 3Q25



LTX-8C

Throughput
300 Gbit/s

Interfaces
8 × GPON/XGS-PON Combo
2 × 25G SFP28
2 × 100G QSFP28

Number of ONTs
1024 + 2048



LTX-16C

Throughput
300 Gbit/s

Interfaces
16 × GPON/XGS-PON Combo
2 × 25G SFP28
2 × 100G QSFP28

Number of ONTs
2048 + 4096



MA5020

Throughput
Up to 160 Gbit/s

Interface modules (2 pcs)
16 × GPON
16 × XGS-PON

Number of ONTs
4K/8K

Size
2U



MA5160

Throughput
Up to 1280 Gbit/s

Interface modules (16 pcs)
16 × GPON
16 × XGS-PON

Number of ONTs
32K/64K

Size
11U

RoadMap 2025



xPON

2Q25

Dying gasp* (LTP-N/LTX)

Unknown unicast/
multicast control
(LTP-N/LTX)

WEB-interface*
(LTP-N/LTX):

- Alarm
- ONT firmware upload/upgrade
- Backup OLT
- ONT profiles
- PON ports
- Front ports
- ONT/ports
- License OLT

IGMP Snooping (MA5160)

DHCP Snooping (MA5160)

PPPoE Snooping (MA5160)

RADIUS (MA5160)

TACACS+ (MA5160)

L2 QoS (MA5160)

Storm-control
for ONT (MA5160)

Reservation control
boards 1+1 (MA5160)

ONT RG configuration via
OMCI* (voice, iphost,
pppoe, iptv) (NTU-RG-55xx)

3Q25

SNMP (MA5160)

Alarm (MA5160)

Autofind control (MA5160)

MAC-migration (MA5160)

LLDP (MA5160)

SPAN/RSPAN (MA5160)

Mapping-mode one gem
(MA5160)

Tunneling ONT (MA5160)

Management ACL for FC
(MA5160)

L3 interfaces & route
(MA5160)

Isolation slot, front/
pon- ports (MA5160)

4Q25

Storm-control* (LTP-N/LTX)

Rate-limit (LTP-N/LTX)

Selective Q-in-Q* (LTP-N/ LTX)

Logging user actions
(LTP-N/LTX)

IPSG (MA5020/MA5160)

DHCP-RA (MA5020/MA5160)

ACL on linear modules
(MA5020/MA5160)

RoadMap 2025



ECCM



1Q25

Monitoring* (Wireless)

Fault Management*
(Wireless)

Troubleshooting* (Wireless)

High level configuration*
(Wireless)

Monitoring of the environ-
ment (fans, power supply,
sensors) (MES)

2Q25

Receiving messages
via SNMP (Wireless)

Working with the list
of suspicious users (Wireless)

Monitoring*
(ME5000 series)

Configuring rules for
creating user passwords

3Q25

Synchronizing devices
with NAICE*

Monitoring* (ME6000 Series)

Configuring user access
rules

4Q25

Public API
(devices, interfaces, events,
accidents)

High level configuration*
(MES)

RoadMap 2025



NAICE

1Q25

TACACS+

2Q25

WEB Portal auth

RADIUS CoA

Distribution as a VM image

Role-based access control (RBAC) for WEB/API

3Q25

Synchronizing devices with ECCM

4Q25

BYOD

Single sign-on for WEB/API (LDAP/MS AD)



Questions



Best regards, Alexander Payvin
International projects coordinator of the Eltex Enterprise Ltd.



WhatsApp/Mob. +7 913 708-59-19
aleksandr.payvin@eltex-co.ru