Which part(s) of the stack does this standard concern?	Summary of the standard required:	Direct quote from DfE specification	"Good" device	"Better" device	"Best" device	Meraki datasheet link(s)	Alternative device sizer(s)
Switching, Wireless, IoT, Platform (full-stack)	Cyber security, switching, wireless & NCSC standards	Minimum standards: – DfE cyber security standards for schools and colleges – DfE network switching standards for schools and colleges – DfE wireless networking standards for schools and colleges – All relevant British Standards – All relevant NCSC guidance – **Page 335, Section 6.2.3**	N/A			N/A	N/A
Switching (Edge/PoE)	PoE support must include IEEE 802.3af/at/bt or replacement	Power over Ethernet (PoE): IEEE 802.3af/at/bt standard or its replacement implemented – **Page 337, Section 6.2.13**	PoE (edge) switches: MS130-24X-HW MS130-48X-HW (2.5GB MGig)	PoE (edge) switches: MS150-24MP-4X MS150-48MP-4X (5GB MGig)	PoE (edge) switches: C9300X-24HX-M C9300X-48HX-M (10GB MGig)	MS150 datasheet	MS Sizing MS Models
Switching (Core)	Multi-gig ports must be provided where higher bandwidth is required	Multi-gigabit ports: To be provided to support devices and infrastructure equipment that require a higher bandwidth – **Page 338, Section 6.2.13**	Core: C9300-24UXM-M C9300-48UXM-M (swappable PSUs but no StackPower; less resilient)	Core: C9300X-12Y-M (swappable PSUs and StackPower for resilience)	Core: C9300X-24Y-M (swappable PSUs and StackPower for resilience)	Catalyst 9300-M datasheet	MS Sizing MS Models
Switching (Core & Edge/PoE)	Core and PoE switches must be resilient against any single point of failure	Resilience for Core: Resilient against the failure of any single component including, but not limited to power supply and management modules Resilience for PoE switches: Resilient against the failure of any single component including, but not limited to power supply and management modules – **Page 337, Section 6.2.13**	Core: C9300-24UXM-M C9300-48UXM-M PoE (edge) switches: MS130-24X-HW MS130-48X-HW (2.5GB MGig)	Core: C9300X-12Y-M PoE (edge) switches: MS150-24MP-4X MS150-48MP-4X (5GB MGig)	Core: C9300X-24Y-M PoE (edge) switches: C9300X-24HX-M C9300X-48HX-M (10GB MGig)	Catalyst 9300-M datasheet MS150 datasheet MS130 datasheet	MS Sizing MS Models
Wireless (Access Points)	Wi-Fi: tri-band for internal APs, dual-band for external, must be certified latest Wi-Fi Alliance standard	Wireless standard: The latest certified by the Wi-Fi Alliance at handover Wireless bands: – Internal Wireless Access Points to be tri-band Wi-Fi at a minimum – External Wireless Access Points to be dual-band Wi-Fi at a minimum – **Page 339, Section 6.2.14**	Internal APs: CW9172I (for classrooms and corridors), CW9172D1 (for halls), CW9176 (for high density traffic in halls/auditoriums) External APs: CW9163E-HW CW9163E-HW-ANT	Internal APs: CW9172I (for classrooms and corridors), CW9172D1 (for halls), CW9176 (for high density traffic in halls/auditoriums) External APs: CW9163E-HW CW9163E-HW-ANT	Internal APs: CW9172I (for classrooms and corridors), CW9172D1 (for halls), CW9176 (for high density traffic in halls/auditoriums) External APs: CW9163E-HW CW9163E-HW-ANT	CW9172 datasheet CW9163 datasheet CW9176 datasheet CW9163 datasheet	MR Sizing MR Models
Platform	Cloud-based management platform required	Design: Manufacturer cloud management system to allow the user to configure all features and functions of the solution – **Page 337, Section 6.2.12**	Meraki's cloud managed platform			Meraki Dashboard	N/A
Switching (Edge/PoE)	Edge switches must use two bonded 10 Gbps uplinks to core	Connections to the Core: – A minimum of 10 Gbps for each switch in the edge stack – Edge stack to be connected to the core using a minimum of two bonded active links – **Page 338, Section 6.2.13**	PoE (edge) switches: MS130-24X-HW MS130-48X-HW (10GB SFP+ modules **only** in MS130X)	PoE (edge) switches: MS150-24MP-4X MS150-48MP-4X (10GB SFP+ modules)	PoE (edge) switches: C9300X-24HX-M C9300X-48HX-M (10GB SFP+ modules)	MS150 datasheet	MS Sizing MS Models
IoT (cameras)	Secure, PoE-powered IP CCTV with remote access and storage, 24fps	Cameras: – Internal: Minimum of 4 megapixels (4MP) and 24 frames per second (24fps) video – External: IP66 rated with infra-red night capability, minimum of 8 megapixels (8MP) and 24 frames per second (24fps) video	Internal: MV12 External: MV72 Fisheye: MV32	Internal: MV13 External: MV63 Fisheye: MV33	Internal: MV23 External: MV73 Fisheye: MV33M	MV Sense API Meraki Dashboard API	MV Sizing MV Models
IoT (sensors)	Environmental sensors for temp, humidity, air quality, with secure management.	Minimum life expectancy: environmental sensors: 15 years **– Page 351, Section 6.4.4** Performance: Environmental sensors to detect carbon dioxide, total volatile organic compounds, particulate matter, humidity, vaping, and ambient noise, securely installed and tamper proof" **– Page 351, Section 6.4.1**	MT30 (smart automation button) MT15 (temperature, air quality, vaping) MT20 (door open-close)	MT30 (smart automation button) MT15 (temperature, air quality, vaping) MT20 (door open-close)	MT30 (smart automation button) MT15 (temperature, air quality, vaping) MT20 (door open-close)	Meraki Dashboard API	MT Models

Accurate as of June 2025

_____= fully meets DfE standards