

IT/SECURITY TELECOMS/RENEWABLE ENERGY MINIMUM REQUIREMENTS

Save the Children International

Global Technology Team





Functional Area:	Global Technology Team
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BACKGROUND

Save the Children International is an International Charity that is heavily regulated and as such must be compliant to all regulations as laid out by the regulators and donors. These include but are not limited to GDPR and Cyber Essentials Certification which require us to meet minimum cyber standards as laid out by the UK Government. In addition to compliance needs we have a strict Enterprise Architecture Strategy to drive value and efficiency whilst optimising and simplifying our Technology estate to meet our 2030 Corporate Ambition.

PURPOSE

In order to comply with Save the Children International Global IT Policies and Procedures and meet required external compliance this document provides an outline of the minimum Technology Standards required for all new Services, Platforms and Hardware to be permitted to be used within the organisations technology estate. As these are "Minimum Standards" it is permissible to source equipment where these standards are exceeded. When sourcing higher specifications, that SCI is getting the best value for money and that the higher specification can be justified.

INTENDED AUDIENCE

External

Software Vendors, Hardware Vendors, Service Providers, Government and Business partners.

Internal

All Save the Children international employees seeking to replace existing equipment/services or procure new equipment or services.

Scope

Field Offices, Country offices, Regional Offices and the Centre.



	PLATFORM SERVICE	s
	APPLICATION SERVERS	
	Recommended	Acceptable
Operating System	Windows Server 2019	Windows Server 2016
Application Server Version	IIS 8.5 For windows servers	
Application Memory Requirements	8GB	
Application CPU Requirements	2 vCPUs	
	File Servers	Annantolia
Operating System	Recommended Windows Server 2019	Acceptable Windows Server 2016
Application Memory Requirements	8GB	Williaows server zono
Application CPU Requirements	2 vCPUs	
Regulierieriis	Web Servers	
	Recommended	Acceptable
Operating System	Windows Server 2019	Windows Server 2016
Web Server Version	IIS 8.5 OR Later (For windows servers)	
Application Memory Requirements	8GB	
Application CPU Requirements	2 vCPUs	
	Database Servers	
	Recommended	Acceptable
Operating System Db Server Version	Windows Server 2019	Windows Server 2016
Application Memory Requirements	SQL Server 2019 32GB	SQL Server 2016
Application CPU Requirements	8 vCPUs	
	Cloud (laas/ Paas)	
	Recommended	Acceptable
Operating System	Azure IAAS, Azure PAAS	Azure IAAS, Azure PAAS
	Desktop Computer	
	Recommended	Acceptable
Manufacturer	HP	Lenovo or any suitable brand not subjected to sanctions.
Operating System	Windows 11 Enterprise	Windows 11 Professional
Hardware Standard	i5 CPU, TPM 2.0 compatible with SecureBoot (su 12 GB Ram, 512 SSD Hard Drive	
Models	HP Elite desk preferred.	
Functional Characteristics	3-year warranty mandatory	
	Laptop Computer	
	Recommended	Acceptable
Manufacturer	Lenovo	Any suitable brand not subjected to sanctions. Dell not permitted due to battery issues.
Operating System	Windows 11 Enterprise	Windows 11 Professional
Hardware Standard	i5 CPU TPM 2.0 compatible with SecureBoot (supports 12 GB Ram 512 SSD Hard Drive built in Wi-Fi con	Bitlocker encryption)
Models	T or X series (Current model as supplied via the	
Functional Characteristics	3-year warranty and inline surge protector is ma	andatory
Characteristics		



MOBILE DEVICES (tablets and smart phones)				
Recommended Acceptable				
Manufacturer	Samsung, Motorola, Apple (BYOD Only)	Any brand with the exception those subject to sanctions		
Operating System	Android 12.0 or later, iOS 15 or later	iOS 13 or later Android 10.0 or later Windows phone (Members)		
Minimum application memory & CPU Requirements	RAM 4GB / Storage 32GB/ Speed 1.4GHz / Architecture 64 bit			
	Virtual Private Network			
	Recommended	Acceptable		
Manufacturer	Zscaler Azure (Microsoft)			
Model	FortiGate VPN Feature Azure P2S VPN Azure S2S (IPSEC) VPN			
Version	4.1.0.98 or later			
Functional Characteristics	A high Internet speed connection is needed fo	r the Full SSL VPN Connections (Min 20 Mbps).		
Characteristics	Virtual Private Network Cli	ent		
	Recommended	Acceptable		
Software	ZIA (Zscaler) client. Azure VPN Client			
Application Memory Requirements	8GB	·		
Application CPU Requirements	4.2 GHZ or better			
Functional Characteristics	Mandatory install on all end user computers			
	Cyber And Information Security	y Services		
	Firewall			
	Recommended	Acceptable		
Manufacturer	Meraki MX Series	Any IPSEC router compatible with Zscaler		
Model	All models where EOS is later than 2027			
Version Functional Characteristics	Good quality firewall needed for sites hosting ser to manage connectivity.	rvices. Otherwise a good quality router needed		
	Access Points			
	Recommended	Acceptable		
Manufacturer Model	Cisco Meraki All models with EOS date later than	Cisco Meraki		
Version	2028			
Functional Characteristics	Next generation AP with Wi-Fi 6 technology. Ideal for ultra-high density and performance deployments. Security radio and BLE included Radio specification: 1 × 2.4 GHz 802.11b/g/n/ax 1 × 5 Ghz 802.11a/n/ac/ax 1 × WIDS/WIPS 1 × Bluetooth 5.9 Gbit/sec max rate 8×8:8 MU-MIMO with beamforming Interface: 1 × 5 Gbps Multigigabit Ethernet port Power: 802.3at PoE or DC power adapter	 Next generation, entry-level high-performance Wi-Fi 6 AP with security scanning radio and BLE included Radio specification: 1 × 2.4 Ghz 802.11b/g/n/ax 1 × 5 GHz 802.11a/n/ac/ax 1 × WIDS/WIPS 1 × Bluetooth 1.7 Gbit/sec max rate 2×2:2 MU-MIMO with beamforming Interface: 1 × Gigabit Ethernet port Power: 802.3af PoE or DC power adapter 		



DIRECTORY SERVICES / AUTHENTICATION			
	Recommended	Acceptable	
Software	Azure Active Directory compatible via SAML 2.0	Azure Active Directory compatible via OAuth 2.0	
Functional Characteristics	Used for Single Sign On with Office365 for App	plications	
Characteristics	Antivirus		
	Recommended	Acceptable	
Software	Falcon CrowdStrike - Latest version	Windows Defender - Latest version	
Application Memory Requirements	4 GB RAM		
Application CPU Requirements	Intel Pentium 42 GHz or higher		
Functional Characteristics	Cloud Managed, Computer Protection Prem	ium & Rapid Detection and Response	
	End User Computing S	Services	
	Web Browsers		
	Recommended	Acceptable	
Browser	Chrome, Microsoft Edge Current	Safari, Mozilla Firefox	
Version	Virtual Desktop	Current -1	
	Recommended	Acceptable	
Software	Citrix Cloud	Citrix XenApps 1912, Citrix XenDesktop 1912	
Application Memory Requirements	4 GB per User	1 Jeles 1 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Application CPU Requirements	4 vCPUs		
Functional Characteristics	1 X Virtual Server per 20 users		
	Communications & Channel A		
	Collaboration Too		
Software	Recommended Microsoft Teams	Acceptable Microsoft Teams	
Application Memory Requirements	8 GB RAM	MICIOSOTI TEGITIS	
Application CPU Requirements	4.2 GHz or faster, 2 core		
	Sms - Gateway		
	Recommended	Acceptable	
Manufacturer	Twilio Africa's Talking	Direct mobile operators in-country VIAMO	
Version	Court Coff		
	Sms - Software	Assaulable	
	Recommended Twilio	Acceptable RapidPro (Hosted by TextIt/ONA)	
Software	Africa's Talking	VIAMO	
	Recommended Radio	Acceptable	
Manufacturer	Motorola for VHF Codan for HF	Motorola for VHF Codan for HF	
Model	Motorola DP 4600 and DM 4600 series for VHF	vehicle, base and portable stations. approval required before purchase from centre IT	
Version	Laien iiiiiwale		



Mobile Satellite Solutions (Data and Voice)			
	Recommended	Acceptable	
Manufacturer	Thuraya Iridium Inmarsat	No other Satcoms are permitted for use.	
Model	Thuraya - XT, XT Lite, X5 Touch & Thuraya IP (Hughes n Iridium - Iridium Extreme, Iridium Extreme PTT, Iridium 9 Inmarsat - GX series, Cobham BGAN (All models), Isat	9555, Icom-Sat100 & Icom Sat 100M	
Version	Latest firmware		
	Celular Gateways		
	Recommended	Acceptable	
Manufacturer	Cisco Meraki	CradlePoint	
Model	Meraki MG series (any)	W1850 (5G) & IBR series	
Version	Latest firmware		
Functional Characteristics	To be used with Local SIM Cards for internet access.		
	Point To Point Links		
	Recommended	Acceptable	
Manufacturer	Ubiquity	Ubiquity	
Model	Ubiquiti NanoBeam 5AC Gen2 - NBE- 5AC-Gen2		
Version	Latest firmware		
Functional Characteristics	Only for Point to point links up to 10kms distance (BAU not for Access Point usage	or Emergency Response in most cases),	
	End User Productivity Tooling Servi	ices	
	Productivity Tools		
	Recommended	Acceptable	
Software	Microsoft 365 E3 Subscription	Microsoft 365 E3 Subscription	
Application Memory Requirements	8 GB RAM		
Application CPU Requirements	4.2 GHZ or faster x86 or 64-bit processor with SSE2 instr	ruction set	
	Visual Collaboration		
	Recommended	Acceptable	
Software	MURAL	MURAL	
Functional Characteristics	MURAL is a HTML5 web application and works best wirefox and Safari.	th Chrome, but we also support Edge,	
Application Memory Requirements	MURAL for windows requires a minimum of 16gb RAM	1	
	Electrical		
	Personal solar systems		
	Recommend	led	
Manufacturer Models	Voltaic systems (voltaicsystems.com) Full range of portable kits designed for charging phor	nes, tablets and laptops and personal	
	lighting systems.		
Notes	Voltaic products available via the Planson FWA	ha\	
	Site Solar System (Core component		
Manufacturer	Victron Energy Recommend	lea	
Models	Cerbo GX (IOT central CPU). All MPPT technologies, A panels, and batteries	Il inverter/chargers, accessories, solar	
Notes	The Cerbo GX, MPPT and Inverter/Chargers must be a Alternative brands are permissible for batteries and so		
	IOT compatible (i.e., Smart)		

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Global Connectivity Standard

SCI is a "Cloud First" organisations, therefore adequate bandwidth so that user experience with cloud services is good. To provide a good UX, the following minimum standard must be met for connectivity.

- Bandwidth will be treated as Synchronous i.e. the Kb/Sec will apply equally for upload and download
- For home users the KPI will be 1Mb/sec (after contention ratio is considered)
- Minimum standard (Mandatory) set to 250Kb/sec per user in an office environment. (Amber)
- Recommended KPI set at 350 kb/sec (stretch target) (Green)
- Add baseline minimum of 1Mb/sec for all sites up to 3 users
- 1Mb to be added to site KPI if operating guest networks per 10 guests.

Examples:

	Site A: Small office		Site B: Medium office	
	Staff: 2	750Kb/Sec	Staff: 20	5Mb
	Guest:	0	Guests: 10	1Mb
Mandatory Provision 1Mb (minimum level)			6Mb	
Stretch Provision 1.1Mb			8MB	

Note: Speed testing should be carried out on a regular basis to validate the ISP is providing the correct service. For more information, refer to the Speed testing Guide on OneNet