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Aga Khan University Hospital

Document Title:	Secure Onboarding Policy		
Department / Division:	Information Communications Technology (ICT)		
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Chief Information Officer	B Clar	Revision No.:	3.0
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1.0 Policy Statement: AKU implements robust security controls on all applications, databases, servers, operating systems, and network assets intended for integration into our production environment.

2.0 Terms and Definitions:

2.1. ISO: International Organization for Standardization

2.2. AKU: Aga Khan University

2.3. ICT: Information Communications Technology

- **3.0 Purpose:** The purpose of this document is to implement security controls on all applications, databases, servers, operating systems, and network assets which will become the part of the AKU production environment and ensure that planned ICT systems comply with AKU Global Information Security policies.
- **4.0 Scope:** This document is applicable to all applications, databases, servers, operating systems, and network assets that will become part of the AKU production environment. The scope of this document is applicable to all AKU locations globally. In case of any specific local country regulations not addressed by this policy, the local AKU entity will develop and maintain a local policy to comply with local regulatory requirements, subject to the approval of the Senior Manager, Information Security and Chief Information Officer.
- **5.0 Responsibility:** It is the responsibility of ICT, Information Security, and relevant departments.

6.0 Process/Procedure:

- 6.1. Secure Onboarding of Software Applications: The application includes desktop / web / mobile and cloud-based applications. ICT Information Security review and testing scope of work includes assessment of application security weaknesses and vulnerabilities including backend databases and underlying infrastructure which can be exploited by internal or external attackers.
 - 6.1.1. In-House Software Applications:

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- i. Relevant application owner / software development team will engage ICT Information security team at project initiation / requirement analysis phase to obtain software security requirements. Early involvement of the Information Security team will enable the software development team and application owner to understand and embed security requirements at the start of the project.
- ii. Information Security team will share software security requirements with application owner / software development team. The requirements will include, but not be limited to, software authentication, authorization, encryption, secure coding, system logging / auditing and availability controls.
- iii. During the software design and development phase, the Information Security team will review the technical design of the software application. This will include, but not be limited to, functional & technical specifications, data flow diagrams, system integration documents and network design.
- iv. During the software testing phase, the Information Security team will perform software security review and testing to validate security controls as per the given security requirements. The following steps will be performed by the Information Security team:
 - Perform security risk assessment as per Application Security Assessment Checklist (Refer Section: 11.0 Annexure).
 - Perform secure code reviews (if necessary).
 - Perform vulnerability assessment/ penetration testing (if necessary).
 - Issue software application security assessment report to relevant team.
 - Revalidate the reported vulnerabilities in the production environment.
 - In the case of critical applications, Information Security will recommend engaging a third party/independent vendor to perform penetration testing exercises to validate the security posture of applications and underlying infrastructure.
- v. In case of changes or modifications to software applications, the relevant application owner must inform the Information Security team and the application will be reassessed.

6.1.2. Off-the-shelf Applications and Software:

- i. The initiator fills out information security questions in addition to software related questions in "ICT New Request Form" and sends it to Solutions and Innovations Team.
- ii. The Solutions and Innovations team will review "ICT New Request Form" and engage Information Security team depending on the classification of information stored or processed by the application.
- iii. Information Security team will share the security requirements/questionnaire with applications team / application owner coordinating with vendor.
- iv. The Information Security team will review vendor responses received on the security requirements/questionnaire.
- v. The Information Security team will review relevant documentations and specifications related to security provided by the vendor.

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- vi. During the application deployment phase, the Information Security team will validate security controls as per security requirements and vendor responses received at the initial phase.
- vii. Finally, Information Security sends application security feedback or report to the initiator based on the security review performed.

6.2. Timeline to Complete Security Assessments:

- 6.2.1. Internal Security Assessment: The Information Security team will respond to requests within ten (10) working days based on in-line security projects. Internal security assessments should take no more than three (3) weeks for security fieldwork and reporting. Conformance to the timelines would be based on the timely availability of requested information from relevant application team / business owner / vendor.
- 6.2.2. Internal Security Assessment with External Penetration Testing: The Information Security team will respond to requests within ten (10) working days based on in-line security projects. Internal security assessment should take no more than three (3) weeks. Penetration Testing from External Vendor will require RFP/Procurement process and should take no more than three (3) weeks, while complying to Purchasing & Supply Chain Management Division (PSCMD) processes. External vendors would take approximately three (3) weeks for project execution and reporting.
- 6.3. Secure Onboarding of Server/Asset: Every physical / virtual server and operating system must go through the Server Assessment Checklist before being onboarded onto the AKU production environment. The checklist will be signed by the ICT infrastructure manager and a copy of the signed checklist will be shared with Information Security for record purposes.
- 6.4. Secure Onboarding of Network Devices: All network devices must go through the Network Assessment Checklist before being onboarded onto the AKU production environment. The checklist will be signed by the ICT infrastructure manager (network) and a copy of the signed checklist will be shared with Information Security for record purposes.
- 6.5. Secure Onboarding of Medical Devices: Completion of the Medical Devices Security Checklist is required for the procurement and onboarding of medical devices. The checklist will be verified before any medical devices are onboarded onto the AKU production environment.

7.0 Compliance Reference:

- 7.1. ISO/IEC 27001:2013 standard, Clause A.7.2 Information Security Policy.
- 7.2. ISO/IEC 27001:2013 standard, clause A.12.6 Technical vulnerability management.
- **8.0 Measures of Compliance:** Compliance with this policy will be verified through internal and external audits.
- **9.0 Reference:** This document satisfies the following requirements of the ISO27001:2013

Clause Reference	Name of the Clause	Control reference	Name of control	Name of the Standard
-	-	A.12	Operations Security	ISO/IEC 27001:2013
-	-	A.12.6	Technical Vulnerability Management	ISO/IEC 27001:2013

10.0 Related Institutional Documents: Information Security Policy Manual (ADM-P-024).

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11.0 Annexures:

	Application Security Assessment	Checklist	_		
Application Information					
1	Name of the Application				
2	Application Owner				
3	Brief Description of Application				
4	Where will the application be hosted? Ie., at AKU data center or outsourced to an external 3 rd party (Cloud)?				
5	Application will be developed by In-house software development team or outside software vendor?				
6	Is this an internet facing application?				
7	What is the confidentiality and inherent risk of application data?				
S#	Application Security Controls / Questions	List of Requirements	Comments/Issues		
1	Has an independent vulnerability assessment, penetration testing, and source code review been performed for the Software Application?				
2	Has vulnerability assessment been conducted for underlying OS and DB components for this application?				
3	Has the application owner defined application roles and privileges that would be allocated to users ensuring confidentiality and segregation of duties?				
4	Does the application provide Role-Based Access Control (RBAC) functionality to ensure system access on a need-to-know basis and enables security administrator to assign permissions and restrictions in a complex, matrixed set of authorizations for individual users to access the application record?				
5	Does the software provide the functionality to generate reports for User Access Rights with the following information: • User Name • User Creation Date • User Access level • User Roles / Menus / Privileges • User Revocation / Disabled Date • User Modification Date (roles/profiles/menus/privileges changed or granted) • User Last Login Date • User Status (active or disabled)				
6	Does the application use a unique login id for each user?				

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7	Does the application prompt newly created users to change the initial password?	
	(Password change at first log-on)	
	Are the password settings configured in	
	accordance to AKU's Information Security	
	Policy:	
	•	
0	 Minimum password length should be 	
8	configured as eight (8) characters.	
	 Application should only accept 	
	alphanumeric passwords.	
	 Application users should be forced to 	
	change their passwords after 90 days.	
	Are the account lockout settings configured in	
	accordance to AKU's Information Security	
9	Policy? User accounts should be locked after 5	
	consecutive failed logon attempts.	
	Does the application have the ability to	
	generate audit reports for specific or all users'	
	application activity? Is software logging	
10	enabled with at least the following user events:	
	 Failed login attempts 	
	 Logon access on software 	
	configuration and setup functions.	
	Does the application have time-stamp	
	functionality (user, role, date, & time) with	
11	respect to records processed in the application?	
11	Can a user audit trail be generated for system	
	processed records?	
	Does the application allow an authorized	
	administrator to enable or disable auditing for	
	events or groups of related events?	
	Is an idle session time out centrally configured	
12	in the application?	
	Are appropriate access allocation, modification	
12	** *	
13	and revocation procedures documented for the	
	application?	
	Are all unnecessary services, default accounts	
14	disabled / removed or protected to prevent	
	their unauthorized use on the application and	
	its underlying OS and DB?	
	Has the application owner identified the data	
15	backup and disaster recovery needs of the	
	application?	
	Is the application software, database and O/S	
16	supported by vendor/ OEM?	
	77 7	
17	Is the application included in the application	
	assets inventory of AKU?	
	Does the application prevent a security / user	
18	administrator from performing business	
	transactions that conflict with his/her role?	
	Application password fields do not display the	
19	user's password when it is entered, and that	
	password fields (or the forms that contain	
	them) have autocomplete disabled.	

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	The forgotten password function and other recovery paths do not reveal the current	
20	password and the new password is not sent in	
	clear text to the user.	
	The username enumeration is not possible via	
21	login, password reset, or forgot account	
	functionality.	
22	Is the authentication mechanism implemented	
22	for end users?	
23	Is the authentication mechanism implemented	
23	for administrator?	
24	Does the application use a generic message for	
2-4	login attempts failures and account lockout?	
25	Does the application allow users to completely	
23	logout from the application?	
26	All pages that require authentication to access	
26	them have logout links.	
	The session id is never disclosed other than in	
	cookie headers; particularly in URLs, error	
27	messages, or logs. This includes verifying that	
	the application does not support URL rewriting	
	of session cookies.	
28	The session id is changed on each login.	
29	The session id is changed on re-authentication.	
30	The session id is changed or cleared on logout.	
	Verify that the application does not permit	
31	duplicate concurrent user sessions, originating	
	from different machines.	
32	Does the application encrypt session cookies?	
	Is there a centralized mechanism (including	
	libraries that call external authorization	
33	services) for protecting access to each type of	
	protected resource?	
	Single/Centralized input validation control is	
34	used by the application for each type of data	
	that is accepted.	
35	Password hashes are salted uniquely when they	
	are created.	
	All code implementing or using error handling	
36	and logging controls are not affected by any	
	malicious code.	
	List which types of Data Encryption	
	Mechanisms are currently incorporated at	
37	Applications Server, Database and Client Level to ensure protection against	
37	unauthorized access to applications data	
	transmitted over an electronic communication	
	network.	
	Does the application encrypt sensitive data	
	such as PII (Personally Identifiable	
38	Information), authentication data and business	
	sensitive information during data transmission	
	and storage?	

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	<u>, </u>		,
39	All forms containing sensitive information have disabled client-side caching, including autocomplete features.		
40	Does the application limit the length of each user input field?		
41	If the application supports file upload functionality, does it enforce the following: a. Validate file extension/type, and file format. b. Run virus/malware scan on the uploaded file.		
42	Can the application integrate with SIEM?		
43	SSL/TLS connection failures are logged.		
	Additional Security Controls for Mobile	e Applications	
1	Does the application encrypt sensitive data such as PII (Personal Identifiable Information), authentication data and business sensitive information during data transmission and storage?		
2	Does the application provide Role-Based Access Control (RBAC) functionality to ensure system access on a need-to-know basis?		
3	Does the application enforce an expiration of session ID's after logout?		
4	Does the application provide a functionality to terminate all linked multiple backend/host sessions after the user session is terminated?		
5	Does the application provide an audit trail of security events/violations including access information (Device ID, device address, etc.) and anomalous events?		
6	Does the application have controls to prevent logging of sensitive information such as PINs and passwords especially in transaction and interface logs?		
7	Does the application prompt to change the initial password of newly created users? (Password change at first log-on)?		
8	Are the password settings configured in accordance to AKU's Information Security Policy: Minimum password length should be configured as eight (8) characters. Application should only accept alphanumeric passwords. Application users should be forced to change their passwords after 90 days.		
9	Are the account lockout settings configured in accordance to AKU's Information Security		

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	Policy? User accounts should be locked after 5		
	consecutive failed logon attempts.		
	Does the application provide security		
	configuration to protect application data such		
10	as log files and cookies to protect against		
	alteration or compromise during data		
	synchronization with phone device?		
_	Does application have code obfuscation in		
11	place such that source code is not easily		
	reversible?		
	Does application have root detection		
12	implemented to validate if mobile device is		
	rooted or not?		
	Application should not store sensitive data,		
13	credentials and system information in the log		
	files to prevent side channel data leakage.		
14	Application should have configured SSL		
14	certificate pinned to the mobile application.		
	Application should protect screenshots of		
15	sensitive screens and should not allow		
13	screenshots taken by other apps, to ensure		
	secure displays.		
	Application should encrypt/encode critical		
16	information in source code. Application should		
	not save critical information in source code.		
	Additional Security Controls for Cloud	l Applications	
	Does the service provider use public cloud		
	services like Azure and AWS for application		
1	hosting (SaaS) OR do they have their own		
	cloud services and Datacenter?		
	How is confidentiality and integrity of		
2	customer's (AKU Data) managed by the cloud		
	service provider?		
	How will the service provider ensure separate		
3	tenancy of AKU systems?		
	How will the service provider ensure our		
	applications data is segregated from other		
4	organization's data which is hosted in the		
	service provider's cloud platform?		
	How is the administrative access to customer's		
5	data managed, monitored, and audited by the		
	cloud service vendor within its data center?		
	Have the cloud service platform security		
6	controls been tested by a third party? (Provide		
	the response with evidence)		
	Are the information security policies and		
	procedures of the cloud service provider		
7	aligned with the security standard ISO/IEC		
,	27001:2013? Is the cloud vendor's information		
	security management system ISO:27001		
	certified? (Provide response with evidence)		
	How do service providers maintain the security		
8	of their datacenter? Provide the list of security		
	controls implemented in datacenter.		

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9	Has independent vulnerability assessment and penetration testing been performed for the Cloud Platform? (Provide response with evidence)
10	What would be the mechanism to backup our applications and databases hosted at the Datacenter?
11	What is the expected availability of the cloud platform? How will the service provider ensure 99.9% system availability?
12	How will the service provider maintain disaster recovery and high availability of our systems?
13	How does the cloud platform ensure data encryption at rest and in transit?
14	How is the entire system protected from Internet threats?
15	If we need to scale-up our application's environment, what would be the mechanism?
16	Does the service provider require VPN connectivity between AKU and their datacenter? Do they require permanent VPN connectivity or temporary?

Server Assessment Checklist						
	Server Information					
Server Name	Server Name					
Server Description						
Domain	Controls	Response				
	Pre-Installation Phase					
Preparation and Installation	If machine is a new installation, protect it from hostile network traffic, until the operating system is hardened.					
Post-Inst	allation Phase for Windows Server only					
Preparation and Installation	Operating System License has been activated?					
Service Packs, Patches, Hot fixes	Are Operating system patches installed?					
	Move domain joined server to appropriate OU in order to apply policies.					
	Individual (non-generic) user accounts are created for authorized persons only with limited access rights.					
	Unused user accounts are deleted or disabled e.g. guest?					
	Is access to the server / services restricted to authorized individuals or network segments?					
	Have default administrator accounts like root, admin, sa, system been renamed (where technically possible),					

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		and their passwords split	and escrowed und	er DUAL	
A agoss	s Control &	custody?			
Accoun		Server should be accessible			
12000		Device / server is configu			
		patching and reporting Se required SCCM agent.	erver Patching and	reporting	
		If SNMP is enabled then			
		changed?	nonitoring by SCC)M	
		Server is configured for r			
		Device / server is configured to sends its performance status to SCOM?			
		Server is configured to sy Secure central NTP Serve		from	
System	n Time Settings	Server date/time and its to		ctlv	
		configured?	inic zone are corre	cuj	
		Antivirus software is inst	alled?		
Common	· Protection	Is antivirus software conf from the server?	figured to receive i	ts update	
server	r rotection	Is the latest version of an			
		software installed? And c	configured to recei	ve its	
Vulno	rability Assessment	update form the server?			
	curity Role)	Is the VA of the Server performed?			
Pre-Installation Phase only for Linux / Ubuntu					
Controls					Response
Change	e root password				
Monito	or server availability st	tatus			
Server	access from jump serv	ver			
Is acce	ss to the server / servi	ces restricted to authorized individ	duals or network se	egments?	
		Approvals			
_	ger (IT Infrastructur	e)			
Name					
Design					
Signat	ure / Date				
Comm	ients				
		Network Devices Security C	Checklist		
		Device Information			
	rk Device Name				
Descri	ption / Model		T : -4 - F		
S.No	Feature	Controls	List of Requirements	Commer	nts/Notes
			i		
		Disable all terminal and			
		management ports that are not			
	Restrict				
1	Infrastructure	management ports that are not explicitly required or actively being used Only permit device access			
1	Infrastructure Device	management ports that are not explicitly required or actively being used Only permit device access through required and			
1	Infrastructure	management ports that are not explicitly required or actively being used Only permit device access through required and supported services and			
1	Infrastructure Device	management ports that are not explicitly required or actively being used Only permit device access through required and			

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	1	T	1
		Only accept access attempts to	
		authorized ports and services	
		from authorized originators	
		Deny unused and unnecessary	
		terminal and management	
		services and protocols, e.g.	
		telnet, HTTP	
		Authenticate all terminal and	
		management access using	
		centralized (or local) AAA	
		Authenticate all EXEC level	
		terminal and management	
		access using centralized (or	
		local) AAA	
		Andhorine all interpreting and	
		Authorize all interactive and	
		privileged EXEC level device	
1		management access using	
		centralized (or local) AAA Enforce an idle timeout to	
		detect and close inactive	
		sessions	
		Enforce an active session	
2	Enforce Session	timeout to restrict the	
2	Management	maximum duration of a session	
		prior to re-authentication	
		Detect and close hung	
		sessions, e.g. using keep lives	
		Enforce a strong password	
		policy (may be done on the	
		AAA server)	
		Restrict the frequency of login	
	Restrict Device	attempts	
2	Access	Enforce a lockout period upon	
3	Vulnerability to	multiple authentication failure	
	Dictionary and	attempts within a defined time	
	DOS Attacks	window (may be done on the	
		AAA server)	
		Restrict the maximum number	
		of concurrent sessions	
		Present legal notification	
4	Lagal Natification	banner upon all terminal,	
4	Legal Notification	management and privileged	
		EXEC level access	
		Employ strong secrets for	
		authentication between the	
	AAA Server	AAA server and NAS	
5	Communication	Restrict AAA communication	
	Security	to only the limited set of	
	Security	authorized AAA servers, and	
		over the configured AAA	
		communication ports	
		Disable HTTP/HTTPS access	
6	Web-based GUI	if not required	
	Access	Restrict access to HTTPS only	
1	1	if web access required	

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		A .1 .2 . 1 .1 .1 .11	I
		Authenticate and authorize all	
		web access using centralized	
		(or local) AAA	
		Enforce an idle timeout to	
		detect and close inactive	
		sessions	
		Enforce an active session	
		timeout to restrict the	
		maximum duration of a session	
		prior to re-authentication	
		Detect and close hung	
		sessions, e.g. using keep lives	
		Restrict the permitted rate of	
		login attempts	
		Restrict the maximum number	
		of concurrent sessions	
		Only use SNMP v3 where	
		possible	
		Delete default community	
		strings	
		Only permit SNMP access	
7	SNMP Access	from authorized originators	
		Only enable minimum	
		required access, e.g. read-only	
		Define strong, non-trivial	
		community strings where	
		SNMP required	
	Locally Stored	Enforce strong encryption of	
8	Information	locally stored information for	
0	Protection	backups.	
	(Backups)		
		Configure NTP across all	
		devices (see NTP section for	
		details)	
		Log all successful interactive	
		device management access	
		using centralized AAA or an	
		alternative, e.g. AAA logs	
		Log all successful privileged	
		EXEC level device	
		management access using	
	Infrastructure	centralized AAA or an	
	Device	alternative, e.g. AAA logs	
9	Management	Log all failed interactive	
	Access Logging	device management access	
		using centralized AAA or an	
		alternative, e.g. AAA logs	
		Log all failed privileged EXEC	
		level device management	
		access using centralized AAA	
		or an alternative, e.g. AAA	
		logs	
		Log all commands entered at a	
		privileged EXEC level using	
		centralized AAA or an	
1		alternative	

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Device software image verification, e.g. MD5 Assign unique, per-user accounts (AAA)					
Assign unique, per-user accounts (AAA)					
accounts (AAA)					
Change default passwords					
Device Force users to periodically					
Management Best change their password					
Common Use TACACS+ for					
Practices administrative device access					
where possible					
Define multiple NTP servers					
for redundancy					
Additional Checks for Internet Firewall					
(implicit deny and					
whitelisting)					
12 Rule sets Order Deny and log (log traffic for					
analysis)					
The administrators monitor					
any attempts to violate the					
security policy using the audit					
logs generated by the					
application level firewall.					
There is a process/automated					
function to update the					
Application Based application level firewall's					
13 Firewall Vulnerabilities checked to the					
most current vulnerabilities					
There is a process/automated					
function to update the signatures with the latest					
attacks					
Only authorized users are					
being authenticated by the					
application level firewall.					
Appropriate rules are set up in					
Stateful terms of source and destination					
Inspection IP's, source and destination					
ports and timeouts.					
Logging is enabled and the					
15 Logging logs are reviewed to identify					
any potential patterns that					
could indicate an attack.					
Latest patches and updates					
relating to firewall product are					
Patches and Updates installed where applicable. Signatures and other necessary					
updates ownloaded from the					
vendors' trusted site.					
Approvals Manager IT Infrastructure (Network)					
Name					
Designation (P)					
Signature / Date					

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_	
Comments	
Comments	

Medical Devices Security Checklist Device Information

Medical Device Name

Description / Model

Descript	Description / Model			
S#	Controls Checklist	List of Requirements	Comments/Issues	
1	Specify the operating system and its version comes as default with the Medical Device.			
2	Does Medical Device operating system accept latest updates, anti-virus /malware and security patch updates as soon as they become available? Does Medical Device operate as normal after patching or operating system upgrade?			
3	Is this an IoT Medical Device and connects / transmits data to the internet and website? If yes, then specify what information is transmitted to the internet and how software maintains information security and integrity? Provide latest report of Independent Penetration Testing of the Medical Device Web Interface.			
4	Has an independent vulnerability assessment and penetration testing been performed for the medical device and its software? Does the vendor have ongoing internal process of Vulnerability Assessment and Penetration Testing of the Medical Device Software? (Provide a brief description of the process).			
5	Does the vendor have a process to provide Security Updates and Patches of Medical Device Software to their customers? What is the frequency of Security Updates and Patches?			
6	If this a Wi-Fi enabled Medical Device? Does it support WPA2 (Wireless Protected Access) standard?			
7	Can communication ports which are not required for the intended use of the Medical Device be disabled?			
8	Does the Medical Device encrypt data at rest and at transmission via network? (List which type of Data Encryption Mechanism is currently incorporated in the Medical Device).			
9	Is there documentation available on what medical information is communicated with the medical device, how it is transferred and how the data is secured?			

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10	Does the Medical Device support unique user/operator-specific IDs and password(s)
11	for multiple users? Does the Medical Device use managed AD services for identification and
12	authentication? Does the Medical Device allow one to configure and update following AKU specific Password Security Policies: Minimum password length should be configured as eight (8) characters. Application should only accept alphanumeric passwords. Application users should be forced to change their passwords after 90 days. User accounts should be locked after 5 consecutive failed logon attempts
13	Does the Medical Device create an audit trail? If so, can it list the events that are logged, such as logons, transactions, and transmissions and filename access?
14	Does the Medical Device auto-logoff screen lock the user after a period of inactivity?
15	Are USB / Removable media ports enabled on the Medical device? Does the Medical Device have the functionality to disable USB / Removable media ports in the device?
	Approvals
	(Bio-Medical) Designation
Signature	
Commen	
Manager	· (Infrastructure)
Name / D	Designation
Signatur	e
Commen	its
Head of	Global Information Security
Name / D	Designation
Signatur	e
Commen	its

12.0 Author(s):

Name	Designation
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- **13.0 Key Searchable Terms:** Policy Statement, Scope, In-house, Off-the Shelf, Vulnerability Assessment and Secure On-boarding.
- **14.0 Revision History:** This policy is subject to review and revision every two (2) years to ensure its effectiveness and alignment with changing organizational requirements and regulatory obligations.

15.0 Documents Change Record:

Review #	Review Date (dd-mm-yyyy)	Description Of Change	Identification of Change
03	25-05-2024	Reviewed and updated the document in accordance with the latest policy document template.	-

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