IDENTITY AUTOMATION

Authentication Methods from Highest Level of Assurance

	FACTOR	ASSURANCE	USER GROUP
WebAuthn/			
	II or III	HIGHEST	Faculty, Staff
Examples	**FIDO 2.0, Windows Hello, Face ID, etc.**		
	PRO: *Most Secure*	**CON:** *Requires devices/hardware*	
Push Authentication			
	II	HIGH	Faculty, Staff, HS
Examples	**RapidIdentity Mobile**		
	PRO: *User convenience, Low cost, Easy Administration*	**CON:** *Requires smartphone, devices can be lost/stolen*	
DUO Authentication			
	II	MEDIUM	Faculty, Staff
Examples	**DUO Provided Methods** *(U2F/SMS/Voice)*		
	PRO: *Leverages existing DUO investments*	**CON:** *Requires DUO licensing*	
TOTP via Mobile App			
	II	MEDIUM	Faculty, Staff, HS
Examples	**Google Authenticator, Windows, etc.**		
	PRO: *Common for remote access, leverages existing device, time-based expiration*	**CON:** *Requires smartphone or personal device*	
Kerberos			
	I	MEDIUM	Domain Joined Windows Users
Examples	**Windows Machine on Local Networks**		
	PRO: *No additional action to authenticate, Uses Kerberos browser ticket with user's domain credential*	**CON:** *Requires domain connection*	
Email			
	II	MEDIUM	Faculty, Staff, HS
Examples	**OTP Sent to Alternate/Personal Email**		
	PRO: *No hardware/enrollment needed*	**CON:** *Can be intercepted/spoofed, Requires alternate email*	

	FACTOR	ASSURANCE	USER GROUP
Social Login			
	I	MEDIUM	Guardians
Examples	**Login via Facebook, Twitter, Google, LinkedIn, etc.**		
	PRO: *Ease of use, Familiarity and user control*	**CON:** *Some networks block social, Longer login workflows, Relies on 3rd-party integration, requires social account*	
Pictograph			
	II	LOW	Pre-K, Elementary
Examples	**Predefined Custom or Sample Pictures Provided During Authentication**		
	PRO: *Ease of access for young/special needs students, Easy administration*	**CON:** *Requires enrollment*	
SMS			
	II	LOW	Faculty, Staff, HS
Examples	**OTP Sent via Mobile Number**		
	PRO: *User convenience, doesn't require smartphone or app*	**CON:** *Can be intercepted/spoofed*	
QR Code			
	II	LOW	Pre-K, Elementary
Examples	**Printed QR Code Presented to Embedded or External Web Camera**		
	PRO: *Easy to access and administrate, student-friendly*	**CON:** *Need device/hardware to authenticate code*	
Security Questions			
	I	LOW	Secondary/Alt Factor
Examples	**User Verifies Identity By Answering Predefined Secret Questions**		
	PRO: *Traditional user experience, Secondary/Alt. factor*	**CON:** *Vulnerable to social engineering/guessing, can be forgotten*	
Password or Passphrase			
	I	LOWEST	Default
Examples	**LDAP-Based Password**		
	PRO: *Traditional user experience*	**CON:** *Single-factor, can be forgotten, most likely to be compromised*	

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FOR MORE INFORMATION CONTACT:
sales@identityautomation.com
877.221.8401
www.identityautomation.com