

All talents, certified.



# **ExamShield Technical Details**

**Brief Overview & Technical Information** 

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Public

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5.0	07/06/2023	Updates in section 5 System Requirements		
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3.0	26/11/2021	Content review and recoding from PIS_D_01-15 to ECS_D_36		
02.0	23/06/2021	Update System Requirements and Technical Details		
01.1	17/03/2021	Revision		
01.0	<b>01.0 08/01/2021</b> Initial Version			

# 1 About PeopleCert

PeopleCert is a global leader in the assessment and certification of professional and language skills, partnering with multi-national organisations and government bodies to develop and deliver market leading exams worldwide. PeopleCert is sole Examination Institute for the delivery of **AXELOS Accreditation and Examination** services worldwide and has been appointed by the UK Visa and Immigrations office, to deliver to deliver Home Office approved **Secure English Language Tests (SELT)** in the UK and globally.

PeopleCert develops state-of-the-art assessment technology under its 4 core values: **Quality, Innovation, Passion and Integrity**.

PeopleCert has served over 5.5M, candidates delivering Web & Paper based exams delivered in 25 languages across 200+ countries, with a portfolio of 600 qualifications. It offers Online Proctored services providing exams at any place, any time, 24/7/365, since 2014.

# 2 PeopleCert's Quality Management System

**PeopleCert is a Certification Body** accredited and regularly audited by the National Hellenic Accreditation System (E.SY.D., equivalent to the American National Standards Institute), according to:



Certification of Persons

**PeopleCert's Integrated Management System** covers the whole range of its operations, including the exam processes and the assessment technology used, and is certified and regularly audited by Lloyds Register (UK) according to:



Quality Management



Customer Satisfaction & Complaints Handling



Environmental Management



Information Security



Use of IT in the Delivery of Assessments



Business Continuity



Cyber Essentials

# 3 PeopleCert ExamShield for Online Proctored exams

Every year hundreds of thousands of PeopleCert Online Proctored exams are delivered to Fortune 500 companies, Corporates, Government and Academic organizations around the world, through PeopleCert's proprietary software solution, namely ExamShield.

ExamShield has been developed and operates under **PeopleCert's Quality Management System** which is certified and annually audited according to ISO 27001: Information Security, ISO 23988: Use of IT in the Delivery of Assessments, ISO 17024: Certification of Persons, and Cyber Essentials.

All PeopleCert software is developed in accordance with **Software Development Life Cycle** procedures based on Microsoft Security Development Lifecycle (SDL) towards increasing reliability and software security.

PeopleCert systems are subject to internal (by PeopleCert) and external (by 3<sup>rd</sup> parties) penetration testing and vulnerability assessment, at least one per year and after every major release.

ExamShield is approved for publishing on the Microsoft Store, having successfully passed Microsoft's rigorous app certification process, which includes security tests, technical compliance tests, as well as content compliance checks.

PeopleCert submits every ExamShield release to the **top 10 Security software companies** for whitelisting, namely:

- McAfee
- Webroot
- Bitdefender
- Kaspersky
- Avast
- Symantec Norton
- ESET
- F-Secure
- Avira
- AVG

# 4 ExamShield Features

ExamShield provides a secure exam environment for **preventing and mitigating any candidate actions towards cheating** and importantly protecting the **integrity of the exam content** (content theft). More specifically:

- Upon initiation of the exam, ExamShield allows only the absolutely necessary for exam taking candidate actions, prohibiting any candidate navigation or action not related to the exam (e.g., change active window or important Key Combinations).
- ExamShield provides a series of exam infringement prevention features such as terminating or requiring termination of blacklisted applications like screen capture, keyloggers or communication software, preventing execution on virtual machines, preventing simultaneous tests from running and usage of multiple monitors.

ExamShield also acts as the communication bridge between the candidate and PeopleCert's certified proctor team. Additionally, through ExamShield, PeopleCert certified Proctors can adjust camera and microphone settings to ensure the highest possible communication environment with the candidate.

PeopleCert proctors have no further access to the candidate's system.

ExamShield does not remotely control candidate's Desktop, Mouse, or Keyboard.

# 5 System Requirements

ExamShield is available for Windows and Mac OS, specifically:

• ExamShield is applicable with Windows® 11, Windows® 10 (Windows 10S and Windows 11S is not supported) or macOS High Sierra (10.13) onwards

Further system requirements:

- Dual-core 2.4GHz CPU or faster with 4GB of RAM (recommended)
- Active Full-Time/Broadband internet connection of at least 4 Mbps
- 16-bit monitor (at least 15") with screen resolution 1024 x 768 or higher
- Speakers and microphone (the use of headsets is only allowed during onboarding)
- Keyboard and mouse or another pointing device
- A single web camera (embedded or external) you can rotate

#### 6 Technical Details

ExamShield might require elevated rights upon installation in order to install proper firewall rules.

Upon running, ExamShield application needs to have access to write to the following application folders:

- 1. C:\Users\[user] \AppData\Roaming\PeopleCert\ and its subfolders
- 2. C:\Users\[user]\AppData\Local\ExamShield

ExamShield requires access to the following end points:

Server URL	Client	Server Port	Server IP	Traffic	Protocol
	Port			type	
https://passport.peoplecert.org		443	45.60.47.233	Outbound	HTTPS
https://download.peoplecert.org		443	47.57.182.223	Outbound	HTTPS
http://m2m-		80	52.164.241.201	Outbound	HTTP
routingservice.peoplecert.org					
https://webates.peoplecert.org		443	40.84.236.215	Outbound	HTTPS
https://webates-us.peoplecert.org		443	40.84.236.215	Outbound	HTTPS
https://webates-au.peoplecert.org		443	13.75.153.155	Outbound	HTTPS
https://webates-eu.peoplecert.org		443	52.138.181.169	Outbound	HTTPS
https://webates-eu2.peoplecert.org		443	52.169.216.186	Outbound	HTTPS
https://webates-eu3.peoplecert.org		443	52.151.94.129	Outbound	HTTPS
https://webates-hk.peoplecert.org		443	52.175.14.177	Outbound	HTTPS
https://webates-in.peoplecert.org		443	104.211.90.99	Outbound	HTTPS
https://webates-		443	47.254.147.44	Outbound	HTTPS
cn.peoplecertcn.org.cn			(China)		
			101.201.35.139		
			(RW)		
https://candidate.peoplecert.org		443	40.69.86.80	Outbound	HTTPS
http://streaming1.peoplecert.org		80	13.79.240.110	Outbound	HTTP

Server URL	Client	Server Port	Server IP	Traffic	Protocol
	Port			type	
http://streaming1.peoplecert.org	1853, 5072-	560, 570	13.79.240.110	Inbound &	UDP
	5074, 8200			Outbound	
http://streaming2.peoplecert.org		80	52.169.233.103	Outbound	HTTP
https://streaming2.peoplecert.org		443	52.169.233.103	Outbound	HTTPS
http://streaming2.peoplecert.org	1853, 5072-	560, 570	52.169.233.103	Inbound &	UDP
	5074, 8200			Outbound	
http://streaming3.peoplecert.org		80	52.236.175.56	Outbound	HTTP
http://streaming3.peoplecert.org	1853, 5072-	560, 570	52.236.175.56	Inbound &	UDP
	5074, 8200			Outbound	
http://streaming3b.peoplecert.org		80	52.236.175.56	Outbound	HTTP
https://streaming3b.peoplecert.org		443	52.236.175.56	Outbound	HTTPS
http://streaming3b.peoplecert.org	1853, 5072-	560, 570	52.236.175.56	Inbound &	UDP
	5074, 8200			Outbound	
http://streaming4.peoplecert.org		80	13.81.107.91	Outbound	HTTP
http://streaming4.peoplecert.org	1853, 5072-	560, 570	13.81.107.91	Inbound &	UDP
	5074, 8200			Outbound	
http://streaming4b.peoplecert.org		80	13.81.107.91	Outbound	HTTP
http://streaming4b.peoplecert.org	1853, 5072-	560, 570	13.81.107.91	Inbound &	UDP
	5074, 8200			Outbound	
https://streaming-		80	47.91.93.9	Outbound	HTTP
<u>cn.peoplecertcn.orq.cn</u>			(China)		
			59.110.220.174		
			(RW)		
https://streaming-	1853, 5072-	560, 570	47.91.93.9	Inbound &	UDP
<u>cn.peoplecertcn.org.cn</u>	5074, 8200		(China)	Outbound	
			59.110.220.174		
			(RW)		
http://streaming-uk.peoplecert.org		80	162.13.64.3	Outbound	HTTP
http://streaming-uk.peoplecert.org	1853, 5072-	560, 570	162.13.64.3	Inbound &	UDP
	5074, 8200			Outbound	

# 7 ExamShield Fact Sheet

# Section 1: General

	PeopleCert is accredited under			
	<ul> <li>ISO 17024 Certification of persons</li> </ul>			
	<ul> <li>ISO 9001 Quality Management System</li> </ul>			
	<ul> <li>ISO 10002 Customer Satisfaction &amp; Complaints Handling</li> </ul>			
Is PeopleCert accredited?	<ul> <li>ISO 14001 Environmental Management</li> </ul>			
is reoptecert accredited:	ISO 27001 Information Security Management System			
	• ISO 23988 Use of IT in the Delivery of Assessments			
	ISO 22301 Business Continuity Management			
	TUV Cybersecurity Essentials			
	PeopleCert's Online Proctoring is approved by the Helleni Accreditation System (ESYD) based on ISO 17024			
Who developed ExamShield?	ExamShield is developed exclusively internally by PeopleCert, following ISO 27001 controls			
What is the Software Architecture?	ExamShield follows the Client-Service architecture, communicating with PeopleCert cloud servers.			
Which Operating Systems are supported?	<ul> <li>Windows 10 and Windows 11 (Windows 10S and 11S not supported)</li> </ul>			
supporteur	<ul> <li>macOS High Sierra 10.13 and higher</li> </ul>			
Can ExamShield be deployed on a virtualized environment?	ExamShield does not operate under any virtualized environment.			
How is ExamShield downloaded?	The latest version of ExamShield can be downloaded from <a href="here">here</a> , from candidate's account at peoplecert.org/overview, or directly from the <a href="Microsoft">Microsoft</a> Store.			
How to deploy ExamShield to Candidate computers?	Use the Microsoft Store version or download ExamShield from <a href="here">here</a> and utilize your own methodologies and tools to automatically deploy to Candidate computers, such as Group policies, SCCM <i>or later</i> , MDM (e.g. Intune) etc. Manual deployment is also supported.			
	<ul> <li>Dual-core 2.4GHz CPU or faster with 4GB of RAM (minimum)</li> </ul>			
	<ul> <li>Active Full-Time/Broadband internet connection of a least 4 Mbps</li> </ul>			
What are ExamShield's system requirements?	<ul> <li>16-bit monitor (at least 15") with screen resolution 1024 x 768 or higher</li> </ul>			
jun ements:	<ul> <li>Speakers and microphone (the use of headsets is onlallowed during onboarding)</li> </ul>			
	<ul> <li>Keyboard and mouse or another pointing device</li> </ul>			

# Section 2: Policies, Procedures and Compliances followed

Does PeopleCert have a documented information security framework in place?	PeopleCert is accredited and audited annually per ISO 27001 since 2010, that details the information security management system for both logical (systems and applications) and physical security
Has PeopleCert outsourced the software development for ExamShield to another third-party provider?	No, ExamShield is developed exclusively internally by PeopleCert, following ISO 27001 controls
Are PeopleCert employees required to sign a confidentiality agreement?	Yes, all employees sign Non-Disclosure Agreements during the hiring process
Are PeopleCert developers been trained in secure coding techniques?	All developers are trained to follow PeopleCert's Software Development Life Cycle procedures based on Microsoft's Security Development Lifecycle (SDL), towards increasing reliability and software security.
Does PeopleCert have a mandatory security awareness program in place for employees?	PeopleCert employs a comprehensive multifaceted security training schedule, which is mandatory during onboarding and conducted twice per year.
Are PeopleCert procedures in place for reporting and responding to possible security incidents?	PeopleCert employs security incident handling procedures in line with ISO 27001.

# Section 3: Data Storage & Data Protection

ExamShield transfers candidate's Audio, Video, Desktop and Chat streams, required for the exam sitting purposes, to PeopleCert cloud servers.
ExamShield collects and records user and system events towards ensuring exam integrity. All data are retained in accordance with PeopleCert's retention policy.
Access to the data is provided only to certified Role-based personnel.
Towards ensuring exam integrity and verifying candidate's identity ExamShield records candidate's ID document and camera feed. No additional Sensitive Personal Identifiable data are collected or processed.

#### **Section 4: Solution**

ExamShield is approved for publishing in the Microsoft Store and has undergone Microsoft's strict security tests, technical compliance tests, as well as content compliance checks.

Is ExamShield safe to use?

PeopleCert submits every ExamShield release to the top 10 Security software companies for whitelisting, namely, McAfee, Webroot, Bitdefender, Kaspersky, Avast, Symantec Norton, ESET, F-Secure, Avira, AVG.

Does PeopleCert conduct regular security testing of the solution?	PeopleCert systems are subject to internal vulnerability assessments (by PeopleCert) at frequent intervals and external (by CREST accredited parties) penetration testing, at least one per year and after every major release.		
Does PeopleCert participate in any public	PeopleCert participates in a <u>public vulnerability</u> <u>disclosure program</u> with certified ethical hackers and researchers from 200 different countries.		
vulnerability disclosure program?	PeopleCert also recently initiated a private bug bounty program and invited top-notch researchers to participate.		
Does PeopleCert require Remote access to the device the ExamShield is installed?	No, PeopleCert and ExamShield do not remotely control candidate's desktop, mouse, or keyboard.		
Are elevated rights needed on the device the ExamShield is installed?	In corporate networks, elevated rights might be needed depending on the enforced group policy.		



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