CA Single Sign-On r12.x (CA SiteMinder) Implementation Proven Professional Exam (CAT-140)

Study Guide

Version 1.4



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1 Exam Information

The CA Technologies Certification Program is designed to measure your skills, knowledge, and expertise in managing, administering, installing, configuring and implementing select CA Technologies products for complete and optimized IT solutions. With CA certifications, management teams will have peace of mind that knowledgeable professionals are handling their CA Technologies applications.

Proctored by a third party vendor, KryterionOnline, CA Technologies certifications objectively validate the competencies of a project team – whether that team is your in-house staff, CA Technologies Professional Services, or a CA Technologies partner.

The aim of this document is to help you prepare for the CA Single Sign-On r12.x (CA SiteMinder) Implementation Proven Professional Certification Exam. Make sure that you familiarize yourself with the content areas tested. Your best path to success is to attend the exam prep course(s).

You may also find it helpful to review the product documentation at https://support.ca.com and to participate in CA Global User Community forums at https://communities.ca.com/.

The experience gained from taking courses and using the product will help you:

- Gain a comprehensive understanding of the product or solution
- Increase the likelihood of passing the exam on your first attempt

The Exam Experience

You can register to take an online proctored exam from your home or office using Kryterion's Online Proctoring (OLP) Services, or you can take an on-site proctored exam at a Kryterion testing center. If you choose to take an online proctored exam, you will need Internet access, an external web camera, and a computer that meets specific hardware and software requirements.

For answers to frequently asked questions about registering for exams, locations, on-site and virtual proctoring, OLP equipment requirements, cancellation and re-scheduling policies and more, read our FAQs at http://www.ca.com/us/education/accreditations/certifications/certification-faq.aspx.

CA employees may also go here for more information: https://one.ca.com/education/certification

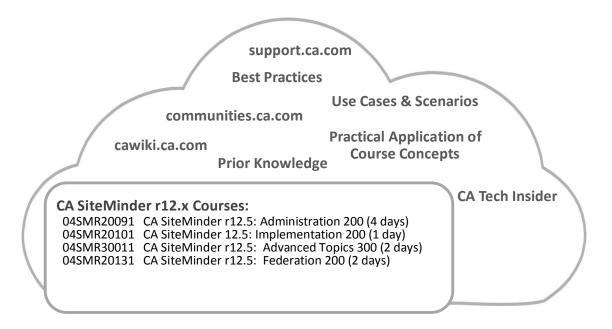
Professional Exam Details

- Product release: Major release listed in the title; Includes subsequent point releases
- Recertification: There is no annual requirement to recertify for the same release of a product. For each major product release, an updated exam will be available for recertification.
- Number of items = 50
- Item types = Multiple choice, including multiple response questions
- Time to complete test: 90 minutes
- Passing score is 70%
- Attempts Permitted: You may register for your first retake immediately. For subsequent retakes you are required to wait at least thirty (30) calendar days from the date of your last attempt. Read the online FAQs for details.

2 Areas for Study

Information from a variety of sources can represent the body of knowledge covered by the exam.

Figure 1. Learning path and body of knowledge



Search the CA Education Portal for courses covering the latest product releases, as they may not have been available at the time of this document posting:

- Partners & Customers look here: http://education.ca.com
- Employees look here: https://calearning.ca.com

Visit Communities at CA for documentation and more: https://support.ca.com

Register for the exam here: www.webassessor.com/catechnologies/index.html

Exam objectives as they map to related courseware and bodies of knowledge, including percentage of exam devoted to topics.

Exam Objectives	Related Content	Exam Focus
Understanding CA	CA SiteMinder r12.5: Administration 200	2%
SiteMinder	(04SMR20091)	
	Define CA SiteMinder	
	 Define CA SiteMinder Services and Functions 	
Administering Web Agents	CA SiteMinder r12.5: Administration 200	4%
	(04SMR20091)	
	Administer Web Agents	
	Administer Web Agents	
Configuring User Stores	CA SiteMinder r12.5: Administration 200 (04SMR20091)	8%
	Configure User Stores	
	 Configure an LDAP User Store 	
	Configure an Active Directory User Store	
	Configure an ODBC User Store	
	Use Directory Mapping	
Protecting a Web	CA SiteMinder r12.5: Administration 200	8%
Application	(04SMR20091)	3,0
- PP	Protect a Web Application	
	Protect a Web Application	
	Create Expressions	
	Integrate Web Applications with CA SiteMinder	
	CA SiteMinder r12.5: Implementation 200	
	(04SMR20101)	
	Protect Web Applications with CA SiteMinder	
	Install CA SiteMinder Web Agent	
Administering CA SiteMinder	CA SiteMinder r12.5: Administration 200	4%
	(04SMR20091)	
	Administer CA SiteMinder	
	 Delegate Administrator Roles 	
	Customize Authentication	
Configuring Single Sign-on	CA SiteMinder r12.5: Administration 200	4%
	(04SMR20091)	
	Configure Single Sign-on	
	 Configure SSO in a Single Domain 	
	Configure a Session Store	
Importing and Exporting	CA SiteMinder r12.5: Administration 200	4%
Policy Store Objects	(04SMR20091)	
	Import and Export Policy Store Objects	
Configuration And 10 "	Export and Import Policy Store Objects Consideration 12.5. Administration 200.	40/
Configuring Advanced Policy	CA SiteMinder r12.5: Administration 200	4%
	(04SMR20091) Configure Advanced Policy	
	 Configure Policy Using the Management Console 	

Exam Objectives	Related Content	Exam Focus
	CA SiteMinder r12.5: Administration 200	4%
Implementing Password	(04SMR20091)	
Services	Implement Password Services	
	 Implement Password Services 	
Managing Reports in the Administrative UI	CA SiteMinder r12.5: Administration 200 (04SMR20091)	2%
	Manage Reports in the Administrative UI	
	 Use CA SiteMinder Reports 	
Implementing Other CA	CA SiteMinder r12.5: Administration 200	4%
SiteMinder Features	(04SMR20091)	
	Implement Other CA SiteMinder Features	
	Implement Other CA SiteMinder Features	
Troubleshooting CA	CA SiteMinder r12.5: Administration 200	4%
SiteMinder	(04SMR20091)	
	Troubleshooting CA SiteMinder	
	Troubleshoot CA SiteMinder	
Installing CA SiteMinder	CA SiteMinder r12.5: Implementation 200	4%
Server Components on	(04SMR20101)	
Microsoft Windows	Install CA SiteMinder Server Components on Microsoft Windows	
	Install CA SiteMinder Policy Server	
	Install CA SiteMinder Administrative UI	
Understanding Federation	CA SiteMinder r12.5: Implementation 200	2%
Components	(04SMR20101)	
	Define Federation Components	
	 Identify How to Set Up Asserting Party Components 	
Understanding how to	CA SiteMinder r12.5: Implementation 200	2%
Upgrade to CA SiteMinder	(04SMR20101)	
r12.5	Identify How to Upgrade to CA SiteMinder r12.5	
	 Define How to Configure a Parallel Environment 	
Configuring Agent	CA SiteMinder r12.5: Advanced Topics 300 (04SMR30011)	2%
Parameters	Configure Advanced Agent Parameters	
	 Identify Web 2.0 Integration Features 	
Leveraging	CA SiteMinder r12.5: Advanced Topics 300 (04SMR30011)	4%
Authentication Schemes	Leverage Authentication Schemes	
	Create HTML Forms-based Authentication Schemes	
	Use OpenID Authentication	
Securing the CA SiteMinder	CA SiteMinder r12.5: Advanced Topics 300 (04SMR30011)	2%
User Session	Secure the CA SiteMinder User Session	
	 Configure CA SiteMinder Features that Secure the User 	
	Session	
Configuring Advanced Single	CA SiteMinder r12.5: Advanced Topics 300 (04SMR30011)	4%
Sign-on	Configure Advanced Single Sign-on	
	 Enable SSO Across Multiple Cookie Domains 	
	Configure Security Zones	
Configuring Load Balancing	CA SiteMinder r12.5: Advanced Topics 300 (04SMR30011)	2%
and Failover	Configure Load Balancing and Failover	
	 Configure Load Balancing and Failover for Web Agent to 	
	Policy Server Connections	

Exam Objectives	Related Content	Exam Focus
Understanding Federation	CA SiteMinder r12.5: Federation 200 (04SMR20131)	4%
and	Define Federation and Kantara Test Cases	
Kantara Test Cases	Identify Kantara Test Cases	
	 Identify Test Cases Q and R 	
Understanding CA	CA SiteMinder r12.5: Federation 200 (04SMR20131)	2%
SiteMinder Federation High	Define CA SiteMinder Federation High Level Architecture	
Level Architecture	 Identify Federation Security Services Components 	
Configuring CA SiteMinder	CA SiteMinder r12.5: Federation 200 (04SMR20131)	4%
Federation Components	Configure CA SiteMinder Federation Components	
	 Identify CA SiteMinder Federation Components 	
	Define Common Components for Partnership and Legacy	
Configuring Partnership	CA SiteMinder r12.5: Federation 200 (04SMR20131)	4%
Federation Components	Configure Partnership Federation Components	
	Create Partnerships	
	Identify Components Beyond Base Partnership	
Configuring Legacy	CA SiteMinder r12.5: Federation 200 (04SMR20131)	4%
Federation Components	Configure Legacy Federation Components	
	 Create a Legacy SAML 2.0 IDP IDP->SP 	
	 Test a Legacy SAML 2.0 Partnership 	
Extending SiteMinder	CA SiteMinder r12.5: Federation 200 (04SMR20131)	4%
Federation	Extending SiteMinder Federation	
	 Identify Federation SDK's 	
	Identify Asserting Party Extensibility	
Troubleshooting	CA SiteMinder r12.5: Federation 200 (04SMR20131)	2%
-	Troubleshooting	
	Configure Logging Facilities to Collect Logs	
Understanding Common	CA SiteMinder r12.5: Federation 200 (04SMR20131)	2%
Federation Partnership Use	Common Federation Partnership Use Cases	
Cases	Identify Federation Interoperability	

3 Sample Certification Exam Questions

These sample questions are very similar to the questions in the actual exam. Some questions may include several correct options.

Question 1

In your CA SiteMinder environment, adding CA SiteMinder Federation enables you to:

- A. define firewall policies.
- B. manage component licensing agreements.
- C. bind the CA SiteMinder and J2EE sessions together.
- D. implement single sign-on (SSO) across different security domains.

Question 2

Which guideline applies when connecting to Active Directory with Secure Sockets Layer (SSL)?

- A. Change the default SSL port to 540.
- B. Use a native Windows Certificate database.
- C. Configure the Web Agent to override the parameters of trusted hosts.
- D. Use the Lightweight Access Directory Protocol (LDAP) Namespace in Web Directory Configuration.

Question 3

Arjun Prasad authenticates using an authentication scheme for application A, which has a protection level of 4. Then, Arjun accesses application B on the same browser session, which is protected by an authentication scheme with a protection level of 5. Which statement is TRUE?

- A. Arjun is immediately permitted access to application B.
- B. Arjun is logged out of application A before being permitted access to application B.
- C. Arjun is rechallenged to log in to application B. After the successful login, Arjun can go back to application A on the same browser session if the session has not expired.
- D. Arjun is rechallenged to log in to application B, but after logging in to application B, the previous established session for application A is terminated and Arjun is logged out of A.

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When you configure a certificate-based authentication scheme, you nee	d to:
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- A. define the file system structure and user database.
- B. define the certified user and configure the access table.
- C. select an x509-based authentication scheme template and issue the access certificate.
- D. select an x509-based authentication scheme template and configure a certificate mapping.

Question 5

Which tool do you use to determine the identifiers of objects for a granular export or import by exploring a list of applications or domains?

- A. XPSExplorer
- B. XPSExport
- C XPSImport
- D. XPSConfig

Question 6

Which Federal Information Processing Standards (FIPS) modes can CA SiteMinder operate in? (Choose three)

- A. FIPS-only
- B. FIPs-verified
- C. FIPS-migration
- D. FIPS-compatibility
- E. FIPS-maintenance

Question 7

A trusted host is:

- A. a CA SiteMinder administrator.
- B. a Host Configuration Object (HCO).
- C. an Agent Configuration Object (ACO).
- D. a client computer on which one or more CA SiteMinder Web Agents can be installed.

Question 8

If you need to configure a CA SiteMinder r12.5 environment with an existing r12.x deployment, which guideline should you follow?

- A. If your r12.x environment contains smkeydatabases, migrate the smkeydatabase content to the r12.5 certificate store.
- B. Make sure that the CA SiteMinder user directory objects you create in both environments have different names.
- C. If you are deploying multiple keystores, enable dynamic agent key generation for all Policy Servers.
- D. Configure r12.x Policy Servers to communicate with the r12.5 keystore.

Question 9

In your company, authentication information is stored in a central Oracle repository. However, authorization information is spread across several different SQL Server and Oracle user directories associated with specific applications. The Social Security Number (SSN) of employees is common to all user directories. You are likely to use Lightweight Directory Access Protocol (LDAP) directories in the near future. For CA SiteMinder directory mapping options:

- A. it is best to use the identical DN method to map LDAP directories to the central Oracle repository.
- B. when mapping relational database directories to each other, Universal ID is the only method available.
- C. when mapping LDAP user directories to the central Oracle repository, Universal ID is the only method available.
- D. you can choose between the Universal ID and Identical DN methods when mapping relational databases with the central Oracle repository for authentication.

Question 10

Which component of CA SiteMinder can be used to configure the scope and permissible tasks of an administrator?
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- A. CA SiteMinder Database
- B. CA SiteMinder Agent dialog
- C. Policy Server Management Console
- D. CA SiteMinder administrative user interface (UI)

Question 11

CA SiteMinder password policies can be used to enforce: (Choose three)

- A. failed login criteria.
- B. password reuse criteria.
- C. password synchronization.
- D. password composition criteria.

Question 12

In CA SiteMinder, policy store objects require identifiers, such as the following example: CA.SM::Domain@03-d922906c-43ec-4da7-869b-3d000c9c1ba9

The example shown is known as:

- A. an XID.
- B. an extension class.
- C. an object identifier (OID).
- D. a universally unique identifier (UUID).

Question 13

In a multiple cookie domain environment, which statement about cookie provision in a CA SiteMinder enterprise is TRUE?

- A. Each Web Agent acts as a cookie provider.
- B. Only one keystore acts as a cookie provider.
- C. Only one Web Agent acts as a cookie provider.
- D. Each Policy Server instance acts as a cookie provider.

Question 14

You are configuring load balancing for several Lightweight Directory Access Protocol (LDAP) user directories. You want to force a specific directory server to service more requests. How can you accomplish this?

- A. Use server aliases.
- B. Assign a higher priority number.
- C. Place the server higher in the list.
- D. Add the specific directory server multiple times in the directory configuration of the load balanced setup.

Question 15

When investigating CA SiteMinder issues, which log should you view to examine authentication, authorization, and administrator access event information?

- A. Audit log
- B. Profiler log
- C. Policy Server log
- D. Web Agent trace log

Question 16

Which condition applies if you use a common key store for single sign-on (SSO) with multiple policy stores?

- A. Key store servers must run on standard ports.
- B. Key store servers must run on separate ports.
- C. The list of key store server addresses must be comma delimited.
- D. The key store must be separate from the policy store and all Policy Servers must point to a common keystore.

Question 17

As part of an ongoing effort to improve performance and high availability, Administrator Cliff Warner has created a Host Configuration Object (HCO) for a cluster. The cluster consists of four Policy Servers, each in a different data center. All Policy Servers point to an existing policy store. Cliff wants to maximize fault tolerance for Web Agents to avoid problems if the Policy Server in any data center becomes unavailable. What must Cliff do?

- A. Point the webagent.conf file to the new HCO name and restart the web server instance.
- B. Perform a complete reconfiguration of the Web Agent, which is needed to use the new HCO.
- C. Add the new cluster HCO in the smhost.conf file and add all four Policy Servers is the list of boot strap Policy Servers.
- D. Register a new trusted host going against the Policy Servers to create a new smhost.conf file. Reference the new smhost.conf file in webagent.conf and add the new cluster HCO name in webagent.conf.

Question 18

The User Authorization cache reduces the number of user directory requests required to determine CA SiteMinder policy membership. Which statement about the User Authorization cache is TRUE?

- A. It caches user entries.
- B. It only stores data about the user.
- C. It only stores user attribute values.
- D. It stores details about the relationship between users and policies.

Question 19

You are attempting to address slow web application responses, which occur during peak load on a daily basis. During your investigation, you notice that the number of requests for each CA SiteMinder agent often exceeds 60

at any given moment; 20 in process and 40 in the queue. To help improve performance, which tuning steps should you perform next? (Choose two)

- A. Increase the value of the User AZ Cache parameter.
- B. Decrease the value of MaxSocketsPerPort parameter.
- C. Increase the value of the MaxSocketsPerPort parameter.
- D. Increase the value of Max Connections setting for Policy Server, if needed.

Question 20

You want to maximize the efficiency of CA SiteMinder-based authentication and authorization. Which advice should you follow?

- A. You only need to place the web server and Policy Server in the same data center.
- B. You only need to place the Policy Server and directory servers in the same data center.
- C. You should place the web server, Policy Server, and directory servers in the same data center.
- D. You should not be concerned about server location, because CA SiteMinder components use load balancing between agents, Policy Servers, and directory servers.

Question 21

You are planning a CA SiteMinder-based single sign-on (SSO) infrastructure. Which capacity consideration is the MOST significant?

- A. Type of operating system
- B. Total number of users in the user directory
- C. Total number of policy objects in the policy store
- D. The number of concurrent users that will access the system

Question 22

In CA SiteMinder r12.5, partnership federation using Security Assertion Markup Language (SAML) 2.0 is enhanced to comply with eGov 1.5 certifications. Examples of eGov 1.5-related features include: (Choose two)

- A. an open format cookie that supports strong encryption algorithms.
- B. a Do Not Cache setting, which tells the consumer not to retain an assertion for future use.
- C. the ability of a Service Provider to request information about how a user authenticates at the Identity Provider.
- D. a customizable user consent form that enables the user to grant permission before the Identity Provider sends identity information to a partner.

Question 23

To create a partnership from an asserting party to a legacy relying party, which information do you need?

- A. Artifact backchannel security details because you need to disable this functionality
- B. Legacy Identity Provider information to create a remote Identity Provider entity
- C. Legacy relying party information, such as a metadata file, to create the remote Service Provider entity
- D. Partnership Identify Provider information, such as the Simple Object Access Protocol (SOAP) artifact resolution URL, to configure Security Assertion Markup Language (SAML) 2.0

Question 24

What is the recommended usage for load balancers such as F5 in a single sign-on (SSO) environment? (Choose two)

- A. Route HTTP traffic to appropriate web servers.
- B. Load balance Web Agent to Policy Server connections.
- C. Load balance Policy Server connections to data stores.
- D. Provide balanced traffic between all participating web servers.

Answers

Question 1 = D

Question 2 = B

Question 3 = C

Question 4 = D

Question 5 = A

Question 6 = A, C, and D

Question 7 = D

Question 8 = A

Question 9 = C

Question 10 = D

Question 11 = A, B, and D

Question 12 = A

Question 13 = C

Question 14 = D

Question 15 = A

Question 16 = D

Question 17 = C

2 ... 10 5

Question 18 = D

Question 19 = C and D

Question 20 = C

Question 21 = D

Question 22 = C and D

Question 23 = D

Question 24 = A and D