CA Single Sign-On 12.6

What's New

December 6, 2016
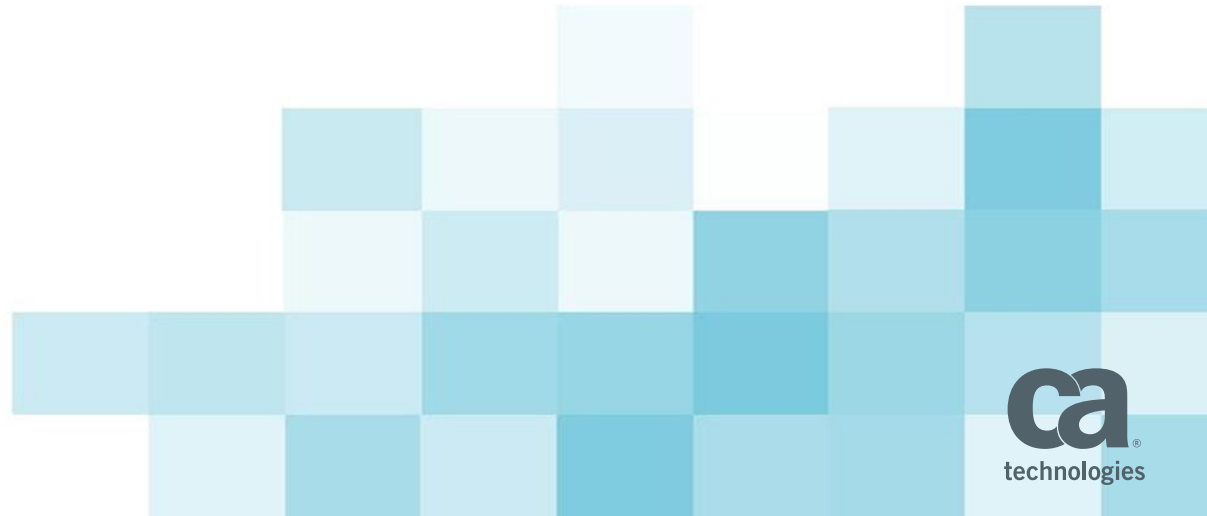
Contents

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What is CA Single Sign-On?

One Login = Access to Multiple Applications

Regardless of what device is used, or
where applications reside – on-premise or in the cloud

But it is much more than just one login…

AUTHENTICATION MANAGEMENT

- Broad authentication credential support
- User directory mapping and chaining
- Step-up authentication, levels, fall backs, password services

POLICY-BASED AUTHORIZATION

- Flexible access policies based on user, time, location, etc.
- Risk-based authorization
- Enterprise scalability (100M+ users)

IDENTITY FEDERATION

- Browser and document-based federation
- Social media registration and login
- Standards-based (SAML, WS-Fed, OAuth)

SINGLE SIGN ON

- Cross-domain single sign-on
- Security zones and single logout
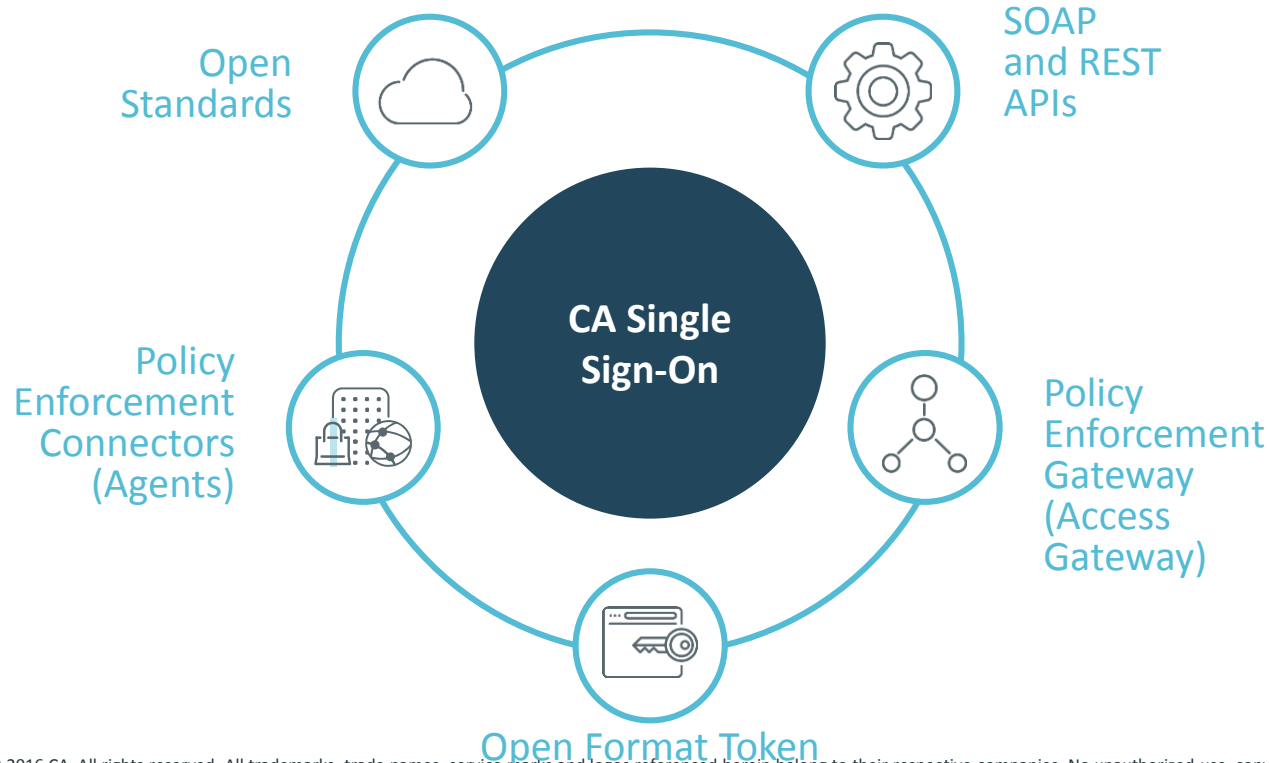- Session Assurance to avoid session hijacking

CENTRALIZED ADMINISTRATION

- Centralized user, group and policy administration
- User self-service
- Delegation of permissions

AUDITING AND REPORTING

- Consolidated user activity tracking
- Auditing to files or RDBMS
- Configuration of events-based audit

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Flexible Solution to Meet Many Needs in a Single Deployment

Open Standards

SOAP and REST APIs

Policy Enforcement Connectors (Agents)

CA Single Sign-On

Policy Enforcement Gateway (Access Gateway)
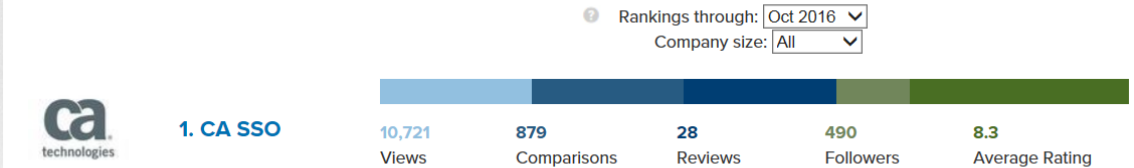
Open Format Token

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Product Value

Business Problems Addressed

- Controlling access to information resources
- Reducing cost of managing access
- Enabling end user productivity

Best Web Access Management Vendors

Over 181,102 professionals have used IT Central Station research on enterprise tech. Here are the best Web Access Management vendors based on product reviews, ratings, and comparisons. All reviews and ratings are from real users, validated by our triple authentication process.

Rankings through: Oct 2016
Company size: All

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1. CA SSO

10,721	879	28	490	8.3
Views	Comparisons	Reviews	Followers	Average Rating

Src: https://www.itcentralstation.com/categories/web-access-management

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Increasing Product Value

More application access use cases

Lowering the TCO by simplifying the solution

Improving the solution's security

Business Problems Addressed

- Controlling access to information resources
- Reducing cost of managing access
- Enabling end user productivity

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Value delivered in 12.6

✓ More application access use cases

✓ Lowering the TCO by simplifying the solution

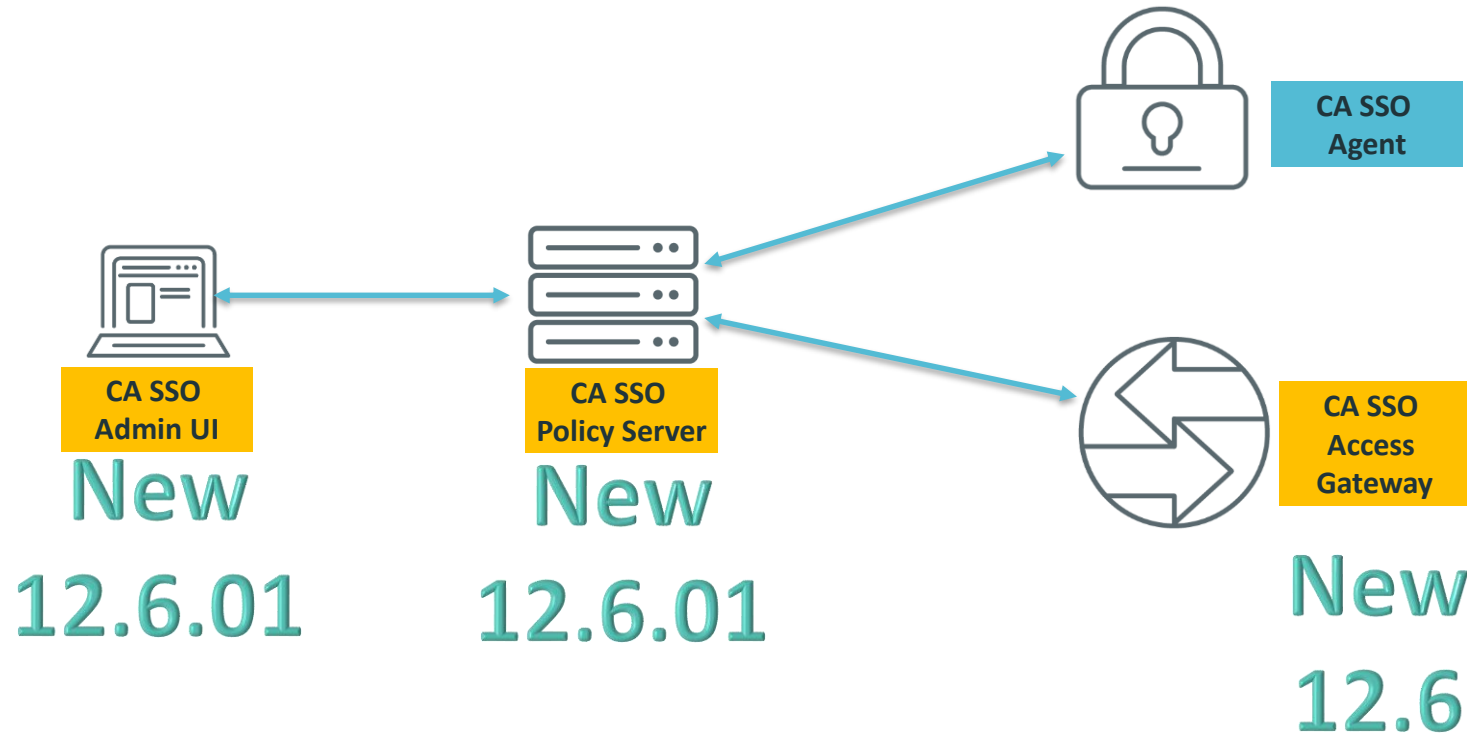✓ Improving the Security

Business Problems Addressed

- Controlling access to information resources
- Reducing cost of managing access
- Enabling end user productivity

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Components in this Release

CA SSO
Agent

CA SSO
Admin UI

**New
12.6.01**

CA SSO
Policy Server

**New
12.6.01**

CA SSO
Access
Gateway

**New
12.6**

Federation Enhancements – Simpler Certificate Mgmt

Feature	Value

Feature

- Certificate expiration details

- Secondary validation certificates for partnerships

- Ability to update certificates without deactivation

Value

- ✓ Improved manageability

- ✓ Reduce risk of application access outage

- ✓ Seamless application availability

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Federation Enhancements – Simpler Configuration

Feature	Value
▪ Support Assertion Consumer Service (ACS) URL in the authentication request	✓ ACS URL is needed by the Identity Provider in a SAML partnership. Providing this URL in the authentication request simplifies the ability for CA SSO to act in a Service Provider role in a federated partnership

CA SSO

Service Provider

"I have a user that needs access to this application"

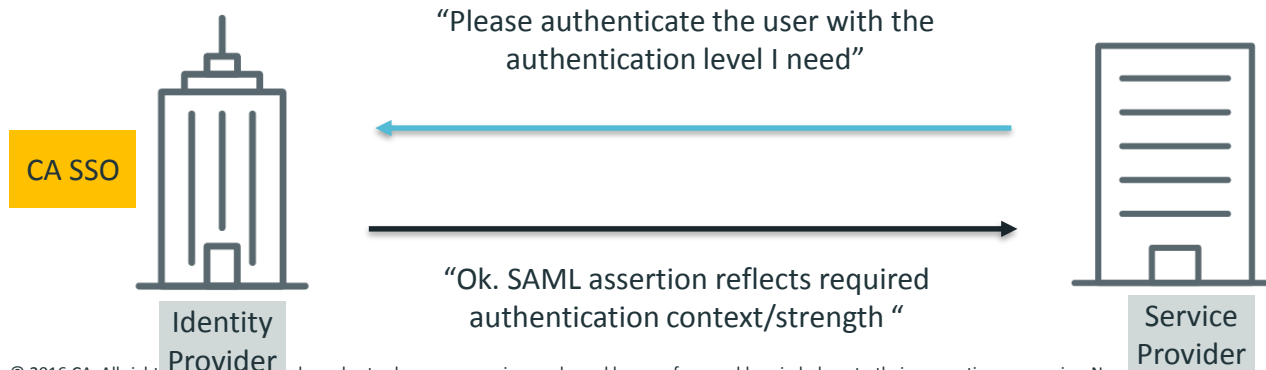"Please authenticate the user and send the assertion here: www.acme.com/xxx"

Identity Provider

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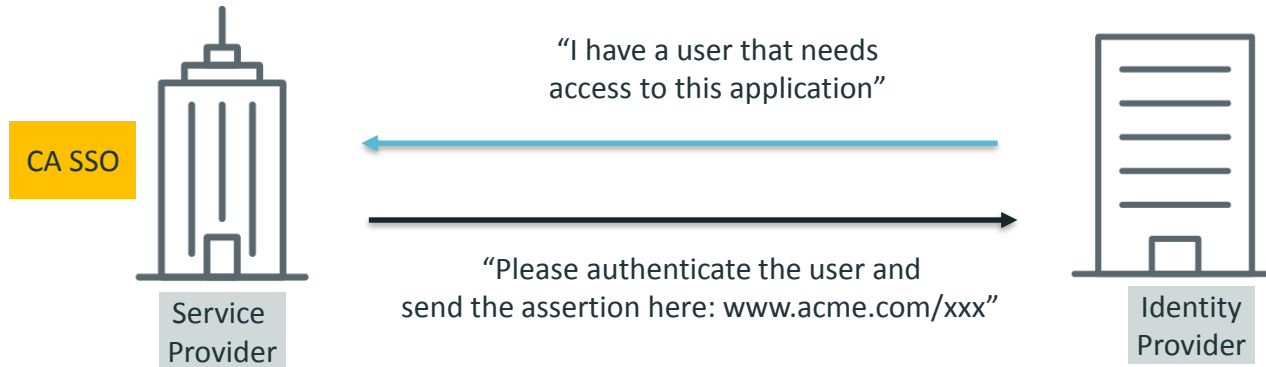
Federation Enhancements – Simpler Configuration

Feature

- Support for Dynamic Authentication

Value

✓ A single configured federation partnership can support different authentications methods and strengths so there are fewer federation partnership configurations to manage.

✓ The Service Provider can achieve higher security posture

"Please authenticate the user with the authentication level I need"

CA SSO

"Ok. SAML assertion reflects required authentication context/strength "

Identity Provider
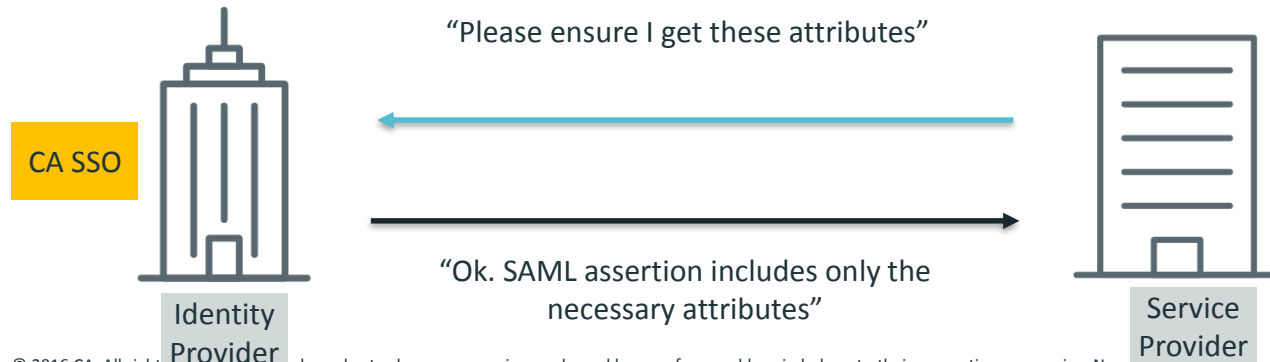
Service Provider

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Federation Enhancements – Improved Usability & Security

Feature

- Attribute Consuming Service Index

Value

- ✓ Specifies the index of an attribute group that the SP-side application requires from the Identity Provider. The SP-side application might need specific user attributes, for example, email and phone number. So the IDP provides just the necessary attributes

"Please ensure I get these attributes"

CA SSO

Identity Provider

"Ok. SAML assertion includes only the necessary attributes"

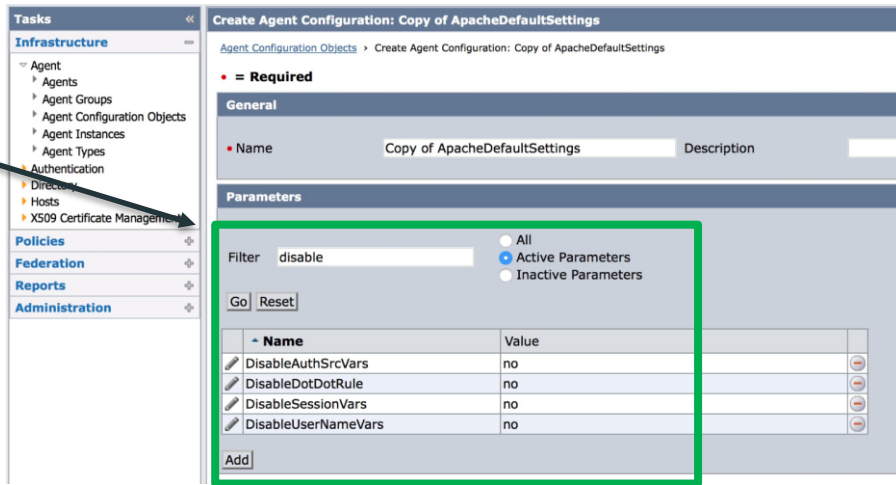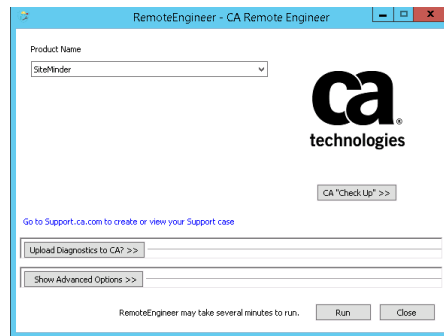Service Provider

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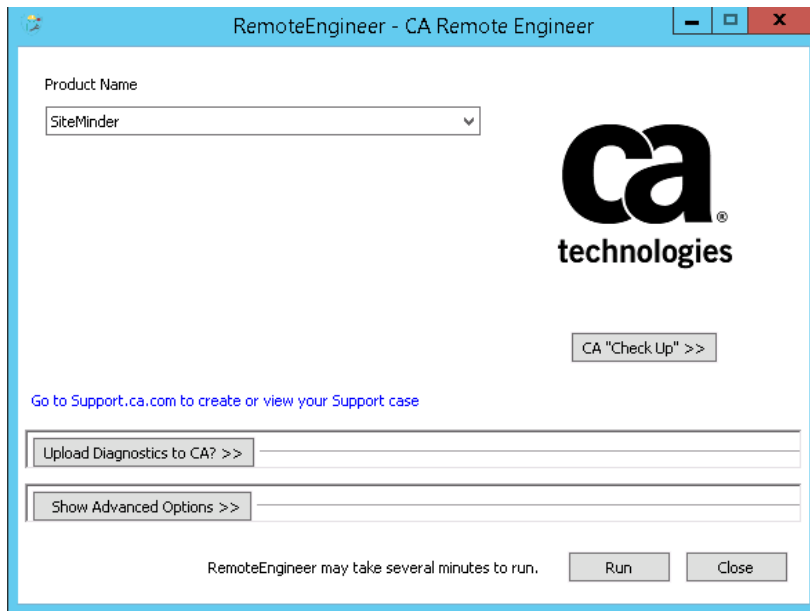# Management Enhancements

Feature

- CA Remote Engineer

- Improved tracing and log rotation

- ACO Search in the Admin UI

Value

- ✓ Accelerated troubleshooting

- ✓ Improved ability to capture critical data for troubleshooting

- ✓ Reduces cost and simplifies management of CA SSO agent configuration

CA Remote Engineer – Common Diagnostics

CA Remote Engineer
Common Diagnostic Framework
- Runs up to 26 System/OS diagnostic commands
- Runs product diagnostics commands
- Gathers Diagnostic Data
- Link to CA Support Site to open issue
- Available for 56 CA Products
- Option to Send Diagnostics to CA

- Example Windows Diagnostic commands →

```
Preparing to execute diagnostic command: cscript scripts\caprodreg.vbs
Preparing to execute diagnostic command: ipconfig /all
Preparing to execute diagnostic command: netstat -a -o -n
Preparing to execute diagnostic command: net file
Preparing to execute diagnostic command: net share
Preparing to execute diagnostic command: cmd /c set
Preparing to execute diagnostic command: systeminfo
```

Platform Enhancements

Session Store

CA SSO Admin UI

CA SSO Policy Server

CA SSO Access Gateway

- ✓ 64 Bit application
- ✓ Improved Performance
- ✓ Red Hat 7
- ✓ Java 1.8

- ✓ 64 bit application
- ✓ Improved Performance
- ✓ Simpler installation and Configuration of Enhanced Session Assurance
- ✓ Improved Session Store algorithm (significant performance boost)
- ✓ Policy Store Integrity Tool
- ✓ Improved system diagnostics
- ✓ Red Hat 7
- ✓ Java 1.8

- ✓ 64 Bit application
- ✓ Improved Performance
- ✓ Safari browser for O365
- ✓ Post preservation flows for Enhanced Session Assurance
- ✓ Red Hat 7
- ✓ Java 1.8

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12.6 Performance Improvement

Policy Server/SDK transactions throughput
- based on a mix of authentication, validation, authorization transactions in ratio 1:3:20

	Windows	RHEL6	RHEL7
FIPS - Compatible	22%	139%	86%
FIPS - Only	9%	115%	65%

Federation transactions throughput across multiple IDP and SP profiles

	Windows	RHEL6	RHEL7
Federation	14%	26%	26%

Windows platform comparison – SSO 12.6 vs SSO 12.52SP2 on Windows 2012R2
Linux RHEL6 platform comparison – SSO 12.6 vs SSO 12.52SP1 on RHEL 6
Linux RHEL7 platform comparison – SSO 12.6 on RHEL7 vs SSO 12.51SP1 on RHEL6

Important Considerations

- Any custom code must be complied for 64 bit environment

- Features not <u>yet</u> available
  - RSA SecurID auth with Red Hat 7 Policy Server – RSA did not support RH7
    - Radius can be used & we will add support for SecurID at earliest point possible
  - CA APM - test planned for CA SSO 12.6 with *CA APM for CA SSO* r13.0

- Global Delivery Packaged Work Product Roadmap
  - https://support.ca.com/phpdocs/7/5262/5262_pkgd_work_product_platform_roadmap.pdf

Roadmap

Certification of ...	on Platform ...	with Single Sign-On	Roadmap Date
Advanced Certificate Authentication for CA Single Sign-On	Windows 2012 R2	R12.6	30-Nov-2016 Delivered on 30-Nov-2016
Advanced Certificate Authentication for CA Single Sign-On	Red Hat Enterprise Linux 6	R12.6	23-Dec-2016

Other important information in the release notes

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CA SSO Upgrade Offerings Summary

UPGRADE SUPPORT

- Upgrade Strategy Assessment Service
- CA Architect- Trusted Advisor
- CA Staff Augmentation

MANAGED PROJECT

- Design and Initial Environment
- Turnkey Upgrade

Lowers the risk of project failure

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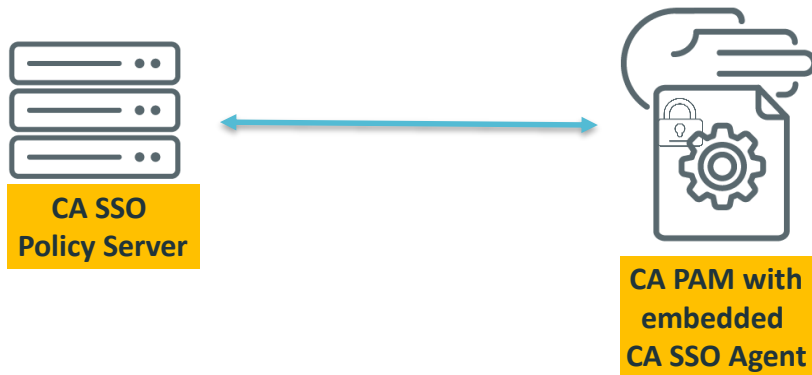# *New* Advanced Core Administration 300 Course

- 2 Day Instructor Led Training – on site

- Technical configurations, advanced use cases and best practices
  - Policy Server internals
  - Sizing and tuning
  - Monitoring
  - Policy design
  - Advanced SAML
  - Securing sessions

- For Security Application Administrators, System Administrators, Application Administrators

http://marketplace.ca.com/education/04img30041.html

CA SSO Integrated with CA PAM

- Introduced with CA PAM 2.7.1

CA SSO Policy Server

CA PAM with embedded CA SSO Agent

CA Single Sign-On Configuration

Policy Servers (format: IPv4_address or IPv4_address:port or IPv6_address or [IPv6_address]:port)	XX.XXX.XX.XX
Policy Server User Name	SSO
Policy Server Password	••••••••
Host Configuration Object	DefaultHostSettings
Agent Configuration Object	agentObject
Trusted Host Name	capam90
FIPS	◉ COMPAT ○ MIGRATE ○ ONLY
Currently enabled	Disable Save Reset Restart Apache
	Download Form Download Log

Some operations can be time consuming. Please wait until the process completes.

A New Optional Hybrid Model
CA SSO and CA Identity Service
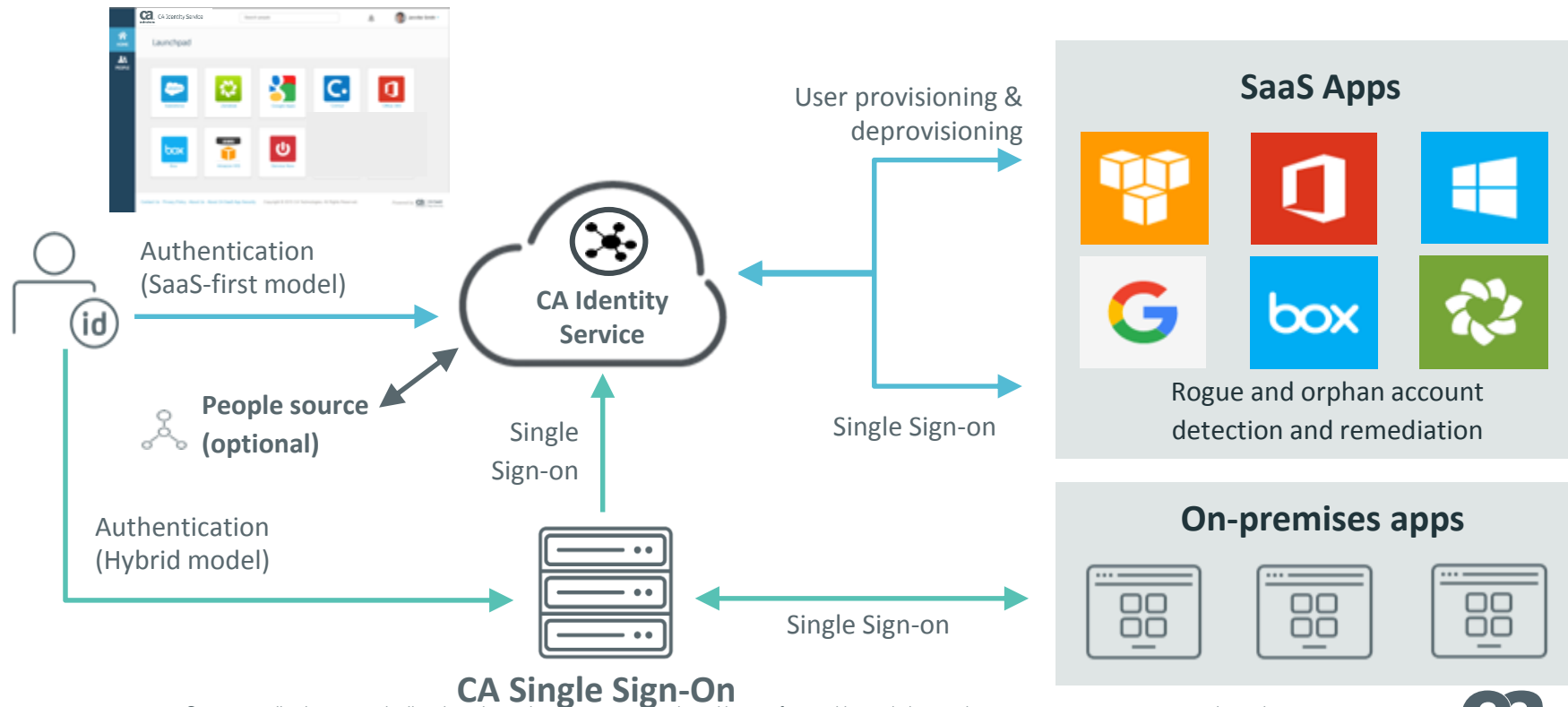
SaaS Apps

User provisioning &
deprovisioning

Authentication
(SaaS-first model)

**CA Identity
Service**

Single Sign-on

Rogue and orphan account
detection and remediation

**People source
(optional)**

Single
Sign-on

On-premises apps

Authentication
(Hybrid model)

Single Sign-on

CA Single Sign-On

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A New Optional Hybrid Model
CA SSO and CA Identity Service
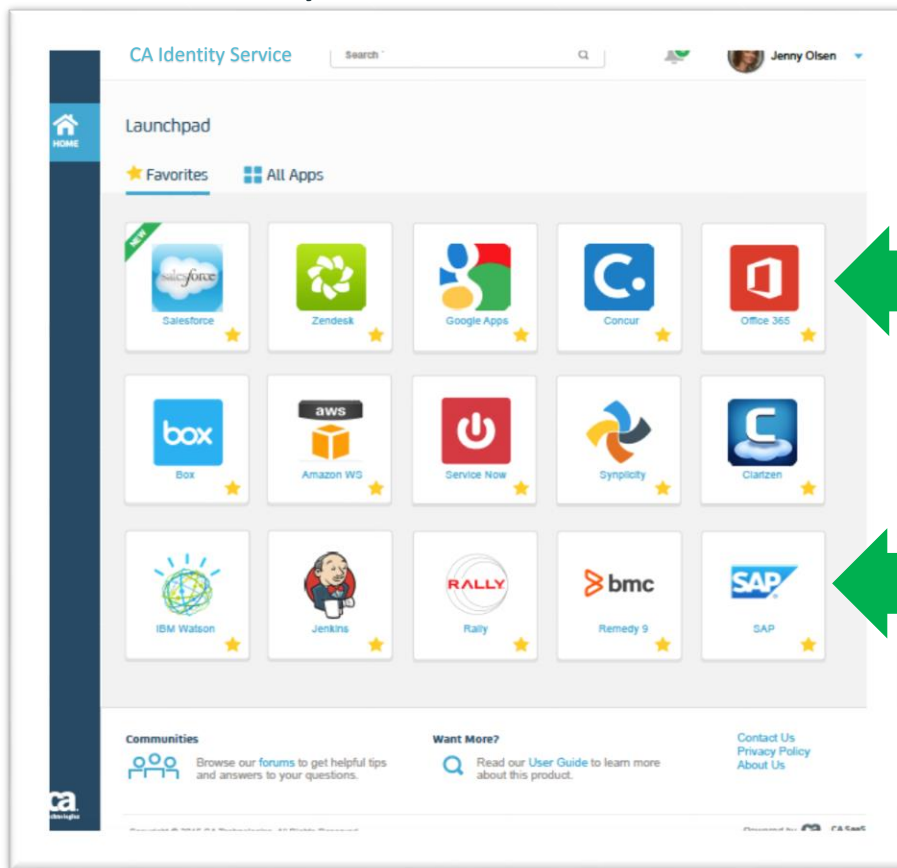
The Launchpad is dynamically populated at time of login based upon what the end user has access to

Access to on-premise CA SSO protected applications is available - true hybrid support

Validate.Ca.Com

- REST interface

- OpenID.Connect

- Enhanced support for Ajax-based Web application clients

- Authentication chaining for IWA fall back to forms authentication
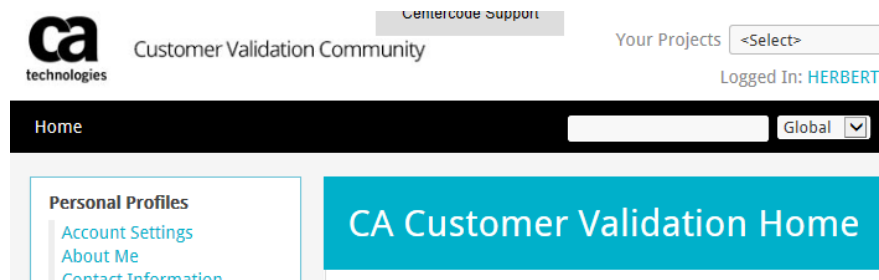
Market Validation: KuppingerCole

Overall Leader
Access Management and Federation

March 2016

Product Leader
Access Management and Federation

March 2016

Innovation Leader
Access Management and Federation

March 2016

Market Leader
Access Management and Federation

March 2016

CA.com link to March 2016 Kuppinger Cole Access Management & Federation Compass Report

Q&A

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Herb Mehlhorn

Advisor, Product Management