

ESUP-DAYS #23
APEREO PARIS 2017

APEREO CAS STATE OF THE PROJECT

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DECIDED TO NOT BANKRUPT CHRISTIAN COUSQUER!

**CETTE PRÉSENTATION EST EN
ANGLAIS!**

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BEFORE WE BEGIN...

YES SIR. YES MA'AM!

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HISTORY

HISTORY

CAS ON GITHUB

▶ 2179 Stars

▶ 1358 Forks

The screenshot shows the GitHub repository page for 'apereo / cas'. At the top, the repository name is displayed with navigation icons for 'Code', 'Issues' (38), 'Pull requests' (2), 'Projects' (1), 'Pulse', 'Graphs', and 'Settings'. On the right side, there are buttons for 'Unwatch' (322), 'Unstar' (2,179), and 'Fork' (1,358). Below the repository name, the description reads 'Apereo CAS - Enterprise Single Sign On for all' followed by the URL 'https://apereo.github.io/cas/' and an 'Edit' button. A statistics bar at the bottom shows: 7,542 commits, 11 branches, 130 releases, 94 contributors, Apache-2.0 license, and 1.24 GB size. The footer contains the 'apereo' logo on the left and the 'ESUP portail' logo on the right.

apereo / cas

Unwatch 322 Unstar 2,179 Fork 1,358

Code Issues 38 Pull requests 2 Projects 1 Pulse Graphs Settings

Apereo CAS - Enterprise Single Sign On for all <https://apereo.github.io/cas/> Edit

7,542 commits 11 branches 130 releases 94 contributors Apache-2.0 1.24 GB

apereo ESUP portail

PREVIOUSLY ON CAS

- ▶ CAS Releases v4.1.10, v4.2.7
- ▶ CAS 3.x? You are **DEAD** to me.
 - ▶ *Since 2015 really.*
- ▶ <https://apereo.github.io/cas/developer/Maintenance-Policy.html>

HISTORY

NEW PMC MEMBERS



Dmitriy Kopylenko

 [@dima767](#)



Daniel Frett

 [@frett](#)



Page Contents

- [Enterprise Single Sign-On](#)
- [Getting Started](#)
- [Demo](#)
- [Development](#)

Enterprise Single Sign-On



- Java (Spring Webflow/Spring Boot) server component
- Pluggable authentication support (LDAP, Database, X.509, MFA)
- Support for multiple protocols (CAS, SAML, OAuth, OpenID, OIDC)
- Cross-platform client support (Java, .Net, PHP, Perl, Apache, etc)
- Integrates with uPortal, Liferay, BlueSocket, Moodle, Google Apps, etc

CAS provides a friendly open source community that actively supports and contributes to the project. While the project is rooted in higher-ed open source, it has grown to an international audience spanning Fortune 500 companies and small special-purpose installations.

Getting Started

We recommend reading the following documentation in order to plan and execute a CAS deployment.

- [Architecture](#)
- [Installation Requirements](#)
- [Overlay Installation](#)
- [Authentication](#)
- [Attribute Release](#)

Demo

<https://apereo.github.io/cas>

The CAS web application is available for demo at <https://jasigcas.herokuapp.com/cas>

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- [Protocols](#)
- [Integration](#)
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<https://apereo.github.io>

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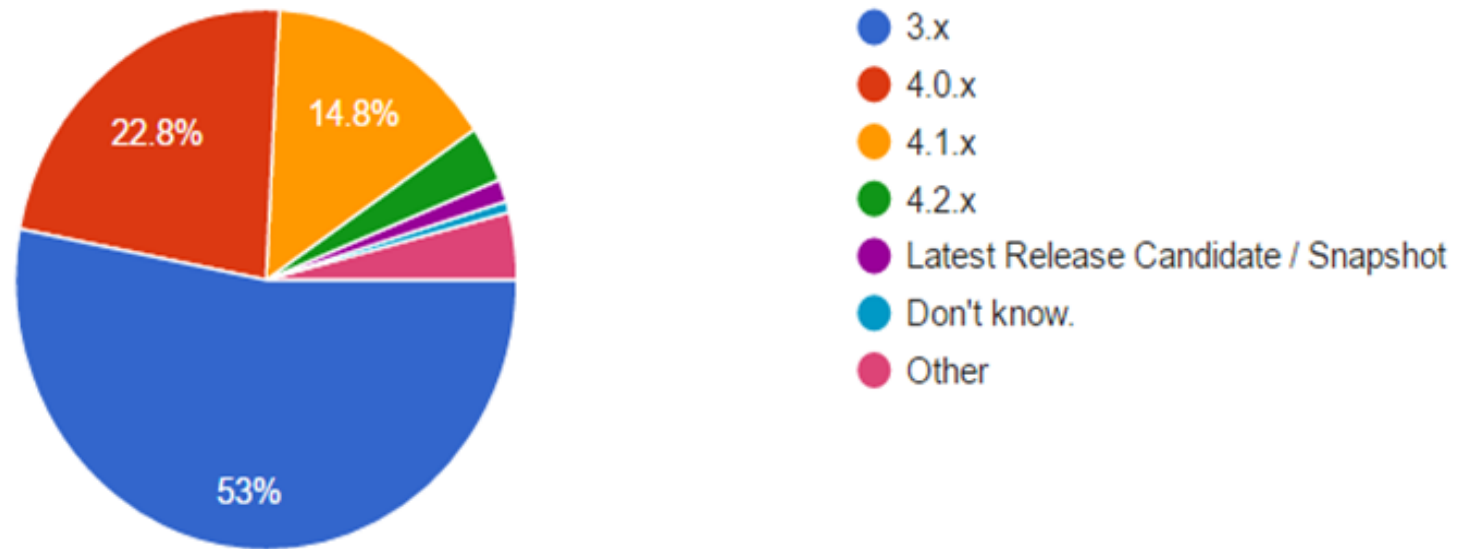
<https://gitter.im/apereo/cas>

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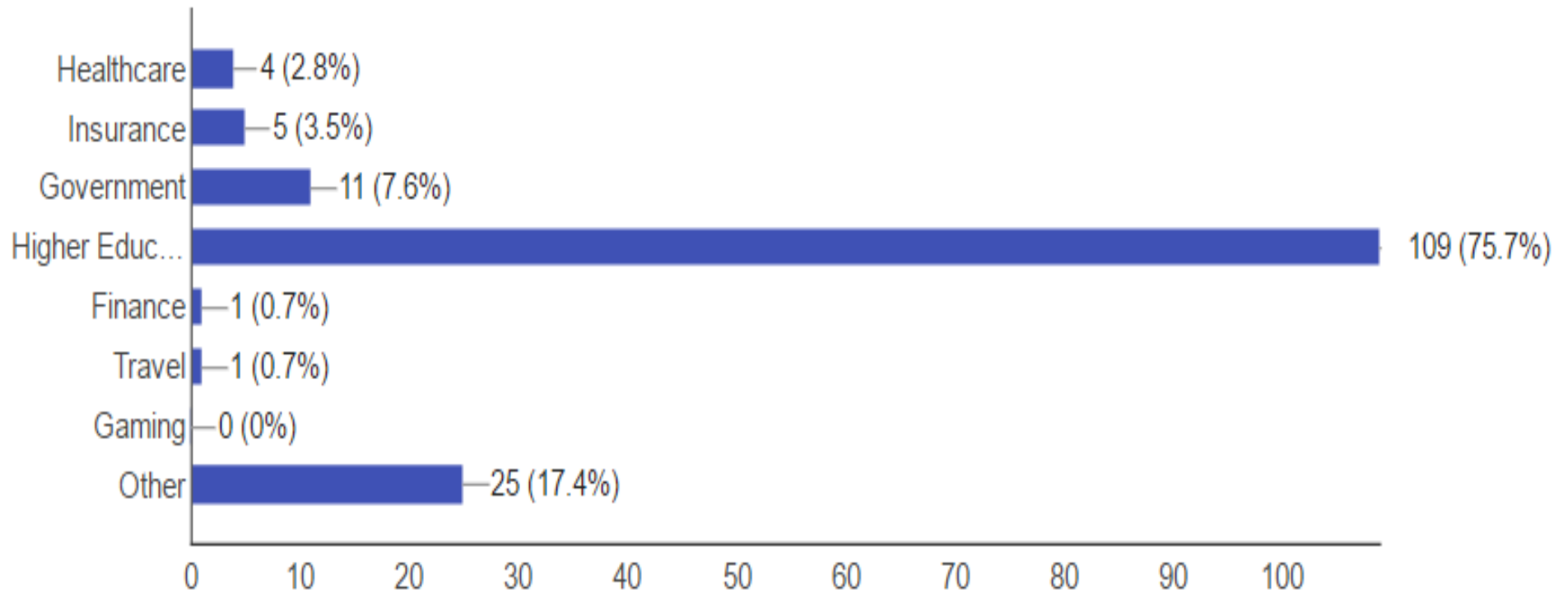
CAS SURVEY

REMEMBER HOW I SAID CAS 3.X IS DEAD?!

Which CAS server version are you using?



Which industry is your CAS deployment in?



THE MAJORITY OF YOU

- ▶ 78% with CAS 8-10+ years
- ▶ 92% AuthN with LDAP
- ▶ 47% handle 10K+ users

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**THANK YOU FOR THE KIND
WORDS.**

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BECAUSE YOUR LIFE MATTERS.

CAS 5.X

PREVIOUSLY ON CAS



PLEASE

MAKE IT STOP

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**LET'S MAKE CAS GREAT...
AGAIN!**

Express Intent

```
<dependency>  
  <groupId>org.apereo.cas</groupId>  
  <artifactId>cas-server-support-saml</artifactId>  
  <version>${cas.version}</version>  
</dependency>
```

Optionally, Configure.

```
# Indicates the SAML response issuer  
# cas.saml.response.issuer=localhost  
#  
# Indicates the skew allowance which controls the issue instant of the SAML response  
# cas.saml.response.skewAllowance=0  
#  
# Indicates the default namespace used for SAML attributes  
# cas.saml.attribute.namespace=http://www.ja-sig.org/products/cas/
```

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THAT'S IT.

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DIFFERENCE IN PHILOSOPHY AND VISION.

BUILD PRODUCTS.
NOT PLATFORMS.

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THE GOOD STUFF.

CAS 5.X FEATURES

ABOUT 150+ MODULES

- ▶ OpenID Connect
- ▶ SAML2 IdP
- ▶ Risk-based Adaptive AuthN
- ▶ Multifactor AuthN
 - ▶ Duo Security, GAuth, YubiKey,...
- ▶ Stateless JWTs
- ▶ Administrative UIs
- ▶ Configuration Management
 - ▶ Git, Vault, MongoDB, Hot Reloads
- ▶ SAML2 SP Integrations
 - ▶ *InCommon, DropBox, etc*
- ▶ Password Management
- ▶ **More....!**

Login






Username:

Password:

LOGIN

For security reasons, please Log Out and Exit your web browser when you are done accessing services that require authentication!

Links to CAS Resources

-  [Wiki](#)
-  [Issue Tracker](#)
-  [Mailing Lists](#)

CAS Dashboard

Status	Auto Configuration	Beans	Endpoint Mappings	Configuration Properties
Thread Dump	Environment	Health	Info	Metrics
Statistics Panel	Configuration Panel	SSO Sessions		

Configuration Server


Default Profile	Native Profile
-----------------	----------------


Server Functions

 Reboot	 Refresh	 Shutdown
--	---	--

SSO Sessions Report

 **1**
Total Active Principals

 **0**
Usage Count Sessions

 **1**
Total SSO Sessions

Remove All Sessions

All Proxied Non-Proxyed

Show 10 entries

Search:

	Principal	Ticket Granting Ticket	Authentication Date	Usage Count	
-	casuser	TGT-1-gFRNgydnXyibNdKe3SHdalsfxknIVjgw1k...	2016-05-24T06:17:18Z	0	Destroy

Ticket Granting Ticket: TGT-1-gFRNgydnXyibNdKe3SHdalsfxknIVjgw1k7oWnSY0ZmilhymKZ-cas01.example.org

Principal Attributes:

uid	uid
cn	commonName
affiliation	groupMembership
displayName	displayName

Authenticated Services:

Showing 1 to 1 of 1 entries

Previous **1** Next

Refresh

Statistics View

Ticket Statistics

Unexpired TGTs

1

Unexpired STs

0

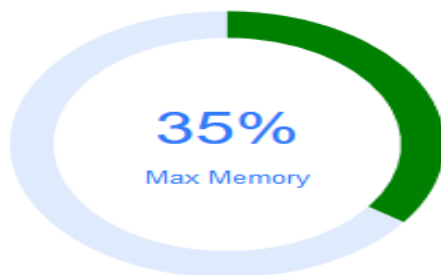
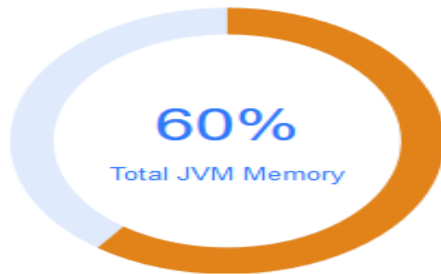
Expired TGTs

0

Expired STs

0

JVM Server Statistics





Server Info

Property	Value
Server	mmoayyed.unicon.net fe80:0:0:0:d1a5:54dc:f707:199b%10
CAS Ticket Suffix	cas01.example.org
Server Start Time	2016-05-24T13:15:52.513Z
Uptime	0 days 0 hours 2 minutes 25 seconds 751 milliseconds
Memory	501.5331802368164 MB free 1259.5 MB total
Maximum Memory	3609.0 MB
Available Processors	8

⚙️ View Configuration

Show entries

Search:

Key 	Value 
applicationConfig.accept.authn.users	casuser::Mellon
applicationConfig.attributeRepository	stubAttributeRepository
applicationConfig.auditTrailManager	slf4jAuditTrailManager
applicationConfig.authenticationPolicy	anyAuthenticationPolicy
applicationConfig.authenticationPolicyFactory	acceptAnyAuthenticationPolicyFactory
applicationConfig.authenticationThrottle	neverThrottle
applicationConfig.authenticationTransactionManager	defaultAuthenticationTransactionManager
applicationConfig.cas.attrs.resolve.affiliation	groupMembership
applicationConfig.cas.attrs.resolve.cn	commonName
applicationConfig.cas.attrs.resolve.displayName	displayName

Showing 1 to 10 of 248 entries




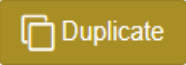




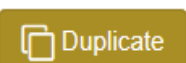




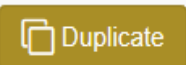

Previous [1](#) [2](#) [3](#) [4](#) [5](#) ... [25](#) Next

Refresh

Manage Services

Search by Service ID, Name or Description



Service Name	Service ID	Service Description			
 Apereo 	^https://www.apereo.org	Apereo foundation sample service	 Edit	 Duplicate	 Delete
 Services Management Web Application 	http://localhost:8080/cas-management/callback	Services Management Web Application	 Edit	 Duplicate	 Delete
 HTTPS and IMAPS 	^(https imaps)://.*	This service definition authorized all application urls ...	 Edit	 Duplicate	 Delete
<p>Full Description This service definition authorized all application urls that support HTTPS and IMAPS protocols.</p> <p>Proxy Policy REFUSE</p> <p>Attribute Policy Option NONE</p> <p>Release Credential X</p> <p>Release Proxy ID X</p>					

 Add New Service

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IS IT STABLE? IS IT SAFE?

**AS MUCH AS YOU CAN REPORT
BACK!**

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CAS FUTURE

PROJECT ROADMAP

PROJECT ROADMAP

- ▶ **CAS 5.0.x** release
 - ▶ *Patch releases every 30 days*

- ▶ **CAS 5.1.0** work in progress
 - ▶ *Available by Open Apereo 2017*

- ▶ Keep an eye on the blog: <https://apereo.github.io>

CAS 5.1.X

- ▶ **Documentation. Documentation. Documentation**
- ▶ SAML2 ECP
- ▶ Microsoft Azure Multifactor AuthN
- ▶ MongoDB, Redis Ticket Registry
- ▶ OpenID Connect Dynamic Registration
- ▶ SCIM provisioning
- ▶ LinkedIn Delegated AuthN
- ▶ *Attribute Consent*
- ▶ *WS-* Protocol Support*

CAS FUTURE

BUT, CAN IT...? IS IT POSSIBLE...?

Dear <INSERT-NAME>,

All things are possible in open source.

4000 hours.

Regards,
The CAS Project



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BEFORE YOU ASK QUESTIONS:

YES SIR. YES MA'AM!



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