

Canary User Conference

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Keeping Canary Secure



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How does Canary manage its security?

At Canary we care deeply about the security of your systems and data. We take a comprehensive approach to prevent bad actors from unauthorized access to your systems and data as well as our own internal management and security of customer data entrusted to us.

The Identity Services

- Authentication
- Authorization
- API Tokens
- Tag Security
- File Security (new in v25.3.1)





What can the Identity service do for you?

Before Identity (v23-)

- Each Canary service managed its own authorization
- Tag Security was managed by Views
- Only supported Windows AD for user authentication and SAML (Axiom only)

After Identity (v24+)

- Identity manages authorization for ALL Canary services
- More granular control over user authorization (especially in Axiom)
- Tag Security management is migrated to Identity
- Supports Windows AD, Kerberos, OpenID Connect for ALL Canary clients (better SSO integration)

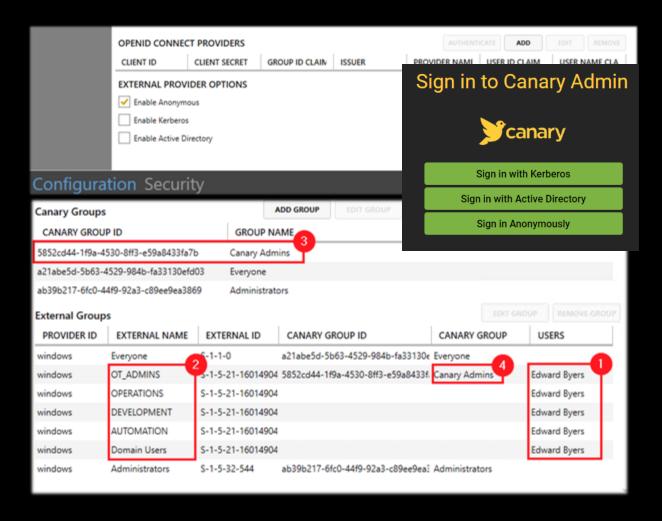


Authentication

Canary supports Windows AD, Kerberos, and OpenID Connect (i.e. Entra ID, Okta, Google and SSO integration when using Kerberos or OIDC.

How it works...

- An internal "Canary" account is generated and mapped to the external account coming from the IDP when the user logs in
- 2. All external groups the user is a member of are discovered
- 3. Internal "Canary" groups can be created.
- 4. Internal "Canary" groups are then mapped to the external group



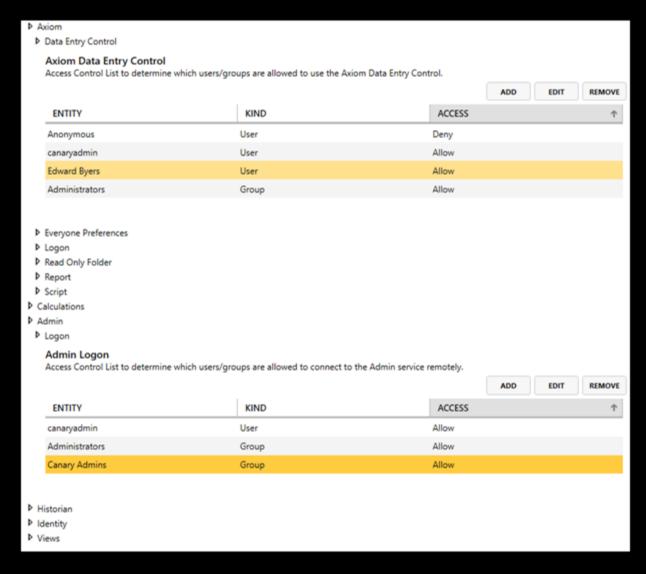


Authorization

Once authenticated, users are allowed or denied access to certain features within the Canary system.

Key Identity Functions

- Manages ALL of Canary's access control lists.
- Controls what a user is permitted to do within Canary.
- Authorizes other remote Canary services
- Utilizes "Canary" users/groups
- Provides granular control over what a user has permission to do.





API Tokens

API tokens are unique security credentials, typically alphanumeric strings, that function as a form of authentication for accessing Application Programming Interfaces (APIs). They require clients to prove their identity and obtain permission to interact with an API.

API tokens are created and managed within the Identity Service and are linked to internal "Canary" user which, in turn, can be linked to an external user or a standalone "Canary" user

Key Functions

- Read/Write API
- Adding a Remote Historian to Views
- Restricting write access from remote Collectors
- Authenticating with the ODBC and Excel Add-In Clients

Key Benefits

- Obscure credentials
- Can be configured to expire or deleted
- Simplifies the process of using the API to read/write data

API Tokens				ADD EDIT	REMOVE INFO
TOKEN	COPY	DESCRIPTION	EXPIRATION DATE	USER	STATE
0221f183-7c70-4965-a143-8	2 0	Remote SaF Token	Never	Remote SaF	Allow
11111111-2222-3333-4444-	2 0	API Token created for the Anonymous Canary User account.	Never	Anonymous	Allow
55310382-5709-4528-a054-	2 0	Default token for the Installer's migration process.	Never	Installer Migration Service	Allow
5c42caf6-b977-42c2-a05c-e	2 0	Power Bi	Never	canaryadmin	Allow
e8e830a0-5ba9-4d69-8339-	2 0	Default token for Axiom Reporting.	Never	Axiom Report Service Acc	Allow

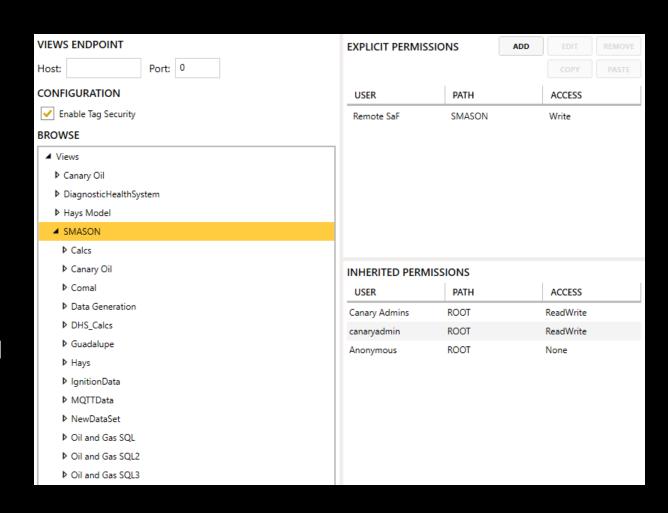


Tag Level Security

Prior to Version 24 tag level security resided in Views. Now it is managed by the Identify Service.

Key Features

- When enabled, controls user/group access to tag data.
- Inherited permissions from previous levels.
- Permissions can be assigned at the tag level.
- Explicit permissions override inherited ones.
- Controls both Read and Write access.
- Requires Remote Collectors to be configured with an API token when Tag Security is enabled
- The Identity service can connect to a remote Views service to configure its Tag Security

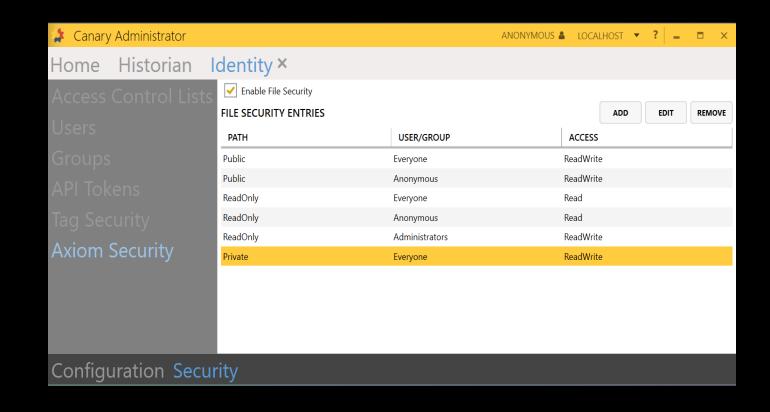




File Security

A new File Security feature has been added in v25.3.1. Prior to this release users need to apply file/folder permissions through Windows to restrict access to Axiom applications

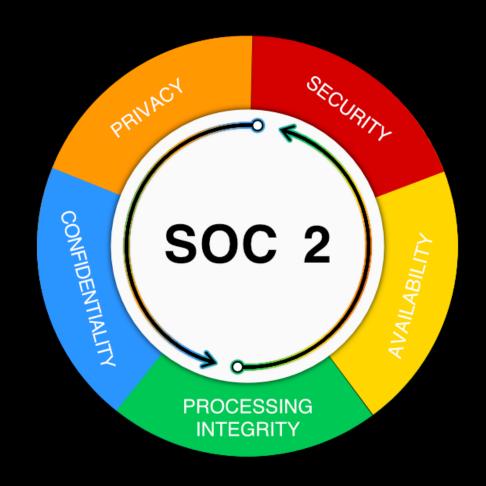
- To support our strategy to become OS agnostic, we develop a new way of accomplishing file security from within Canary.
- Like Tag Security, Canary users/groups can be given read/write access to specific folders which are then inherited to subfolders.





SOC 2- Type 2 Compliance Building Trust Through Security at Canary Labs

- SOC 2 stands for System and Organization Controls 2.
- Developed by the AICPA, it evaluates how companies manage customer data based on five Trust Services Criteria:
 - Security
 - Privacy
 - Confidentiality
 - Processing Integrity
 - Availability





SOC 2 - Type 1 vs Type 2

Canary Labs is SOC 2 Type 2 compliant, meaning our controls are well-designed and consistently followed.



Type 1

Evaluates controls at a specific point in time.

Type 2

Evaluates the operational effectiveness of those controls over a period of time.



Why Does SOC 2 Type 2 Matter?

Data breaches affected over 1.35 billion people last year.

- Customers deserve proof that their data is secure.
- SOC 2 Type 2 provides third-party validation that Canary Labs:
 - ✓ Protects sensitive data
 - ✓ Detects and responds to threats
 - ✓ Maintains system availability and integrity





Benefits to Canary Customers



Trust & Transparency

Customers know their data is handled securely.



Risk Reduction

Minimizes chances of data loss or unauthorized access.



Business Continuity

Ensures systems are reliable and resilient.



Competitive Advantage

Helps customers meet their own compliance needs.



How Canary Labs Achieved SOC 2 Type 2

- Implemented robust security policies and procedures
- Continuous monitoring and auditing
- Independent third-party assessment
- Commitment to ongoing improvement





Real-World Impact

Customers in critical industries (e.g., manufacturing, energy, infrastructure) rely on Canary's software for real-time data.

SOC 2 Compliance Ensures

- Operational reliability
- Secure data transmission
- Confidentiality of sensitive process data





What This Means for You!

Peace of mind knowing Canary Labs:

- Meets industry standards
- Is committed to security
- Supports your own compliance efforts





Final Thoughts

- SOC 2 Type 2 isn't just a certification—it's a promise.
- Canary Labs is dedicated to protecting your data, earning your trust, and supporting your success.
- Canary's SOC 2 Type 2 report is available at our trust center, https://trust.canarylabs.com





Thank You



Steve Mason



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Questions

