Version 24

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Largest Development Effort

Platform

Security

Scalability

Customer Requests

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Platform: First step to get to Linux

- Edge devices, containers

- Significant hosting cost savings

- Challenge due to tight Windows integrations
    - Windows AD authentication
    - Windows API calls to control when flushing to disk
    - Windows Memory Mapping

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Platform: Underlying Technology

- COM classes and COM data types removed
  - Only COM remaining is OPC DA logger
- .Net Classic code migrated to .Net Core (.Net 8)
- Windows Communication Foundation (WCF) services migrated to Google Remote Procedure Call (gRPC)

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Platform: Licensing

- Licenses can be returned to Canary Web Portal for transferring to another machine

- Automatic updating of license when either license service or admin client is connected to internet

- Ability to distinguish between Demo, Subscription and Perpetual licenses

- Demo and Subscription based on expiration date instead of number of days

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Platform: Views

- ## Breaking Change
  - .Net Integrations broken due to change to gRPC endpoints away from WCF
  - Impacted vendors such as Flow
- ## WebAPI calls backward compliant
- ## Additional parameters to various functions

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Platform: Deprecated software

- **TrendLink and OPC HDA incompatible with v24**
  - Utilized COM/DCOM
  - Outside of our security model
- **Mirror service no longer supported**
  - Data pulled from source instead of being pushed
  - More and more restrictions into OT networks

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Security: Identity

- **New Identity Service**
  - Oauth 2.0/OpenID Connect
  - Easier SSO implementation
    - SAML still supported
  - Centralized authentication
  - All API access thru tokens
  - More granularity of permissions/roles

- **All anonymous ports removed**
  - Maintained the ability to still have an anonymous user

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Scalability: Store and Forward

- Sender/Receiver services replaced but still available for older collectors and custom integrations

- Proxy layer improvements

- Higher throughput be eliminating disk I/O

- Dynamic dataset creation

- Improved troubleshooting of data streams

- Ability to pause a stream

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Scalability: Calcs and Events

- **Single Store and Forward Session**
  - Previously each calculation generated its own sender session
  - Resulted in thousands of sessions pushed thru proxy layers when calcs run at site
- **Improved delete old data functionality when editing expressions**

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Customer Requests: Axiom

- FINALLY! Copy/paste controls between screens or even applications

- Clone screen within an application

- Read Only mode thru URL parameters

- Better lead-in workflow

- State drawing on TrendGraph

- Support for Interpolated aggregate on TrendGraph

- Multi-page automated reports

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Customer Requests: What's Next

- ## Multi-tier Batch/Events

- ## Axiom chart/application security

- ## Calculation Custom Functions
  - Extended calculations by implementing a plugin interface
  - Steam Calculations first plugin
  - Ability for user to create their own assemblies with their own functions
  - Looking to be able to wrap python script

- ## Calculation improved asset evaluation

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Founded in 1985 with a focus on developing solutions from the end user's perspective. Canary is dedicated to providing engineers with a Time Series Database built for Industrial Automation.

We have achieved more than 20,000 installations in over 70 countries. Our Clients represent private, public, and government entities in all major industries. Learn more at canarylabs.com

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