

SAS Roadmap

Heino Rust, Systemarchitekt



Agenda

- SAS 9.4 M9 und Standard Support für Releases bis SAS 9.4 M6 einschließlich
- SAS Viya 3.5 Update
- SAS Viya Updates
- SAS GitHub Repository
 - Umfang und Support der dort bereit gestellten Projekte, Portal Framework

DISCLAIMER: The release date and all information in this presentation are subject to change until SAS Software referred to is released.

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SAS 9.4

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SAS 9: Together we Succeed

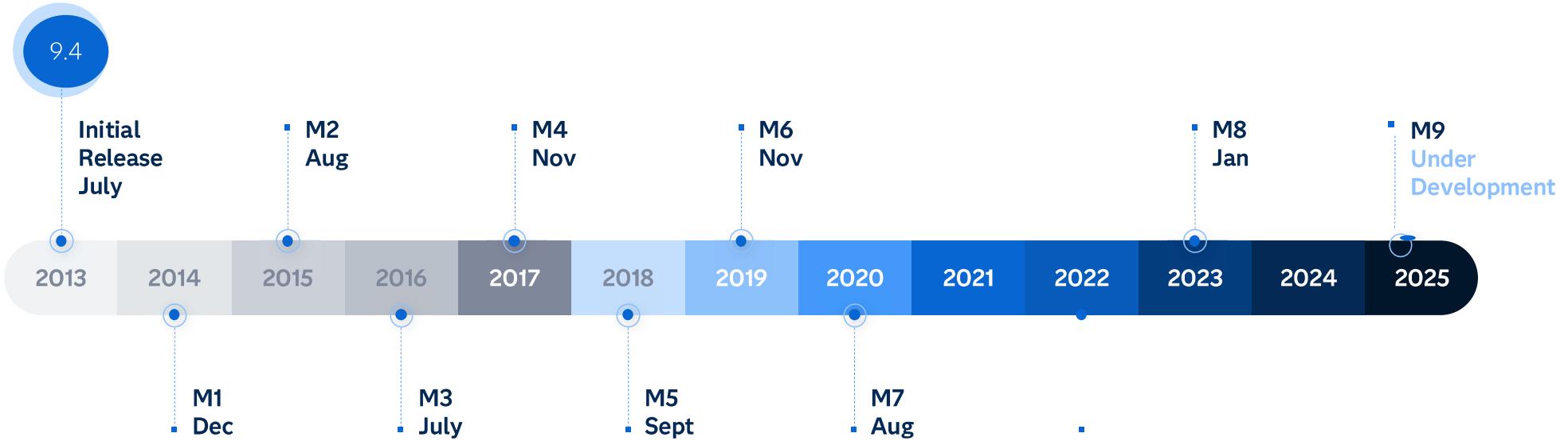
SAS is proud to serve some 15 thousand Customers across the globe who operate some 40 thousand SAS 9 deployments.

SAS Customers make SAS 9 better by using the software in new and innovative ways, sharing experiences, suggesting enhancements and reporting issues.

It is the pleasure of SAS to serve each and every Customer and it is each and every Customer that provides SAS with the opportunity to excel.

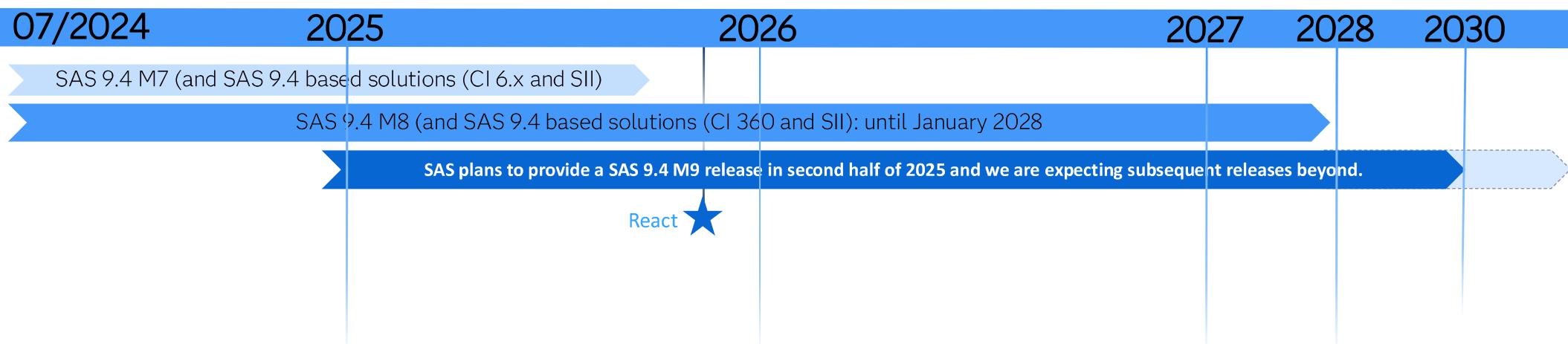


9.4 Release Timeline



SAS 9 Support Roadmap

SAS D Kampagne für Kunden mit
SAS 9.4 Installationen vor SAS 9.4M7



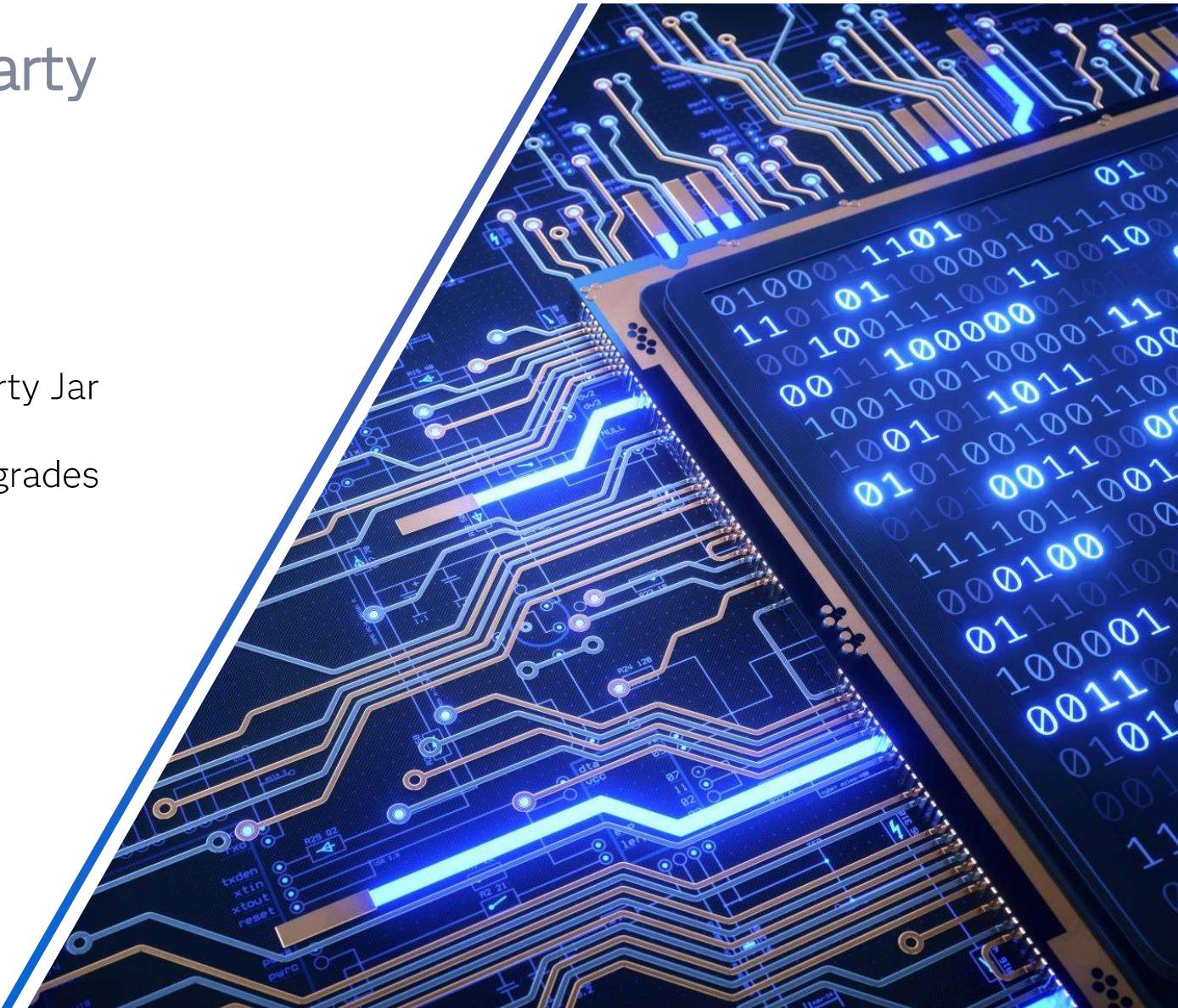
- SAS Viya is the future direction with all new development to realize our customers' future needs and enable innovation
- Proven SAS 9 technology, SAS Enterprise Guide, has been modified to work with SAS Viya
- SAS 9 will be supported and security updates applied
- In some cases, SAS 9 cannot be updated because it is based on outdated technology standards

SAS 9.4M9 Supported Operating Environments

Linux	IBM MVS	Windows	IBM AIX	Solaris SPARC and X86
Red Hat <ul style="list-style-type: none">• RHEL 8.10+• RHEL 9.1+	<ul style="list-style-type: none">• z/OS Version 2.6 or Later	<ul style="list-style-type: none">• Windows Server 2016• Windows Server 2019• Windows Server 2022	AIX 7.2 with TL5 or later	
Oracle <ul style="list-style-type: none">• Oracle Linux 8.10+• Oracle Linux 9.1+		Clients <ul style="list-style-type: none">• Windows 10• Windows 11		
SUSE Linux Enterprise Server 15 and later within SUSE 15				
*Support for Red Hat and Oracle Linux 7 removed		*Windows Server 2012 and 2012R2 removed	AIX 7.1 removed	*All Support for Solaris SPARC and X86 removed. Java 21 is not available on Solaris.

SAS 9.4M9 Third Party Security Upgrades

- SAS 9.4 TLS Enhancements
- Multi-factor Authentication capabilities
- Third-Party Security Fixes
- Greater than 8,500 Third Party Jar changes
- Hundreds of Third-Party Upgrades
 - Spring 5 to 6
 - Central Authentication Service 6
 - Postgres
 - Crypto-J
 - Active MQ
 - Apache Web Server
 - Tomcat
 - JackRabbit
 - Atomikos
 - Jgroups
 - Visual Studio
 - Jackson
 - HTTPClient
 - ...



SAS Viya 3.5 Support Extension

<https://support.sas.com/en/technical-support/services-policies/sas-viya-3x.html#extension>

Viya 3.5

Limited Support

- The following releases move into Limited Support
 - SAS Viya 3.4 and earlier releases move to limited support in **February 2025**.
 - SAS Viya 3.5 revisions earlier than 24w44 move to limited support on **August 1st, 2025**.
Note: There may be a subset of SAS Viya 3.5 applications and/or offerings with well-communicated support schedules that will still convert to Limited Support in February 2025. This part of the policy has not been finalized.
- Support for the below Operating Systems will be dropped
 - All Windows versions (Limited Support in Feb 2025)
 - RHEL 7.8 and below
 - RHEL 7.9 will only be supported if the customer is on [Red Hat Enterprise Linux 7 Extended Lifecycle Support Maintenance Add-on](#)
 - Power PC
 - Oracle Linux 7

Viya 3.5

Extended Standard Support

- Standard Support extended till October 2027.

- Viya 3.5 revision 24w44 and above.

Note: Multiple hops may be required to update from older releases to revision 24w44.

- Supported Operating systems

- RHEL 7.9 (only if the customer has [Red Hat Enterprise Linux 7 Extended Lifecycle Support Maintenance Add-on](#))
 - RHEL 8
 - Oracle Linux 8
 - SUSE Linux 12 SP 5

Viya 3.5

Additional Support Details

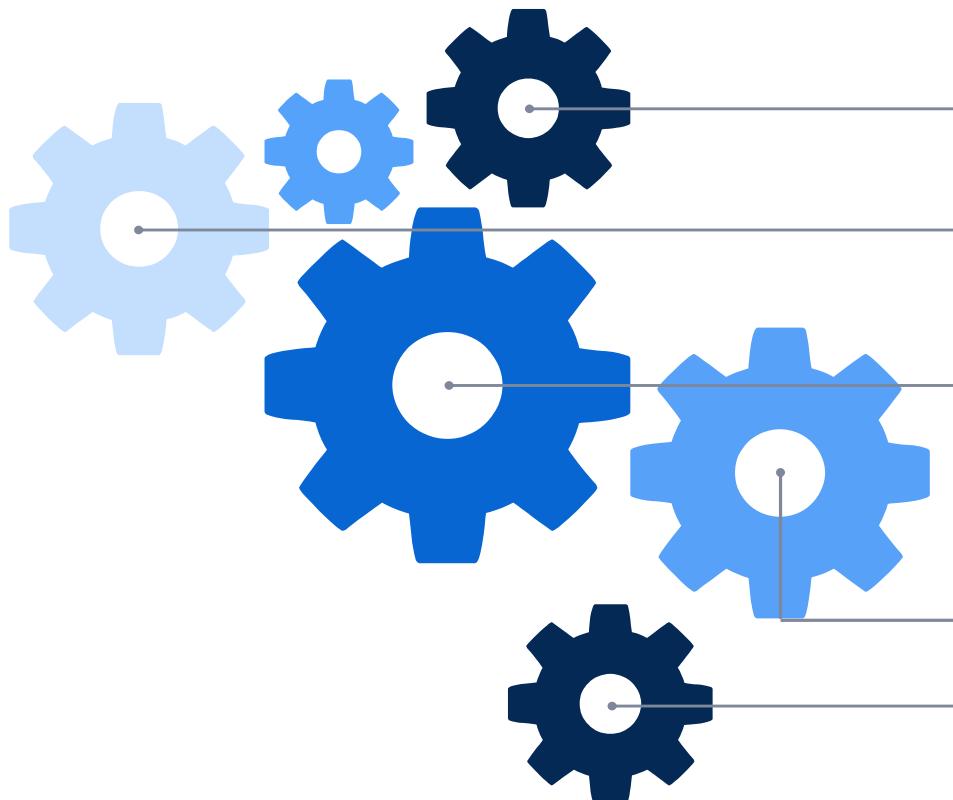
- Evaluating the Upgrade in Place from RHEL 7.9 to RHEL 8
 - Based on Viya 3.5 24w44 release.
 - Confirmation of support is expected in early Q1 2025.
- Viya 3.5 support for FIPS
 - Supported on RHEL 7
 - RHEL 8 support is on the roadmap. The timeline is not established yet.

SAS Viya on Kubernetes

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SAS Studio Updates



Work continues to improve migration functionality

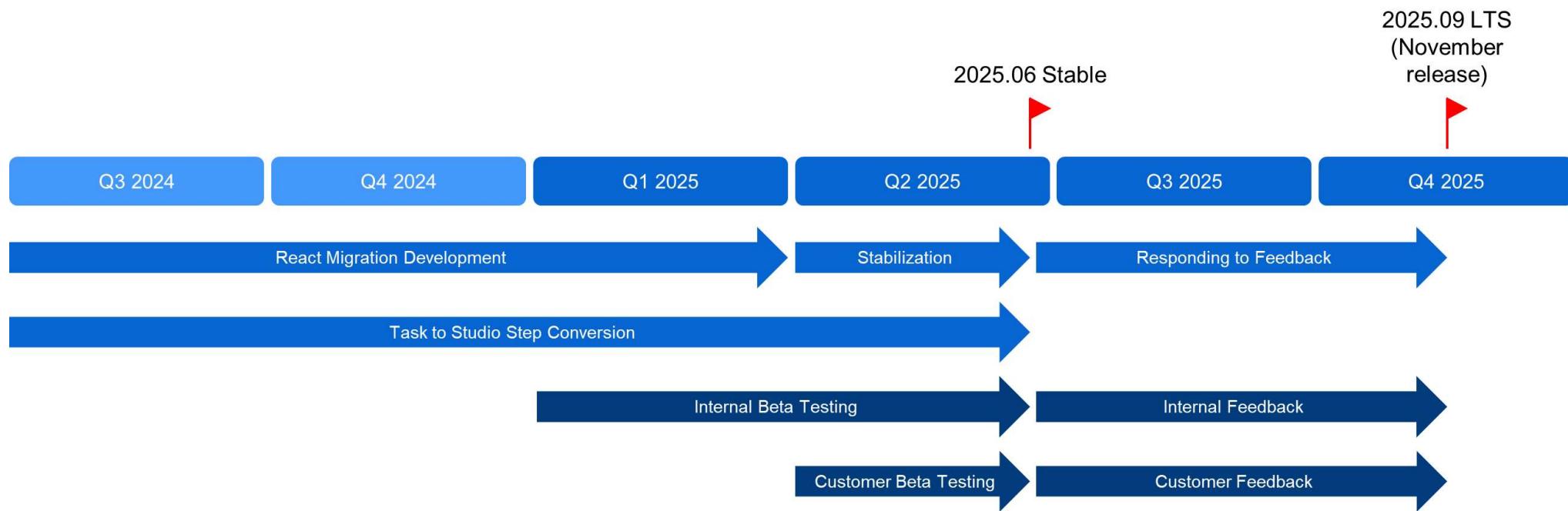
More edge cases now migrate like to like

Several large customers have successfully migrated their SAS 9 DI Studio jobs to Viya

The React rewrite continues

We want you in the customer beta testing Q2 2025

SAS Studio on React - High Level Plan



SAS Viya and Postgres



Extended support contract provides support of Crunchy through the end of 2025



Going forward, we intend to deliver a Postgres option with Viya



Both internal and external options supported



SAS Viya Workbench

A developer canvas for
developers, modelers,
and coders

- Dedicated analytical environment
- Self-service and flexible
- On-demand GPU/CPU compute power
- AWS-only in first release May 16, 2024
- Open-source integration through Visual Studio Code or Jupyter Notebook
- High performance analytics using the latest SAS procedures and APIs
- Develop analytical and machine learning models using SAS and Python

SAS Data Maker Capabilities

Address gaps and limitations in real-world data

1

Generate data on demand using algorithms. Enable pre- and post-processing data



2

Replicate data characteristics including statistical properties, distributions



3

Evaluate synthetic data quality with visual, evaluation metrics



Parquet Integration Roadmap

Requirement	Notes	Current planned release
Support ADLS2	Add support for Parquet on Azure Data Lake Storage (ADLS2)	2024.07
Parquet Access Unification	Unifying SAS code base to operate against Parquet files consistently across Compute and CAS	2024.08
8byte SAS Numeric Variables	Ensure support for numeric columns with column lengths less than 8 bytes is maintained correctly in Parquet	2024.08
Multi-Threaded access to Parquet	Enhance current read performance against Parquet by enabling multi-threaded access	24Q4
Enable Column Access Control (ACL)	Enable columnar level access control to Parquet datasets	24Q4
Enable all compression types with Parquet	Support the main Parquet compression types. Uncompressed, GZIP, SNAPPY, LZO, LZ4, ZSTD, LZ4_RAW, BROTLI, ZLIB	24Q4
Enhance support of Logical data types	Support the main Parquet logical data types: STRING, ENUM, UUID, INT (8, 16, 32, 64), UINT (8, 16, 32, 64), DECIMAL, DATE, TIME, TIMESTAMP, INTERVAL, JSON, BSON	25Q1

MISCELLANEOUS

- SAS for Microsoft 365
 - required for integration between SAS Viya and SAS Microsoft Office
 - Use MS Admin Center for production deployments
- Editing CAS Tables in SAS Viya
 - First releases of new software component
- In-database Support for SPARK-based databases

SAS GitHub Repository

Open source software from SAS Institute Inc

- We use GitHub for tracking bugs and feature requests. Please submit a GitHub issue or pull request for support.
- SAS customers and SAS partners can contribute content
- All components published reviewed by SAS

Thank You!

