

SAS 9 Content Assessment Tool

Inventur auf Knopfdruck:
Per „Content Assessment Tool“
die Basis schaffen für Umzüge &
SAS® Viya Migrationen

Michael Herrmann, SAS Solutions Architect

Plattform Netzwerktreffen, 27.10.2021



SAS® 9 Content Assessment

Helps organizations
understand their
SAS® 9 systems.

A free application
that helps you **plan**.

Reducing risk and effort.



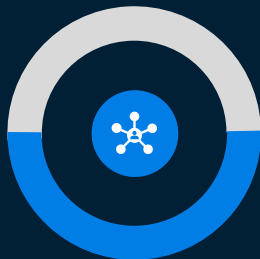
What is SAS 9 Content Assessment (CA)

SAS 9 Content Assessment is a collection of applications designed to help you understand various characteristics of your SAS 9.4 system and content. SAS 9 Content Assessment runs on planned SAS 9.4 deployments.



SAS 9 Inventory

Counts artifacts and content on your SAS 9.4 system



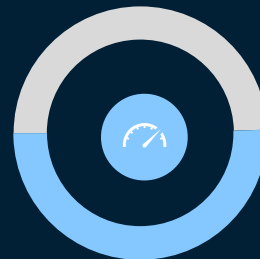
SAS 9 Profile

Details the artifacts and content



SAS 9 Code Check

Examines SAS programs and determines their compatibility in SAS Viya



SAS 9 System Evaluation

Identifies potential issues when upgrading from SAS 9.4

When to use SAS 9 Content Assessment

SAS 9 Inventory



Provides a comprehensive view of content on SAS 9.4 system



SAS 9 Profile



Understand the details of what exists on your SAS 9.4 system so that you can plan for your SAS Viya migration



SAS 9 Code Check



Understand the compatibility of your existing SAS 9.4 programs in SAS Viya



SAS 9 System Evaluation



Determine issues before upgrading so that they can be addressed with SAS Technical Support



SAS 9 Inventory

SAS 9 Inventory counts artifacts and content on your SAS 9.4 system

SAS 9 Inventory



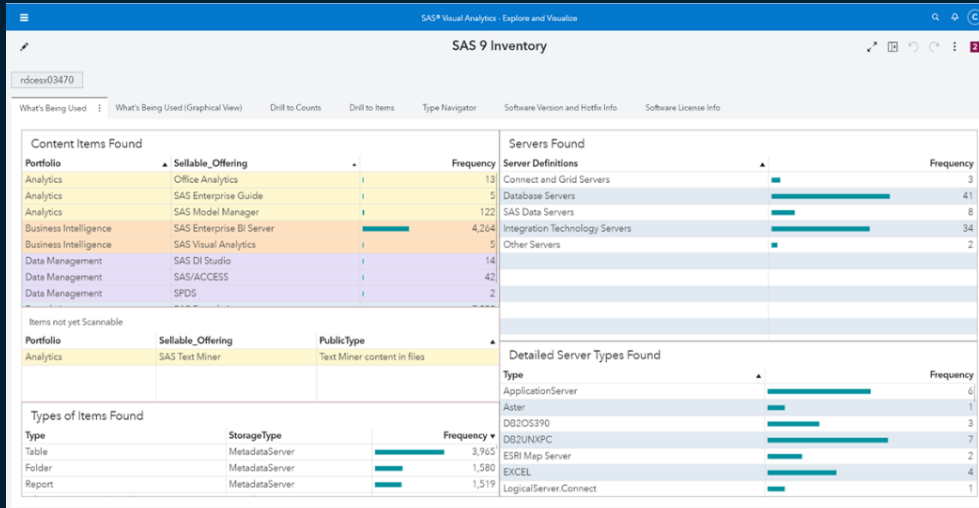
SAS 9 Profile



SAS 9 Code Check



SAS 9 System Evaluation



- SAS Metadata Server Objects
- SAS Server & SAS application server contexts
- SAS product content on file system
- SAS Deployment Registry information
- SAS licensing status and information
- new: SAS Access Control Entries (ACEs)
- new: SAS Access Control Templates (ACTs)

*This application can be run as needed on **multiple** SAS deployments. It creates a data mart for each SAS deployment that is inventoried.*

SAS 9 Profile

SAS 9 Inventory



SAS 9 Profile



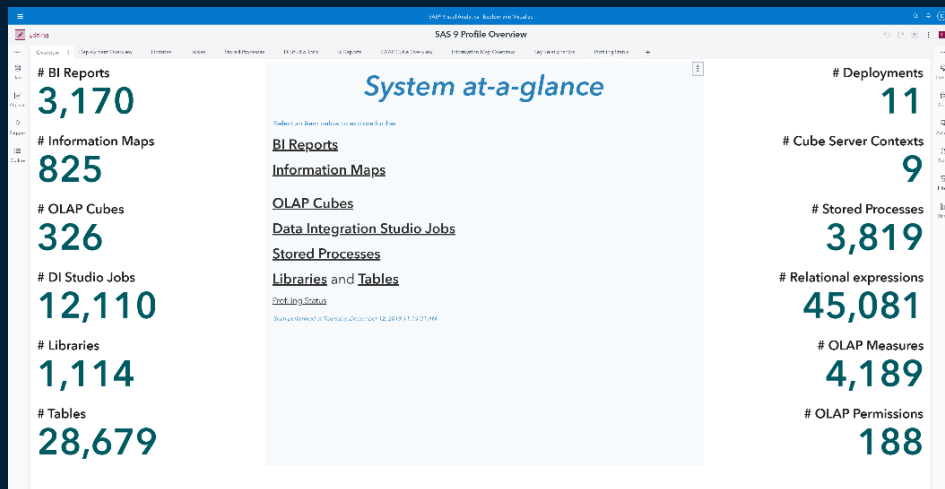
SAS 9 Code Check



SAS 9 System Evaluation



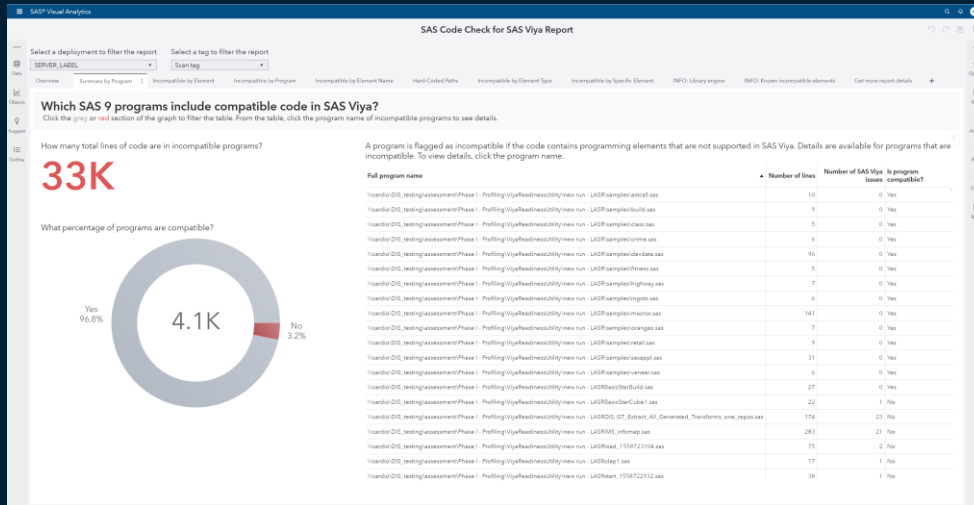
Details the artifacts and content, including levels, hierarchies, engine types, etc. For example, it profiles content produced by SAS products in the SAS Metadata Server, such as:



- SAS libraries and tables
- SAS stored processes, SAS prompts, and SAS prompt groups
- SAS Data Integration jobs, transformations, and generated transforms
- SAS Information Maps and SAS Information Map subqueries
- SAS OLAP cubes
- SAS Web Report Studio and SAS Visual Analytics reports
- SAS Enterprise Guide and SAS Enterprise Miner projects

SAS 9 Code Check

Examines any SAS programs with the extension “.sas” in the specified directory and all subdirectories. Determines **compatibility** with SAS Viya such as:



- SAS program elements that are *not* supported in SAS Viya
- Hardcoded path names that might not be accessible by Viya
- Application can be run as needed on multiple machines and multiple deployments
- Creates one data mart for all SAS programs that it checks per deployment
- Will work on SAS code in varying places: ***.EGP** files or **SAS stored processes**

Note: SAS 9 Content Assessment has a new application, **gatherSASCode**. For more information, see the SAS 9 Content Assessment documentation. It interacts with profile and code check.

new: Gather SAS Code out of metadata

SAS 9 Inventory



SAS 9 Profile



SAS 9 Code Check



SAS 9 System Evaluation



- This application **gathers SAS code from SAS artifacts**, and then writes the code to an output location on the local file system for analysis.
- On the local file system, the code is copied into a file structure that matches its location on the source system.
- For artifacts on a SAS Metadata Server, the code is extracted into a file structure that matches its metadata folder location.
- This application currently supports SAS **stored processes**, SAS **catalogs**, and also SAS **Enterprise Guide projects**.
- The profile application creates content that this application needs, so it must be run before you run this application.
- The output from the gather SAS code application can be used by the code check application to analyze code compatibility in SAS Viya.

SAS 9 Code Check: Update

SAS 9 Inventory



SAS 9 Profile



SAS 9 Code Check



SAS 9 System Evaluation



- New Runtime optimization

IMPORTANT: This application's **performance** has been significantly improved on Linux and Windows. Because of the redesign of the application for performance improvements, the resulting report has been modified to match its new behavior.

Example: A customer had 3332 SAS files. The *new* Code Check scanned them for 1005 keywords and expressions in 13 seconds. The whole process lasted 30 seconds.

SAS 9 System Evaluation

SAS 9 Inventory



SAS 9 Profile




SAS 9 Code Check



SAS 9 System Evaluation



Examines the specified SAS configuration directory and its corresponding metadata content and corresponding installation content in a SAS Metadata Server. It **looks for possible issues** that could adversely affect an upgrade.

System Evaluation

System Evaluation Report
rdcesx03470

Total Issues:
6

System Details:
Operating System: Linux
CPU(s): 2
Thread(s) per core: 1
Core(s) per socket: 1
CPU Socket(s): 2
NUMA Node(s): 1
Kernel Name: Linux
Kernel Release: 2.6.32-131.0.15.el6.x86_64
Kernel Version: #1 SMP Tue May 10 15:41:09 EDT 2011
System Locale: en_US.UTF-8
Total System Memory: 32884672 kB
Available System Memory: 3379156 kB

System Evaluation Summary

Task	Status	Comments	Message
Evaluating SAS web applications	Success	Unable to locate SAS web application details in SAS metadata.	
Archiving results directory	Issues Found		Unable to archive one or more files.
Validating all SAS software orders	Issues Found	The cd.id file for this SAS deployment could not be processed. Please check that it exist and is valid. It can be found in <SASHOME>\SASDeploymentManager\9.4.	
Processing configuration.properties	Issues Found	The configuration.properties file for the specified configuration directory does not exist or is not accessible.	
Validating settings for the configuration directory	Issues Found	Unable to verify host names in the specified configuration directory.	

- This includes upgrading a SAS solution version to a later version or performing an entire SAS 9.4 upgrade
- It reports issues found in various SAS artifacts such as:
 - Metadata objects and definitions in the Foundation repository only
 - Critical configuration files
 - Critical installation files

new: importEGProjects

The importEGProjects application **imports SAS Enterprise Guide projects** on the file system to SAS Viya 4. This application is located in the migration subdirectory.

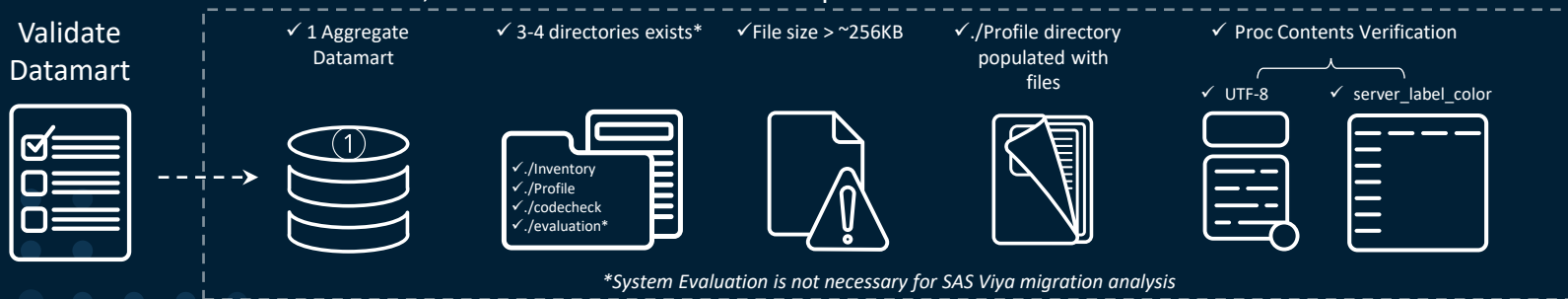
Here are some important details about using the importEGProjects application:

- You can bulk-import SAS Enterprise Guide project (EGP) files.
- Only authorized users can import EGP files.
- If a CSV file is used to provide the list of SAS Enterprise Guide projects, you can order the items in the import to ensure that dependent items are imported in the correct sequence.
- You can specify the root folder to use as the starting point for all folders created during the import process. The default folder is ConvertedEGProjects.
- Each converted SAS Enterprise Guide project is located under the root folder in a folder structure that matches its file system's folder structure.
- When importing large volumes of EGP files, the import can be broken down into multiple imports to best manage performance and troubleshooting

SAS 9 Content Assessment – summary and next steps

SAS and customer jointly review SAS 9 Content Assessment output.

- Validate the datamart created from publishAssessedContent.
- Check the file size of the data sets in the datamart. If a data set is between approximately 200KB to 256KB , this indicates that it is empty. This could mean that the customer did not run the specific SAS 9 Content Assessment application or that the customer ran the application against a directory where SAS content did not exist.
- Most of the SAS datasets will reside in the profile directory.
- Review the profilingstatus.sas7bdat using SAS Enterprise Guide or SAS Studio. The Profiling Result field should be marked true.
- Review all server tiers in each deployment.
- Use PROC CONTENTS to verify the data set encoding is UTF-8. Another encoding might cause unexpected results in the reports.
- Use PROC CONTENTS to verify the existence of the column SERVER_LABEL_COLOR. If publishAssessedContent was executed, the column should exist. If it does not, the customer did not execute publishAssessedContent .



SAS 9 Content Assessment – summary and next steps

Alternative: Customer validates content and sends encrypted results to SAS for migration proposal and roadmap.

- SAS account team and SAS 9 Content Assessment support team prepare to receive the SAS 9 Content Assessment results.
- The customer receives an email with a link to a Microsoft Teams channel.
- Customer uploads the SAS 9 Content Assessment data mart to the Microsoft Teams channel.
- SAS confirms receiving the encrypted data mart and begins preparing the migration proposal and roadmap.

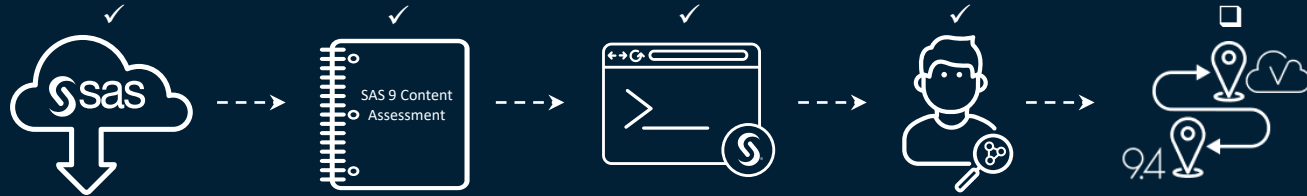
Encrypt Datamart



Send to SAS for Migration
Proposal and Roadmap



SAS 9 Content Assessment Migration Proposal



SAS 9 Inventory



SAS 9 Profile



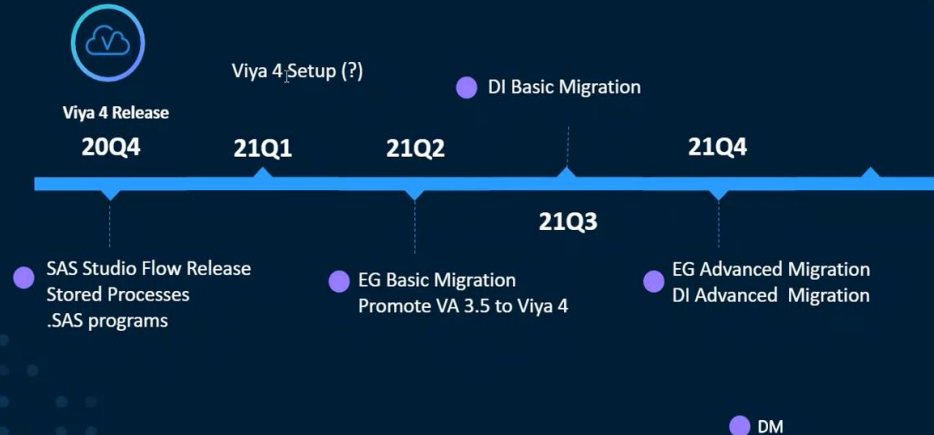
SAS 9 Code Check



SAS 9 System Evaluation



Migration Timeline Overview



SAS 9 Content Assessment

als Download unter support.sas.com für Kunden & Partner verfügbar



SUPPORT



SUPPORT / DOWNLOADS & HOT FIXES

SUPPORT

- Manage Tracks
- SAS Administrators
- Security Bulletins
- License Assistance
- Manage My Software Account
- Downloads & Hot Fixes
 - › SAS System Software
 - › SAS DataFlux Software
 - › JMP Software
 - › Mobile Device Software
 - › Third Party Software
 - › Additional Products
 - › Hot Fixes
- Knowledge Base

All Downloads

Downloads

SAS 9 Content Assessment 1.11

SAS® 9 Content Assessment is a collection of applications designed to examine the characteristics of your SAS® 9 system. Each application examines your SAS 9 system for relevant information, gathers key details, and produces results from each part of the assessment.

To begin the download process, select the item in the table below which best meets your needs.

SAS 9 Content Assessment 1.11					
Platform	Description	Request Download	Size	Release Date	ReadME
64-bit enabled AIX	SAS Content Assessment 1.11 for AIX	SAS9ContentAssessment.v1.11.aix.tar	47.8 MB	2021-03	pdf
64-bit enabled Linux	SAS Content Assessment 1.11 for LAX	SAS9ContentAssessment.v1.11.lax.tgz	62.1 MB	2021-03	pdf
64-bit enabled Windows	SAS Content Assessment 1.11 for Windows	SAS9ContentAssessment.v1.11.win.zip	61.6 MB	2021-03	pdf

For questions you may have about this download, please [contact our Product Support Group](#)

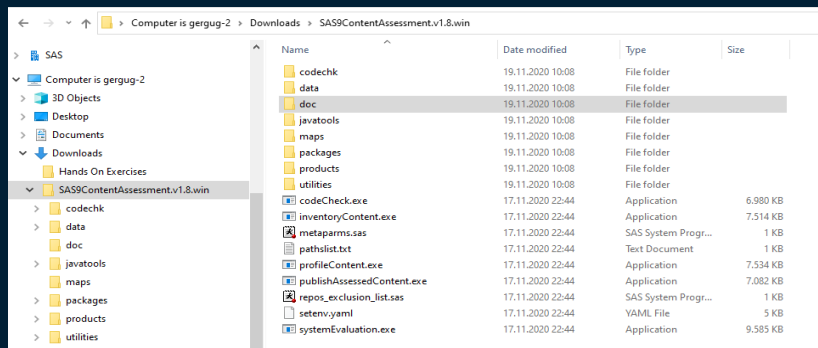
Direkter Link zum Download: <https://support.sas.com/downloads/package.htm?pid=2465#>



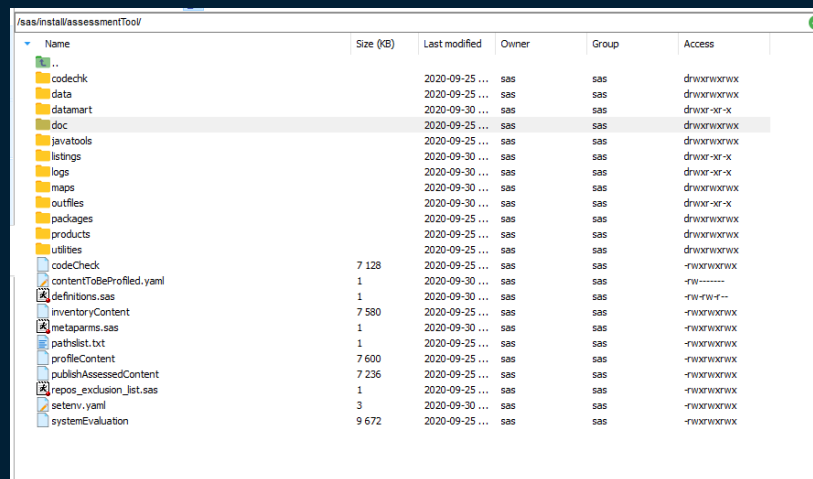
Dokumentation zur Installation & Konfiguration

ist im Download Package enthalten

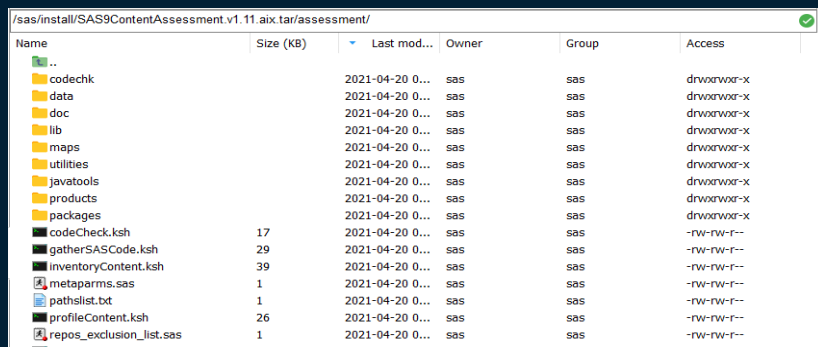
Windows:



Linux:



AIX:



A series of horizontal bars of varying lengths and colors (teal, blue, and dark blue) are arranged on the left side of the slide, creating a modern, abstract background element.

Fragen?

sas.com

