Bulk Migration of SAS 9 Artifacts into SAS Viya Steven Sober Advisory Solution Architect – R&D Technology Partners



Agenda

- SAS EG Projects
- SAS DI Studio Jobs
- SAS Stored Processes
- SAS 9 Content Assessment modifySASCode
 - Bulk modification of hard coded paths found in SAS statements
 - FILE
 - FILENAME
 - INFILE
 - LIBNAME
 - XCOMMAND
 - %LET



3 SAS 9 artifacts can be bulk imported into SAS Viya

	SAS 9	SAS Viya
	DI Studio Jobs	SAS Studio Flows
	Enterprise Guide Projects	SAS Studio Flows
	Visual Analytics Reports	Visual Analytics Reports
	OLAP Cubes	SAS Jobs and SAS Visual Analytics Data Views
R	elational Information Maps	SAS Jobs
	Stored Processes	SAS Jobs

- SAS DI Studio Jobs

 Become SAS Studio Flows

 SAS EG Projects

 Become SAS Studio Flows

 SAS Stored Processes
 - Become Jobs



Where do I get it – Download SAS 9 Content Assessment

		SAS SUPPORT				
	ADS & HOT FIXES					
UPPORT	All Downloads					
fracks inistrators Bulletins Assistance	Downloads SAS 9 Conten	t Assessment 2021.2.6				
e My Software Account oads & Hot Fixes	SAS® 9 Content Assessm of the assessment.	ent is a collection of applications designed to exami	ne the characteristics of your SAS® 9 system	m. Each ap	plication exam	ines your s
System Software DataFlux Software Software	To begin the download pro	ocess, select the item in the table below which best r				
Mobile Device Software		SAS 9 Content A	ssessment 2021.2.6			
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anal Products			•	63.7 MB 80.3 MB	2022-04 2022-04	pdf pdf



Where do I get it – SAS 9 Content Assessment – Migration Folder

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Where do I get it – SAS 9 Content Assessment – Migration Folder

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*	SASContentAssessment.pdf	\odot	3/15/2022 7:40 PM		Chrome HTML Document	649 KB	
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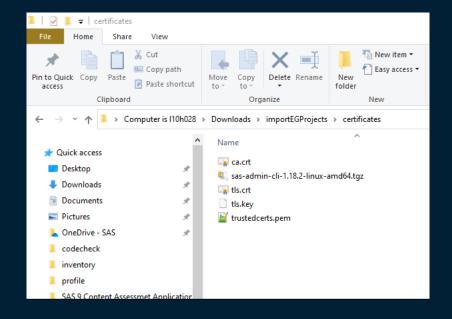
.



Bulk Migration of SAS 9 Artifacts into SAS Viya Requirements



Requirements – Download SAS Viya Certificates



S.sas

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Bulk Migration of SAS 9 Artifacts into SAS Viya Requirements – Create Environment Variable SSL_CERT_FILE

nvironment Variables		>
User variables for sasss1		
Variable	Value	
LOCALDFS	\\sashq\root\regions\cary	
OneDrive	C:\Users\sasss1\OneDrive - SAS	
OneDriveCommercial	C:\Users\sasss1\OneDrive - SAS	
Path	C:\Users\sasss1\AppData\Local\Microsoft\WindowsApps;	
SSL_CERT_FILE	$\label{eq:c:Users} C: Users \ sasss 1 \ Downloads \ import EGP rojects \ certificates \ truste$	
TEMP	C:\Users\sasss1\AppData\Local\Temp	
ТМР	C:\Users\sasss1\AppData\Local\Temp	
	New Edit Delete	
System variables Variable	Value	^
ComSpec	C:\WINDOWS\system32\cmd.exe	
DriverData	C:\Windows\System32\Drivers\DriverData	
NUMBER_OF_PROCESSORS	8	
OS	Windows_NT	
Path	C:\WINDOWS\system32;C:\WINDOWS;C:\WINDOWS\System32\	
PATHEXT	.COM;.EXE;.BAT;.CMD;.VBS;.VBE;.JS;.JSE;.WSF;.WSH;.MSC	
PROCESSOR_ARCHITECTURE	AMD64	
PROCESSOR IDENTIFIER	Intel64 Family 6 Model 142 Stepping 10. GenuineIntel	~
	New Edit Delete	
	OK Cancel	



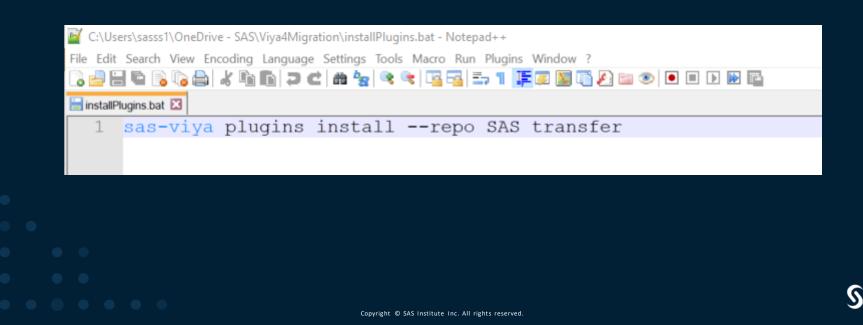
Requirements – Download SAS Viya CLI

sas-viya-cli-1.18.2-windows.zip





Requirements – Install Transfer Plugin

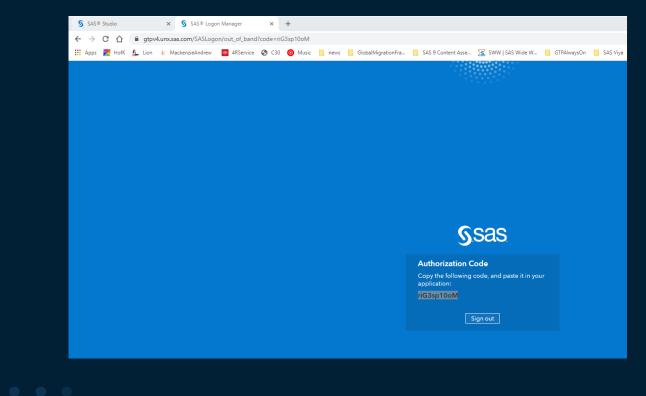


Requirements – Authenticate to SAS Viya sas-viya --profile prod auth loginCode

C:\Users\sasss1\Downloads\importEGProjects>sas-viya auth loginCode Open the following link in a web browser and sign in to obtain an authorization code: https://gtpv4.unx.sas.com/SASLogon/oauth/authorize?client_id=sas.cli&response_type=code



Requirements – Authenticate to SAS Viya – Copy Authorization Code





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Requirements – Authenticate to SAS Viya

C:\Users\sasss1\Downloads\importEGProjects>sas-viya auth loginCode Open the following link in a web browser and sign in to obtain an authorization code: https://gtpv4.unx.sas.com/SASLogon/oauth/authorize?client_id=sas.cli&response_type=code

Code> riG3sp10oM Login succeeded. Token saved.

Bulk Migration of SAS 9 Artifacts into SAS Viya importEGProjects



importEGProjects Application

=	SAS* Visual Analytics - Explore and Visualize	Q 🖪 👹
1	SAS 9 Code Check for SAS Enterprise Guide Pro	jects 💿 🖓 🖪 つ ご ፤ 💈
Select a deployment to filter the report Select a tag to filter the report Deployment	Review: Library Engines Review: Items Not Checked Advanced: Explore Details	About This Report
Which SAS Enterprise Guide projects have con Select a <u>content grouping</u> to filter the table.	npatible code in SAS Viya?	
You can export this list of SAS Enterprise Guide projects as a CSV file. Use the exported CSV file	as input to the batch import process when you migrate.	
Which content grouping has the most compatible projects?		
Content Grouping		•
A project is flagged as compatible if the code contains programming e	lements that are supported in SAS Viva.	
SAS Enterprise Guide Project Name		
D:\S9CA\EG Projects\BaseBallStats.egp		
D:\S9CA\EG Projects\CarsGLM.egp		
D:\S9CA\EG Projects\codeNode.egp		
D:\S9CA\EG Projects\EGintegration2Viya.egp		
D:\S9CA\EG Projects\luis.egp		
D:\S9CA\EG Projects\Steve.egp		



importEGProjects Application

=	SAS® Visual Analytics - Explore and Visualize	۹ 🖪 🥳
× SA		◎ 🖍 🗹 °? 🗄 💈
Select a deployment to filter the report Deployment • Scan Tag • Ownriew Incompatible Projects Compatible Projects Incompatible Projects Review: Hard-Coded Paths Review: Ubray English		
Which SAS Enterprise Guide projects have compatible c	X Export Data	
You can export this list of SAS Enterprise Guide projects as a COV file. Use the exported COV file as input to the be-	Rows:	
Which content grouping has the most compatible projects? Content Grouping	1 - 6 Columns:	
A project is flagged as compatible if the code contains programming elements that a SAS Enterprise Guide Project Name DISPCAIED Projects/BaseBallOsts epp DISPCAIED Projects/EGIntegration2Viya.epp DISPCAIED Projects/EGIntegration2Viya.epp DISPCAIED Projects/Base.epp DISPCAIED Projects/Base.epp	Select all Select all SAS Enterprise Guide Project Name SAS Viya Issues Options: Grommated data Detailed data File type: Comma separated values (*.csv) • Export Cancel	<u>۲</u>



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importEGProjects Application

1 → : × ✓ fx SAS Enterp	orise Guide Project Name										^
A	В	C D	E F	G	H I	J	К	L	М	N	
SAS Enterprise Guide Project Name	SAS Viya Issues										
D:\S9CA\EG Projects\BaseBallStats.egp	0										
D:\S9CA\EG Projects\CarsGLM.egp	0										
D:\S9CA\EG Projects\codeNode.egp	0										
D:\S9CA\EG Projects\EGintegration2Viya.egp	0										
D:\S9CA\EG Projects\luis.egp	0										
D:\S9CA\EG Projects\Steve.egp	0										
1											
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List - Compatible EGP Names (1)	(+)									1	Þ
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importEGProjects Parameters

- --root-folder
 - This is the parent folder in SAS Viya where the EG projects get imported to
- --sas-viya-path
 - This is the path to the SAS Viya CLI
- --source-file
 - This is a CSV file containing the EG Projects to be imported



importEGProjects Application

C:\Users\sasss1\Downloads\importEGProjects>importEGProjects --root-folder "/Users/Steven.Sober@sas.com/My Folder/migratedEGProjects" --sas-viya-path C:\Users\sasss1\Downloads\importEGProjects\sas-viya.exe --source-file C:\Users\sasss1\Do wnloads\importEGProjects\CompatibleEGProjects.csv

SAS Enterprise Guide projects import process beginning: [29Nov21:15:52:20]

Validating the specified settings: SUCCESS Enumerating SAS Enterprise Guide projects to import. Processing SAS Enterprise Guide project 3 of 3 from C:\Users\sasss1\Downloads\importEGProjects\CompatibleEGProjects.csv. Enumerating SAS Enterprise Guide projects to import: SUCCESS Importing the specified SAS Enterprise Guide projects. Processing 1 of 3 SAS Enterprise Guide project(S): C:\Users\sasss1\Downloads\importEGProjects\Steve.egp The project was uploaded successfully with the ID: 6bldefbd=e06c-4all-b2ef-9cbf4429d401. Processing 2 of 3 SAS Enterprise Guide project(S): C:\Users\sasss1\Downloads\importEGProjects\CarseLM.egp The project was uploaded successfully with the ID: 1f82828c-3fcc-4ce2-b434-c6996be9fc81. The project carsesfull. Processing 3 of 3 SAS Enterprise Guide project(s): C:\Users\sasss1\Downloads\importEGProjects\BaseBallStats.egp

Processing 3 of 3 SAS Enterprise Guide project(s): C:\Users\sasss1\Downloads\importECProjects\BaseBallStats.egp The project was uploaded successfully with the ID: 18e43f3a-7dcd-405e-8550-e7205a6b3f24. The project import was successful. Importing the specified SAS Enterprise Guide projects: SUCCESS

3 SAS Enterprise Guide project(s) imported successfully. O SAS Enterprise Guide project(s) failed to import. O SAS Enterprise Guide project(s) were skipped.

Logging information for this import execution can be found here: C:\Users\sasss1\Downloads\importEGProjects\importEGProjects_110h028_2021-11-29-15.52.20.log

SAS Enterprise Guide projects import process complete: [29Nov21:15:53:04]





createSPKPackages



createSASPackages – SAS 9 Profile for Data Integration

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						SAS 9 Pro	file for SAS Data	Integration				c	◎ ~ Ⅲ ♡ @	÷
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to r	review the list	of candidates. ⁻	The migration can	didates are the	green rows. Se		for the definition o	n to SAS Viya. To see f migration candidat			migrate well to	o SAS Viya, select 'f	Ready to migrate'	
							Ready to Migrate (12)							
Sel	lect a row to fil	ter the table bel	ow.											
Job	b with Path													
		igence/Data/In-Men	ory/DIGITAL_ACTIVITY	_PATH_ANALYSIS - L	ad Job 070715032	9PM								•
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createSASPackages – SAS 9 Profile for Data Integration

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< Overview Jobs Transform usage Jobs using Transforms Mignation Status I Action Set usage			CGT definition details CGT Prompt Types > 🖸
This page shows the transforms used in your jobs and which of those transforms as to review the list of candidates. The migration candidates are the green rows. Se	e currently supported for micration t Export Data	n SAS Viva. To see only the jobs th * te in this report.	
Tou can export this factor acts abox as a cast file, day the exponent cast file as input to the part.	1 - 24 Columns: ✔ Select all		
Select a row to filter the table below. Job with Path Whojedzi Digital Intelligence/Data/in-Memory/DIGITAL_ACTIVITY_PATH_ANALYSIS - Load Job 070718031 Whojedzi Digital Intelligence/Data/in-Memory/DIGITAL_CECKSTREAM_DATA - Load Job 0707180330PM Whojedzi Digital Intelligence/Data/in-Memory/DIGITAL_CECKSTREAM_DATA - Load Job 0707180330PM Whared Data/LASR/CARDATA - Load Job 0708190718AM Whared Data/LASR/CARDATA - Load Job 0708190718AM Whared Data/LASR/CARTNER - Load Job 0708190718AM Whared Data/LASR/RIGARTNER - Load Job 0708190718AM Whared Data/LASR/RIGARTNER - Load Job 0708190718AM Whared Data/LASR/RIGARCOPE, Ak - Load Job 0708190718AM Whared Data/LASR/RIGARCOPE, Ak - Load Job 0708190718AM	Job with Path Transform Name Transform Internal Name SupportedTransform Options: Formatted data Detailed data File type: Comma separated values (*.csv) •		
Migration candidates have Supported Transforms Job with Path //Shared Data/ASR/GARTNERLoad Job 6705190715AM /Shared Data/LASR/INSIGHT_TOY4 - Load Job 0705190716AM /Shared Data/LASR/INSIGHT_TOY4 - Load Job 0705190716AM	▲ Transform Name User Written Table metadata update User Written	Export Cancel Transform Internal I User Written User Written User Written User Written	



createSASPackages – SAS 9 Profile for Data Integration

A1 \rightarrow f_x Job with Path				^
А	В	С	DE	
1 Job with Path	Transform Name		NSupportedTransform	m
2 /Projects/Digital Intelligence/Data/In-Memory/DIGITAL ACTIVITY PATH ANALYSIS - Load			User Written	
3 /Projects/Digital Intelligence/Data/In-Memory/DIGITAL ACTIVITY PATH ANALYSIS - Load		User Written	User Written	
4 /Projects/Digital Intelligence/Data/In-Memory/DIGITAL_CLICKSTREAM_DATA - Load Job C			User Written	
5 /Projects/Digital Intelligence/Data/In-Memory/DIGITAL CLICKSTREAM DATA - Load Job C		User Written	User Written	
6 /Projects/Digital Intelligence/Data/In-Memory/DIGITAL_PROD_INTEREST - Load Job 0707		e User Written	User Written	
7 /Projects/Digital Intelligence/Data/In-Memory/DIGITAL_PROD_INTEREST - Load Job 0707	150330PM User Written	User Written	User Written	
8 /Shared Data/LASR/CARDATA - Load Job 0705190714AM	Table metadata update	e User Written	User Written	
9 /Shared Data/LASR/CARDATA - Load Job 0705190714AM	User Written	User Written	User Written	
10 /Shared Data/LASR/CLASS - Load Job 0705190715AM	Table metadata update	e User Written	User Written	
11 /Shared Data/LASR/CLASS - Load Job 0705190715AM	User Written	User Written	User Written	
12 /Shared Data/LASR/GARTNER - Load Job 0705190715AM	Table metadata update	e User Written	User Written	
13 /Shared Data/LASR/GARTNER - Load Job 0705190715AM	User Written	User Written	User Written	
14 /Shared Data/LASR/INSIGHT_TOY4 - Load Job 0705190716AM	Table metadata update	e User Written	User Written	
15 /Shared Data/LASR/INSIGHT_TOY4 - Load Job 0705190716AM	User Written	User Written	User Written	
16 /Shared Data/LASR/MEGACORP5_4M - Load Job 0705190717AM	Table metadata update	e User Written	User Written	
17 /Shared Data/LASR/MEGACORP5_4M - Load Job 0705190717AM	User Written	User Written	User Written	
18 /Shared Data/LASR/ORGANICS_NEW - Load Job 0705190718AM	Table metadata update	e User Written	User Written	
19 /Shared Data/LASR/ORGANICS_NEW - Load Job 0705190718AM	User Written	User Written	User Written	
20 /Shared Data/LASR/PVA_DATA - Load Job 0705190718AM	Table metadata update	e User Written	User Written	-
Jobs with or without transform (+)				•

createSPKPackages Parameter

- --source-file
 - Location of SAS DI Studio csv file





createSASPackages – SAS 9 Profile for Data Integration

D:\S9CA\v2021.2.5\assessment>createSASPackages.exe --source-file "D:\S9CA\v2021.2.5\assessment\spkDIStudio\Jobs ready for migration or not.csv" Beginning the SAS package creation process: [21Mar22:15:46:47]

Validating the environment. Validating the environment: SUCCESS

Initializing profiling directories. Initializing profiling directories: SUCCESS

Validating the SAS license Validating the SAS license: SUCCESS

Validating SAS program execution uses UTF-8 encoding. The encoding used by SAS program execution is UTF-8. Validating SAS program execution uses UTF-8 encoding: SUCCESS

Validating the specified Java Validating the specified Java: SUCCESS

Obtaining SAS Metadata repository information. Obtaining SAS Metadata repository information: SUCCESS

Processing the input CSV file. There were a total of 12 SAS artifact(s) found. The content type for the artifacts found is SAS DI Studio Job. Processing the input CSV file: SUCCESS

Creating a SAS Metadata profile (ContentAssessment_EEC137) Creating a SAS Metadata profile (ContentAssessment_EEC137): SUCCESS

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createSASPackages – SAS 9 Profile for Data Integration

Creating the SAS packages for the specified artifacts. Processing 01 of 12 SAS artifacts: DIGITAL_ACTIVITY_PATH_ANALYSIS - Load Job 0707150329PM Processing 02 of 12 SAS artifacts: DIGITAL_PROD_INTEREST - Load Job 0707150330PM Processing 04 of 12 SAS artifacts: CARDATA - Load Job 0705190715AM Processing 05 of 12 SAS artifacts: CARDATA - Load Job 0705190715AM Processing 06 of 12 SAS artifacts: GARINER - Load Job 0705190715AM Processing 07 of 12 SAS artifacts: INSIGHT_TOY4 - Load Job 0705190715AM Processing 08 of 12 SAS artifacts: NEGACORP5_4M Processing 08 of 12 SAS artifacts: NEGACORP5_4M - Load Job 0705190715AM Processing 08 of 12 SAS artifacts: SARINER - Load Job 0705190715AM Processing 09 of 12 SAS artifacts: SINGHT_TOY4 - Load Job 0705190715AM Processing 10 of 12 SAS artifacts: SCHEDULECHART_SIMPLE - Load Job 0705190719AM Processing 11 of 12 SAS artifacts: SCHEDULECHART_SIMPLE - Load Job 0705190719AM Processing 12 of 12 SAS artifacts: SCHEDULECHART_SIMPLE - Load Job 0705190719AM Processing 12 of 12 SAS artifacts: SCHEDULECHART_SIMPLE - Load Job 0705190719AM

12 SAS Package(s) were created successfully. 0 SAS Package(s) were unable to be created successfully. 0 SAS Package(s) were created with warnings.

Logging information for this package creation execution can be found here: D:\S9CA\v2021.2.5\assessment\logs\createspks\EEC137\createSASPackages_SAS-AAP_2022-03-21-15.46.47.log

The SAS package creation process is complete. [21Mar22:15:49:25]



createSASPackages – SAS 9 Code Check for Stored Processes

	SAS [®] Visual Analytics - Explore and Visualize	વ 🖪 🍿
1	SAS 9 Code Check for SAS Stored Processes	🔍 🖍 🖪 ଅଟେଟ E 💶
elect a deployment to filter the report Deployment Uncompatible Stored Processes	Select a tag to filter the report Scan Tag • Compatible Stored Processes : Review: Hard-Coded Paths Review: Library Engines Review: Items Not Checked Advanced: Explore Details About This Report	
Which SAS 9 stored p	rocesses have compatible code in SAS Viya?	
Select a content grouping to filter the table		
You can export this list of SAS stored proces	ses as a CSV file. Use the exported CSV file as input to the batch import process when you migrate.	
Tou can export this list of one stored process	es as a cus me, que un exported cus me as input o un bacch import process when you implate.	
Which content grouping has the	most compatible stored processes?	
Content Grouping		•
Content Grouping		٣
	ompatible if the code contains programming elements that are supported in SAS Viva.	•
A stored process is flagged as c	ompatible if the code contains programming elements that are supported in SAS Viya.	•
A stored process is flagged as constructed process Name		•
A stored process is flagged as co Stored Process Name /Products/SAS Intelligence Platform/Sam	nples/Sample: Cholesterol by Sex and Age Group	
A stored process is flagged as co Stored Process Name /Products/SAS Intelligence Platform/Sam /Products/SAS Intelligence Platform/Sam	nples/Sample: Cholesterol by Sex and Age Group nples/Sample: European Demographic Data	
A stored process is flagged as co Stored Process Name /Products/SAS Intelligence Platform/San /Products/SAS Intelligence Platform/San	nples/Sample: Cholesterol by Sex and Age Group nples/Sample: European Demographic Data Dijes/Sample: European Demographic Data Detail	
A stored process is flagged as co Stored Process Name /Products/SAS Intelligence Platform/Sam /Products/SAS Intelligence Platform/Sam /Products/SAS Intelligence Platform/Sam	nplex/Sample: Cholesterol by Sex and Age Group nplex/Sample: European Demographic Data Inplex/Sample: Strequency Analysis of Municipalities	• •
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A stored process is flagged as c Stored Process Name /Products/SAS Intelligence Platform/San /Products/SAS Intelligence Platform/San	nples/Sample: Cholesterol by Sex and Age Group aples/Sample: European Demographic Data Ingles/Sample: Frequency Analysis of Municipalities aples/Sample: Hello World Ingles/Sample: Multiple Output Formats aples/Sample: Service Ingles/Sample: Service Text Ingles/Sample: Shoe Sales by Region	• •
A stored process is flagged as or Stored Process Name /Products/SA Intelligence Platform/Sam /Products/SA Intelligence Platform/Sam	nplex/Sample: Cholesterol by Sex and Age Group nplex/Sample: European Demographic Data Demographic Data Demographic Data Detail nplex/Sample: Frequency Analysis of Municipalities nplex/Sample: Holio World nplex/Sample: Shore Sales Virgence nplex/Sample: Shore Sales Virgence nplex/Sample: Shore Sales Virgence nplex/Sample: Shore Sales Sirgence Note: Shore: Shore Sales Sirgence Note: Shore Sales Sirgence Not	• •
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createSASPackages – SAS 9 Profile for Stored Processes

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	Rows:	
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	✓ Select all	
	Stored Process Name Public Type Options: Detailed data File type: Comma separated values (*.csv) •	2
	Export Cancel	

createSASPackages – SAS 9 Profile for Stored Processes

		441			-		,		
A1	1 • f_x Stored Process Name								^
	А	В	С	D	E	F	G	н	
1	Stored Process Name	Public Type	e						
2	/Products/SAS Intelligence Platform/Samples/Sample: Cholesterol by Sex and Age Group	StoredProc	cess						
3	/Products/SAS Intelligence Platform/Samples/Sample: European Demographic Data	StoredProc	cess						
4	/Products/SAS Intelligence Platform/Samples/Sample: European Demographic Data Detail	StoredProc	cess						
5	/Products/SAS Intelligence Platform/Samples/Sample: Frequency Analysis of Municipalities	StoredProc	cess						
6	/Products/SAS Intelligence Platform/Samples/Sample: Hello World	StoredProc	cess						
7	/Products/SAS Intelligence Platform/Samples/Sample: MEANS Procedure Web Service	StoredProc	cess						
8	/Products/SAS Intelligence Platform/Samples/Sample: Multiple Output Formats	StoredProc	cess						
9	/Products/SAS Intelligence Platform/Samples/Sample: Server Test	StoredProc	cess						
10	Products/SAS Intelligence Platform/Samples/Sample: Shoe Sales by Region	StoredProc	cess						
11	/Products/SAS Intelligence Platform/Samples/Sample: Shoe Sales Graphics	StoredProc	cess						
12	Products/SAS Intelligence Platform/Samples/Sample: Stored Process Macro Variables	StoredProc	cess						
13	Products/SAS Intelligence Platform/Samples/Sample: Year to Date Budget	StoredProc	cess						
14	/System/Applications/SAS Web Infrastructure Platform/Web Infrastructure Platform 9.4/Utilities/GeographicalMappingService	StoredProc	cess						
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1	Summary of compatible programs (+) : (1	1	1	1		

createSASPackages – SAS 9 Profile for Stored Processes

D:\S9CA\v2021.2.5\assessment>createSASPackages.exe --source-file "D:\S9CA\v2021.2.5\assessment\spkSTP\Summary of compatible programs.csv" Beginning the SAS package creation process: [21Mar22:15:40:10]

Validating the environment. Validating the environment: SUCCESS

Initializing profiling directories. Initializing profiling directories: SUCCESS

Validating the SAS license Validating the SAS license: SUCCESS

Validating SAS program execution uses UTF-8 encoding. The encoding used by SAS program execution is UTF-8. Validating SAS program execution uses UTF-8 encoding: SUCCESS

Validating the specified Java Validating the specified Java: SUCCESS

Obtaining SAS Metadata repository information. Obtaining SAS Metadata repository information: SUCCESS

Processing the input CSV file. There were a total of 13 SAS artifact(s) found. The content type for the artifacts found is SAS Stored Process. An internal account was specified for the user connecting to metadata. Any SAS Stored Processes that have external file references will not be able to be packaged correctly with this type of account. Processing the input CSV file: SUCCESS

Creating a SAS Metadata profile (ContentAssessment_EEC137) Creating a SAS Metadata profile (ContentAssessment EEC137): SUCCESS

createSASPackages – SAS 9 Profile for Stored Processes

Creating the SAS packages for the specified artifacts. Processing 01 of 13 SAS artifacts: Sample: Cholesterol by Sex and Age Group Processing 02 of 13 SAS artifacts: Sample: European Demographic Data Unable to create the SAS package successfully. See D:\S9CA\v2021.2.5\assessment\SASPackages\EEC137\Foundation\Products\SAS Intelligence Platform\Samples\SampleCOLON European Demographic Data ExportPackage.log for details. Processing 03 of 13 SAS artifacts: Sample: European Demographic Data Detail Unable to create the SAS package successfully. See D:\S9CA\v2021.2.5\assessment\SASPackages\EEC137\Foundation\Products\SAS Intelligence Platform\SamplecOLON European Demographic Data Detail_ExportPackage.log for details. Processing 04 of 13 SAS artifacts: Sample: Frequency Analysis of Municipalities Unable to create the SAS package successfully. See D:\S9CA\v2021.2.5\assessment\SASPackages\EEC137\Foundation\Products\SAS Intelligence Platform\Samples\SampleCOLON Frequency Analysis of Municipalities ExportPackage.log for details. Processing 05 of 13 SAS artifacts: Sample: Hello World Unable to create the SAS package successfully. See D:\S9CA\v2021.2.5\assessment\SASPackages\EEC137\Foundation\Products\SAS Intelligence Platform\SamplecOLON Hello World ExportPackage.log for details. Processing 06 of 13 SAS artifacts: Sample: MEANS Procedure Web Service Unable to create the SAS package successfully. See D:\S9CA\v2021.2.5\assessment\SASPackages\EEC137\Foundation\Products\SAS Intelligence Platform\SamplecOLON MEANS Procedure Web Service_ExportPackage.log for details. Processing 07 of 13 SAS artifacts: Sample: Multiple Output Formats Unable to create the SAS package successfully. See D:\59CA\v2021.2.5\assessment\SASPackages\EEC137\Foundation\Products\SAS Intelligence Platform\Samples\SampleCOLON Multiple Output Formats ExportPackage.log for details. Processing 08 of 13 SAS artifacts: Sample: Server Test Unable to create the SAS package successfully. See D:\S9CA\v2021.2.5\assessment\SASPackages\EEC137\Foundation\Products\SAS Intelligence Platform\Samples\SampleCOLON Server Test_ExportPackage.log for details. Processing 09 of 13 SAS artifacts: Sample: Shoe Sales by Region Unable to create the SAS package successfully. See D:\S9CA\v2021.2.5\assessment\SASPackages\EEC137\Foundation\Products\SAS Intelligence Platform\Samples\SampleCOLON Shoe Sales by Region ExportPackage.log for details. Processing 10 of 13 SAS artifacts: Sample: Shoe Sales Graphics Unable to create the SAS package successfully. See D:\S9CA\v2021.2.5\assessment\SASPackages\EEC137\Foundation\Products\SAS Intelligence Platform\Samples\SamplecOLON Shoe Sales Graphics ExportPackage.log for details. Processing 11 of 13 SAS artifacts: Sample: Stored Process Macro Variables Unable to create the SAS package successfully. See D:\S9CA\v2021.2.5\assessment\SASPackages\EEC137\Foundation\Products\SAS Intelligence Platform\Samples\SampleCOLON Stored Process Macro Variables ExportPackage.log for details. Processing 12 of 13 SAS artifacts: Sample: Year to Date Budget Unable to create the SAS package successfully. See D:\S9CA\v2021.2.5\assessment\SASPackages\EEC137\Foundation\Products\SAS Intelligence Platform\Samples\SamplecOLON Year to Date Budget ExportPackage.log for details. Processing 13 of 13 SAS artifacts: GeographicalMappingService Creating the SAS packages for the specified artifacts: WARNINGS 2 SAS Package(s) were created successfully. 11 SAS Package(s) were unable to be created successfully. 0 SAS Package(s) were created with warnings. Logging information for this package creation execution can be found here: D:\S9CA\v2021.2.5\assessment\logs\createspks\EEC137\createSASPackages SAS-AAP 2022-03-21-15.40.10.log

The SAS package creation process is complete. [21Mar22:15:43:28]



createSPKPackages Results

OneDr	ve - SAS > SAS 9 Content Assessmet Applications > v2021.2.5 > assessment >	> SASPackages > EEC1	37 > Foundation ∨ Ō	
^	Name	Status	Date modified	Туре
	Products	\odot	3/21/2022 1:55 PM	File folder
7	📜 Projects	\odot	3/21/2022 1:56 PM	File folder
*	🣜 Shared Data	\odot	3/21/2022 1:56 PM	File folder
*	📜 System	\odot	3/21/2022 1:56 PM	File folder
*				

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Ssas

Bulk Migration of SAS 9 Artifacts into SAS Viya importSPKPackages



importSPKPackages

- --source-location
 - Location of the files created by createSPKPackages
 - Default location is \SAS 9 Content Assessmet Applications\v2021.2.5\assessment\SASPackages
- --sas-viya-path
 - Location of sas-viya application

importSPKPackages

C:\Users\sasss1\OneDrive - SAS\SAS 9 Content Assessmet Applications\v2021.2.5\migration>importSASPackages.exesource-location "C:\Users\sasss1\OneDrive - SAS\SAS 9 Content Assessmet Applications\v2021.2.5\migration\sas-viya.exe"
SAS Packages import process beginning: [21Mar22:15:46:56]
Validating the specified settings Validating the specified settings: SUCCESS
Enumerating SAS Packages to import. Processing SAS Package 25 of 25 from C:\Users\sasssl\OneDrive - SAS\SAS 9 Content Assessmet Applications\v2021.2.5\sassessment\SASPackages. Enumerating SAS Packages to import:
Importing the specified SAS Packages. Processing 1 of 25 SAS Package(s): C:\Users\sasss1\OneDrive - SAS\SAS 9 Content Assessmet Applications\v2021.2.5\assessment\SASPackages\EEC137\Foundation\Products\SAS Intelligence Platform\Samples\SampleCOLON Cholesterol by Sex and Age (roup.sak
The project was uploaded successfully with the ID: 16431038-8ea9-4847-b59d-b29dea2575f2. The project import was successful.
Processing 2 of 25 SAS Package(s): C:\Users\sasssl\OneDrive - SAS\SAS 9 Content Assessmet Applications\v2021.2.5\assessment\SASPackages\EEC137\Foundation\Products\SAS Intelligence Platform\SampleCDLON European Demographic Data D
The project was uploaded successfully with the ID: 79fcac3e-2625-4461-8a4e-bbfd5410201b. The project import was successful.
Processing 3 of 25 SAS Package(s): C:\Users\sass1\OneDrive - SAS\SAS 9 Content Assessmet Applications\v2021.2.S\assessment\SASPackages\EEC137\Foundation\Products\SAS Intelligence Platform\Samples\SampleCOLON European Demographic Data.s
The project was uploaded successfully with the ID: 7ede749d-1adc-4cb7-bd64-b48c08a72049. The project import was successful.
Processing 4 of 25 SAS Package(s): C:\Users\sasss1\oneDrive - SAS\SAS 9 Content Assessmet Applications\v2021.2.S\assessment\SASPackages\EEC137\Foundation\Products\SAS Intelligence Platform\SampleCOLON Frequency Analysis of Munic
palities.spk The project was uploaded successfully with the ID: dcd512e5-08fd-4066-a1b5-c2725d2976ff. The project import was successful.
Processing 5 of 25 SAS Package(s): C:\Users\sasss1\OneDrive - SAS\SAS 9 Content Assessmet Applications\v2021.2.5\assessment\SASPackages\EEC137\Foundation\Products\SAS Intelligence Platform\Samples\SampleCOLON Hello World.spk The project import was successfull, The project import was successful.
Processing 6 of 25 SAS Package(s): C:\Users\sasssl\OneDrive - SAS\SAS 9 Content Assessmet Applications\v2021.2.S\assessment\SASPackages\EEC137\Foundation\Products\SAS Intelligence Platform\SampleS\BampleCDLON MEANS Procedure Web Service.
The project was uploaded successfully with the ID: 322372c2-dfc2-484e-9765-a2317570822a. The project import was successful.
Processing 7 of 25 SAS Package(s): C:\Users\sasss1\OneOrive - SAS\SAS 9 Content Assessmet Applications\v2021.2.5\assessment\SASPackages\EEC137\Foundation\Products\SAS Intelligence Platform\Samples\SampleCOLON Multiple Output Formats.spk The project import was successfull, The project import was successful.
Processing 8 of 25 SAS Package(s): C:\Users\sasssl\OneOrive - SAS\SAS 9 Content Assessmet Applications\v2021.2.5\assessment\SASPackages\EEC137\Foundation\Products\SAS Intelligence Platform\Samples\SampleCOLON Server Test.spk The project import was successfull. The project import was successful.
Processing 9 of 25 SAS Package(s): C:\Users\sasss1\OneOrive - SAS\SAS 9 Content Assessmet Applications\v2021.2.5\assessment\SASPackages\EEC137\Foundation\Products\SAS Intelligence Platform\Samples\SampleCOLON Shoe Sales Graphics.spk The project import was successfull.
Processing 10 of 25 SAS Package(3): C:\Users\sasss1\0neDrive - SAS\SAS 9 Content Assessmet Applications\v2021.2.5\assessment\SASPackages\EEC137\Foundation\Products\SAS Intelligence Platform\Samples\SampleCOLON Shoe Sales by Region.spk The project import was successfully with the ID: dc20b518-fe08-4784-9a8b-f963affe1e04.
Processing 11 of 25 SAS Package(s): C:\Users\sasss1\OneDrive - SAS\SAS 9 Content Assessmet Applications\v2021.2.5\assessment\SASPackages\EEC137\Foundation\Products\SAS Intelligence Platform\Samples\SampleSOLON Stored Process Macro Varial
res.spr The project was uploaded successfully with the ID: 9c0ca5a8-f164-4bba-b7a9-d6d141a2e3eb. The project import was successful.



importSPKPackages

Processing 14 of 25 SAS Package(s): C:\Users\sass1\OneDrive - SAS\SAS 9 Content Assessmet Applications\v2021.2.5\sassesment\SASPackages\EEC137\Foundation\Projects\bjgital Intelligence\Data\In-Memory\DIGITAL_CLICKSTRE4M_DATA - Load Job 0 707/J0303094.spt
The project was uploaded successfully with the ID: ed4134ff-706c-485f-87f0-d00432a1301a. The project import was successful.
Processing 15 of 25 SAS Package(s): C:\Users\sasss1\OneDrive - SAS\SAS 9 Content Assessmet Applications\v2021.2.5\assessment\SASPackages\EEC137\Foundation\Projects\Digital Intelligence\Data\In-Memory\DIGITAL_PROD_INTEREST - Load Job 0707 150310PM, spk
The project was uploaded successfully with the ID: 78e88ed7-0127-46f8-a0d5-b6a3a6fd2d53. The project import was successful.
Processing 16 of 25 SAS Package(s): C:\Ugers\sasss1\OneDrive - SAS\SAS 9 Content Assessmet Applications\\2021.2.5\assessment\SASPackages\EEC137\Foundation\Shared Data\LASR\CARDATA - Load Job 0705190714AM.spk The project import was successful with the ID: e73ff2d9-4c48-4226-965c-1e26ced9dfdd. The project import was successful.
Processing 17 of 25 SAS Package(s): C:\Users\sasss1\OneDrive - SAS\SAS 9 Content Assessmet Applications\v2021.2.5\assessment\SASPackages\EEC137\Foundation\Shared Data\LASR\CLASS - Load Job 0705190715AM.spk The project was uploaded successful Jy with the ID: 40a8ebd1-22a4-4966-93c0-5af6c3146e66. The project import was successful.
Processing 18 of 25 SAS Package(s): C:\Users\sasss1\OneDrive - SAS\SAS 9 Content Assessmet Applications\v2021.2.5\assessment\SASPackages\EEC137\Foundation\Shared Data\LASR\GARTNER - Load Job 0705190715AM.spk The project was uploaded successful Jy with the 1D: fa/b346c-C0ab-40c2-a619-f96b0F/ee8dc. The project import was successful.
Processing 19 of 25 SAS Package(s): C:\Ugers\sassal\OneDrive - SAS\SAS 9 Content Assessmet Applications\v2021.2.5\assessment\SASPackages\EEC137\Foundation\Shared Data\LASR\INSIGHT_TOY4 - Load Job 07051907164M.spk The project was uploaded successfully with the ID: 4b12f0e1-cbde-44e1-b977-b39dd0468a30. The project import was successful.
Processing 20 of 25 SAS Package(s): C:\Ugers\sassal\OneDrive - SAS\SAS 9 Content Assessmet Applications\v2021.2.5\assessment\SASPackages\EEC137\Foundation\Shared Data\LASR\WEGACORP5_4M - Load Job 07051907174M.spk The project was uploaded successfully with the 1D: fc9944b1-5328-48e4-9cba-F26904f752a9. The project import was successful.
Processing 21 of 25 SAS Package(s): C:\Ucers\sasssl\OmeDrive - SAS\SAS 9 Content Assessmet Applications\v2021.2.5\assessment\SASPackages\EEC137\Foundation\Shared Data\LASR\ORGANICS_NEW - Load Job 07051907184M.spk The project was uploaded successfully with the 1D: 23a88805-02d1-46ce-b1b8-a9138F1a4eb1. The project import was successful.
Processing 22 of 25 SAS Package(5): C:\Ucers\sasssl\OmeDrive - SAS\SAS 9 Content Assessmet Applications\v2021.2.5\assessment\SASPackages\EEC137\Foundation\Shared Data\LASR\PVA_DATA - Load Job 07051907184M.spk The project was uploaded successfully with the ID: O6albde8-elbe-44b6-a063-b332db112166. The project import was successful.
Processing 23 of 25 SAS Package(s): C:\Users\sasss1\OneDrive - SAS\SAS 9 Content Assessmet Applications\v2021.2.5\assessment\SASPackages\EEC137\Foundation\Shared Data\LASR\SCHEDULECHART_SIMPLE - Load Job 0705190719AM.spk The project was uploaded successful y with the 1D: Offla763-Fa6b-4e9a-8380-4644e5e0b1da. The project import was successful.
Processing 24 of 25 SAS Package(s): C:\Users\sasss1\OneDrive - SAS\SAS 9 Content Assessmet Applications\v2021.2.5\assessment\SASPackages\EEC137\Foundation\Shared Data\LASR\SIMPLE_PATH - Load Job 0705190719AM.spk The project was uploaded successfully with the ID: 4c968233-48c9-47c0-ased-a0f6545ac386. The project import was successful.
Processing 25 of 25 SAS Package(s): C:\Users\sasss1\oneDrive - SAS\SAS 9 Content Assessmet Applications\v2021.2.5\assessment\SASPackages\EEC137\Foundation\System\Applications\SAS Web Infrastructure Platform\Web Infrastructure Platform 9. 4\Utilities\LeographicalMappingservice.spk The project was puloaded successfully with the ID: 784debac-332e-4fc0-b092-4cd5e99F962c. The project import was successful.
25 SAG Package(s) imported successfully. 0 SAS Package(s) mort. 0 SAS Package(s) were skipped.
Logging information for this import execution can be found here: C:\Users\sasss1\0neDrive - \$A\$\SA\$ 9 Content Assessmet Applications\v2021.2.5\migration\import\$A\$Packages_110h028_2022-03-21-15.46.56.log
SAS Package import process is complete. [21Mar22:15:49:55]



SAS DI Studio Jobs – SAS EG Projects

become SAS Viya SAS Studio Flows

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SAS DI Studio Jobs – SAS EG Projects

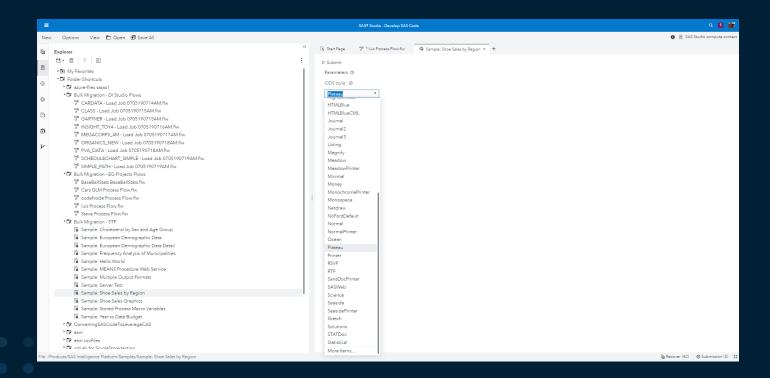
become SAS Viya SAS Studio Flows

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SAS Stored Processes

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modifySASCode – SAS 9 Content Assessment V2021.1.5



Documentation located in the SAS 9 Content Assessment ../assessment/doc folder

modifySASCode – bulk modification of hard coded paths

C:\Users\sasss1\OneDrive - SAS\SAS 9 Content Assessmet Applications\v2021.2.5\assessment>modifySASCode.exe --help

modifySASCode - This application will update paths via a specified CSV file for all SAS code associated with a specified SAS 9 Code Check execution.

VERSION: 2021.2.5

modifySASCode [command options...]

COMMAND OPTIONS:

Specifies the name of the file that will be generated with a mapping of old paths to new paths based on the SAS 9 Code Check run associated with the specified scan tag. This option is mutually exclusive with --map-file.

- Specifies the mapping file of old paths to new paths based on the SAS 9 Code Check run associated with the specified scan tag. This option is mutually exclusive with --generate-map.
- Shows help
- --output-location
- Specifies the directory to write the updated SAS program files to.
- --scan-tag
- Specifies the scan tag to use that corresponds to the SAS 9 Code Check results to process. --version
 - Displays the application's version.

ADDITIONAL DOCUMENTATION:

C:\Users\sassal\OneDrive - SAS\SAS 9 Content Assessmet Applications\v2021.2.5\assessment\doc\SASContentAssessment.pdf



modifySASCode – bulk modification of hard coded paths

./modifySASCode.exe --scan-tag SAS9Code --generate-map mapping.txt

C:\Users\sasss1\OneDrive - SAS\SAS 9 Content Assessmet Applications\v2021.2.5\assessment>modifySASCode.exe --scan-tag SAS9Code --generate-map mapping.txt Beginning the SAS 9 Modify SAS Code application: [22Mar22:11:46:36]

Validating the environment. Validating the environment: SUCCESS

Initializing SAS 9 Modify SAS Code directories. Initializing SAS 9 Modify SAS Code directories: SUCCESS

Processing the results for the specified SAS 9 Code Check execution. Determined 190 unique file(s) with issues. Determined 263 unique path(s) that need to be potentially updated. Generated the mapping file mapping.txt. Processing the results for the specified SAS 9 Code Check execution: SUCCESS

Logging information for this SAS 9 Modify SAS Code execution can be found here: C:\Users\sasss1\OneDrive - SAS\SAS 9 Content Assessmet Applications\v2021.2.5\assessment\logs\modify\Server1\modifySASCodel10h028_2022-03-22-11.46.36.log

A mapping file for use in a future replacement operation has been generated:

mapping.txt

This mapping file contains columns that represent the "old" and "new" paths and will need to be edited. In the event, the "old" path was not calculated correctly, a reference line of code using that path is provided.

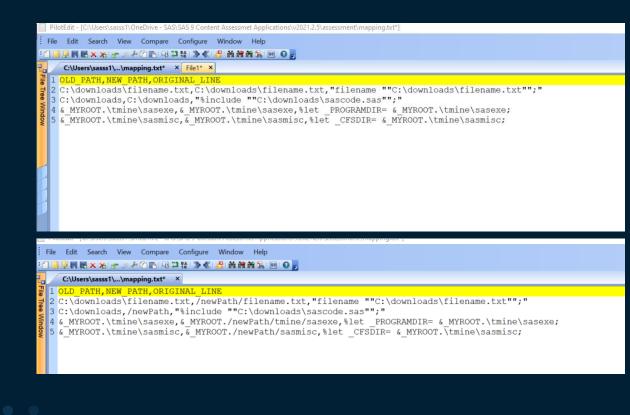
After editing, the updated mapping file can be used with this application to make the corresponding updates to all SAS code identified with hard-coded path issues for the specified SAS 9 Code Check run.

SAS 9 Modify SAS Code is complete. [22Mar22:11:46:41]





modifySASCode – bulk modification of hard coded paths





modifySASCode – bulk modification of hard coded paths

./modifySASCode --scan-tag SAS9Code --output-location mappings --map-file mapping.txt

C:\Users\sasss1\OneDrive - SAS\SAS 9 Content Assessmet Applications\v2021.2.5\assessment>modifySASCode.exe --scan-tag SAS9Code --output-location mappings --map-file mapping.txt Beginning the SAS 9 Modify SAS Code application: [28Apr22:11:16:51]

Validating the environment. Validating the environment: SUCCESS

Initializing SAS 9 Modify SAS Code directories. Initializing SAS 9 Modify SAS Code directories: SUCCESS

Processing the results for the specified SAS 9 Code Check execution. Determined 190 unique file(s) with issues. Processing the results for the specified SAS 9 Code Check execution: SUCCESS

Processing the specified mapping file. Processed 4 mappings. Processing the specified mapping: SUCCESS

Running the SAS 9 Modify SAS Code application. Updated 190 SAS program files. Time to update 190 SAS program files: [4.087 seconds] Running the SAS 9 Modify SAS Code application: SUCCESS

Logging information for this SAS 9 Modify SAS Code execution can be found here: C:\Users\sasss1\OneDrive - SAS\SAS 9 Content Assessmet Applications\v2021.2.5\assessment\logs\modify\Server1\modifySASCodel10h028_2022-04-28-11.16.51.log

SAS 9 Modify SAS Code is complete. [28Apr22:11:17:02]

C:\Users\sasss1\OneDrive - SAS\SAS 9 Content Assessmet Applications\v2021.2.5\assessment>

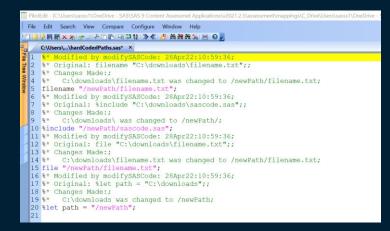


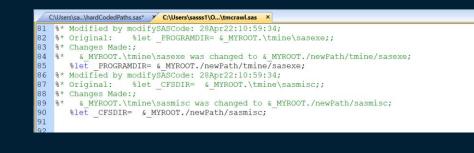
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One Last Thing

Migration application for SAS 9 Forecast Server SAS 9 Content Assessment V2021.1.6

- createFARPackages
 - A new migration application for SAS
 9 Forecast Server
 - It creates SAS Forecast archives for specified SAS Forecast Server projects to be migrated to SAS Viya
 - Within SAS Viya Visual Forecasting one imports the SAS Forecast archive file

Details

Here are some important details about using this application:

- The application uses a CSV file to determine what can be migrated. A CSV file should not be edited except to delete projects so that they will not be packaged. Each project requires a separate CSV file.
- To create a CSV file for SAS Forecast Server projects, in the SAS 9 Profile for SAS Forecast Server report, select the **Projects** tab. In a table, right-click, and select **Export data**. In the Export Data window, make sure that **Detailed data** is not selected and that the **File type** is **Comma-separated values** (*.csv).
- The application uses a setenvyaml property named ASSESSMENT_FAR_PACKAGES_OUTPUT_LOCATION. This location contains paths that are created for packages based on their metadata folder locations. A server label directory is also created. The first element of the path is the name of the metadata repository from which the package's content comes. For example, SASFARPackages/DemoCust/SASForecastServer/My_Folder. In this example, SASForecastServer is a metadata repository. A server label directory is also created. The default value for ASSESSMENT_FAR_PACKAGES_OUTPUT_LOCATION is \$BASE_DIR/ SASFARPackages.
- A FAR package is named based on its content. If a FAR package contains a SAS Forecast Server project named MyForecasts, the FAR package is named MyForecasts.spk.
- A log file for each package's creation is included in the value specified for ASSESSMENT_FAR_PACKAGES_OUTPUT_LOCATION. For example, for the MyForecasts FAR package, there is a MyForecasts_ExportPackage.log file.
- If the metadata path of a project or the name of the project contains an unsupported character for its file system, the unsupported character is substituted.

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