



– Product Highlights of Life Sciences

SAS Institute Japan株式会社
技術本部プロフェッショナルサービス部
平田 明弘

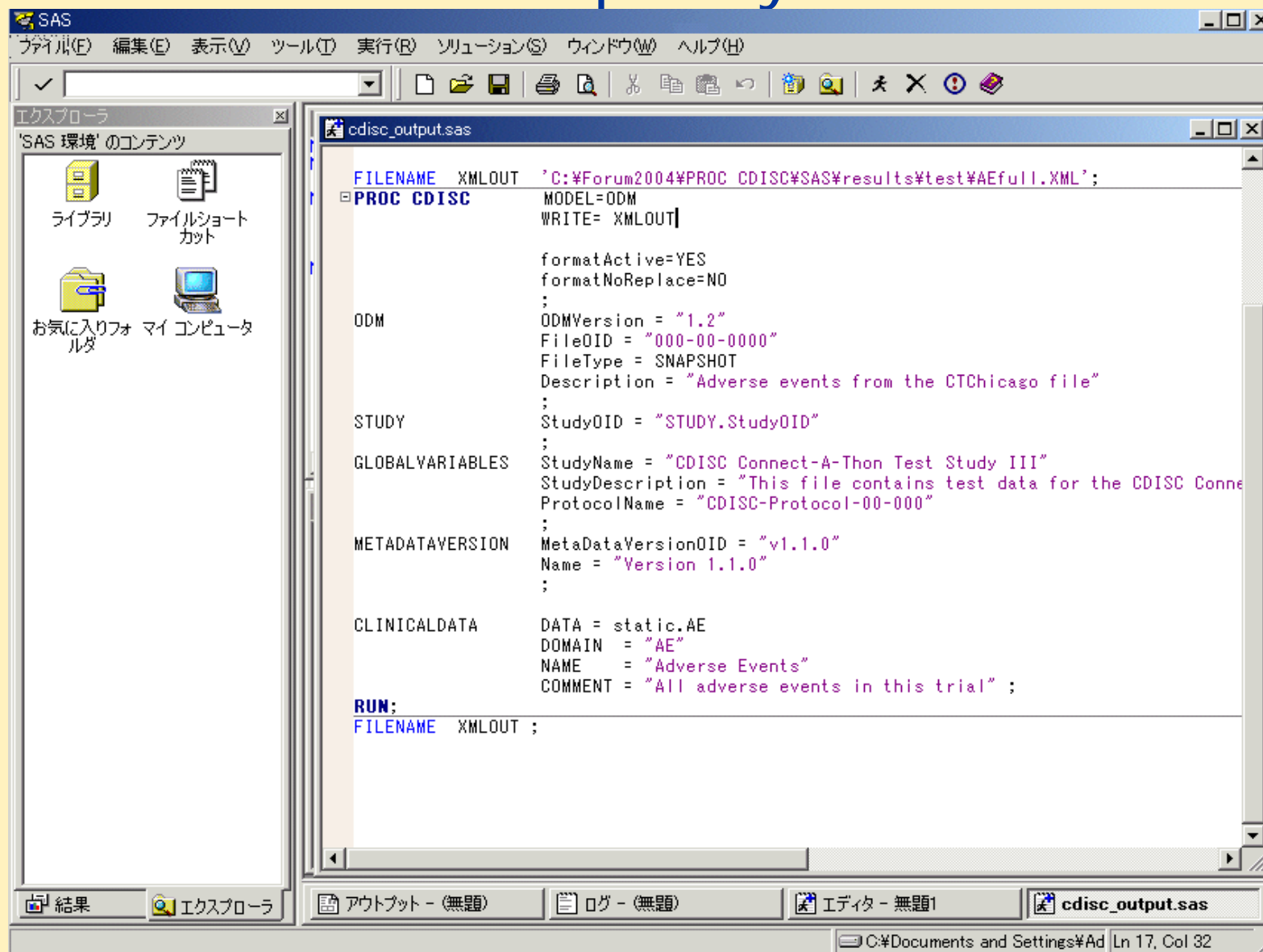
Life Science utilities and features

- Data translation and encoding (CDISC ODM)
 - XML Engine native mode (SAS 9)
 - XML Engine and XMLMap
 - PROC CDISC
 - SAS CDISC ODM Viewer
 - XML Mapper
- Migration and Installation
 - IQ/OQ scripts for installation(Unix and Windows)
 - Web based Installation and Migration support
 - PROC MIGRATE
- HLS Project MIV

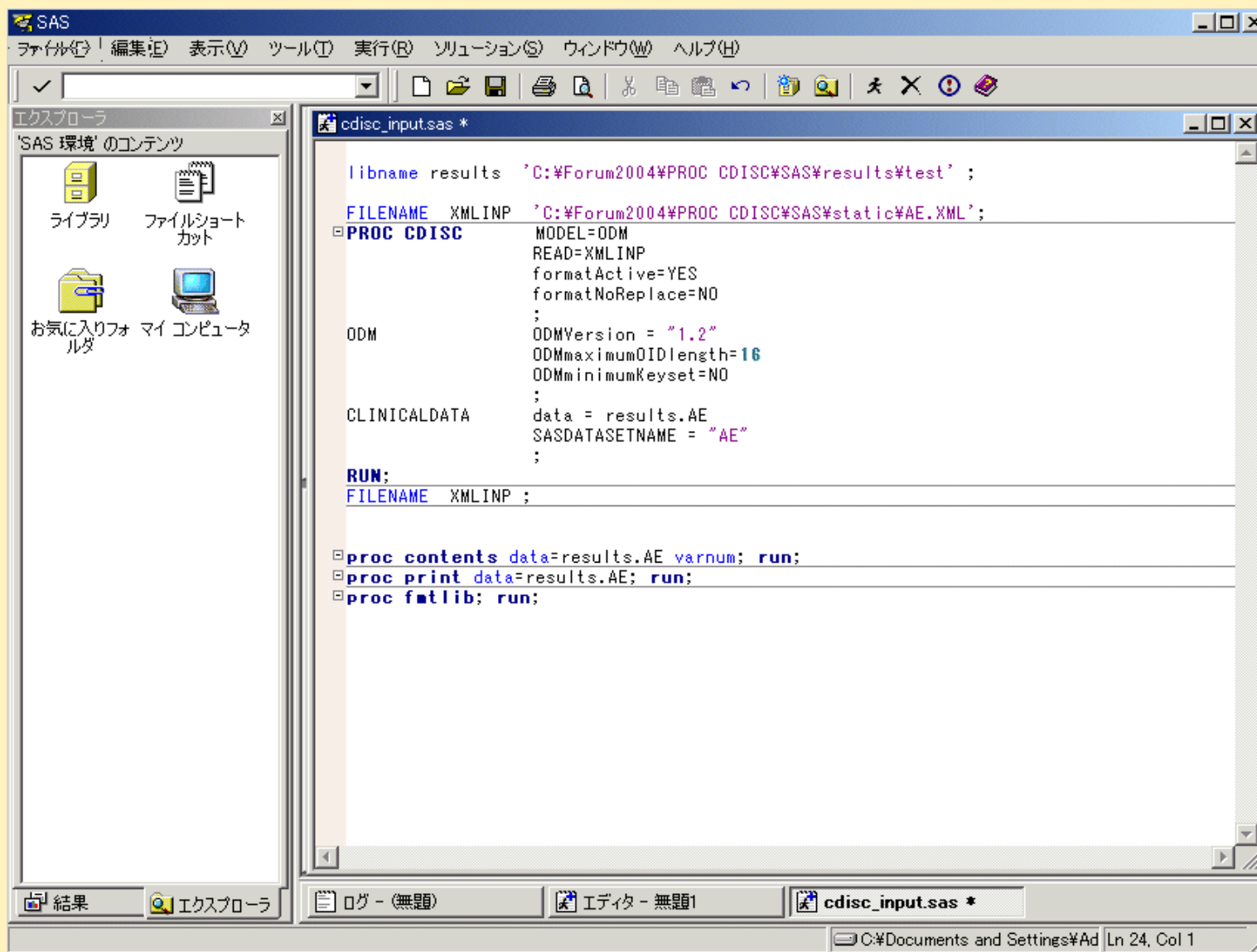
PROC CDISC Version Comparison

	8.2	9.1
Single table	PROC CDISC	XML Libname
		PROC CDISC
Multiple tables (coming soon)	PROC CDISC	PROC CDISC

PROC CDISC Output Syntax



PROC CDISC Input Syntax



SAS CDISC ODM Viewer



SAS CDISC ODM Viewer

File Tools Help

Tables External Tables Code lists Users Metadata Audits Locations Signatures

Name	Description
IG.AE	AE Comment
IG.CONMED	Conmed Comment
IG.DEMOG	Demog Comment
IG.DRUG_TRT	Treatment Comment
IG.PHARMO1	PK Comment
IG.PHYEX	PE Comment
IG.REFSAMP	

Contents of: IG.DEMOG

	Name	SASName	Length
▶	Study Key	_STUDYOID	100 s
	Metadata Version Key	_METADATAVERSIO	100 s
	Subject Key	_SUBJECTKEY	100 s
	Study Event Key	_STUDYEVENTOID	100 s
	Form Key	_FORMOID	100 s
	Item Group Key	_ITEMGROUPOID	100 s
	Item Group Repeat K	_ITEMGROUPPREPEA	100 s
	Compound	R_DRUG	8 s
	Therapeutic Area	TAREA	4 s
	Protocol Number	PNO	15 s
	Country	SCTRY	4 s
	Record status, 5 level	F_STATUS	1 s
	Height	HT	0 fl
	Weight	WT	0 fl
	Gender	SEX	1 c

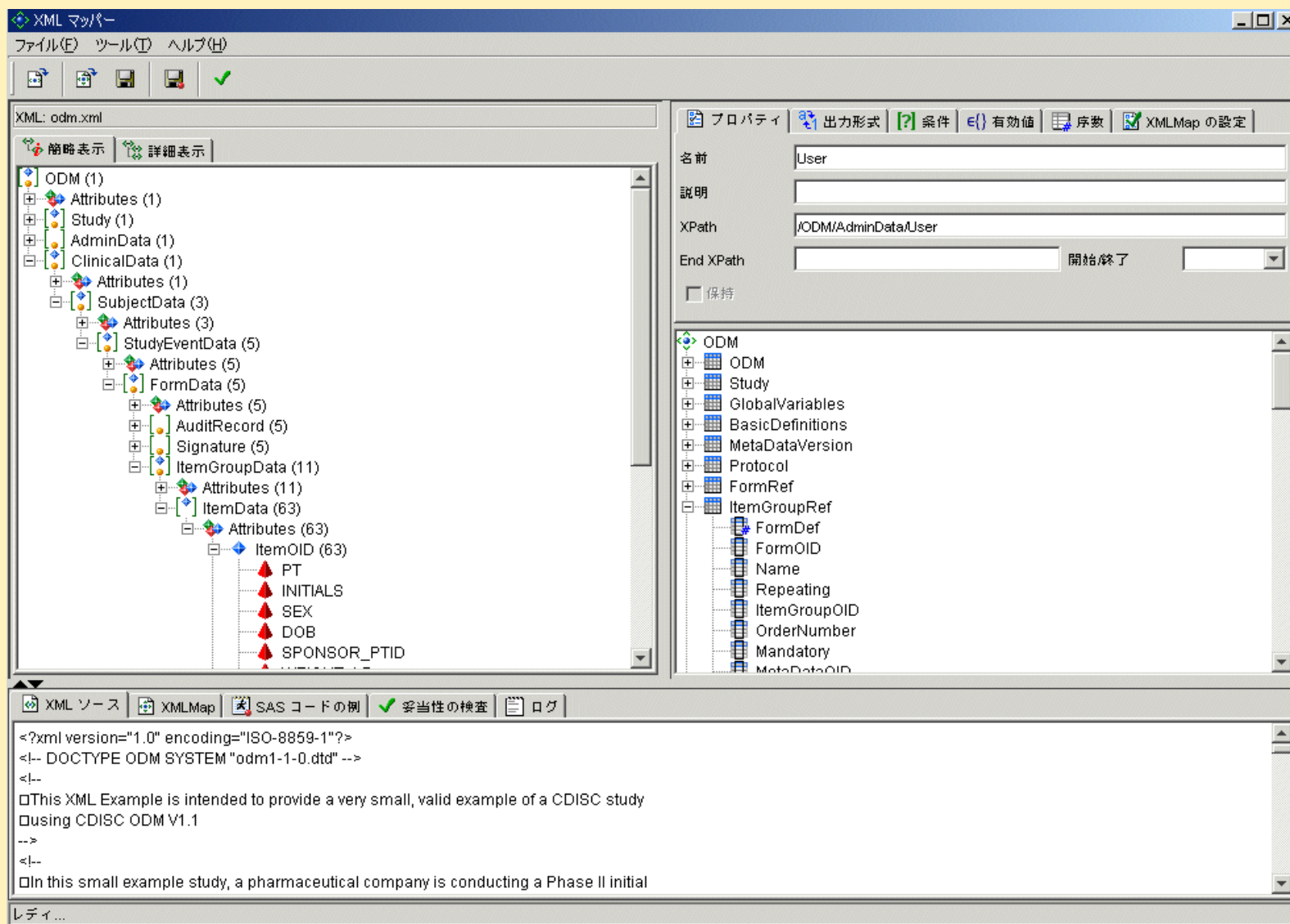
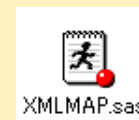
Data External Data Audit Trail

Table IG.DEMOG View...

IG.DEMOG

		_SUBJECTKEY	R_DRUG	TAREA	PNO	SCTRY	F_STATUS
▶	❖	001	SDP	Oncology	143-02	United States	Source verified, queried
	❖	002	SDP	Oncology	143-02	United States	Source verified, not queried
	❖	003	SDP	Oncology	143-02	United States	Source verified, not queried
	❖	004	SDP	Oncology	143-02	United States	Source verified, not queried
	❖	005	SDP	Oncology	143-02	United States	Source verified, not queried
	❖	006	SDP	Oncology	143-02	United States	Source verified, not queried
	❖	---	---	---	---	---	---

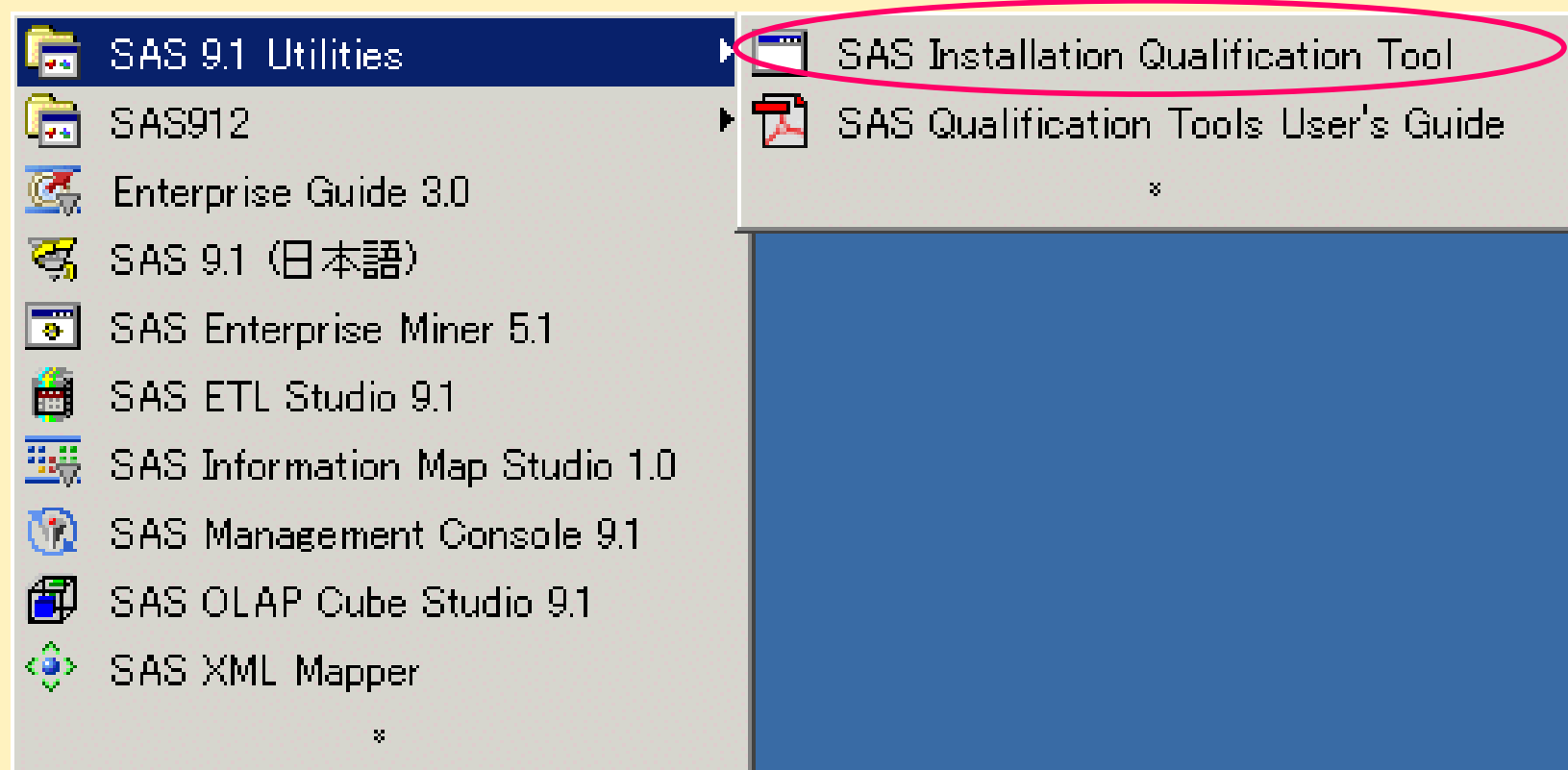
XML Mapper



Validation Tools

- Installation Qualification Tool (SAS IQ)
 - The SAS IQ Tool assists in the installation qualification by comparing and reporting on the files shipped by SAS Institute and the files installed.
- Operational Qualification (SAS OQ) Tool
 - The SAS OQ Tool assists in the operational qualification of the SAS System by executing, processing and reporting on tests. These tests can be either the SAS Institute supplied self-verifying tests or tests developed to customer specifications.
- HTML and PDF Output with XML data

IQ Tools の起動(例: Windows環境)



SAS IQ Results(1)

SAS Installation Qualification Tool - Microsoft Internet Explorer

ファイル(E) 編集(E) 表示(V) お気に入り(A) ツール(T) ヘルプ(H)

戻る 進む 印刷 検索 お気に入り メディア

アドレス(D) C:\temp\SAS912_IQ\ivt_20040707.000\sasiq.htm 移動 リンク >>

- SAS IQ System Information
 - [Installation for Windows](#)
- SAS IQ Results Summary
 - [Pass/Fail results](#)
- Base SAS
 - [SAS IQ Results](#)
- DBCS support
 - [SAS IQ Results](#)
- Enterprise Miner
 - [SAS IQ Results](#)
- Enterprise Reporter SAS System Edition
 - [SAS IQ Results](#)
- Japanese NLS Support
 - [SAS IQ Results](#)

Installation for Windows

Install Attribute	Value
Date:	2004-07-07
Time:	04:55:10
User:	Administrator
Machine:	SAS-E226D9F1B57.apac.sas.com
Platform:	Microsoft Windows 2000 Professional Service Pack 4 (Build 2195)
SASROOT:	C:\Program Files\SAS\SAS 9.1
SAWROOT:	C:\Program Files\SAS\SAS 9.1
[WinSysDir]:	C:\WINNT\system32
[SharedFiles]:	C:\Program Files\SAS\Shared Files
Components Installed: 52	Passed Qualification: 52, Failed: 0
Files Validated: 11793	Passed Qualification: 11793, Failed: 0

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SAS IQ Results(2)

SAS Installation Qualification Tool - Microsoft Internet Explorer

ファイル(F) 編集(E) 表示(V) お気に入り(A) ツール(T) ヘルプ(H)

戻る 進む 検索 お気に入り メディア

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- SAS IQ System Information
 - [Installation for Windows](#)
- SAS IQ Results Summary
 - [Pass/Fail results](#)
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- DBCS support
 - [SAS IQ Results](#)
- Enterprise Miner
 - [SAS IQ Results](#)
- Enterprise Reporter SAS System Edition
 - [SAS IQ Results](#)
- Japanese NLS Support
 - [SAS IQ Results](#)

Pass/Fail Results

Component	Result
Base SAS(base)	Passed
DBCS support(dbcs)	Passed
Enterprise Miner(dmne)	Passed
Enterprise Reporter SAS System Edition(reporter)	Passed
Japanese NLS Support(nls_ja)	Passed
SAS Data Quality Server(dquality)	Passed
SAS High-Performance Forecasting(hpf)	Passed
SAS Integration Technologies(inttech)	Passed
SAS Inventory Replenishment Planning(irp)	Passed
SAS Marketing Automation Processes(ma)	Passed
SAS OLAP Server(mddbserve)	Passed
SAS Text Miner(tmne)	Passed
SAS Text Miner for French(txtminfre)	Passed
SAS Text Miner for German(txtminger)	Passed

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OOQ Tools の起動(例: Windows環境)

- コマンドによる起動
 - SASROOT¥sastest¥sasooq.exe
 - tables *:base
 - outdir <任意のフォルダ>
- VB Scripts + タスクによる自動化

SAS OQ Results(1)

SAS Operational Qualification Tool Results - Microsoft Internet Explorer

ファイル(E) 編集(E) 表示(V) お気に入り(A) ツール(T) ヘルプ(H)

戻る 進む 検索 お気に入り メディア

アドレス(D) C:\temp\SAS912_OQ\base\ftt_20040707.000\sasoq.htm

移動 リンク »

SAS Operational Qualification - Windows

Date:	2004-07-07
Time:	23:12:44
User:	Administrator
Machine:	SAS-E226D9F1B57
Platform:	Windows
Components Tested:	1
Tests Executed:	21
Tests Passed:	21
Tests Failed:	0

1. SAS OQ System Information
1. [SAS OQ for Windows](#)

2. SAS Operational Qualification Summary
1. [Pass/Fail Results](#)

3. BASE:tstbase:tstsql:F
1. [Test Detail Results](#)

4. BASE:tstbase:tstrpt:F
1. [Test Detail Results](#)

5. BASE:tstbase:tsttab:f
1. [Test Detail Results](#)

6. BASE:tstbase:tstuniO
1. [Test Detail Results](#)

7. BASE:tstbase:tstrank
1. [Test Detail Results](#)

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SAS OQ Results(2)

SAS Operational Qualification Tool Results - Microsoft Internet Explorer

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- BASE:tstbase:tsttab:F
 - [Test Detail Results](#)
- BASE:tstbase:tstuniO
 - [Test Detail Results](#)
- BASE:tstbase:tstrank
 - [Test Detail Results](#)

Pass/Fail Results

Component	Table	Test	Result
BASE	tstbase	tstbrs	Pass
	tstbase	tstcalen	Pass
	tstbase	tstchrt	Pass
	tstbase	tstcmp	Pass
	tstbase	tstcor01	Pass
	tstbase	tstdoc	Pass
	tstbase	tstedt	Pass
	tstbase	tstform	Pass
	tstbase	tstods	Pass
	tstbase	tstplot	Pass
	tstbase	tstrank	Pass
	tstbase	tstrpt	Pass
	tstbase	tstsort	Pass
	tstbase	tstsql	Pass
	tstbase	tststan	Pass
	tstbase	tstsum	Pass

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Proc Migrate

- Provides a simple interface for migrating a SAS library from an earlier version to the current version.
- Not designed to move libraries from one machine architecture to another.
- Produce members in the target library that are exactly the same as the source library.
- Validation macros to help determine that a data set has not changed during migration.

Proc Migrate(Help1)

URL → <http://support.sas.com/rnd/migration>

Migration Community - Microsoft Internet Explorer

ファイル(E) 編集(E) 表示(V) お気に入り(A) ツール(T) ヘルプ(H)

戻る 進む 検索 お気に入り メディア

アドレス(D) <http://support.sas.com/rnd/migration/> 移動 リンク

support.sas.com > Communities > Migration

Migration sas

Search

Communities Home

Welcome to the Migration Community

Lead Your Organization to SAS®9

If you are a SAS specialist or IT professional, the Migration Community is your field guide for successfully migrating your organization to SAS 9.1. Here you can find essential guidance for

- converting SAS files to the new release.
- preserving customizations made in users' applications.
- ensuring validation with current applications and business processes.
- minimizing disruptions to routine operations.

Along with technical instructions and cross-release compatibility information, you will find tips, best practices, case studies, references to SAS documentation, and more, which will help you to migrate with minimal cost.

This community features the use of PROC MIGRATE to move or copy data libraries to a SAS 9.1 libraries. For migrations where PROC MIGRATE is not supported (for example, to Release 8.2, or to a different operating system family), see also the SAS book *Moving and Accessing SAS Files* for syntax of existing copy tools.

The [Road Map to This Community](#) tells you where to start and where you're going.

What We Mean by Migrate

Planning

- ▶ [Files to Migrate](#)
- ▶ [Platform Considerations](#)
- ▶ [Scheduling](#)
- ▶ [Validation](#)

Execution

- ▶ [Overview](#)
- ▶ [Create Backups and Benchmarks](#)
- ▶ [Install SAS](#)
- ▶ [Migrate Files](#)
- ▶ [Tune for Performance](#)
- ▶ [Go Live](#)

Resources

- ▶ [PROC MIGRATE](#)
- ▶ [Industry-Specific Answers](#)
- ▶ [National Language Support](#)
- ▶ [Case Studies, Papers, and FAQs](#)
- ▶ [Glossary](#)

Hot Topics

Migration Ideas

Get real-world advice and planning ideas from [Successful Migration: Q&A with a SAS 9 Early Adopter](#), an interview-style case study.

Sample Validation SOP

See an example [SOP: SAS Installation Qualification / Operational Qualification \(PDF\)](#) for the pharmaceutical industry

Contribute to the community!

Send mail to Migration.Feedback@sas.com and help us create FAQs.

Road Map

See the [Road Map to This Community](#) for a suggested

Proc Migrate(Help2)

Migration: PROC MIGRATE Documentation - Microsoft Internet Explorer

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アドレス(D) http://support.sas.com/rnd/migration/resources/procmigrate/index.html

support.sas.com > Communities > Migration

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Migration Community

Resources

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 - PROC MIGRATE**
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 - Case Studies, Papers, and FAQs
 - Glossary

PROC MIGRATE Documentation

Beginning in SAS 9.1, the migration process is simplified with the new MIGRATE procedure and validation tools. PROC MIGRATE not only copies or moves a library to the target installation, it also changes the members' file format to that of the most recent release of SAS, enabling you to exploit the full capabilities of the software. In addition, PROC MIGRATE provides some new functionality that the COPY, CPORT, CIMPORT, and CATALOG procedures do not.

[The MIGRATE Procedure](#)
is the full documentation, including PROC MIGRATE syntax and an explanation of how the validation tools work.

[Steps to Migrate a Library](#)
presents brief instructions for running PROC MIGRATE with validation tools. The validation tools are SAS code that is provided in two linked files.

[PROC MIGRATE Calculator](#)
is an interactive tool that guides you to the right instructions for your platform and library members.

SUGI Papers and Presentations

Related papers are available at [Migration Case Studies, Papers, and FAQs](#). Here is one SUGI 28 paper and associated presentation that focus on the role of PROC MIGRATE.

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イントラネット

SAS 9 and Life Sciences Solutions

- SDS(SAS Scientific Discovery Solutions)
 - RDM to ETL Studio, Metadata infrastructure
- SDD(SAS Drug Development)
 - Backend process, foundation products
 - New analytic functions, PROC CDISC
 - Metadata infrastructure
- Pharmacovigilance
 - NOW



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