

# **MIGRATION TO ENTERPRISE GUIDE**

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# COMPATIBILITY MATRIX

## SAS / ENTERPRISE GUIDE VERSIONS

	4.1	4.2	4.3	5.1	6.1	7.1
9.1	Y	N	N	N	N	N
9.2	L	Y	Y	Y	Y*	Y
9.3	N	N	Y*	Y	Y	Y
9.4	N	N	N	Y*	Y	Y

L : Limited support (Enterprise Guide and SAS on same host, no metadata)

\* With appropriate hotfixes applied

Note SAS 9.4 is not supported on Windows XP

<http://supportprod.unx.sas.com/kb/34/960.html>

## KEY FEATURES SAS / ENTERPRISE GUIDE VERSIONS

	4.1	4.2	4.3	5.1	6.1	7.1
Split code window / project view	Y	Y	Y	Y	Y	Y
Stored process creation	Y	Y	Y	Y	Y	Y
SAS Report layout builder	Y	Y	Y	Y	Y	Y
Post - it style project notes	Y	Y	Y	Y	Y	Y
Conditional execution	N	Y	Y	Y	Y	Y
Code Autocomplete / syntax hints	N	N	Y	Y	Y	Y
SAS Code analyser (*enhanced)	N	N	Y	Y	Y*	Y*
Data Explorer	N	N	N	Y	Y	Y
Support for parallel execution	N	N	N	Y	Y	Y
Export data as an XLSX file	N	N	N	Y	Y	Y
Code re-layout on Ctrl+i	N	N	N	Y	Y	Y
Log summary window	N	N	N	N	Y	Y
Code Versioning	N	N	N	N	N	Y
Bitness	32	32	32	32/64	32/64	32/64

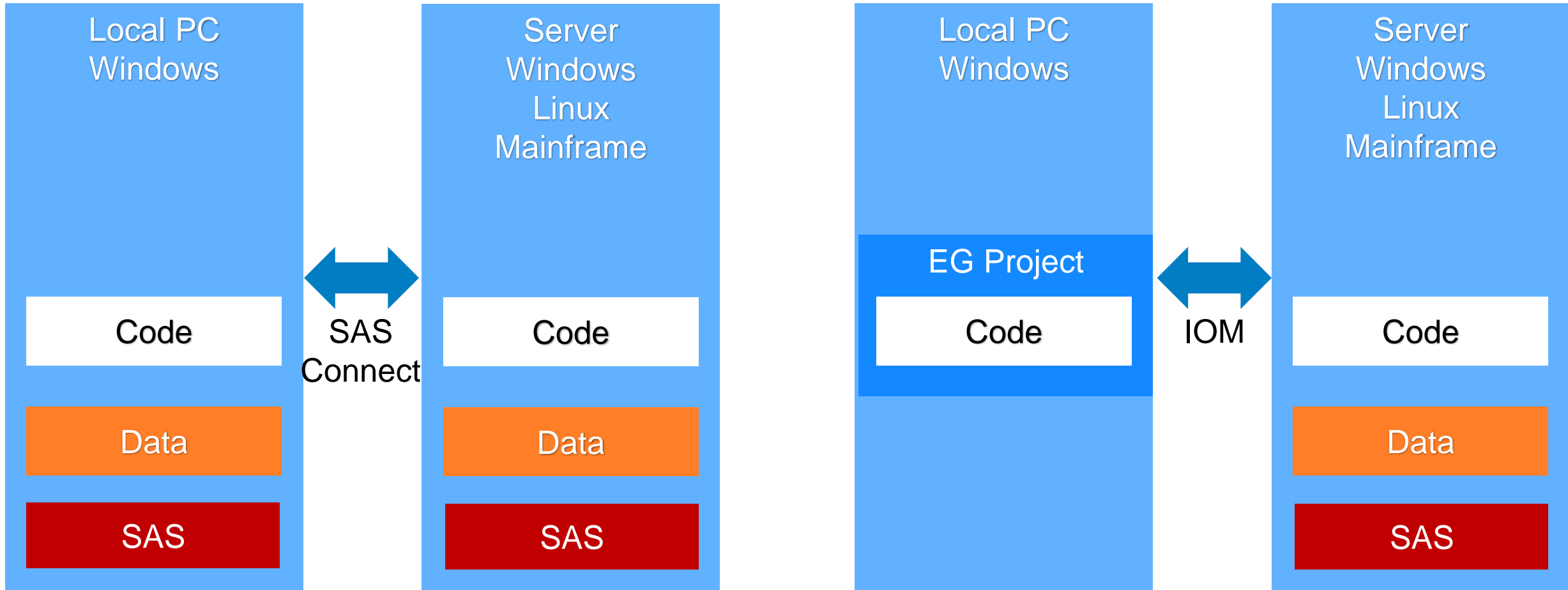
# HEADLINES FOR MIGRATION TO SAS ENTERPRISE GUIDE

DEMONSTRATION



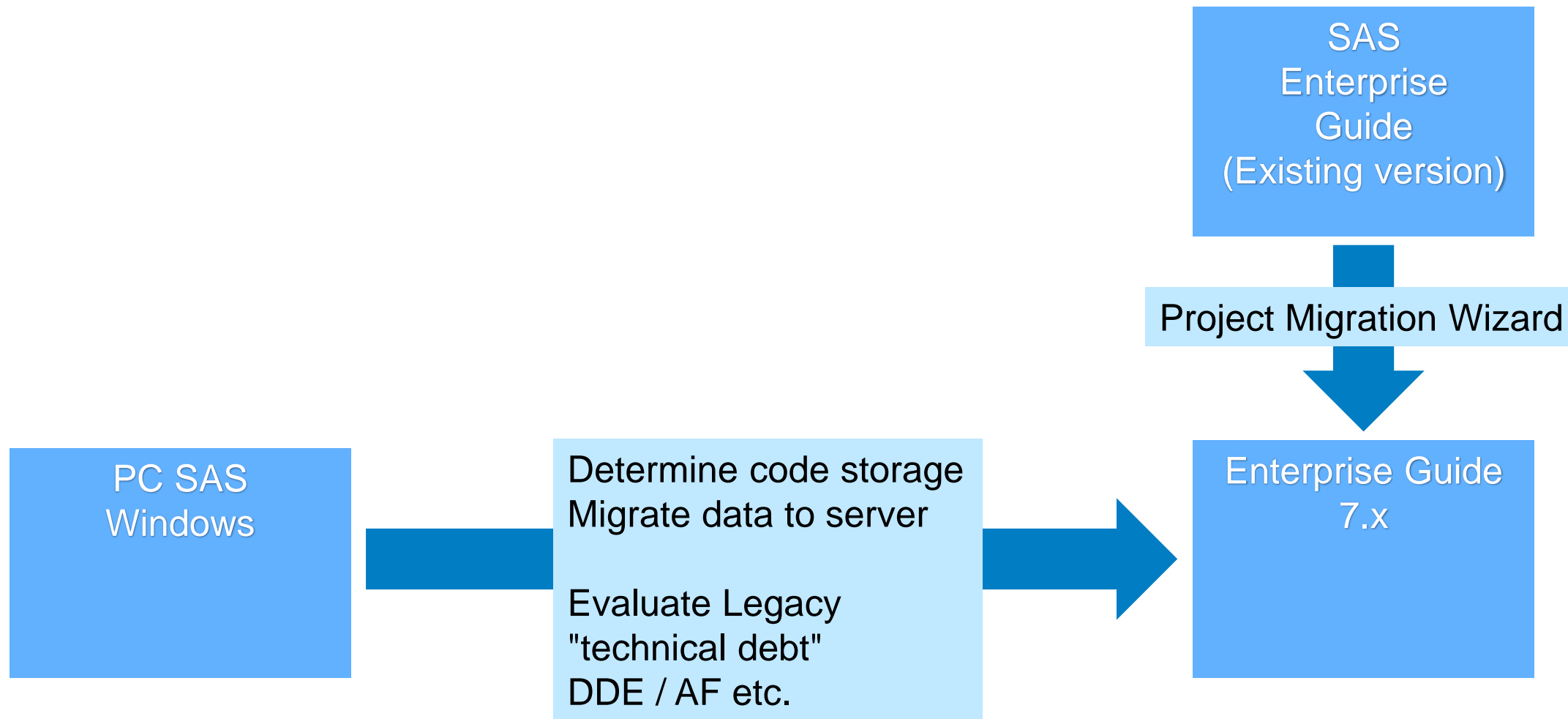
# MIGRATION

## CHANGE IN TOPOLOGY

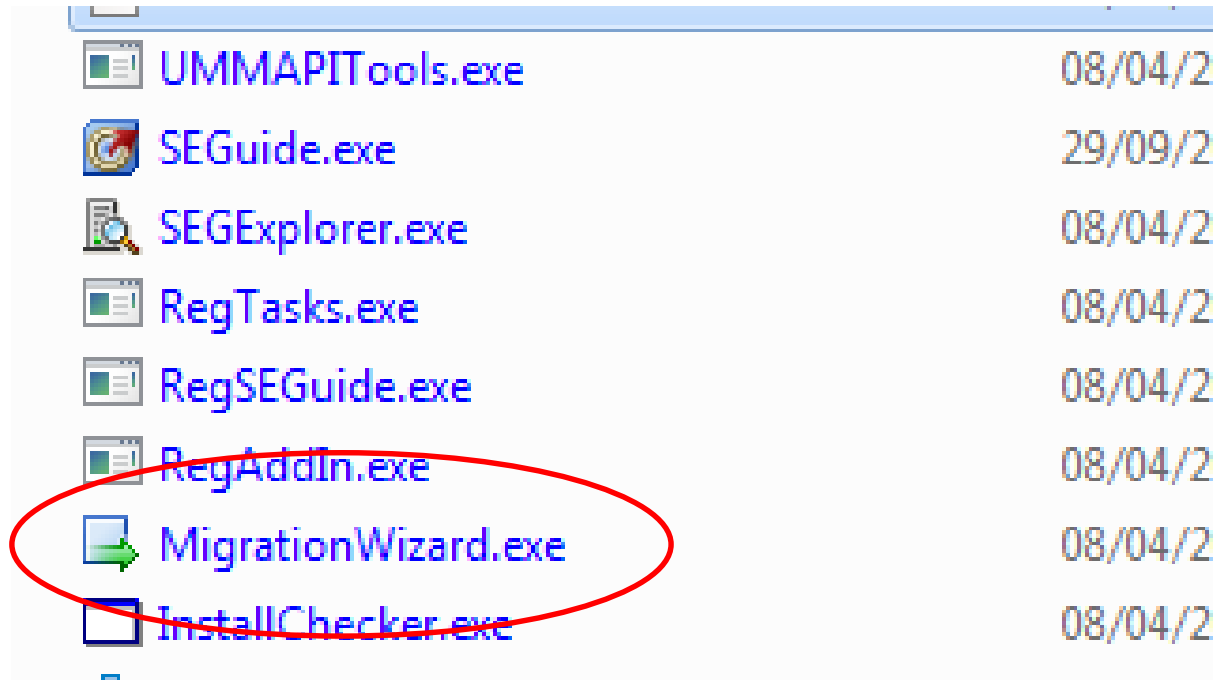


# MIGRATION

## ROUTES TO SAS ENTERPRISE GUIDE 7.X



## MIGRATION BULK MIGRATION WIZARD



UMMAPITools.exe	08/04/2
SEGuide.exe	29/09/2
SEExplorer.exe	08/04/2
RegTasks.exe	08/04/2
RegSEGuide.exe	08/04/2
RegAddIn.exe	08/04/2
MigrationWizard.exe	08/04/2
InstallChecker.exe	08/04/2

- The migration wizard is installed by default in the same folder as Enterprise Guide
- It allows bulk changes to server names / paths etc
- Use it to update multiple projects during migration and system updates

# MOVING FROM BASE SAS



## MIGRATION COMPARISON

	Base SAS	Enterprise Guide
Interface	Code	Code, Tasks, Wizards
Keyboard shortcuts	Basic	Extended
Syntax hints / autocomplete	No	Yes
Code analysis	Text based	Visual
Create Stored Processes	No	Yes
Run Stored Processes	Via code (proc STP) only	Interactive or code
Remote Submit	Yes with code wrapper	Yes
Grid aware	Yes with code wrapper	Yes
Metadata aware	Yes with code wrapper	Yes
Code versioning	No	Yes
Code "container"	SAS catalog or OS folder	Enterprise Guide Project
Data step Debugger	Yes	No: use PUT statements
Time to productivity	Short	Immediate

- No DDE / OLE - replace with SAS office add-in / stored processes
- No local storage of SAS datasets (ideally)
- No local processing of SAS data
- Enterprise Guide can import local PC files without SAS/Access to PC Files as it uses the Microsoft JET engine, not a SAS engine
- There is a task for uploading and downloading files to/from the server
  - This does not generate SAS code and cannot be scripted as a SAS program
  - But an Enterprise Guide project can be scheduled to run as required
  - And an export task can be included in a project

## **PREPARATION** ADMINISTRATOR QUESTIONS

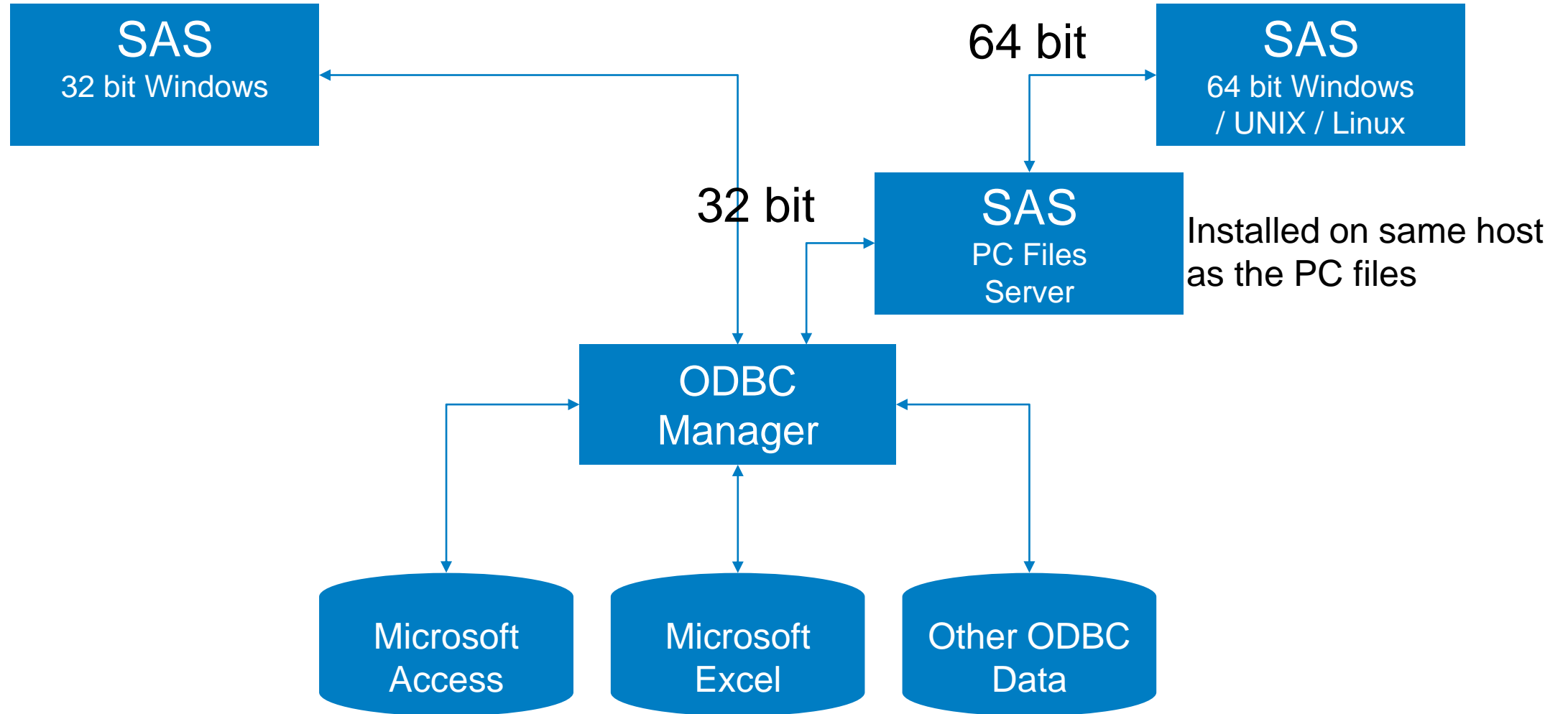
- Code audit
  - What needs to be kept?
  - What needs to be modified?
  - What needs to be re-developed?
- SAS data audit
  - What drives / paths can I use?
  - How are folders arranged on the server?
- Administration
  - What libraries need to be set up?
    - Will a change in Operating System or "bitness" be an issue?
  - What security needs to be in place?
- Other
  - Formats & other catalog items?
  - SAS/AF applications?

## COMMON PROBLEMS ODBC CONNECTIONS NO LONGER WORK

- SAS is available on 64 bit Windows as 32 or 64 bit
- 64 bit applications cannot use 32 bit ODBC drivers
- Solution is to add a SAS PC Files Server to bridge the bitness gap
- Free download from <http://support.sas.com/downloads/>
- You will need a (free) sas.com profile to download it

SAS PC Files Server						
Platform	Description	Request Download	Size	Uncompressed	Release Date	ReadME
Microsoft® Windows® for x64	SAS PC Files Server	<a href="#">pcfilesrv__94160__wx6__en__web__1.zip</a>	376MB	408MB	2014-08	<a href="#">pdf</a>   <a href="#">txt</a>
Windows	SAS PC Files Server	<a href="#">pcfilesrv__94160__win__en__web__1.zip</a>	479MB	512MB	2014-08	<a href="#">pdf</a>   <a href="#">txt</a>

## COMMON PROBLEMS ODBC CONNECTIONS NO LONGER WORK



## **PREPARATION** PROGRAMMER / ANALYST

- Code audit
  - What needs to be kept?
  - What needs to be modified?
    - Libnames
    - Paths
    - DDE/OLE?
  - What needs to be re-developed?
  - Where will I keep my files now?
  - What libraries should I use?
  - What can I do to exploit the new environment?

## PREPARATION CODE COMPARISON

### Base SAS

```
%let server3=127.0.0.1;
options comamid=tcp remote=server3;
filename rlink "C:\sas\connect\scripts\tcpunix.scr";
signon;
rsubmit;
    libname orion "C:\OrionStar";
    ods listing close;
    ods html style=meadow file="C:\temp\report1.html";
        proc print data=orion.customer_dim;
            run;
    ods html close;
    ods listing;
endrsubmit;
signoff;
```

### Enterprise Guide

```
proc print data=orion.customer_dim;
run;
```

- Server connections
- Output style
- Remote submission

Can all be defined in the project or in metadata

## **PREPARATION** USER ADOPTION

### Concerns...

- New interface
- Security framework
- "Dumbing down"

### But...

- The same syntax
- Single sign - on
- Valued resource

### And...

- More productive
- Time to productive shorter
- "Mix and match"