

IBM Spectrum Storage

*IBM Spectrum Protect for Mail Data Protection for Domino*

 Documentation for GSKit compatibility verification script

Document version 1.0

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Contents

[Introduction 3](#_Toc527106351)

[1 Documentation: “Solve\_GSKit\_Incompatibility\_Domino\_SP.pl”
*Operating systems: IBM AIX, Linux and Linux on IBM Z* 4](#_Toc527106352)

[Prerequisites 4](#_Toc527106353)

[Execution of the script 4](#_Toc527106354)

[2 Documentation: “Solve\_GSKit\_Incompatibility\_Domino\_SP.ps1”
*Operating systems: Windows 32-bit and Windows 64-bit* 8](#_Toc527106355)

[Execution of the script 8](#_Toc527106356)

[Notices 13](#_Toc527106357)

[Trademarks 15](#_Toc527106358)

# Introduction

For some IBM products GSKit libraries are also installed. These can either be local GSKit libraries or global GSKit libraries depending on the product.

IBM Spectrum Protect for Mail - Data Protection for Domino uses global GSKit libraries. On the other hand, IBM Domino uses local GSKit libraries. This may result in interoperability issues in case of different GSKit ICC library versions.

To ensure that IBM Spectrum Protect and IBM Domino use GSKit ICC libraries from a single source and that the latest of each version of GSKit ICC libraries is used, symbolic links can be created. In this regard, these white papers were released to guide users facing GSKit incompatibility issues between IBM Spectrum Protect and IBM Domino.

Download the appropriate GSKit compatibility verification script and the related module file depending on your operating system:

|  |  |  |
| --- | --- | --- |
| **Operating system** | **GSKit compatibility verification script** | **GSKit compatibility verification module** |
| IBM AIXLinuxLinux on IBM Z | Solve\_GSKit\_Incompatibility\_Domino\_SP.pl | Solve\_GSKit\_Incompatibility\_Domino\_SP.pm |
| Windows 32-bitWindows 64-bit | Solve\_GSKit\_Incompatibility\_Domino\_SP.ps1 | Solve\_GSKit\_Incompatibility\_Domino\_SP.psm1 |

Note: The verification script and the related module (see table above) must be in the same directory. Otherwise, the script will not run properly.

The documentation of each of these GSKit compatibility verification scripts can be found in the following sections:

* [IBM AIX, Linux and Linux on IBM Z](#_Documentation_:_\“Solve_GSKit_Incomp)

* [Windows 32-bit and Windows 64-bit](#_Documentation:_\“Solve_GSKit_Incompa)

# Documentation: “Solve\_GSKit\_Incompatibility\_Domino\_SP.pl” *Operating systems: IBM AIX, Linux and Linux on IBM Z*

Prerequisites**:**

* Install the Switch.pm Perl module.
* Download the 'Solve\_GSKit\_Incompatibility\_Domino\_SP.pl' script and the related Perl module file 'Solve\_GSKit\_Incompatibility\_Domino\_SP.pm' and save them in the same directory.

Execution of the script**:**

Depending on the value of the optional parameter, the script will behave differently. The following parameter values are possible:

* Parameter: *not set*

Result: The script’s usage information is printed out.

Syntax:

> perl Solve\_GSKit\_Incompatibility\_Domino\_SP.pl

Example:

> perl solve\_gskit\_incompatibility\_SP\_Domino.pl

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\*\*\* IBM Spectrum Protect for Mail Data Protection for Domino \*\*\*

\*\*\* GSKit compatibility verification \*\*\*

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Usage information

The script has a different behaviour depending on the command line parameter's value:

'fix': The symbolic links are automatically created if needed

'preview': The commands that need to be manually executed are printed out

'revert': The symbolic links are removed and the original configuration is restored

For example: perl solve\_gskit\_incompatibility\_SP\_Domino.pl preview

* Parameter: fix

Result: The symbolic links are automatically created if the version of IBM Spectrum Protect's ICC lib is more recent than IBM Domino's.

Syntax:

> perl Solve\_GSKit\_Incompatibility\_Domino\_SP.pl fix

Example:

> perl solve\_gskit\_incompatibility\_SP\_Domino.pl fix

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\*\*\* IBM Spectrum Protect for Mail Data Protection for Domino \*\*\*

\*\*\* GSKit compatibility verification \*\*\*

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Linux x86\_64 detected

Global GSKit installation detected: 8.0.50.86

Local ICC lib used by IBM Domino:

 Path: /opt/ibm/domino/notes/latest/linux/libgsk8iccs\_64.so

 Name: libgsk8iccs\_64.so

 Version: 8.0.13.3

Global ICC lib used by IBM Spectrum Protect:

 Path: /usr/local/ibm/gsk8\_64/lib64/libgsk8iccs\_64.so

 Name: libgsk8iccs\_64.so

 Version: 8.7.0.0

The version of IBM Spectrum Protect's ICC lib is more recent than IBM Domino's, a symbolic link in IBM Domino's directory to IBM Spectrum Protect's ICC lib needs to be created

The commands below need to be executed to create the required symbolic links:

 cd /opt/ibm/domino/notes/latest/linux

 mv libgsk8iccs\_64.so libgsk8iccs\_64.so.old

 mv C C\_old

 mv N N\_old

 ln -s /usr/local/ibm/gsk8\_64/lib64/libgsk8iccs\_64.so /opt/ibm/domino/notes/latest/linux/libgsk8iccs\_64.so

 ln -s /usr/local/ibm/gsk8\_64/lib64/C /opt/ibm/domino/notes/latest/linux/C

 ln -s /usr/local/ibm/gsk8\_64/lib64/N /opt/ibm/domino/notes/latest/linux/N

Fore more information: http://www-01.ibm.com/support/docview.wss?uid=swg22016067

Do you want the commands above to be executed ? (y/n)

y

The symbolic links were successfully created

> perl solve\_gskit\_incompatibility\_SP\_Domino.pl preview *(only for demo purpose)*

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\*\*\* IBM Spectrum Protect for Mail Data Protection for Domino \*\*\*

\*\*\* GSKit compatibility verification \*\*\*

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Linux x86\_64 detected

Global GSKit installation detected: 8.0.50.86

Local ICC lib used by IBM Domino:

 Path: /opt/ibm/domino/notes/latest/linux/libgsk8iccs\_64.so

 Target Path: /usr/local/ibm/gsk8\_64/lib64/libgsk8iccs\_64.so

 Name: libgsk8iccs\_64.so

 Version: 8.7.0.0

Global ICC lib used by IBM Spectrum Protect:

 Path: /usr/local/ibm/gsk8\_64/lib64/libgsk8iccs\_64.so

 Name: libgsk8iccs\_64.so

 Version: 8.7.0.0

IBM Spectrum Protect's ICC lib version is the same as IBM Domino's ICC lib version : Nothing to do

* Parameter: preview

Result: The list of commands that need to be executed by the user are printed out.

Syntax:

> perl Solve\_GSKit\_Incompatibility\_Domino\_SP.pl preview

Example:

> perl solve\_gskit\_incompatibility\_SP\_Domino.pl preview

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\*\*\* IBM Spectrum Protect for Mail Data Protection for Domino \*\*\*

\*\*\* GSKit compatibility verification \*\*\*

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Linux x86\_64 detected

Global GSKit installation detected: 8.0.50.86

Local ICC lib used by IBM Domino:

 Path: /opt/ibm/domino/notes/latest/linux/libgsk8iccs\_64.so

 Name: libgsk8iccs\_64.so

 Version: 8.0.13.3

Global ICC lib used by IBM Spectrum Protect:

 Path: /usr/local/ibm/gsk8\_64/lib64/libgsk8iccs\_64.so

 Name: libgsk8iccs\_64.so

 Version: 8.7.0.0

The version of IBM Spectrum Protect's ICC lib is more recent than IBM Domino's, a symbolic link in IBM Domino's directory to IBM Spectrum Protect's ICC lib needs to be created

The commands below need to be executed to create the required symbolic links:

 cd /opt/ibm/domino/notes/latest/linux

 mv libgsk8iccs\_64.so libgsk8iccs\_64.so.old

 mv C C\_old

 mv N N\_old

 ln -s /usr/local/ibm/gsk8\_64/lib64/libgsk8iccs\_64.so /opt/ibm/domino/notes/latest/linux/libgsk8iccs\_64.so

 ln -s /usr/local/ibm/gsk8\_64/lib64/C /opt/ibm/domino/notes/latest/linux/C

 ln -s /usr/local/ibm/gsk8\_64/lib64/N /opt/ibm/domino/notes/latest/linux/N

Fore more information: http://www-01.ibm.com/support/docview.wss?uid=swg22016067

* Parameter: revert

Result: The symbolic links are removed, and the original configuration is restored.

Syntax:

> perl Solve\_GSKit\_Incompatibility\_Domino\_SP.pl revert

Example:

> perl solve\_gskit\_incompatibility\_SP\_Domino.pl revert

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\*\*\* IBM Spectrum Protect for Mail Data Protection for Domino \*\*\*

\*\*\* GSKit compatibility verification \*\*\*

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Linux x86\_64 detected

Global GSKit installation detected: 8.0.50.86

Local ICC lib used by IBM Domino:

 Path: /opt/ibm/domino/notes/latest/linux/libgsk8iccs\_64.so

 Target Path: /usr/local/ibm/gsk8\_64/lib64/libgsk8iccs\_64.so

 Name: libgsk8iccs\_64.so

 Version: 8.7.0.0

Global ICC lib used by IBM Spectrum Protect:

 Path: /usr/local/ibm/gsk8\_64/lib64/libgsk8iccs\_64.so

 Name: libgsk8iccs\_64.so

 Version: 8.7.0.0

The symbolic links were successfully removed, the original configuration was restored

> perl solve\_gskit\_incompatibility\_SP\_Domino.pl preview *(only for demo purpose)*

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\*\*\* IBM Spectrum Protect for Mail Data Protection for Domino \*\*\*

\*\*\* GSKit compatibility verification \*\*\*

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Linux x86\_64 detected

Global GSKit installation detected: 8.0.50.86

Local ICC lib used by IBM Domino:

 Path: /opt/ibm/domino/notes/latest/linux/libgsk8iccs\_64.so

 Name: libgsk8iccs\_64.so

 Version: 8.0.13.3

Global ICC lib used by IBM Spectrum Protect:

 Path: /usr/local/ibm/gsk8\_64/lib64/libgsk8iccs\_64.so

 Name: libgsk8iccs\_64.so

 Version: 8.7.0.0

The version of IBM Spectrum Protect's ICC lib is more recent than IBM Domino's, a symbolic link in IBM Domino's directory to IBM Spectrum Protect's ICC lib needs to be created

The commands below need to be executed to create the required symbolic links:

 cd /opt/ibm/domino/notes/latest/linux

 mv libgsk8iccs\_64.so libgsk8iccs\_64.so.old

 mv C C\_old

 mv N N\_old

 ln -s /usr/local/ibm/gsk8\_64/lib64/libgsk8iccs\_64.so /opt/ibm/domino/notes/latest/linux/libgsk8iccs\_64.so

 ln -s /usr/local/ibm/gsk8\_64/lib64/C /opt/ibm/domino/notes/latest/linux/C

 ln -s /usr/local/ibm/gsk8\_64/lib64/N /opt/ibm/domino/notes/latest/linux/N

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# Documentation: “Solve\_GSKit\_Incompatibility\_Domino\_SP.ps1”*Operating systems: Windows 32-bit and Windows 64-bit*

Prerequisites**:**

* Download the 'Solve\_GSKit\_Incompatibility\_Domino\_SP.ps1' script and the related PowerShell module file 'Solve\_GSKit\_Incompatibility\_Domino\_SP.psm1' and save them in the same directory.
* Run the following command in PowerShell before executing the script to change the PowerShell execution policy:

>Set-ExecutionPolicy RemoteSigned

Execution of the script**:**

Run PowerShell as Administrator.

Note: If you are running a 64-bit version of Windows, run the script with a 64-bit version of PowerShell.

Depending on the value of the optional parameter, the script will behave differently. The following parameter values are possible:

* Parameter: *not set*

Result: The script’s usage information is printed out.

Syntax:

> .\Solve\_GSKit\_Incompatibility\_Domino\_SP.ps1

Example:

PS C:\Users\IBM\_ADMIN\Desktop\GSKit\_Solve\_Incompatibility\_Scripts\Windows> .\Solve\_GSKit\_Incompatibility\_Domino\_SP.ps1

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\*\*\* IBM Spectrum Protect for Mail Data Protection for Domino \*\*\*

\*\*\* GSKit compatibility verification \*\*\*

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Usage information

The script has a different behaviour depending on the command line parameter's value:

'fix': The symbolic links are automatically created if needed

'preview': The commands that need to be manually executed are printed out

'revert': The symbolic links are removed and the original configuration is restored

For example: perl solve\_gskit\_incompatibility\_SP\_Domino.pl preview

* Parameter: fix

Result: The symbolic links are automatically created if the version of IBM Spectrum Protect's ICC lib is more recent than IBM Domino's.

Syntax:

> .\Solve\_GSKit\_Incompatibility\_Domino\_SP.ps1 fix

Example:

PS C:\Users\IBM\_ADMIN\Desktop\GSKit\_Solve\_Incompatibility\_Scripts\Windows> .\Solve\_GSKit\_Incompatibility\_Domino\_SP.ps1 fix

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\*\*\* IBM Spectrum Protect for Mail Data Protection for Domino \*\*\*

\*\*\* GSKit compatibility verification \*\*\*

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The script detected a 64bit Windows OS

Global GSKit 8 32 bits installation detected:

 Version: 8.0.50.42

 Installation Path: C:\Program Files (x86)\ibm\gsk8\

Global ICC lib used by IBM Spectrum Protect

 Path: C:\Program Files\Common Files\Tivoli\TSM\api\gsk8\lib\gsk8iccs.dll

 Name: gsk8iccs.dll

 Version: 8.7.0.0

Local ICC lib used by IBM Domino

 Path: C:\Program Files (x86)\IBM\Notes\gsk8iccs.dll

 Name: gsk8iccs.dll

 Version: 8.3.8.0

The version of IBM Spectrum Protect's ICC lib is more recent than IBM Domino's, a symbolic link in IBM Domino's directory to IBM Spectrum Protect's ICC lib needs to be created

The commands below need to be executed to create the required symbolic links:

cd 'c:\Program Files (x86)\IBM\Notes\'

rename gsk8iccs.dll gsk8iccs.dll.old

rename C C\_old

rename N N\_old

mklink gsk8iccs.dll 'C:\Program Files\Common Files\Tivoli\TSM\api\gsk8\lib\gsk8iccs.dll'

mklink /d C 'C:\Program Files\Common Files\Tivoli\TSM\api\gsk8\lib\C'

mklink /d N 'C:\Program Files\Common Files\Tivoli\TSM\api\gsk8\lib\N'

Fore more information: http://www-01.ibm.com/support/docview.wss?uid=swg22016067

symbolic link created for gsk8iccs.dll <<===>> C:\Program Files\Common Files\Tivoli\TSM\api\gsk8\lib\gsk8iccs.dll

symbolic link created for C <<===>> C:\Program Files\Common Files\Tivoli\TSM\api\gsk8\lib\C

symbolic link created for N <<===>> C:\Program Files\Common Files\Tivoli\TSM\api\gsk8\lib\N

PS C:\Users\IBM\_ADMIN\Desktop\GSKit\_Solve\_Incompatibility\_Scripts\Windows> .\Solve\_GSKit\_Incompatibility\_Domino\_SP.ps1 preview *(only for demo purpose)*

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\*\*\* IBM Spectrum Protect for Mail Data Protection for Domino \*\*\*

\*\*\* GSKit compatibility verification \*\*\*

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The script detected a 64bit Windows OS

Global GSKit 8 32 bits installation detected:

 Version: 8.0.50.42

 Installation Path: C:\Program Files (x86)\ibm\gsk8\

Global ICC lib used by IBM Spectrum Protect

 Path: C:\Program Files\Common Files\Tivoli\TSM\api\gsk8\lib\gsk8iccs.dll

 Name: gsk8iccs.dll

 Version: 8.7.0.0

Local ICC lib used by IBM Domino

 Path: C:\Program Files (x86)\IBM\Notes\gsk8iccs.dll

 Target Path: C:\Program Files\Common Files\Tivoli\TSM\api\gsk8\lib\gsk8iccs.dll

 Name: gsk8iccs.dll

 Version: 8.7.0.0

IBM Spectrum Protect's ICC lib version is the same as IBM Domino's ICC lib version

* Parameter: preview

Result: The list of commands that need to be executed by the user are printed out.

Syntax:

> .\Solve\_GSKit\_Incompatibility\_Domino\_SP.ps1 preview

Example:

PS C:\Users\IBM\_ADMIN\Desktop\GSKit\_Solve\_Incompatibility\_Scripts\Windows> .\Solve\_GSKit\_Incompatibility\_Domino\_SP.ps1 preview

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\*\*\* IBM Spectrum Protect for Mail Data Protection for Domino \*\*\*

\*\*\* GSKit compatibility verification \*\*\*

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The script detected a 64bit Windows OS

Global GSKit 8 32 bits installation detected:

 Version: 8.0.50.42

 Installation Path: C:\Program Files (x86)\ibm\gsk8\

Global ICC lib used by IBM Spectrum Protect

 Path: C:\Program Files\Common Files\Tivoli\TSM\api\gsk8\lib\gsk8iccs.dll

 Name: gsk8iccs.dll

 Version: 8.7.0.0

Local ICC lib used by IBM Domino

 Path: C:\Program Files (x86)\IBM\Notes\gsk8iccs.dll

 Name: gsk8iccs.dll

 Version: 8.3.8.0

The version of IBM Spectrum Protect's ICC lib is more recent than IBM Domino's, a symbolic link in IBM Domino's directory to IBM Spectrum Protect's ICC lib needs to be created

The commands below need to be executed to create the required symbolic links:

cd 'c:\Program Files (x86)\IBM\Notes\'

rename gsk8iccs.dll gsk8iccs.dll.old

rename C C\_old

rename N N\_old

mklink gsk8iccs.dll 'C:\Program Files\Common Files\Tivoli\TSM\api\gsk8\lib\gsk8iccs.dll'

mklink /d C 'C:\Program Files\Common Files\Tivoli\TSM\api\gsk8\lib\C'

mklink /d N 'C:\Program Files\Common Files\Tivoli\TSM\api\gsk8\lib\N'

Fore more information: http://www-01.ibm.com/support/docview.wss?uid=swg22016067

* Parameter: revert

Result: The symbolic links are removed, and the original configuration is restored.

Syntax:

> .\Solve\_GSKit\_Incompatibility\_Domino\_SP.ps1 revert

Example:

PS C:\Users\IBM\_ADMIN\Desktop\GSKit\_Solve\_Incompatibility\_Scripts\Windows> .\Solve\_GSKit\_Incompatibility\_Domino\_SP.ps1 revert

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\*\*\* IBM Spectrum Protect for Mail Data Protection for Domino \*\*\*

\*\*\* GSKit compatibility verification \*\*\*

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The script detected a 64bit Windows OS

Global GSKit 8 32 bits installation detected:

 Version: 8.0.50.42

 Installation Path: C:\Program Files (x86)\ibm\gsk8\

Global ICC lib used by IBM Spectrum Protect

 Path: C:\Program Files\Common Files\Tivoli\TSM\api\gsk8\lib\gsk8iccs.dll

 Name: gsk8iccs.dll

 Version: 8.7.0.0

Local ICC lib used by IBM Domino

 Path: C:\Program Files (x86)\IBM\Notes\gsk8iccs.dll

 Target Path: C:\Program Files\Common Files\Tivoli\TSM\api\gsk8\lib\gsk8iccs.dll

 Name: gsk8iccs.dll

 Version: 8.7.0.0

The symbolic links were successfully removed, the original configuration was restored

PS C:\Users\IBM\_ADMIN\Desktop\GSKit\_Solve\_Incompatibility\_Scripts\Windows> .\Solve\_GSKit\_Incompatibility\_Domino\_SP.ps1 preview *(only for demo purpose)*

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\*\*\* IBM Spectrum Protect for Mail Data Protection for Domino \*\*\*

\*\*\* GSKit compatibility verification \*\*\*

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The script detected a 64bit Windows OS

Global GSKit 8 32 bits installation detected:

 Version: 8.0.50.42

 Installation Path: C:\Program Files (x86)\ibm\gsk8\

Global ICC lib used by IBM Spectrum Protect

 Path: C:\Program Files\Common Files\Tivoli\TSM\api\gsk8\lib\gsk8iccs.dll

 Name: gsk8iccs.dll

 Version: 8.7.0.0

Local ICC lib used by IBM Domino

 Path: C:\Program Files (x86)\IBM\Notes\gsk8iccs.dll

 Name: gsk8iccs.dll

 Version: 8.3.8.0

The version of IBM Spectrum Protect's ICC lib is more recent than IBM Domino's, a symbolic link in IBM Domino's directory to IBM Spectrum Protect's ICC lib needs to be created

The commands below need to be executed to create the required symbolic links:

cd 'c:\Program Files (x86)\IBM\Notes\'

rename gsk8iccs.dll gsk8iccs.dll.old

rename C C\_old

rename N N\_old

mklink gsk8iccs.dll 'C:\Program Files\Common Files\Tivoli\TSM\api\gsk8\lib\gsk8iccs.dll'

mklink /d C 'C:\Program Files\Common Files\Tivoli\TSM\api\gsk8\lib\C'

mklink /d N 'C:\Program Files\Common Files\Tivoli\TSM\api\gsk8\lib\N'

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