

Header Data

Released On 08.05.2013 09:16:50
Release Status Released for Customer
Component BC-MID-RFC RFC
Priority Recommendations / Additional Info
Category Consulting

Symptom

This note provides information about the classic RFC library. As of SAP NetWeaver 7.10, a new RFC library (and RFC SDK) has been released that is incompatible with the classic RFC library. This library is called "SAP NetWeaver RFC Library" (see Note 1025361).

After the maintenance end of SAP Release 7.10 (March 31, 2016), we no longer support the classic RFC SDK or the classic RFC library.

This end of maintenance also applies to SAP Releases 7.11 and 7.20.

Since the release of the downward compatible kernel 720 (see SAP Note 1629598), only the RFC library 7.20 is still delivered and maintained. The platforms supported as of this release are listed in SAP Note 825494.

The RFC library is upward and downward compatible on Unix and MS Windows platforms. This means that you can use the current RFC library to communicate with both older and newer R/3 Systems.

The RFC library is downward compatible on OS/400 and OS/390, but may not be upward compatible. This is due to the technical features of this operating system (signature management) and does not concern the function. If an RFC program is linked to a later version of the RFC library than the version installed in the system, starting the RFC program then fails with "signature violation".

Further libraries required by the RFC library

The Unicode RFC library requires additional libraries. For more information about this, see Notes 522119 (libsapu16), 566334 (libsapu16 on Windows) and 519753 (ICU libraries).

Where can I download the current RFC library?

The current RFC library is available from the SAP Software Distribution Center under

'<http://service.sap.com/swdc>'

To download it: Navigate as follows in the frame on the left-hand side of the screen -

- > SAP Support Packages and Patches
- > Browse our Download Catalog

Then, in the right-hand frame, choose:

- Support Packages and Patches
 - > Additional Components
 - > SAP Kernel
 - > SAP KERNEL <32/64-BIT [UNI CODE]>
 - > SAP KERNEL 7.20
 - > <your platform>
 - > #Database independent

The file librfc_XX-yyy-yyyy.SAR contains the RFC-library.

The unpacking procedure is performed with SAPCAR. SAPCAR is described in Note 212876. For information about replacing the (non-Unicode) RFC library (librfc32.dll) on Windows platforms, see Note 336693.

Which corrections are included in the RFC library currently available?

A note is provided for every correction and this note describes which problems are solved with the correction. You can access this list of corrections with the related notes using the info file. To display the info file, navigate to the RFC library on SAP Service Marketplace and choose the "Info" icon (on the right-hand side next to the "Patch Level" field).

How are versions created for the RFC library?

Version creation comprises the following parts:

Version - This is the SAP Basis Release.

Patch number - This is the current patch level of the Basis release.

SAR archive patch level - This refers to the digits 'XX' in the file name 'librfc_XX-yyy-yyyy.SAR'. This number is incremented with each new patch version. This information is only available during the download and has no relation to the version and patch number details.

How can I check the version of an RFC library?

You can check the version using the 'what' - on Unix platforms, or using the 'strings' - command on Linux as follows:

```
'what librfccm.<dll extension> |grep LIBRFC'  
'strings librfccm.<dll extension> |grep LIBRFC'
```

On Windows platforms, you can determine the version using the following steps:

```
with an installed Unix toolkit using a DOS box  
'what librfc32.dll |grep LIBRFC'  
using the DOS box (or console):  
find "LIBRFC" librfc32.dll  
with Windows Explorer:  
Start Windows Explorer  
Select librfc32.dll (or librfc32u.dll).  
Right mouse-click ->Properties->Version
```

Compiling RFC-enabled programs is described in Notes

11682 - Compiled from RFC programs

118227 - RFC described as "thread safe shared library" on UNIX.

Other Terms

Reason and Prerequisites

Not applicable

Solution

A solution is not required.

Other Attributes

Transaction codes **FILE**

Validity

This document is not restricted to a software component or software component version

References

This document refers to:

SAP Notes

- 1793690 [SAPLogonControl timeout in BEx applications](#)
- 1670328 [RFC tracing can not be turned off](#)
- 1491669 [HRE: SAP PLM Integration Unicode character sets](#)
- 1319517 [Unicode Collection Note](#)
- 1178752 [Short dump CALL_FUNCTION_NOT_FOUND and conversion problem](#)
- 1162662 [RFC Lib: Password change during connection setup](#)
- 1155814 ["Symbol not found" errors with RFC library on Solaris](#)
- 1144510 [RFC library does not deliver any version information](#)
- 1090204 [Memory Leak in libRFC](#)
- 1084953 [Correct code page when receiving MDMP tables using RFC](#)
- 1084757 [RFC Patch Collection 33 2007](#)
- 1032461 [MDX parser does not start](#)
- 966645 [Unicode executables and corrupt UTF-8 in call or environment](#)
- 955397 [RFC SDK on linux](#)
- 916775 [Core: Program terminated with signal 10, Bus error.](#)
- 915482 [DB2-z/OS: Automating DB failover](#)
- 910182 [Importing environment variables not thread save](#)
- 885058 [EasyDM: Unicode versions are required](#)
- 878860 [RFC tracing for ABAP-to-external communication](#)
- 877979 [RFC tracing for external-to-ABAP communication](#)
- 849112 [Unicode communication between big and little endian systems](#)
- 825494 [Supported platforms for RFC SDK](#)
- 762861 [RfcListen/RfcDispatch returns RFC_FAILURE instead of RFC_CLO](#)
- 758210 [RFC/CPIC Logon Failed, Reason=2,Type=S in SM20](#)

730844 [sapstartsrv.exe fails after exchanging librfc32u.dll](#)
 684106 [Microsoft runtime DLLs](#)
 676938 [Known problems with the RFCEXEC program](#)
 635083 [RFC fixed invalid clearance of allocated memory](#)
 633441 [Runtime analysis of RFC calls](#)
 619060 [QCI: New RFC server installation guide](#)
 608382 [Avoid splash screen when SAPGUI is started using RFC](#)
 607992 [Invalidation of the RFC links by ABAP exception](#)
 552646 [Sapshortcut: no Scripting, no Sessions in Saplogon menu](#)
 522119 [Shared library libsapu16 \(DLL for Unicode programs\)](#)
 519753 [Problems with ICU shared libraries](#)
 505712 [SAPphone Server: service is running but no longer accessible](#)
 447975 [TeaLeaf BW Extractor Service RFC Connection Failure](#)
 386600 [Availability of RfcSetTimeout APIs in 46D](#)
 336693 [Replacing or installing librfc32.dll on Microsoft Windows](#)
 212876 [The new archiving tool SAPCAR](#)
 27517 [installation of RFC SDK](#)

This document is referenced by:

SAP Notes (53)

966645 [Unicode executables and corrupt UTF-8 in call or environment](#)
 608382 [Avoid splash screen when SAPGUI is started using RFC](#)
 607992 [Invalidation of the RFC links by ABAP exception](#)
 1032461 [MDX parser does not start](#)
 849112 [Unicode communication between big and little endian systems](#)
 522119 [Shared library libsapu16 \(DLL for Unicode programs\)](#)
 519753 [Problems with ICU shared libraries](#)
 730844 [sapstartsrv.exe fails after exchanging librfc32u.dll](#)
 1162662 [RFC Lib: Password change during connection setup](#)
 1435174 [EHS OCC: "Unknown software error" when started from EHS](#)
 839636 [Termination w. RFC_CONVERSION_FIELD when you transfer logs](#)
 1155814 ["Symbol not found" errors with RFC library on Solaris](#)
 916775 [Core: Program terminated with signal 10, Bus error.](#)
 915482 [DB2-z/OS: Automating DB failover](#)
 1425520 [Disable NI cache for host and service names](#)
 1670328 [RFC tracing can not be turned off](#)
 575494 [Initiation of fallback for FastRFC connection](#)
 552646 [Sapshortcut: no Scripting, no Sessions in Saplogon menu](#)
 549268 [SAP JCo 2.x release and support strategy](#)
 777256 [LIBRFC FUNCTION 'RFC_SYSTEM_INFO' returns garbage](#)
 676938 [Known problems with the RFCEXEC program](#)
 1664732 [CPI-C: Client with wrong appc header version rejected](#)
 1090204 [Memory Leak in libRFC](#)
 635083 [RFC fixed invalid clearance of allocated memory](#)
 633441 [Runtime analysis of RFC calls](#)
 1084953 [Correct code page when receiving MDMP tables using RFC](#)
 1084757 [RFC Patch Collection 33 2007](#)
 910182 [Importing environment variables not thread save](#)
 619060 [QCI: New RFC server installation guide](#)
 1491669 [HRE: SAP PLM Integration Unicode character sets](#)
 878860 [RFC tracing for ABAP-to-external communication](#)
 877979 [RFC tracing for external-to-ABAP communication](#)
 2084037 [Potential information disclosure relating to RFC SDK](#)
 336693 [Replacing or installing librfc32.dll on Microsoft Windows](#)
 386600 [Availability of RfcSetTimeout APIs in 46D](#)
 212876 [The new archiving tool SAPCAR](#)
 27517 [installation of RFC SDK](#)
 505712 [SAPphone Server: service is running but no longer accessible](#)
 447975 [TeaLeaf BW Extractor Service RFC Connection Failure](#)
 1793690 [SAPLogonControl timeout in BEx applications](#)
 1535278 [Segmentation fault with RFC SDK Unicode libraries](#)
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 762861 [RfcListen/RfcDispatch returns RFC_FAILURE instead of RFC_CLO](#)
 1178752 [Short dump CALL_FUNCTION_NOT_FOUND and conversion problem](#)
 758210 [RFC/CPIC Logon Failed, Reason=2, Type=S in SM20](#)
 955397 [RFC SDK on linux](#)
 684106 [Microsoft runtime DLLs](#)
 825494 [Supported platforms for RFC SDK](#)
 1584944 [RFCIO_ERROR_NOMEM error message from RFCSDK](#)

1995588 [MDX: Problems calling the MDX parser](#)
1144510 [RFC library does not deliver any version information](#)
1326948 [BW service connection with extremely long SAP GUI router string](#)
1319517 [Unicode Collection Note](#)