**SAP**    **1005832 - Overview on RFC Libraries and SDKs**

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## Header Data

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**Release Status** Released for Customer
**Component**     BC-MID-RFC RFC
**Priority**      Recommendations / Additional Info
**Category**      Consulting

## Symptom

```
Which one of the available RFC Libraries and SDKs is the right one to choose?
Are the 3 RFC Libraries and SDKs compatible?
```

## Other Terms

```
Microsoft platforms: librfc32.dll, librfc32u.dll, sapnwrfc.dll
```

## Reason and Prerequisites

SAP has made 3 different RFC Library components available to customers and partners. Each RFC Library can be shipped by either an SAP application or for developers within a Software Development Kit (SDK).

The "classic" RFC Library components are compatible via the RFC protocol with any of the SAP backend systems since R/3, version 2.1. (Restrictions apply for MDMP systems. For individual MDMP solutions see SAP note #745030.) The NetWeaver RFC Library requires a SAP backend release of at least 4.0B.

Because the RFC Library exposes a developers interface (API), each version of a given RFC Library component can be replaced by a later version of the same RFC Library component. But no RFC Library component shall be replaced by another RFC Library component without adapting the application by development.

The major features of the RFC Library components are:

- "classic" RFC Library non Unicode

    o Suited for development of non-Unicode applications.

    o Supports the SAPGUI protocol.

    o Offers an API, which is not free of redundancies

    o Parameters of function modules are serialized depending on their data type (binary or xRFC).

- "classic" RFC Library Unicode

    o Suited for development of Unicode applications.

    o Does not support the SAPGUI protocol.

    o Offers an API, which is not free of redundancies.

    o Parameters of function modules are serialized depending on their data type (binary or xRFC).

- SAP NetWeaver RFC Library

    o Suited for non Unicode and Unicode applications.

    o Does not support the SAPGUI protocol, but allows SAPGUI to be started at begin of session.

    o Offers an API, which is free of redundancies.

    o Serializes in the classic RFC protocol as well as in the basXML protocol. basXML serializes all parameter types homogeniously, keeping applications apart from special treatment of xRFC.

The well-known "classic" RFC Libraries for non Unicode and Unicode shall be replaced by the SAP NetWeaver RFC Library.

## Solution

```
Choose the appropriate RFC Library.
For support and availability of the "classic" RFC Library for non Unicode as well as the "classic"
RFC Library for Unicode see SAP note #825494.
For support and availability of the SAP NetWeaver RFC Library see SAP note #1025361.
```

## Validity

| Software Component | From Rel. | To Rel. | And Subsequent |
|---|---|---|---|
| SAP RFCSDK | 7.10 | 7.10 | ☐ |
|  | 7.11 | 7.11 | ☐ |
| SAP RFCSDU | 7.00 | 7.00 | ☐ |
|  | 7.10 | 7.10 | ☐ |
| NWRFCSDK | 7.10 | 7.10 | ☐ |
|  | 7.11 | 7.11 | ☐ |
|  | 7.20 | 7.20 | ☐ |

## References

### This document refers to:

**SAP Notes**

| 1025361 | Installation, Support and Availability of the SAP NetWeaver RFC Library |
|---|---|
| 825494 | Supported platforms for RFC SDK |
| 27517 | installation of RFC SDK |

### This document is referenced by:

**SAP Notes (5)**

| 27517 | installation of RFC SDK |
|---|---|
| 1140031 | Security Note: rfcexec/startrfc Used in File Interfaces |
| 825494 | Supported platforms for RFC SDK |
| 1425520 | Disable NI cache for host and service names |
| 1025361 | Installation, Support and Availability of the SAP NetWeaver RFC Library |