News for mySAP Business Suite on IBM eServer zSeries with database server DB2 UDB for z/OS and OS/390 Version 2004Q2, status of July 16, 2004

Actual news and information,

literature / brochures / education / documents

Disclaimer: This is not a complete list!

It will show you the actual available information collected by me **AS IS**. I get it from several sources to give you some hints. It is my goal that you get an overview of the most important information for planning and installing mySAP on zSeries with DB2 for z/OS and OS/390 with this newsletter.

My plan is to send an updated newsletter on a **quarterly** base, hot messages excluded. Hot messages will be send immediately when there is a need to send them.

This is edition 2004Q2.

This information has been collected by
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Comments and/or additional input will be appreciated.

News for mySAP Business Suite on IBM eServer zSeries with database server DB2 UDB for z/OS and OS/390 Version 2004Q2, status of July 16, 2004

New information is marked **"red".**

Major changes and information in this version (2004Q2):

1   Hints to new or updated SAP notes or information include:

1.1 Update of SAP Note 81737 (V487),
     APARLIST, please check important updates in Q2 2004,
     updated june 18, 2004

1.2 Update of SAP Note 138906 (V73),
     Planning Info, updated june 22, 2004

1.3 Update of SAP Note 158875 (V55),
     Planned classes for R/3 on DB2 on z/OS for 2004, updated june 04, 2004

1.4 Update of SAP Note 742335 (V2),
     zSeries Problems with LOBs, updated june 17, 2004

1.5 Update of SAP Note 549268 (V33),
     SAP JCo Release and support strategy, updated june 18, 2004

1.6 Update of SAP Note 156554 (V70),
     Released operating systems.46x.zos.db2, updated june 15, 2004

1.7 New SAP Note 728743 (V2),
     DB2 V8 for SAP Components, released june 04, 2004

1.8 New SAP Note 717215 (V3),
     DB2 V8 configuration for SAP Rel. <= 4.6D, released june 17, 2004

1.9 Update of SAP Note 703892 (V15),
     Upgrade to 6.20 on AIX and zLinux, updated june 08, 2004

1.10 Update of SAP 660528 (V2),
     Requirements to run SAP Netweaver on zSeries, updated june 02, 2004

1.11 Update of SAP Note 710408 (V4),
     Prerequisites for Kernel 6.40 with WAS 6.10 / 6.20,
     updated june 07, 2004

**News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004**

2   New and/or updated literature

2.1   IBM Literature (Redbooks, Whitepapers etc.)

2.2   New and updated books by SAP PRESS:
(for details please look at SAP Press section in this document)

New: SAP System Landscape Optimization,
Author: A. Schneider-Neureither, language english,
2004, ISBN 1-59229-026-4, 220 pages

3   Additional upgrade paths now available for SAP on zSeries

Two additional upgrade paths have become available with the SAP on DB2 UDB for z/OS platform.
Since May 1, 2004 the SAP upgrade on AIX application servers and since June 1, 2004 the SAP upgrade on Linux for zSeries application servers has been available for all SAP component upgrades to the Web AS 6.20 technology and future releases.

With this, there are now four alternative upgrade platforms available for upgrades to Web AS 6.20:
   - z/OS USS Application Server
   - Linux for zSeries Application Server
   - AIX Application Server
   - Windows Application Server

For details please see SAP note 703892 for AIX and Linux for zSeries Upgrades to 6.20 for SAP on zSeries platform.

4   DB2 UDB for z/OS version 8 is available:

On 5/14/2004 SAP has released DB2 V8 for z/OS for all SAP components based on the SAP R/3 4.6 technology.
To date, the software is released for all SAP products with the SAP kernel: 4.6D.

For migration to DB2 V8 and prerequisites please refer to the SAP note: 728743

With this note SAP will keep you informed whenever additional SAP technology is enabled to run on DB2 V8.

**News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004**

News of 2004Q2

1   Hints to new or updated SAP notes or information include:

**1.1 Update of SAP Note 81737 (V487),
APARLIST, please check important updates in Q2 2004,
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**News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004**

1.7 **New SAP Note 728743 (V2),
DB2 V8 for SAP Components, released june 04, 2004**

**SAP Note Number: 728743
zSeries: Release of DB2 V8 for SAP Components**

Version: 2, Note Language: EN, Released on: 04.06.2004

Symptom

Introduction of DB2 V8 for z/OS running SAP systems

Other terms

zSeries, IBM, DB2 for z/OS, DB2 Connect, V8

Reason and Prerequisites

SAP releases IBM DB2 V8 for z/OS supporting SAP systems with several prerequisites. The general availability of DB2 V8 announced by IBM does not automatically imply the use of DB2 V8 with SAP systems.

After a staged verification and certification process for the different SAP releases SAP supports DB2 V8 with the corresponding SAP component releases.

Please pay attention to following notes.

Solution

The release and rollout of DB2 V8 with SAP is staged and depending from the SAP test and verification schedule. DB2 V8 is not yet available for OEM customers.

As general prereq customers need to deploy z/OS 1.4 or higher for the database server.

R/3 3.1:

    prereq: SAP Kernel:

            LIB_DBSL:

            ICLI PTF:

    release: on customer request

    limitation: + no Unicode support

            + no support of a SAP installation on DB2 V8

    note: 717215

R/3 4.0:

    prereq: SAP Kernel:

            LIB_DBSL:

            ICLI PTF:

    release: on customer request

News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004

limitation: + no Unicode support

       + no support of a SAP installation on DB2 V8

note: 717215

R/3 4.5:

   prereq: SAP Kernel:

       LIB_DBSL:

       ICLI PTF:

   release: on customer request

   limitation: + no Unicode support

       + no support of a SAP installation on DB2 V8

   note: 717215

R/3 4.6 and components based on it:

   prereq: SAP Kernel: 1811 ff.

       LIB_DBSL: 1795 ff.

       ICLI PTF: OA06552 or later

   release: since May 14, 2004

   limitation: + no Unicode support

       + support for ST04 with RFCOSCOL only

   note: 717215

Web AS 6.20 and components based on it:

   prereq: SAP Kernel:

       LIB_DBSL:

       DB2 Connect: V8.1 FixPak 6

   release: no support yet

   limitation: no Unicode support

NetWeaver and components based on it (Web AS 6.40):

   prereq: SAP Kernel:

       LIB_DBSL:

News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004

DB2 Connect: V8.1 FixPak 6

release: no support yet

limitation: + support for 32 bit application servers is restricted to non-Unicode systems;

+ support for z/OS and Solaris is restricted to ABAP non-Unicode stack;

Bernhard Heininger, Developent Manager at SAP AG

Release Status	Released for Customer
Released on	04.06.2004
Priority	Correction with high priority
Category	Release planning information
Primary Component	BC-DB-DB2 DB2 for OS/390
Secondary Components	BC-OP-S390 IBM OS/390, z/OS (incl. IBM JVM on OS/390 and z/OS

**News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004**

1.8 **New SAP Note 717215 (V3)
DB2 V8 configuration for SAP Rel. <= 4.6D, released june 17, 2004**

**SAP Note Number: 717215
DB2/zOS: DB2 V8 configuration for SAP rel. <= 4.6D**

Version: 3, Note Language: EN, Released on: 17.06.2004

News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004

Symptom

A DB2 for z/OS subsystem that hosts an SAP system on release <= 4.6D is to be migrated from V7 to V8.

Other terms

DB2 z/OS V8 Migration Upgrade ZPARM, System Parameter BIND

Reason and Prerequisites

Solution

As DB2 V8 introduces many enhancements that benefit SAP systems, some of the recommendations for DB2 system parameters that were given in the documentation "SAP R/3 on DB2 for OS/390 and z/OS: Planning Guide" of the respective SAP release need to be adapted and complemented by additional recommendations.

This note summarizes the system parameters with new value and setting recommendations for DB2 V8, as well as new BIND options. The Planning Guide recommendations for the system parameters that are not mentioned here are still valid. SAP Note 390016 contains the recommendations for system parameters that only apply to SAP BW systems. We recommend that you keep system parameters set to their default values if not otherwise stated in this SAP Note or in the Planning Guide of the respective release.

This note does NOT apply to SAP WebAS 6.10 and higher. See the "SAP Web AS 6.40: IBM DB2 UDB for z/OS - Database Administration Guide" for the system parameter recommendations for DB2 V8 and SAP WebAS 6.10, 6.20 and 6.40.

Highly Recommended Parameters with New Value Recommendations for DB2 V8:

- MGEXTSZ: YES

- SMFSTAT: 1,3,4,5,6 (DB2 V8 default)

Recommended Parameters with New Value Recommendations for DB2 V8:

- EDMPOOL: 32768 KB (DB2 V8 default)

- EDMSTMTC: 300 MB

- MAXKEEPD: 8000

- DSMAX: 10000   (DB2 V8 default)

- LOGAPSTG: 100 MB   (DB2 V8 default)

- MLMT: 4 GB

- CHKFREQ: 10 (minutes)

- LRDRTHLD: 10

- ACCUMACC: NO (only applies to SAP releases 3.1I - 4.6B)

Buffer Pool Setting Recommendations for DB2 V8:

- BP0 (catalog):   VPSIZE=2000, VPSEQT=50, DWQT=10, VDWQT=0

- BP1 (work files): VPSIZE=15000, VPSEQT=100, DWQT=50, VDWQT=10

- BP2 (4 KB TS):   VPSIZE=60000, VPSEQT=50, DWQT=30, VDWQT=5

- BP3 (index spaces): VPSIZE=90000, VPSEQT=40, DWQT=30, VDWQT=5

- BP4 (VB protocol): VPSIZE=1000, VPSEQT=10, DWQT=70, VDWQT=50

- BP8K0 (8 KB TS):   VPSIZE=3000, VPSEQT=50, DWQT=30, VDWQT=5

- BP16K0 (16 KB TS): VPSIZE=3000, VPSEQT=50, DWQT=30, VDWQT=5

- BP32K (32 KB TS):   VPSIZE=5500, VPSEQT=50, DWQT=30, VDWQT=5

We recommend that you allocate the maximum amount of real storage available for the buffer pools.

You should ONLY consider using the buffer pool attribute PGFIX=YES if sufficient real storage is available.

DB2 V8 BIND Options That Affect SAP Systems

DB2 V8 introduces a new BIND option REOPT(ONCE), which defers the preparation of SQL statements until the first set of values for parameter markers are available. For SAP releases >= 6.10 it is recommended you specify REOPT(ONCE), because this option enables the DB2 optimizer to select a better access path in some cases. However, if the EXPLAIN statement is invoked providing the statement text, it returns access path information that does not take the first set of parameter marker values into consideration. Since SAP always calls EXPLAIN with statement text in SAP releases <= 4.6D, it is not recommended that you use BIND option REOPT(ONCE) for these SAP releases.

Release Status	Released for Customer
Released on	17.06.2004
Priority	Recommendations/additional info
Category	Consulting
Primary Component	BC-DB-DB2 DB2 for OS/390

No attributes available

Soft. Component	Release Track	From Release	To Release	And Successors
SAP_APPL	30	31I	31I	
SAP_APPL	40	40B	40B	

**News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004**

SAP_APPL	45	45B	45B
SAP_APPL	46	46B	46B
SAP_APPL	46C	46C	46C
SAP_BASIS	46	46B	46B
SAP_BASIS	46C	46C	46D

No correction instruction available

No Support Packages available

Number	Short Text
0000728743	zSeries: Release of DB2 V8 for SAP Components

**News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004**

1.9 **Update of SAP Note 703892 (V15),
Upgrade to 6.20 on AIX and zLinux, updated june 08, 2004**

**SAP Note Number: 703892
DB2/390: Upgrade to 6.20 on AIX and zLinux**

Version: 15, Note Language: EN, Released on: 08.06.2004

News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004

Symptom

The note describes how to perform an upgrade to SAP 6.20 products on an AIX and zLinux application server.

Other terms

DB2 UDB on OS/390 OS390 AIX zLinux

Update, upgrade, release upgrade, release, maintenance level

Reason and Prerequisites

The following target releases are supported: BW 3.1, EBP 3.5SR1, R/3 4.7SR1, CRM 4.0/SRM 4.0, SCM 4.0, R/3 4.7 ExtSet 2.0 and CRM 3.1SR1.

Solution

Proceed as follows:

1) Read the DB2/390 specific upgrade note (see SAP notes listed below) and use the standard UNIX Upgrade Guide during the upgrade. You can ignore the comments that are directly related to the z/OS operating system (i.e. the iconv conversion of the ua.jar package before starting the Upgrade Assistant server). Otherwise, the actions to be taken are pretty much the same as on z/OS.

2) Call PREPARE in UNIX directory on the upgrade CD:

```
<UPG-CD>/UNIX/PREPARE upgdir=<DIR_PUT>
```

It finishes with the message:

```
Attention
=========
The upgrade on DB2 for OS/390 and z/OS with
operating system AIX/Linux is currently not supported.
```

3) Exchange <DIR_PUT>/bin/R3up by the latest version of the AIX or zLinux 620/6-R3up from SAP Service Marketplace (http://service.sap.com -> Software Distribution Center/swcenter -> support packages and patches).

4) If you want to use the Upgrade Assistant (UA) server, unpack the respective SAR-Archive into the upgrade directory <DIR_PUT> using:

```
<UPG-CD>/UNIX/AIX_64/SAPCAR -xvf <UPG-CD>/DATA/UA620.SAR
```

If there is no SAPCAR executable in directory <UPG-CD>/UNIX/AIX_64, download it from SAP Service Marketplace or use the one located in the kernel directory of the source system.

Subsequently, start the UA server via

```
cd <DIR_PUT>;
java -cp ua/ua.jar UaServer
```

5) Start PREPARE (via Upgrade Assistent or with 'bin/R3up check')

and run to dialog:

News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004

```
    Supply the following information:
    Confirm the name of your SAP system:
    SAP SYSTEM ID    =
```

in phase INITPUT_PRE.

6) The files CONF_NEW.LST, CONF_UPG.LST and CONF_PRE.LST located in directory <DIR_PUT>/bin need to be modi-fied. Remove the character '#' from the entries

```
    # "AIX"   "5.1" "5.1" "DB2forOS/390" ...
    # "Linux"  ""     ""  "DB2forOS/390" ...
```

close to the end of the CONF_*.LST files.

7) Continue phase INITPUT_PRE.

The input in this phase is slightly different from the z/OS case described in the UNIX Upgrade Guide. After the specification of the parameters for the JCL submission service you have to provide the following parameters:

- Port number for the 6.20 ICLI server

- User that starts the ICLI server

- High Level Qualifier for 6.20 ICLI-PTF

- Stop and start options for the ICLI server

- Port number for the 4.6D ICLI server (only start releases <= 4.5B)

- Installation options for SAP software components running on z/OS (saposcol, rfcoscol)

8) Continue with PREPARE and upgrade.

Release Status	Released for Customer
Released on	08.06.2004
Priority	Recommendations/additional info
Category	Consulting
Primary Component	BC-DB-DB2-UPG Upgrade mySAP.com with DB2 UDB for OS/390, z/OS
Secondary Components	BC-DB-DB2 DB2 for OS/390

No attributes available

Release-Independent

No correction instruction available

No Support Packages available

Number	Short Text
0000640516	DB2/390: Additions upgrade to R/3 4.7 Ext.Set 2.00
0000603278	DB2/390: Additions upgrade to SCM 4.0

News for mySAP Business Suite on IBM eServer zSeries with database server DB2 UDB for z/OS and OS/390 Version 2004Q2, status of July 16, 2004

0000600824	DB2/390: Additions upgrade to CRM 4.0 / SRM Server 4.0
0000585941	DB2/390: Additions upgrade to R/3 Enterprise 4.7 SR1
0000544569	DB2/390: Additions upgrade to BW 3.10
0000517278	DB2/390: Additions upgrade to CRM 3.1
0000493599	DB2/390: Additions upgrade to EBP 3.5

**News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004**

1.10 **Update of SAP 660528 (V2),
Requirements to run SAP Netweaver on zSeries, updated june 02, 2004**

**SAP Note Number: 660528
Requirements to run SAP NetWeaver on zSeries**

Version: 2, Note Language: EN, Released on: 02.06.2004

News for mySAP Business Suite on IBM eServer zSeries with database server DB2 UDB for z/OS and OS/390 Version 2004Q2, status of July 16, 2004

Symptom

Planning for SAP NetWeaver '04

Other terms

SAP NetWeaver; zSeries; DB2 V8; DB2Connect; Unicode; J2EE

Reason and Prerequisites

SAP upgrade to SAP NetWeaver technology

Solution

A) Prerequisites for the move to SAP NetWeaver technology

SAP NetWeaver configuration overview

Database Server

Hardware:zSeries (z800, z890, z900, z990)

Operating system: z/OS 1.4 ff.

Database: DB2 V8 ff.

               DB2 Connect V8 SP 6 ff.

Application Server

zSeries hardware: zSeries (z800, z890, z900, z990)

Workstation hardware: IBM pSeries, SUN Sparc, Intel-based server

Operating system: z/OS 1.4 ff.

               Linux for zSeries SLES 8 ff.

               AIX 5.1 ff.

               Solaris 8 ff. (restricted)

               Windows 2000 (32 bit) ff.

               Windows 2003 (32/64 bit) ff.

               32 bit platforms support for

                  non-Unicode components only

JDK: 1.4 ff.

News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004

SAP Kernel: SAP Web AS 6.40 ff.

SAP J2EE: SAP J2EE 6.30 SP 5 ff.

B) Migration scenarios for DB2 V8

It is important that Database Administrators at customer sites are familiar with the DB2 V7 to DB2 V8 migration process. A good place to start with is the "DB2 V8 Release Guide" and the related documentation and education material referenced there. SAP also offers a "Best Practices" Guide for the migration to DB2 V8. The DB2 V8 migration process is performed in stages.

1. Customers who already run a SAP solution migrate DB2 from version 7 to version 8 into DB2 V8 "Compatibility" mode. For SAP solutions this is a temporary stage and only supported as a runtime environment. SAP system installation, component add-on or system upgrades are not supported in this mode.

2. SAP NetWeaver components need several new functions of DB2 V8 and, therefore, require DB2 V8 to run in "New Function" mode.

New installations start using DB2 V8 in this mode.

This is also the final stage of the DB2 migration process from version 7 to version 8. There are no restrictions for SAP solutions when running on DB2 V8 in "New Function" mode.

Note: The DB2 migration process passes through an intermediate step to move from "Compatibility" mode to "New Function" mode, which is called "Enabling New Function" mode. This stage is very short and not enabled for SAP systems to be online. It is not allowed to run SAP systems when passing through this intermediate stage.

C) Application Servers for SAP NetWeaver

Based on the requirements that come with SAP NetWeaver the SAP application server on z/OS will support only specific services:

+ High Availability features like SAP Enqueue and Replication Server

+ Gateway and connectivity server

Application servers on z/OS do not run:

- any SAP Java application server component

- any SAP Unicode component

Application servers with 32-bit architecture like Windows do not run:

- SAP Unicode components

Note: Current SAP applications running on the SAP ABAP VM (non-Unicode) like ERP components are still supported with the application server on z/OS.

Application servers on AIX, Linux for zSeries and Windows fully support the new technology.

D) DB2 V8 and DB2 Connect Rollout

Once DB2 V8 is generally available on the market SAP certifies the new database version together with DB2 Connect to run with SAP components. After the certification the rollout to customers will happen in a staged approach.

News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004

Stage 1:

DB2 V8 is launched for R/3 4.6 based SAP solutions. In this case customers may decide at any time to migrate to DB2 V8. No action needs to be taken to run SAP software. An update of the CCMS programs is recommended to benefit from all monitoring information of DB2 V8.

Stage 2:

SAP releases the SAP NetWeaver components (BW, MI, WAS, XI) with DB2 V8. Only then customers can install SAP NetWeaver on zSeries. EP and MDM will not be available with the first NetWeaver release.

Stage 3:

SAP starts to release Web AS 6.20 based SAP solutions currently being shipped in parallel to the NetWeaver rollout on DB2 V8. The components will be enabled sequentially with the most important ones first. From then on customers may decide to migrate to DB2 V8 with their production systems at a schedule that convenes each individual customer. Solutions running DB2 V7 with ICLI connectivity are migrated to DB2 V8 with DRDA connectivity.

There is no SAP upgrade necessary, however, the most recent SAP kernel needs to be applied and DRDA needs to be switched on (parameter setting).

E) Informational Link

   http://service.sap.com/platforms

      -> Platform Specific Information

      -> IBM

      -> zSeries Announcement

regards,

Bernhard Heininger, Development Manager at SAP AG

Release Status	Released for Customer
Released on	02.06.2004
Priority	Correction with high priority
Category	Release planning information
Primary Component	BC-DB-DB2 DB2 for OS/390
Secondary Components	BC-OP-S390 IBM OS/390, z/OS (incl. IBM JVM on OS/390 and z/OS

News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004

1.11 **Update of SAP Note 710408 (V4),**
    Prerequisites for Kernel 6.40 with WAS 6.10 / 6.20,
    updated june 07, 2004

SAP Note Number: 710408
DB2-z/OS: Prerequisites Kernel 6.40 with WAS 6.10, 6.20

Version: 4, Note Language: EN, Released on: 07.06.2004

Symptom

Kernel 6.20 shall be replaced by downward compatible kernel 6.40.

Are there any changes in OS/DB requirements ?

Reason and Prerequisites

Kernel 6.20 is running out of maintenance by September 2005.

Solution

If you want to run SAP Web AS 6.10, 6.20 with kernel 6.40 the prerequisites according to 407325 remain unchanged.

Since z/OS 1.2 is running out of service at IBM in October 2004 and z/OS 1.3 in March 2005 it is strongly recommended to upgrade the operating system to z/OS 1.4 before the respective dates.

Also, it is recommended to upgrade your database to version 7.

SAP Web AS 6.40 requires DB2 V8 and z/OS 1.4 on the database server.

For more details please see note 660528.

Release Status	Released for Customer
Released on	07.06.2004
Priority	Recommendations/additional info
Category	FAQ
Primary Component	BC-DB-DB2 DB2 for OS/390

News for mySAP Business Suite on IBM eServer zSeries with database server DB2 UDB for z/OS and OS/390 Version 2004Q2, status of July 16, 2004

No attributes available				
Soft. Component	**Release Track**	**From Release**	**To Release**	**And Successors**
SAP_BASIS	60	610	620	
No correction instruction available				
No Support Packages available				

Number	Short Text
0000660528	Requirements to run SAP NetWeaver on zSeries
0000407325	Released operating systems SAP kernel 6.x DB2/390

News for mySAP Business Suite on IBM eServer zSeries with database server DB2 UDB for z/OS and OS/390 Version 2004Q2, status of July 16, 2004

2   New and/or updated literature

2.1 IBM Literature (Redbooks, Whitepapers etc.)

2.2 New and updated books by SAP PRESS:
(for details please look at SAP Press section in this document)

SAP System Landscape Optimization,
Author: A. Schneider-Neureither, language english,
2004, ISBN 1-59229-026-4, 220 pages, 79,95 Euro

SAP System Landscape Optimization

A. Schneider-Neureither (Ed.)

SAP PRESS
220 S., 2004, geb.
79,95 Euro, ISBN 1-59229-026-4

Rapid ROI by use of efficient systems

Optimization of architecture, business processes and support

Including first-hand information on NetWeaver system landscapes

This reference book serves as an essential collection of insights, procedures, processes and tools that help you unlock the full potential of your SAP systems. First, hit the ground running with a detailed introduction to SAP NetWeaver and the mySAP Business Suite. Then, elevate your mastery of key concepts such as system architecture, security, Change and Transport Management, to name just a few. All of the practical advice and detailed information provided is with a clear focus on helping you guide your team to achieve a faster return on investment.

The authors place a strong emphasis on architecture, software, service and support, as well as solution management -- each of which is thoroughly examined. Readers will also acquire an extensive understanding of concepts related to the optimization of key business processes by learning about performance, System Landscape Optimization (SLO), Workflow/WebFlow, and much more. This indispensable and easy-to-read guide can be consulted again and again.

3   Additional upgrade paths now available for SAP on zSeries

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with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004**

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Since May 1, 2004 the SAP upgrade on AIX application servers and since June 1, 2004 the SAP upgrade on Linux for zSeries application servers has been available for all SAP component upgrades to the Web AS 6.20 technology and future releases.

With this, there are now four alternative upgrade platforms available for upgrades to Web AS 6.20:
- z/OS USS Application Server
- Linux for zSeries Application Server
- AIX Application Server
- Windows Application Server

For details please see SAP note 703892 for AIX and Linux for zSeries Upgrades to 6.20 for SAP on zSeries platform.

4   DB2 UDB for z/OS version 8 is available:

On 5/14/2004 SAP has released DB2 V8 for z/OS for all SAP components based on the SAP R/3 4.6 technology.
To date, the software is released for all SAP products with the SAP kernel: 4.6D.

For migration to DB2 V8 and prerequisites please refer to the SAP note: 728743

With this note SAP will keep you informed whenever additional SAP technology is enabled to run on DB2 V8.

News for mySAP Business Suite on IBM eServer zSeries with database server DB2 UDB for z/OS and OS/390 Version 2004Q2, status of July 16, 2004

Overview / Planning and Installation information - IBM Redbooks

(IBM Redbooks can be found under www.redbooks.ibm.com)

IBM Redbook	IBM: SG24-4945-02	Implementation Experiences using AIX Appl. Servers and DB2 for OS/390 database server
	Status:	available, published Nov 22, 1999
	Remarks:	you can use it as a concept overview!
IBM Redbook	IBM: SG24-5840-00	SAP R/3 AppServer /390 Implementation Experiences
	Status:	available, published April 19, 2000
IBM Redbook	IBM: SG24-2078-01	Database Administration Experiences: SAP R/3 on DB2 for OS/390
	Status:	available, published April 22, 2000
IBM Redbook	IBM: SG24-6287-00	SAP on DB2 for z/OS and OS/390: DB2 System Cloning
	Status:	available, published November 14, 2001
IBM Redbook	IBM: SG24-5690-00	SAP R/3 on DB2 UDB for OS/390: Database Availability Considerations
	Status:	new, available, published March 1, 2001
IBM Redbook	IBM: SG24-2003-00	High Availability Considerations: SAP R/3 on DB2 for OS/390
	Status:	available, published April 20, 1998
	Remarks:	based on SAP R/3 3.1H, HACMP, Parallel Sysplex failover
IBM Redbook	IBM: SG24-5343-00	SAP R/3 on DB2 for OS/390: Disaster Recovery
	Status:	available, published October 12, 1999
IBM Redpaper	IBM: REDP-0131	SAP R/3 on DB2 for OS/390: DB2 Features that benefit SAP
	Status:	new, available, published May 30, 2001
IBM Redbook	IBM: SG24-5681-00	SAP Business Inform. Warehouse on OS/390
	Status:	available, published September 12, 2000

News for mySAP Business Suite on IBM eServer zSeries with database server DB2 UDB for z/OS and OS/390 Version 2004Q2, status of July 16, 2004

IBM Redbook	IBM: SG24-6508-00	DB2 for z/OS and OS/390
		Tools for Performance Management
	Status:	available, published November 14, 2001
IBM Redbook	IBM: SG24-6420-01	DB2 for z/OS, Tools for Database,
		Administration and Change Management
	Status:	available, published july 28, 2003
IBM Redpaper	IBM: REDP-3687-00	Linux on IBM zSeries and S/390,
		Building SuSE SLES8 systems under z/VM
	Status:	available, published august 03, 2003
IBM Redpaper	IBM: REDP-3717-00	mySAP Business Suite Managed by IBM
		Tivoli System Automation for Linux
	Status:	available, updated november, 2003
IBM Redbook	IBM: SG24-6435	DB2 for z/OS and OS/390:
		Ready for Java,
	Status:	available, published december 3, 2003
IBM Redbook	IBM: SG24-6871	DB2 UDB for z/OS Version 8
		Technical Preview:
	Status:	available, updated september 26, 2003
IBM Redpiece	IBM: SG24-6097	DB2 UDB for z/OS Version 8:
		Through the looking glass and
		what SAP found there,
	Status:	not available yet, will be available in
		december 3, 2003

News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004

Overview / Planning and Installation information - Planning Guides

SAP IBM Planning Guide: SC33-7965-03   SAP R/3 on DB2 UDB for OS/390 and z/OS
Connectivity Guide
    Status: available since august 26, 2001

SAP IBM Planning Guide: SC33-7959-01   SAP R/3 on DB2 UDB for OS/390
Planning Guide
(SAP Web Application Server 6.20)
    Status: available since October 2002

SAP IBM Planning Guide: SC33-7959-00   SAP R/3 on DB2 UDB for OS/390
Planning Guide
(SAP Web Application Server 6.10)
    Status: available since august 26, 2001

IBM Planning Guide IBM: SC33-7966-03 Planning Guide 4.6D
                              SAP: SAP R/3 on DB2 for OS/390: Planning Guide
SAP R/3 Release 4.6D
                              status: available

IBM Planning Guide IBM: SC33-7966-02 Planning Guide 4.6C
                              SAP: SAP R/3 on DB2 for OS/390: Planning Guide
SAP R/3 Release 4.6C
                              status: available

IBM Planning Guide IBM: SC33-7966-01 Planning Guide 4.6B
                              SAP: 51006841 SAP R/3 on DB2 for OS/390: Planning Guide
SAP R/3 Release 4.6B
                              status: available

**News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004**

Additional useful literature for implementing SAP R/3 on S/390

IBM Overview	G544-5696-01	Info Print Server Introduction Brochure
IBM Redbook	SG24-6234-00 status:	z/OS Infoprint Server Implementation available since september 25, 2001
IBM Redpaper	REDP0160 status:	zSeries HiperSockets Implementation available since december 02, 2001
IBM Redbook	SG24-5443-00 status:	S/390 OSA Express Gigabit Ethernet Implementation Guide available
IBM Redbook	SG24-5448-01 status:	OSA Express Implementation Guide available since march 30, 2001
IBM Redbook	SG24-3687-03 status:	TCP/IP for MVS Implementation Guide available
IBM Redbook	SG24-5235-00 status:	TCP/IP in a SYSPLEX available
IBM Redbook	SG24-5447-00 status:	Networked Applications on OS/390 UNIX available
IBM Redbook	SG24-5631-00 status:	Secureway Communicationsserver for OS/390 V2R8 TCP/IP Guide available
IBM Redbook	SG24-2241-01 status:	IMPLEMENTING SNAPSHOT available
IBM Redbook	SG24-5268-00 status:	DFSMSdss SnapShot and Virtual ConcurrentCopy available
IBM Redpiece	SG24-6405-00 status:	IBM Content Manager CommonStore for Domino, Exchange and SAP available since october 3, 2001

**News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004**

Other IBM Redbooks

concerning High Availability with SAP R/3 and S/390

zSeries:

SG24-2079-00	Parallel Sysplex Operational Scenarios (Dec. 2, 1998)
SG24-5637-00	OS/390 Par. Sysplex Configuration,Vol.1: Overview (Sep. 12, 2000)
SG24-5638-00	OS/390 Par. Sysplex Configuration,Vol.2: Cookbook (Sep. 12, 2000)
SG24-5639-00	OS/390 Par. Sysplex Configur., Vol. 3: Connectivity (Sep. 12, 2000)
SG24-4502-00	PAR. SYSPLEX CONT. AVAIL. PRES. GUIDE (1995)
SG24-4503-00	PAR. SYSPLEX CONT. AVAIL. SE GUIDE (1995)
SG24-4514-00	A COMPARISON OF SYSTEM/390 CONFIGURATIONS - PARALLEL AND TRADITIONAL (1995)
SG24-4776-00	JES3 IN A PARALLEL SYSPLEX (1996)
SG24-5441-00	Parallel Sysplex Automation Guidelines (updated 04 / 2000)
SG24-5442-00	Parallel Sysplex Automation: Using System Automation for OS/390 (09 / 1999)

pSeries and RS/6000:

SG24-4498-00	HACMP/6000 Customization Examples
SG24-4551-00	HIGH AVAILABILITY ON THE RISC SYSTEM/6000 FAMILY
SG24-4838-00	RS/6000 SP HIGH AVAILABILITY INFRASTRUCTURE
SG24-4742-00	IMPLEMENTING HIGH AVAILABILITY ON RISC/6000 SP
SG24-4873-00	RS/6000 SP MONITORING: KEEPING IT ALIVE

xSeries and PC Server/NT:

SG24-4760-03	IBM NETFINITY AND PC SERVER TECHNOLOGY AND SELECTION REFERENCE
SG24-5170-00	High Availability for SAP R/3 on NT Servers
SG24-5431-00	Backup Solutions for Netfinity and SAP R/3 on WinNT

Systems Management/Tivoli:

SG24-2032-00	IMPLEMENTING TME 10 IN HIGH AVAILABILITY ENV.
SG24-2071-00	INTEGRATING TME 10 ON THE RS/6000 SP
SG24-5298-00	Managing SAP R/3 with TIVOLI

You can find redbooks online via www.redbooks.ibm.com . Drafts of not already published redbooks but which are under development are available via www.redbooks.ibm.com as "red-pieces". Other books e.g. actual planning guides can be found via www.s390.ibm.com/os390/bkserv/latest.html and the link "SAP R/3 on DB2 for OS/390 books"

News for mySAP Business Suite on IBM eServer zSeries with database server DB2 UDB for z/OS and OS/390 Version 2004Q2, status of July 16, 2004

Additional useful literature concerning SAP knowledge from SAP Press (Galileo Press)

There is a series of books available from the publisher Galileo Press produced together with SAP. Info about these books via a monthly SAP Press Newsletter can be requested by sending your email address to SAP Press c/o Galileo Press, Gartenstr. 24, D-53229 Bonn, Germany. Members of DSAG can order online with DSAG terms and conditions (rebate of 15%, without shipment costs) via www.sap-press.de/dsag .

SAP Expertenwissen - Die offizielle SAP-Zertifizierungsreihe
(SAP expert knowledge - the official SAP certification series)

SAP Web Application Server, german
Entwicklung von Web-Anwendungen
Author: Frédéric Heinemann, Christian Rau, language german,
January 2003, ISBN 3-89842-213-5, 556 pages, with 2 CDs, € 59,90

mySAP Technology, german
Einführung in die neue Technologie-Plattform der SAP
Author: Günther Färber, Julia Kirchner, language german,
2002, ISBN 3-89842-266-6, about 300 pages, € 49,90

mySAP Technology, english
Introduction into the new technology platform of SAP
Author: Günther Färber, Julia Kirchner, language english,
January 2003, ISBN 1-59229-009-4, about 300 pages, € 59,90

SAP GUIDE Systemadministration, german
Schritt für Schritt Anleitungen für die Praxis
Author: SAP Labs, language german,
2002, ISBN 3-89842-208-9, about 792 pages, € 59,90

Release 4.6 with a view to R/3 Enterprise!
SAP R/3 Systemadministration -
Basiswissen für das SAP R/3-Systemmanagement, german
Author: Liane Will, Sigrid Hagemann; language german,
2003 update, ISBN 3-89842-308-5, 564 pages, € 59,90 (updated and extended)

SAP R/3 Systemadministration, english
Author: Liane Will, Sigrid Hagemann, language english,
March 2003, ISBN: 1-59229-014-0, 520 pages, € 59,95

News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004

SAP Enterprise Services Architecture, german
SAPs Bauplan für Geschäftsapplikationen
Author: Dan Woods
2004, ISBN 3-89842-508-8, about 200 pages, € 49,90

Enterprise Services Architecture

SAPs Bauplan für Geschäftsapplikationen der nächsten Generation

Dan Woods
SAP PRESS
200 S., 2004, geb.
49,90 Euro, ISBN 3-89842-508-8

## Service-orientierte Software: Bausteine für die Zukunft Ihres Unternehmens

Dieses Buch stellt Ihnen SAPs Zukunftsmodell für service-orientierte Geschäftsapplikationen auf Basis von SAP NetWeaver vor. Mit der Enterprise Services Architecture (ESA) beschreibt die SAP ein Konzept, das in seiner Tragweite dem Entwurf der Three-Tier-Architektur Anfang der Neunziger Jahre um nichts nachsteht: So wird es in Zukunft keine monolithischen Großanwendungen mehr geben, sondern handliche Einzelapplikationen pro Geschäftsprozess (im Fall von SAP: xApps), die sich – basierend auf Webservice-Standards – miteinander austauschen und vernetzen.

Das Buch erläutert ausgehend vom Grundkonzept der ESA, welche Leistungen service-orientierte Applikationen erbringen können und wie der Business Case für ESA-Anwendungen aussieht; es erläutert den Aufbau dieser Applikationen und die Anforderungen an die Plattform, auf der sie laufen. Schließlich erfahren Sie, wie Sie auf sanfte Art damit beginnen können, die IT Ihres Unternehmens Stück für Stück mit service-orientierten Applikationen umzubauen.

SAP Enterprise Services Architecture, english
Author: Dan Woods
September 2003, € 29,00
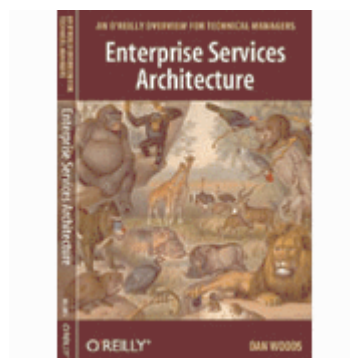
Enterprise Services Architecture
By Dan Woods
September 2003

Enterprise Services Architecture outlines a disciplined and structured approach to understanding how today's enterprise applications will make use of web services. This book, aimed at senior management and IT professionals, presents a forward-looking architecture that can meet future development challenges with ease and agility. This book was commissioned by SAP and will be used by SAP to promote their products. We're making it available through our retailers because we believe the information in it is of interest to readers outside of SAP's immediate sphere.

Price: **29,00 EUR per Piece**

SAP System Operations, english

**News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004**

**Authors: M. Missbach, R. Sosnitzka, J. Stelzel, M. Wilhelm
2004, ISBN 1-59229-025-8, about 350 pages, € 79,95**

SAP System Operations

M. Missbach, R. Sosnitzka, J. Stelzel, M. Wilhelm

SAP PRESS
355 S., 2004, geb.
79,95 Euro, ISBN 1-59229-025-8

Practical solutions to streamline 24/7 operations Advice to conquer your biggest change management challenges Service Level Agreements, disaster recovery, security and more.

With system landscapes becoming increasingly more complex, administering them efficiently is proving equally difficult. This unique new book provides you with concepts and practical solutions that will enable you to optimize your SAP operations. Get in-depth information to set up a viable Standard Operation Environment (SOE) for SAP systems, as well as time-saving tips for certification and validation of your system landscape. Plus, benefit from and customize the numerous examples and case studies extracted from the worldwide operations of many large SAP customers.

Take advantage of proven solutions, exclusive tips, and practical examples that enable you to better organize your SAP operations. Learn to streamline 24/7 operations, exploit Service Level Agreements (SLAs), conquer change management challenges, and tackle disaster recovery and security concerns with confidence. You'll also discover expert training recommendations for the management of IT processes. Plus, read about real-world, cross-industry customer insights on the pros and cons of outsourced solutions for your system operation tasks. Although SAP System Operations primarily focuses on SAP systems, you can apply many of the principles found in this indispensable reference book to other ERP and mission-critical software solutions.

SAP System Landscape Optimization,
Author: A. Schneider-Neureither, language english,
2004, ISBN 1-59229-026-4, 220 pages

SAP System Landscape Optimization

[A. Schneider-Neureither (Ed.)](#)

SAP PRESS
220 S., 2004, geb.
79,95 Euro, ISBN 1-59229-026-4

Rapid ROI by use of efficient systems

Optimization of architecture, business processes and support

Including first-hand information on NetWeaver system landscapes

This reference book serves as an essential collection of insights, procedures, processes and tools that help you unlock the full potential of your SAP systems. First, hit the ground running with a detailed introduction to SAP NetWeaver and the mySAP Business Suite. Then, elevate your mastery of key concepts such as system architecture, security, Change and Transport Management, to name just a few. All of the practical advice and detailed information provided is with a clear focus on helping you guide your team to achieve a faster return on investment.

The authors place a strong emphasis on architecture, software, service and support, as well as solution management -- each of which is thoroughly examined. Readers will also acquire an extensive understanding of concepts related to the optimization of key business processes by learning about performance, System Landscape Optimization (SLO), Workflow/WebFlow, and much more. This indispensable and easy-to-read guide can be consulted again and again.

News for mySAP Business Suite on IBM eServer zSeries with database server DB2 UDB for z/OS and OS/390 Version 2004Q2, status of July 16, 2004

SAP Performanceoptimierung,
Analyse und Tuning von SAP Systemen, german
Author: Thomas Schneider, language german,
Updated 2003, ISBN 3-89842-357-3, € 59,90, 527 pages, 3rd edition (updated and extended)

SAP R/3 Performance Optimization Guide: The Official SAP Guide, english
Author: Thomas Schneider, language english,
ISBN: 1-59229-022-1, about 500 pages, € 59,95, 3rd edition (updated and extended)

Einführung von SAP R/3 mit ASAP -
Technische Implementierung von SAP R/3 planen und realisieren, german
Author: Hartwig Brand, language german, ISBN 3-9343-5816-0, € 59,90

SAP R/3 implementation with ASAP: The Official SAP Guide, english
Author: Hartwig Brand, language english, 512 pages
- Bk&Cd Rom (Januar 1999) Sybex Inc; ISBN: 0-7821-2427-5, € 59,90

SAP R/3 Änderungs- und Transportmanagement,
R/3 Systemlandschaft implementieren und warten, german
Authors: Sue McFarland Metzger, Susanne Röhrs
2000, ISBN: 3-9343-5842-X, about 690 pages, with CD, € 59,90

Sicherheit und Datenschutz mit SAP-Systemen,
Maßnahmen für die betriebliche Praxis, german
Authors: Werner Homberger, Jürgen Schneider
436 pages, Galileo Press; ISBN: 3-9343-5822-5, € 61,30

SAP-Systembetrieb, german
Standard Operation Environment für mySAP- und R/3 Enterprise Systeme
Author: Michael Mißbach, Mathias Wilhelm
March 2003, ISBN 3-89842-297-6, 357 pages, € 79,90

mySAP HR, german
Technische Grundlagen und Programmierung
Authors: Ewald Brochhausen, Jürgen Kielisch, Jürgen Schnerring, Jens Staeck
December 2002, ISBN 3-89842-335-2, about 400 pages, € 59,90

Hardware-Lösungen für SAP Systeme, german
Entwicklung von Web-Anwendungen
Authors: Michael Mißbach, Uwe M. Hoffmann
2001, ISBN 3-89842-124-4, about 450 pages, € 99,90

News for mySAP Business Suite on IBM eServer zSeries with database server DB2 UDB for z/OS and OS/390 Version 2004Q2, status of July 16, 2004

Datenarchivierung mit SAP, german
Praktisches Handbuch für Archivierungsprojekte
Author: Helmut Stefani
2002, ISBN 3-89842-212-7, about 375 pages, € 59,90

Archiving your SAP Data, english
Author: Helmut Stefani
January 2003, ISBN 1-59229-008-6, about 360 pages, € 59,90

Die Service- und Supportstrategie der SAP, german
Kontinuierliche Kundenzufriedenheit im Fokus
Author: Gerhard Oswald
January 2003, ISBN 3-89842-334-4, about 200 pages, € 49,90

New:
SAP Service and Support, english
An A-to-Z guide to optimizing ROI and TCO
Author: Gerhard Oswald
2003, ISBN 1-59229-015-9, about 200 pages, € 59,95

New:
Datenmigration in SAP R/3, german
Migrieren Sie Ihre Daten ohne Programmieraufwand
Author: Michael Willinger, Johann Gradl
2003, ISBN 3-89842-364-6, about 300 pages, € 79,90

New:
SAP-Systemlandschaften optimieren, german
Schneller ROI durch optimierte Systeme
Author: Andreas Schneider-Neureither,
December 2003, ISBN 3-89842-409-X, about 250 pages, € 79,90

New:
SAP R/3 Reporting, german
Berichte erstellen – Reportingtools sinnvoll wählen und anwenden
Author: SAP Labs,
November 2003, ISBN 3-89842-209-7, about 400 pages, € 59,90

**News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004**

New:
SAP Bank Analyzer 3.0, german
Authors: Günther Färber, Julia Kirchner
2004, ISBN 3-89842-479-0, about 600 pages, € 199,00

SAP Bank Analyzer 3.0

Gesamtbankinfrastruktur, IAS- und Basel II-Lösung der SAP

Günther Färber, Julia Kirchner

SAP PRESS
613 S., 2004, geb.
199,90 Euro, ISBN 3-89842-479-0
sofort lieferbar

Spezialwissen für die Branche

Dieses Buch beschreibt erstmals detailliert und praxisnah die neue Gesamtbankinfrastruktur der SAP sowie die darauf aufbauende IAS-Lösung und Basel II-Lösung. Ausgehend von den komplexen betriebswirtschaftlichen Grundlagen und Anforderungen wird Ihnen die Konzeption und Architektur dieser umfangreichen Software, die Applikationsnutzung, das Customizing und die Administration bis hin zur programmiertechnischen Integration und Erweiterbarkeit erläutert. Der modulare Aufbau nach Themen und Interessensschwerpunkten ermöglicht Ihnen einen punktgenauen Informationsgewinn. Ob Sie nun Manager, Mitarbeiter aus der Fachabteilung, Berater oder Administrator sind, das Buch leistet Ihnen wertvolle Hilfestellungen.

... and much more other books for more application oriented themes, please have a look at
www.sap-press.de **or** www.sap-press.com

Additional SAP R/3 literature from ADDISON-WESLEY

Projektmanagement mit SAP R/3, ca. 300 Seiten, german
Author: Erich Dräger, ISBN 3-8273-1334-1, DM 89.90
(Project management with SAP R/3, approx. 300 pages)

News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004

mySAP with DB2 V7 - Overview

DB2 V7 is ready (since November 12, 2001) for mySAP on zSeries:
1. **It's certified by SAP (SAP Notes 392194 & 450752)**
2. **New Product Structure for DB2 V7 (Base and Utilities)**
3. **Many new DB2 V7 functions with benefits for SAP on zSeries (SAP Note 457512)**
4. **Migration offerings from DB2 V5/V6 NALC & E-NALC to DB2 V7 are available**
5. **New terms and conditions for DB2 OEM license via SAP are in place**

1. It's certified by SAP DB2

After a formal verification process of the functionality and quality of the new DB2 database release with regard to the SAP environment and its products SAP supports DB2 UDB for zSeries V7. The release level of DB2/390 is V7.1.
The software is released for all SAP products with the SAP kernels:
6.20, 6.10, 4.6D, 4.5B, 4.0B_COM and 3.1_COM.

With Version 7, it has become mandatory for customers to include either the IBM DB2 Operational Utilities product or the IBM DB2 Utilities Suite product and apply it along with the DB2 product in order to run or continue to run SAP systems.

For migration to DB2 V7 and prerequisites
    please refer to the SAP notes 392194 & 450752

2. DB2 V7 Product Structure

DB2 UDB for OS/390® and z/OS Version 7 (5675-DB2)
includes database functions only without utilities
For mySAP usage you mandatory need:
DB2 Utilities Suite (5697-E98) or DB2 Operational Utilities (5655-E63)

DB2 Utilities Suite (5697-E98) includes
a) DB2 Operational Utilities (5655-E63)
b) DB2 Diagnostic and Recovery Utilities (5655-E62)

Additional helpful tools are:
DB2 Performance Expert (5724-B92) which combines functionality of former DB2 Performance Monitor, DB2 PM, (5655-E81) and DB2 Buffer Pool Analyzer
DB2 Automation Tool (5697-G63) instead of former DB2 Administration Tool (5655-E90)

News for mySAP Business Suite on IBM eServer zSeries with database server DB2 UDB for z/OS and OS/390 Version 2004Q2, status of July 16, 2004

3. DB2 V7 functional benefits for mySAP on zSeries

DB2 V7 includes many new features. They are described in details in DB2 V7 library. As DB2 is a general purpose database management system the DB2 library does not contain specific references to SAP. This note presents all the DB2 V7 features that are particularly relevant in SAP environments and provides SAP-specific usage considerations. The material presented here is not meant to be used in isolation but to complement the general DB2 V7 library which remains the main reference source.

The DB2 V7 features that are relevant for SAP can be categorized as follows.
- **Continuous availability:**
- **Avoiding data sets renames in REORG switch phase**
- **More concurrent REORG through execution scope timeout value and drain retry**
- **Faster reorganization for partitioned tablespaces**
- **Online modification of system parameters**
- **'Light' restart for faster retained lock resolution and shorter failover times**
- **Faster log-only recovery through more frequent HPGRBRBA updates**
- **Virtual storage monitoring for avoiding inefficient memory over-allocation**
- **Database administration**
- **Correlation of DB2 cached statements and ABAP source statements**
- **Precise identification of ABAP statements involved in timeouts and deadlocks**
- **Real time statistics for easy and inexpensive detection of database objects needing some DBA intervention**
- **New reorganization indicators**
- **Enhanced detection of long running non committing units of recovery**
- **Improved database growth monitoring via RUNSTATS history**
- **New monitoring indicators for faster identification of potential tuning or problem areas**
- **Full utility toleration of DEFINE NO tablespaces and indexes**
- **Performance and scalability**
- **Reduced lock contentions through a new locking semantics**
- **Faster insert processing through asynchronous preformatting**
- **Faster insert, update, delete processing through improved log write performance**
- **Row level locking for selected catalog tables**
- **Faster query execution through FETCH FIRST n ROWS**
- **Removed deadlocks at parallel insert**
- **Faster BW queries via UNION in views**

A more detailed description can be found in SAP NOTE 457512.

News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004

IBM SAP Education SAP R/3 and DB2 for OS/390 database server

Info: The former AppServer 1 day update course ES160K has been integrated into ES140K and will no longer be held as class course. Online for customized customer inhouse courses this course will be held on request (Thanks for this info to the instructors team (Hans-Jürgen Ohse)).

The actual available information is shown below in the attached **SAP R/3 NOTE 158875, V55, from june 04, 2004**

SAP Note Number: 158875
DB2/390: Planned classes for R/3 on DB2 for OS/390

Version: 55, Note Language: EN, Released on: 04.06.2004

Symptom

Course offering for SAP on DB2 for z/OS - planned classes in 2004

Other terms

Courses Classes Workshops R/3 on S/390 zSeries information

Solution

The information in this note does not replace any official information provided by the education centers, and available on their according web pages like the following:

```
http://www.ibm.com/services/learning
```

```
http://www.ibm.com/services/learning/us/
http://www.ibm.de/bildung
http://www.ibm.com/services/learning/ca/      (Canada)
```
```
There may exist additional web pages, international or country-specific
ones. The information here is only a summary from different sources.
As soon as a web page is available which offers an overview of the SAP on
DB2 for z/OS classes, this will be the source that you will have to refer
to.  Only the web page will then be referenced here.
```

Restriction:
Please be aware that this overview may not be complete, and that courses may be cancelled or added at any time somewhere in the world, and this may not be reflected here!
Therefore please always check with the IBM Education Centers, or on the appropriate web pages for the most current information.
This note does not imply that these classes will actually take place, since this depends on various factors.
ALWAYS verify if these are the most actual offerings.
All details, like course description, duration, language, etc may vary and must therefore be checked!
Use this overview as a guideline, but not as the only source of education information.

News for mySAP Business Suite on IBM eServer zSeries with database server DB2 UDB for z/OS and OS/390 Version 2004Q2, status of July 16, 2004

Following courses are offered or planned for SAP on DB2 for z/OS:

```
IBM       SAP      Description
                                                       Duration
Course   Course
Number   Number
-------------------------------------------------------------------
ES12              Introduction to SAP R/3 on OS/390        1.5 days
ES121             Introduction to SAP R/3 on OS/390 (Canada)  1.5 days
ES14              Implementing SAP R/3 on OS/390           1 week
ESM140FR          Implementing SAP R/3 on z/Series (full   1 week
                  zSeries configuration) workshop
ESM141FR          Implementing SAP R/3 on z/Series Workshop  1 week
                  (mixed zSeries & pSeries configuration)
ES36D1DE          Installation of a SAP R/3 dialog instance  1 day
                  on Linux for zSeries
ES160K            SAP R/3 Application Server on OS/390      1 day

- Update (onsite only)
ES530   BC530    SAP R/3 on OS/390 - Database Administration  1 week
ES531   BC530    SAP R/3 on OS/390 - Database Administration  1 week
                 (Canada)
SAP offers a platform-independent class:
ADM100            SAP WEB AS Admin I
```

Planned classes for SAP on DB2 for z/OS in 2004:

```
Course                   Country
City      Date           Class
Type


Language
-------------------------------------------------------------------
ES120K   Introduction       Germany
Mainz    Jun 7-8   2004   GE

ES120AIC Introduction       Switzerland
Zurich   Jun 28-29 2004   GE

ES120K   Introduction       Germany
Essen    Oct 18-19 2004   GE

ES121    Introduction       Canada
-- please contact 1-800-426-8322 for dates
-------------------------------------------------------------------
ES140K   Implementation     Germany
Essen    Oct 25-29 2004   GE
```

News for mySAP Business Suite on IBM eServer zSeries with database server DB2 UDB for z/OS and OS/390 Version 2004Q2, status of July 16, 2004

```
ES14    Implementation
Sweden    -- please contact Anna Roedholm for date - Tel.+46/8-793-1403
------------------------------------------------------------------------
ES36D1DE Install zLINUX DIA  Germany
Essen    Nov 22    2004  GE

------------------------------------------------------------------------
ES530K  DB Administration    Germany
Mainz    Nov 22-26, 2004  GE

ES531   DB Administration    Canada
                             -- please contact 1-800-426-8322 for dates
------------------------------------------------------------------------
*  Class language:  GE  German, EN English
```

Enrollment procedure

```
Germany:    IBM Direkt, Tel. +49-180-55090
USA:        1-800-IBM-TEACH
Italy:      IBM DIRECT toll-free number (Italian one is i67 017001)
Sweden:     Contact Anna Roedholm for dates - Tel.+46/8-793-1403
France:     Contact Florence Dubois for dates - tel:+33/46734-6009
            or email: florence_dubois@fr.ibm.com
Canada:     Contact 1-800-426-8322 for dates
Netherlands: If needed, IBM's Dutch Education Services Desk
(tel. +31 5133940) will help with enrollment for the classes in Amsterdam.
If students outside the US want to enroll to classes within the USA,
please contact:
    Helen P. Symonds - Enrollment Coordinator, L.A.H.Q. Educ
    Town of Mt. Pleasant, Sleepy Hollow, New York 10591 Offc 2C20
    Tel. 001-914-332-3222 Fax: -3631 Internet: HELENS@VNET.IBM.COM
```

Release Status	Released for Customer
Released on	04.06.2004
Priority	Recommendations/additional info
Category	External error
Primary Component	BC-DB-DB2 DB2 for OS/390

Operating system	OS/390
Database system	DB2/390
Release-Independent	

**News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004**

Abstracts of some courses:

Course Code: ES120

Introduction to SAP R/3 for OS/390

Overview

Learn the basic architecture and concepts of Systems, Applications, Products in Data Processing (SAP) R/3 implementation in an OS/390 environment. Gain information on SAP R/3 for OS/390 as well as an overview of the DB2 for OS/390 considerations.

Audience

System programmers for OS/390 and AIX, database administrators, and Information Technology (IT) management.

Educational Objectives

- Describe the SAP R/3 architecture for using DB2 on OS/390

- Identify the implementation concepts of SAP R/3 for OS/390

- List the benefits of SAP R/3 on OS/390

- List the hardware and software requirements for SAP R/3 on OS/390

- Understand the performance considerations

- List the available maintenance and service strategy

- Identify the security aspects of using DB2 for OS/390 with SAP R/3

Topics

- Benefits of SAP R/3 for OS/390

- SAP R/3 for OS/390 Implementation Architecture

- System Management Considerations

- Security

- Maintenance, Support and Service

News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004

Prerequisites

Basic knowledge of SAP R/3 and OS/390.

Remarks

This course is intended for customers with either S/390 or zSeries servers and is part of the OS/390 and z/OS curriculum.

General Offering Information

- Country Offering Code: **ES120**
- WW Course Code: **ES12**
- Duration: **2.00 DAYS**
- Delivery Method: **CLASSROOM**
- Sub Delivery Method: **NON-LABORATORY**
- Media Description: **CLASSROOM NON-LABORATORY**
- Language: **ENGLISH**

**News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004**

Course Code: ES140

Implementing SAP R/3 in OS/390

Description

Overview

Topic 1 - SAP R/3 System Architecture Overview
Topic 2 - SAP R/3 in OS/390 Implementation Concepts
Topic 3 - DB2 Architecture Overview
Topic 4 - Installation prerequisites
Topic 5 - Installation Planning
Topic 6 - Implementation Process
Topic 7 - DB2 Utilities and Online reorg
Topic 8 - Backup and Recovery
Topic 9 - Changing the Database Layout and Storage Management
Topic 10 - Database Monitoring and Performance Tuning
Topic 11 - High availability

Audience

- OS/390 System Administrator

- Technical Oriented IT Management

- Project Team Leader

Educational Objectives

After completion the student should be able to:

- Write an Implementation plan of SAP R/3 on OS/390

- Set up the environment for SAP R/3 on OS/390

- Discuss the connectivity between AppServer and DB Server in detail

- Understand the installation process of SAP R/3 on OS/390

- Perform back up and recovery

- Perform monitoring and tuning

**News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004**

- Perform storage management and online reorg

Prerequisites

Students should have overview knowledge, as taught in the follow course:

SAP R/3 with DB2 for OS/390 - Introduction (ES120)

Machine Requirements

Student Guide and Reference Material, as distributed in the class

Remarks

This course is intended for customers with either S/390 or zSeries servers and is part of the OS/390 and z/OS curriculum.

Definition

General Offering Information

- `Country Offering Code:` **ES140**
- `Duration:` **5.00 DAYS**
- `Delivery Method:` **CLASSROOM**
- `Sub Delivery Method:` **LABORATORY ITS**
- `Media Description:` **CLASSROOM LABORATORY**

**News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004**

Course Code: ES390

Technical Core Competence for SAP R/3 on DB2 for OS/390

Description

Overview

Learn to handle the individual tasks of Systems, Applications, Products in Data Processing (SAP) R/3 administration in the OS/390 environment, and be introduced to all of the SAP R/3 administrative activities. Reinforce concepts discussed in lecture in hands-on labs with a SAP R/3 for DB2 on OS/390 system. Hands-on lab projects may be done in teams depending on number of attendees and location.

Audience

SAP R/3 administrators, DB2 administrators, and SAP R/3 project teams.

Educational Objectives

- Understand the SAP R/3 environment for DB2 and OS/390

- Identify SAP R/3 administration tasks

- Understand operations of the SAP R/3 environment

Topics

- SAP R/3 on DB2 for OS/390 overview

- Installation

- Starting and stopping R/3

- SAP profiles

- Operation modes

- Authorization and user administration

- Background processing

**News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004**

- Spool and printing

- Archiving R/3 documents

- Online service system

- Error analysis

- Work load analysis

Prerequisites

You should complete:

- *Implementing SAP R/3 to use DB2 for OS/390 (ES140)*

and basic OS/390 and DB2 courses, **or** have a basic knowledge of OS/390, DB2, and a fundamental understanding of SAP R/3 on DB2 for OS/390 environment.

Remarks

This course is intended for customers with either S/390 or zSeries servers and is part of the OS/390 and z/OS curriculum.

Definition

General Offering Information

- Country Offering Code: **ES390**
- WW Course Code: **ES39**
- Duration: **5.00 DAYS**
- Delivery Method: **CLASSROOM**
- Sub Delivery Method: **LABORATORY NON-ITS**
- Media Description: **CLASSROOM LABORATORY**

**News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004**

Course Code: ES530

SAP R/3 on DB2 for OS/390: Database Administration

Description

Overview

- Introduction

- Storage Monitoring and Management

- Performance Monitoring and Tuning

- Backup and Recovery

- Configuration and Maintenance

- Troubleshooting

Audience

Project teams, R/3 System administrators, Database administrators

Educational Objectives

- Explain how SAP R/3 data structures are mapped to DB2 objects

- Perform the most important storage monitoring and management tasks

- Enhance database administration skills using R/3 DBA transactions

- Analyze performance- critical system components

- Explain DB2's performance-critical components

- Take actions that improve performance on the database server

- Understand the need for a backup strategy and monitor backups in the R/3 system

- Perform all necessary maintenance procedures and daily administration tasks

- Follow a basic troubleshooting methodology

**News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004**

- Detect and handle performance bottlenecks and common platform specific errors

Prerequisites

- Profound knowledge of the OS/390 operating system and the DB2 for OS/390 database management system.

SAP R/3 Technical Core Competence OS/390 (ES390)

Machine Requirements

Course Guide

Remarks

This course is intended for customers with either S/390 or zSeries servers and is part of the OS/390 and z/OS curriculum.
The course material is owned by SAP under course code BC530.

Definition

General Offering Information

- Country Offering Code: **ES530**
- Duration: **5.00 DAYS**
- Delivery Method: **CLASSROOM**
- Sub Delivery Method: **LABORATORY ITS**
- Media Description: **CLASSROOM LABORATORY**
- Language: **ENGLISH**

**News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004**

Course Code: ESQ39DE

SAP R/3 Technical Consultant Training - UNIX - DB2/390

Description

Overview

- R/3 Basis Technology (similar to course SAP50)

- R/3 Implementation Planning for R/3 System Management (similar to course BC040)

- R/3 Installation (similar to course PABC91)

- Technical Core Competence (simlar to course BC390)

- Advanced R/3 System Management (similar to course BC305)

- Workbench Organizer & Transport System, System Upgrade (similar to course BC325)

- mySAP Workplace (similar to course BC350)

- Workload Analysis (similar to course BC315)

- Data Base Administration (similar to couse BC530)

Contents may be changed due to changes in the certfication test

Audience

Future Basis Consultants, experienced system administrators, experienced database administrators

Educational Objectives

Course participants receive comprehensive expert-level training in R/3 System Management. The course prepares participants for the "SAP R/3 Certified Technical Consultant" test.

Prerequisites

- In-depth knowledge of the OS/390 and UNIX operating system

**News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004**

- In-depth knowledge of the DB2 database

- Knowledge of TCP/IP network administration Note

Machine Requirements

Hand-outs, as distributed in the class

Remarks

- course language will be English

- SAP lists this course under their number PABC39

- The training course does not include the installation of an actual system

- We recommend that you bring a laptop with CD-ROM drive to review self-study course contents after training hours and over weekends

- On the last day of the course, participants will have the chance to take the "SAP R/3 Certified Technical Consultant" test. The test fee is included in the course fee.

Definition

General Offering Information

- Country Offering Code: **ESP39K**
- Duration: **20.00 DAYS**
- Delivery Method: **CLASSROOM**
- Sub Delivery Method: **LABORATORY ITS**
- Media Description: **CLASSROOM WORKSHOP**

News for mySAP Business Suite on IBM eServer zSeries with database server DB2 UDB for z/OS and OS/390 Version 2004Q2, status of July 16, 2004

Planning and Prereq overview (SW zSeries etc.),

Release Matrix included

The most important planning information can be found in

0081737	**IBM maintenance prereqs (PTFs), APAR list**
0138906	**Planning info (release, connectivity matrix), IBM INFO APAR II11352**
0493836	**6.20 Installation on z/OS, UNIX and Windows**
0594861	**6.20, upgrade, saplicense fails**
0703892	**Upgrade to 6.20 on AIX and zLinux**
0407325	**Release Support Matrix SAP Web Application Server 6.x**
0156554	**Release Support Matrix 4.6x**
0085844	Release Support Matrix 4.0x/4.5x
0080625	Release Support Matrix 3.0x/3.1x
0102541	DB2/390 Planning information at a glance
0101217	Transport and correction overview
0145316	SAP GoingLive Service
0067584	IDES Process overview
0077774	Installing IS solutions
0158216	upgrade, DB version 6.1.0
0083000	Backup/reorg, avoiding DB2 QUIESCE
0158875	**Planned Classes for DB2/390**
0183311	AUTO PTF Checking (OS/390 >= 2.6)
0569996	**High availability and automation solution for DB2 on z/OS**
0524816	**Standalone enqueue server**

These notes get updated regularly by SAP, so please check out the SAP Notes within SAP Service Market Place: service.sap.com, or with direct access to the SAP Notes database (service.sap.com/notes) for the latest version.

IBM INFO APAR II11352 / SAP R/3 Note 138906

InfoAPAR II11352 has been created by the Boeblingen lab to act as communication vehicle for important new technical information for R/3 on OS/390. This APAR will be updated regularly. Please have a look on regularly base on to this APAR. It is also available as SAP R/3 NOTE (138906). Attached please find the actual version 73 of june 22, 2004 of this SAP Note.

PS: For those who are not familiar with APARs: you need access to the IBM RETAIN system to access APARs.

SAP Note Number: 138906
DB2/390: Planning Info (release,connectivity matrix)

Version: 73, Note Language: EN, Released on: 22.06.2004

News for mySAP Business Suite on IBM eServer zSeries with database server DB2 UDB for z/OS and OS/390 Version 2004Q2, status of July 16, 2004

Symptom

Information APARs II11352 and II12111 in IBM's RETAIN system provide information on current and planned SAP on DB2 for z/OS and OS/390 releases concerning communications protocol options and dependencies from z/OS or OS/390 releases, AIX releases, and DB2 versions.

Other terms

release matrix, planning information, z/OS, OS/390, ICLI, AIX, DB2,

II11352

Reason and Prerequisites

N/A

Solution

Please note that Informational APARs II11352/II12111 in the IBM RETAIN system are the master source of this note.

This SAP note contains a copy of the information in APARs II11352 / II12111 (make sure that this information is on the same level as there)

SAP R/3 ON DB2 FOR OS/390 MISC INFO AND INDEX TO OTHER APARS

```
SAP R/3 ON DB2 FOR OS/390 MASTER INFO SOURCE; DB2/390
Applicable to all releases of ICLI client and server
----------------------------------------------------------
This APAR applies to SAP on DB2 for OS/390 and z/OS users only
----------------------------------------------------------
The purpose of this APAR is to act as the master information source for SAP
on DB2 for OS/390 and z/OS. It contains information on supported or planned
release combinations, service recommendations, and more.
------------------------------------------------
II11352:   (last updated June 22, 2004  cgg)
II12111:   (last updated June 22, 2004  cgg)
------------------------------------------------
```

Contents

1. Overview
```
  2. Operating System and DB2 release matrix as avail. or planned
  3. Recommended service level
  4. Miscellaneous information, for example, documentation
  5. Cross reference to related informational APARs --> II12111
  6. Hardware requirements
```

**News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004**

1. Overview

This APAR gives an overview on supported

```
    – z/OS and OS/390 releases,
    – DB2 versions, and
    – AIX, Linux, NT, Solaris, and z/OS or OS/390 releases for the
        application server
as they are currently available or planned in future.
```

All information contained in this APAR is preliminary as long as the product is not released or as long as the particular

release combination is not yet supported by SAP.

```
The information is subject to change without further notice.
The APAR may also be used as master index or cross reference to other infor-
mation APARs interesting for SAP on DB2 for OS/390 and z/OS.
It will be updated on a continuing basis.
If there are any differences between the information in this APAR and the
official support statements from SAP as spelled out in the according SAP
notes, the information in the SAP notes should be considered more recent.
```

For detailed planning and preparation information see the IBM documentation "SAP R/3 on DB2 UDB for OS/390 and z/OS: Planning Guide" as well as the "SAP R/3 on DB2 for OS/390: Connectivity Guide".

2. Operating system and DB2 release matrix as currently available or planned (last update May 26, 2004):

Note that this information is preliminary as long as the products are not released, or as long as the particular release combination is not yet supported by SAP. Therefore this information is subject to change without further notice.

```
The matrix reflects the plans as of the date shown above, and it does not
say anything about the point in time when the planned support of any of the
items will actually be available.
Check in SAP's SAPNet Web Frontend (previously known as Online Service Sys-
tem) which database (DB) and operating system combination have already been
released.
You can find the DB2/390 release notes by searching for component XX-SER-
SWREL and text containing the string "390".
For currently available releases, the SAP note numbers are:
   80625    R/3 3.0x/3.1x on DB2/390
   85844    R/3 4.0x/4.5x on DB2/390
   156554   R/3 4.6x on DB2/390
   407325   SAP Web Application Server 6.x on DB2/390
For your own planning take into account SAP's maintenance finish dates as
well as discontinuance of service of the operating system and the database
```

```
version.
End-of-Service (EOS) dates for OS/390 releases can be found at
http://www.ibm.com/servers/eserver/zseries/zos/support/...
       ...zos_eos_dates.html
Planned or expected EOS dates for
   - OS/390 2.10:  09/2004
   - z/OS 1.1:     03/2004
   - z/OS 1.2:     10/2004
   - z/OS 1.3:     03/2005
End-of-Service (EOS) dates for DB2 for z/OS and OS/390 can be found at:
http://www.ibm.com/software/data/db2/zos/support/plc/index.html
Planned or expected EOS dates for
   - DB2 for OS/390 V6:   06/2005
         Database Server  Application Server
         Releases
Operating System (OS) Releases
         --------------  -------------------------------------

OS/390   DB2  AIX    LINUX  OS/390  Solaris Windows z/OS
(2)
  for       z/OS
(3)
         (1)
                zSeries  (1)


                  (5)
32/64-bit  n/a    n/a
64-bit 64-bit  32-bit  64-bit  32-bit
-------- ------- -----  ------ ------- ------- ------- --------
SAP
technology
-------- ------- -----  ------ ------- ------- ------- --------
3.1I_COM  2.10+  6.1+   4.3.3+    -
-        -     NT 4.0+
-------- ------ -----  ------ ------- ------- ------- --------
4.0B_COM  2.10+  6.1+   4.3.3+    -
-        -     NT 4.0+
-------- ------ -----  ------ ------- ------- ------- --------
4.5B_COM  2.10+  6.1+   4.3.3+    -
-        -     NT 4.0+
-------- ------ -----  ------ ------- ------- ------- --------
4.6D      2.10+  6.1+
5.1+   specific 2.10+    8+    NT 4.0+


distrib.               Win2000+


SLES7/8
```

**News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004**

```
 (4)
 ------- ------  -----  ------ ------- ------- ------- --------
 6.20     z/OS
 6.1+  5.1+   specific z/OS    8+    Win2000+

     1.2+         (6)    distrib.
 1.2+


 SLES7/8


 (4)
 ------- ------  -----  ------ ------- ------- ------- --------
 6.30     z/OS
 7.1+  5.1+   specific z/OS    8+    Win2000+

     1.4+         (6)    distrib.
 1.4+
        (7)

            SLES8    (7)


 (4)
 ------- ------  -----  ------ ------- ------- ------- --------
 6.40     z/OS
 8.1+  5.1+   specific z/OS    -    Win2000+

     1.4+         (6)    distrib.
 1.4+
        (7)

            SLES8    (7)


 (4)
 ------------------------------------------------------------
 Notes:
 "+" behind a release number shows that this release is supported as well as
 higher, certified releases, and future releases are planned to be supported
 some time after their general availability.  As soon as such a higher re-
 lease becomes supported, the DB2/390 release notes mentioned above are up-
 dated accordingly.
 (1) SAP runs on OS/390 and on z/OS.  The release in above matrix refers to
 the minimum supported OS/390 release unless z/OS is explicitly mentioned as
 minimum.
 (2) AIX 32-bit only:     3.1I_COM, 4.0B_COM, 4.5B_COM
```

```
      AIX 32- and 64 bit:   4.6D, 6.10
      AIX 64-bit only:      6.20 and higher
      32-bit SAP kernels run on 32-bit hardware as well as on 64-bit hardware.
      Support for SAP kernels on AIX 32 bit will not expire for SAP kernels
      based on 3.1, 4.0, 4.5 and 4.6.
(3) The latest service pack which is supported by SAP is required.
      Supported service packs are documented in SAP note 30478.
(4) Only specific Linux distributions with defined Kernel and
      glibc are supported:  see SAP note 81737 to find out which
      Linux distributions are supported.
(5) A G5 HW model is the required minimum (see II12111).
(6) AIX 64-bit only.
(7) z/OS 1.4  is minimum requirement; however, if it is planned
      not to use J2EE, it is still possible to use z/OS 1.2+.
      Note that DB2 Version 8 requires z/OS 1.4.
```

Extended release matrix for outdated kernels

A few SAP modules are delivered only on certain kernels which may meanwhile have become outdated.

```
Following kernels are supported only for the installation of these SAP mod-
ules.  After you have installed these modules on the outdated kernel, you
should replace the outdated kernel by the most current one.
        Database Server  Application Server
        Releases
Operating System (OS) Releases
        --------------- ---------------------------------------
ICLI    OS/390  DB2  AIX(2) LINUX   OS/390 Solaris Windows
for SAP   z/OS
for     z/OS   64-bit   (3)
Kernel
  (1)                   zSeries
(1)(4)


64-bit
------- ------- -----  ------ ------- ------ ------- --------
4.6B    2.10+   6.1+
4.3.3+    -    2.10+    -     NT 4.0+
------- ------- -----  ------ ------- ------ ------- --------
4.6C    OS/390  6.1+
4.3.3+    -    2.10+    -     NT 4.0+
        2.10
        thru
        z/OS 1.1
------- ------- -----  ------ -------- ------- ------- --------
6.10    OS/390  6.1+
4.3.3+    -     OS/390       -   Win2000+
```

**News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004**

```
 2.10
-     2.10
       thru

thru
       z/OS 1.2

z/OS 1.2
------------------------------------------------------------
Notes:
(1) SAP runs on OS/390 and on z/OS.  The release in this matrix
    refers to the minimum supported OS/390 release.
(2) AIX 32- and 64 bit:   4.6D
    32-bit SAP kernels run on 32-bit hardware as well as on
    64-bit hardware.
(3) The latest service pack which is supported by SAP is required.
    Supported service packs are documented in SAP note 30478.
(4) A G5 HW model is the required minimum (see II12111).
    For more requirements like e.g. the tcsh (C-Shell) kit, see
    SAP doc. "R/3 Installation on OS/390 UNIX System Services".
```

3. Recommended service level

The recommended service level is documented and regularly updated in SAP note 81737. This note should be reviewed on a regular basis to ensure that all PTFs fixing problems that were experienced with SAP on DB2 for OS/390 and z/OS are applied.

A PTF check tool is available from SAP which supports you in checking the service level on your systems. It automatically retrieves the current SAP note 81737 and the fix level file from SAPNet R/3 Frontend (OSS).

For details on the check tool refer to SAP note 183311.

4. Miscellaneous information, for example, documentation

The Planning Guide is issued once per SAP release and orderable through IBM shortly after the availability of the SAP upgrade shipment. It is also part of the SAP installation and upgrade shipments. If you need this book before the SAP shipment, you may want to use the book belonging to the previous SAP release. From Release 4.6C and higher, the documentation is supplied only as pdf files on the inst. documentation CD and upgrade documentation CD in the installation and upgrade packages. You may still order printed copies of the documentation:

SAP documentation may be ordered through SAPNet Web Frontend under XX-SER-SWFL-SHIP using the SAP material number.

News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004

IBM documentation may be ordered using the IBM Form Number through IBM.

Find IBM documentation for SAP on DB2 for z/OS via web page

http://www.ibm.com/..

   ../servers/s390/os390/bkserv/swpdf/sapr3.html

or   ../servers/eserver/zseries/zos/bkserv/zswpdf/sapr3oszos.html

or   http://publibz.boulder.ibm.com/cgi-bin/bookmgr_OS390/..

      ../Shelves/ASPBKE0A

.
```
Currently (May 2004) newest editions of the books are:
SAP R/3 on DB2 for OS/390: Planning Guide 3.1I, SC33-7961-02
SAP R/3 on DB2 for OS/390: Planning Guide 4.0B Support


Release 1, SC33-7962-03
SAP R/3 on DB2 for OS/390: Planning Guide 4.5B, SC33-7964-01
SAP R/3 on DB2 for OS/390: Planning Guide 4.6D, SC33-7966-04
SAP on DB2 UDB for OS/390 and z/OS: Planning Guide, SAP Web
  Application Server 6.10, SC33-7959-00
SAP on DB2 UDB for OS/390 and z/OS: Planning Guide, SAP Web
  Application Server 6.20, SC33-7959-01
SAP R/3 on DB2 for OS/390: Connectivity Guide, SC33-7965-03
Sometimes, these books may not yet be available in hardcopy format.
----------end of InfoAPAR II11352------------
----------start of InfoAPAR II12111------------
```

5. Cross reference to related informational APARs
```
--------------------------------------------------
  II12111 - SAP R/3 ON DB2 FOR OS/390 MISC INFO (cont. II11352)
  II11988 - R/3 3.xx: Documentation corrections and misc. info
  II11989 - R/3 4.0x: Documentation corrections and misc. info
  II11453 - R/3 4.5x: Documentation corrections and misc. info;
            please read before installation.
  II12535 - R/3 4.6x: Documentation corrections and misc. info;
  II06683 - Index to DB2 Information APARs
  II07347 - Abends in batch jobs when SMS-managed datasets
            are involved
  II11164 - (only when running HR Payroll BSI 5.0)
```

6. Hardware requirements
```
--------------------------------------------------
```
As a fully functional implementation of SAP functions and applications, all versions of the SAP

News for mySAP Business Suite on IBM eServer zSeries with database server DB2 UDB for z/OS and OS/390 Version 2004Q2, status of July 16, 2004

R/3 Application Server on z/OS or OS/390 require an S/390 server with IEEE Floating Point hardware or an IBM eServer zSeries.

This means that the following servers are supported:

```
– IBM eserver zSeries: That is, all models of the zSeries – including
  – all z990 (all machine types 2084-3** –such as 2084-316),and
  – all z900 (all machine types 2064-1** –such as 2064-116),and
  – all z800 (all machine types 2066-0** –such as 2066-004), and
  – all z890 (all machine types 2086-*** –such as 2086-470).
         –  S/390 Parallel Enterprise Server Generation 5:
         –  That is, all machine types 9672-**6 (26 total models – e.g.,
            9672-RX6).
         –  S/390 Parallel Enterprise Server Generation 6:
         –  That is, all machine types 9672-**7 (24 total models – e.g.,
            9672-ZZ7).
– S/390 Multiprise 3000: That is, machine types 7060-H30,7060-H50,7060-H70.
Examples of unsupported servers are earlier S/390 Parallel Enterprise Server
models and generations such as G3, G4, and Multiprise 2000 models.
Also, all implementations of SAP R/3 Releases after 4.6x and later on
OS/390, including DB Server implementations only, will have the same re-
quirement for IEEE Floating Point as above. This is because the upgrade
process requires the SAP Application Server on OS/390.
----------end of InfoAPAR II12111-----------
```

Release Status	Released for Customer
Released on	22.06.2004
Priority	Recommendations/additional info
Category	Release planning information
Primary Component	BC-DB-DB2 DB2 for OS/390

Transaction codes	ACT
Transaction codes	COPY
Transaction codes	DB2
Transaction codes	FILE
Transaction codes	MOVE
Transaction codes	PACK
Transaction codes	SUCH
Transaction codes	TIME
Operating system	OS/390
Database system	DB2/390

News for mySAP Business Suite on IBM eServer zSeries with database server DB2 UDB for z/OS and OS/390 Version 2004Q2, status of July 16, 2004

Release-Independent	

No correction instruction available

No Support Packages available

Number	Short Text
0000407325	Released operating systems SAP kernel 6.x DB2/390
0000157552	DB2/390: 3.1H database with 3.1I kernels
0000156554	Released operating systems for SAP kernel 4.6x DB2/390
0000151152	DB2/390: Installing a 3.1H DB with 3.1I kernels
0000085844	Released operating systems for SAP Kernel 4.0x/4.5x DB2/390
0000081737	DB2/390: APAR List
0000080625	Released operating systems for R/3 3.0x/3.1x DB2/390
0000030478	Service Packs on Windows NT/Windows 2000

News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004

Released operating systems SAP Kernel 6.x DB2/390

Note Number	0407325
Released on	24.10.2002 (V35)
Release	6.x (6.10 and higher)

```
This note describes the database releases and operating system releases al-
ready released with the SAP kernel, however, it does not contain any informa-
tion on releases planned in the future.
```

SAP Note Number: 407325
Released operating systems SAP kernel 6.x DB2/390

A. Version: 35, Note Language: EN, Released on: 24.10.2002

B. Symptom

DB2/390 / 6.x

C. Additional key words

D. Cause and prerequisites

This note describes the database releases and operating system releases already released with the SAP kernel, however, it does not contain any information on releases planned in the future.

Note that not all DB & OS combinations listed in this note are released for all mySAP.com components.
mySAP.com components like BW, APO, BBP, CRM and so on are based on the SAP Basis / SAP Kernel technology, but may have additional release restrictions. You can find information on these restrictions as well as on planned releases under:

http://intranet.sap.com/platforms (SAPNet internal view) or
http://service.sap.com/platforms (SAP Service Marketplace)

E. Solution

Operating System: AIX

```
------------------------------------------------------------------
R/3 Kernel-Version
DB-Version                      OS-Version              Restrictions

------------------------------------------------------------------
```

SAP KERNEL 6.10 32-BIT:

```
DB2/390 6.1                     AIX 4.3                 1
DB2/390 6.1                     AIX 5.1                 1
DB2/390 6.1                     AIX 5.2                 1
DB2/390 7.1                     AIX 4.3                 1
DB2/390 7.1                     AIX 5.1                 1
DB2/390 7.1                     AIX 5.2                 1
```

SAP KERNEL 6.10 64-BIT:

```
DB2/390 6.1                     AIX 4.3                 1
DB2/390 6.1                     AIX 5.2                 1
DB2/390 7.1                     AIX 4.3                 1
DB2/390 7.1                     AIX 5.2                 1
```

SAP KERNEL 6.20 64-BIT:

```
DB2/390 6.1                     AIX 5.1                    1
DB2/390 6.1                     AIX 5.2                    1
DB2/390 7.1                     AIX 5.1                    1
DB2/390 7.1                     AIX 5.2                    1
```
       1. The operating system is only released as an AppServer platform

Operating System: LINUX FOR ZSERIES

```
-------------------------------------------------------------------

R/3 Kernel-Version
DB-Version                      OS-Version                 Restrictions

-------------------------------------------------------------------
```

SAP KERNEL 6.20 64-BIT:

```
DB2/390 6.1                     LINUX/ZSERIES GLIBC 2.2.41,2,3,4
DB2/390 6.1                     LINUX/ZSERIES GLIBC 2.2.51,2,4,5
DB2/390 7.1                     LINUX/ZSERIES GLIBC 2.2.41,2,3,4
DB2/390 7.1                     LINUX/ZSERIES GLIBC 2.2.51,2,4,5
```
       1. For a list of supported Linux kernel versions, please refer to
       http://www.sap.com/linux/platforms/index.asp and to note 81737.
       2. The operating system is only released as an AppServer platform
       3. The release covers SuSE SLES 7 for zSeries only.
       4. SAP CRM 3.0 and EBP 3.0 is not supported for this platform.
       5. The release covers SuSE SLES 8 for zSeries only.

Operating System: OS/390

```
-------------------------------------------------------------------

R/3 Kernel-Version
DB-Version                      OS-Version                 Restrictions

-------------------------------------------------------------------
```

SAP KERNEL 6.10 32-BIT:

```
DB2/390 6.1                     OS/390 2.10                1
DB2/390 6.1                     OS/390 2.9                 2
DB2/390 7.1                     OS/390 2.10                1
DB2/390 7.1                     OS/390 2.8                 3
DB2/390 7.1                     OS/390 2.9                 2
```
       1. The operating system is platform for the database server with DB2 and for the
       AppServer for kernel releases >= 4.6
       2. IBM Support for the operating system expires 3/2003
       3. IBM Support of the operating system expired 9/2002

Operating System: SOLARIS/SPARC

News for mySAP Business Suite on IBM eServer zSeries with database server DB2 UDB for z/OS and OS/390 Version 2004Q2, status of July 16, 2004

```
------------------------------------------------------------------

R/3 Kernel-Version
DB-Version                       OS-Version              Restrictions

------------------------------------------------------------------
```

SAP KERNEL 6.20 64-BIT:

```
DB2/390 6.1                      SOLARIS/SPARC 8         1,2
DB2/390 6.1                      SOLARIS/SPARC 9         1,2
DB2/390 7.1                      SOLARIS/SPARC 8         1,2
DB2/390 7.1                      SOLARIS/SPARC 9         1,2
```
        1. The operating system is only released as an AppServer platform
        2. SAP CRM 3.0 and EBP 3.0 is not supported for this platform.

Operating System: WINDOWS SERVER 32-BIT

```
------------------------------------------------------------------

R/3 Kernel-Version
DB-Version                       OS-Version              Restrictions

------------------------------------------------------------------
```

SAP KERNEL 6.10 32-BIT:

```
DB2/390 6.1                      WIN 2000 SRV            1
DB2/390 7.1                      WIN 2000 SRV            1
```

SAP KERNEL 6.20 32-BIT:

```
DB2/390 6.1                      WIN 2000 SRV            1
DB2/390 6.1                      WIN SERVER 2003 32-BIT  1
DB2/390 7.1                      WIN 2000 SRV            1
DB2/390 7.1                      WIN SERVER 2003 32-BIT  1
```
        1. The operating system is only released as an AppServer platform

Operating System: Z/OS

```
------------------------------------------------------------------

R/3 Kernel-Version
DB-Version                       OS-Version              Restrictions

------------------------------------------------------------------
```

SAP KERNEL 6.10 32-BIT:

```
DB2/390 6.1                      Z/OS 1.1               1
DB2/390 6.1                      Z/OS 1.2               1
DB2/390 7.1                      Z/OS 1.1               1
DB2/390 7.1                      Z/OS 1.2               1
```

SAP KERNEL 6.20 32-BIT:

News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004

```
DB2/390 6.1                          Z/OS 1.2               1
DB2/390 6.1                          Z/OS 1.3               1
DB2/390 6.1                          Z/OS 1.4               1
DB2/390 7.1                          Z/OS 1.2               1
DB2/390 7.1                          Z/OS 1.3               1
DB2/390 7.1                          Z/OS 1.4               1
```
1. The operating system is platform for the database server with DB2 and for the AppServer for kernel releases >= 4.6

Release Status	Released for Customer
Released on	24.10.2002
Priority	Recommendations/additional info
Category	Release planning information
Primary Component	XX-SER-SWREL Release planning

No attributes available

Soft. Component	Release Track	From Release	To Release	And Successors
SAP_BASIS	60	610	640	X

Number	Short Text
0000502999	Installing a 6.20 kernel into a system with 6.10 Web AS
0000081737	DB2/390: APAR List
0000418246	Release restrictions SAP Web ACE 6.10
0000138906	DB2/390: Planning Info (release,connectivity matrix)
0000710408	DB2-z/OS: Prerequisites Kernel 6.40 with WAS 6.10, 6.20

Released operating systems SAP Kernel 4.6x DB2/390

Note Number	0156554
Released on	15.06.2004 (V70)
Release	46A - 46C

```
This note describes the database and operating system releases which are re-
leased with the SAP kernel.
Other combinations are not supported.
```

**News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004**

**SAP Note Number: 156554
Released operating systems for SAP kernel 4.6x DB2/390**

*Version: 70, Note Language: EN, Released on: 15.06.2004
(First Version from 24.10.2002)*

**News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004**

Attention:: Note not current in language English

Symptom

DB2/390 / 4.6x

Reason and Prerequisites
This note describes the database and operating system re-
leases which are released with the SAP kernel.
Other combinations are not supported.

The note consists of three parts:

* Part 1 contains some general information, for example on the
topic   "Use of different operating system releases".

* Part 2 defines the SAP kernels released with an R/3 release
with the help of a table, and some possibly existing restric-
tions.

* Part 3 defines the operating system and database releases
which are released with an SAP kernel with the help of another
table.

Note:

This note does not contain any information on planned R/3 / DB
/ OS Release combinations, but only information on already re-
leased releases.
You can get a list of planned SAP kernel / DB / OS combina-
tions as well as information on heterogeneous R/3 configura-
tions under the following URLs:
http://intranet.sap.com/platforms   (SAPNet internal view)
or
http://service.sap.com/platforms   (SAP Service Market-

News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004

place)

Note that not all the DB and OS combinations listed in this note have been released for all mySAP.com components. mySAP.com components like BW, APO, BBP, CRM, and so on are based on the SAP basis / SAP kernel technology, however, they have their own DB and OS platform releases. For further information on these platform releases, also refer to the above-mentioned link.

1. General information :
----

    a) Use of different operating system releases
The operating system releases may differ between the individual application servers.

The SAP kernel, however, must be identical on all application servers.
You can see all operating system releases which are released for an SAP kernel and a database server in table 2.

This regulation allows a "rolling upgrade", that is, the upgrade between the database and the application servers and among the application servers is run separately.

    b) Service Packs on Windows NT
For the selection of supported Service Packs on Windows NT, refer to Note 30478 "Service Packs on Windows NT".

2. Released SAP R/3 Releases and SAP Kernels

We recommend that you always use the most current released SAP kernel.

Example:
You can see in table 1 that the R/3 Release 4.6A can be operated with the SAP kernel 4.6A.
You can see in table 2 that the SAP kernel 4.6A is released with the operating system AIX 4.3.x and database DB2/390 6.1.

Hence the following software combination is allowed:

    R/3 release   : 4.6A
    SAP kernel   : 4.6A
    Database release   : DB2/390 6.1
    Operating system release: AIX 4.3.x (x>=2)

Table 1:

News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004

```
    -------------------------------------|
    |   R/3  R E L E A S E    |
----|-------------------------------- |
SAP |    | 4.6A | 4.6B | 4.6C |    |
K |------|---------------------------|
E | 4.6A |  X  |    |    |    |
R | 4.6B |  X  |  X  |    |    |
N | 4.6C |  X  |  X  |  X  |    |
E | 4.6D |  X  |  X  |  X  |    |
L |    |    |    |    |    |
    -------------------------------------|
  X : released combination
```

3. Released operating system and database releases

Table 2:

F. Solution

Operating System: AIX

```
----------------------------------------------------------------
R/3 Kernel-Version
DB-Version              OS-Version                  Restrictions
----------------------------------------------------------------
```

SAP KERNEL 4.6A 32-BIT:

```
DB2/390 6.1          AIX 4.3                    1
```

SAP KERNEL 4.6B 32-BIT:

```
DB2/390 6.1          AIX 4.3                    1
```

SAP KERNEL 4.6B 64-BIT:

```
DB2/390 6.1          AIX 4.3                    1,2
```

SAP KERNEL 4.6C 32-BIT:

```
DB2/390 6.1          AIX 4.3                    1
```

SAP KERNEL 4.6C 64-BIT:

```
DB2/390 6.1          AIX 4.3                    1
```

SAP KERNEL 4.6D 32-BIT:

```
DB2/390 6.1          AIX 4.3                    1
DB2/390 6.1          AIX 5.1                    1
DB2/390 6.1          AIX 5.2                    1
DB2/390 7.1          AIX 4.3                    1
DB2/390 7.1          AIX 5.1                    1
DB2/390 7.1          AIX 5.2                    1
```

SAP KERNEL 4.6D 64-BIT:

News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004

```
DB2/390 6.1          AIX 4.3                      1
DB2/390 6.1          AIX 5.1                      1
DB2/390 6.1          AIX 5.2                      1
DB2/390 7.1          AIX 4.3                      1
DB2/390 7.1          AIX 5.1                      1
DB2/390 7.1          AIX 5.2                      1
```

SAP KERNEL 4.6D_EXT 32-BIT:

```
DB2/390 6.1          AIX 5.1                      1
DB2/390 6.1          AIX 5.2                      1
DB2/390 7.1          AIX 5.1                      1
DB2/390 7.1          AIX 5.2                      1
DB2/390 8.1          AIX 5.1                      1
DB2/390 8.1          AIX 5.2                      1
```

SAP KERNEL 4.6D_EXT 64-BIT:

```
DB2/390 6.1          AIX 5.1                      1
DB2/390 6.1          AIX 5.2                      1
DB2/390 7.1          AIX 5.1                      1
DB2/390 7.1          AIX 5.2                      1
DB2/390 8.1          AIX 5.1                      1
DB2/390 8.1          AIX 5.2                      1
```

1. The operating system is only released as an AppServer platform

2. 64bit Application server only. Database still on 32bit.

Operating System: LINUX FOR ZSERIES

```
-----------------------------------------------------------------
R/3 Kernel-Version
DB-Version           OS-Version                    Restrictions
-----------------------------------------------------------------
```

SAP KERNEL 4.6D 64-BIT:

```
DB2/390 6.1          LINUX/ZSERIES GLIBC 2.2.41,2,3
DB2/390 6.1          LINUX/ZSERIES GLIBC 2.2.51,2,4
DB2/390 7.1          LINUX/ZSERIES GLIBC 2.2.41,2,3
DB2/390 7.1          LINUX/ZSERIES GLIBC 2.2.51,2,4
```

SAP KERNEL 4.6D_EXT 64-BIT:

```
DB2/390 6.1          LINUX/ZSERIES GLIBC 2.2.52,4
DB2/390 7.1          LINUX/ZSERIES GLIBC 2.2.52,4
DB2/390 8.1          LINUX/ZSERIES GLIBC 2.2.52
```

1. For a list of supported Linux kernel versions, please refer to
http://www.sap.com/linux/platforms/index.asp and to note 81737.

2. The operating system is only released as an AppServer platform

3. The release covers SuSE SLES 7 for zSeries only.

4. The release covers SuSE SLES 8 for zSeries only.

Operating System: OS/390

```
-----------------------------------------------------------------
R/3 Kernel-Version
DB-Version            OS-Version            Restrictions
-----------------------------------------------------------------
```

SAP KERNEL 4.6A 32-BIT:

```
DB2/390 6.1           OS/390 2.6            1,2
DB2/390 6.1           OS/390 2.7            1,2
DB2/390 6.1           OS/390 2.8            3
DB2/390 6.1           OS/390 2.9            1,4
```

SAP KERNEL 4.6B 32-BIT:

```
DB2/390 6.1           OS/390 2.6            1,2,5
DB2/390 6.1           OS/390 2.7            1,2,5
DB2/390 6.1           OS/390 2.8            3
DB2/390 6.1           OS/390 2.9            4
```

SAP KERNEL 4.6C 32-BIT:

```
DB2/390 6.1           OS/390 2.6            1,2,5
DB2/390 6.1           OS/390 2.7            1,2,5
DB2/390 6.1           OS/390 2.8            3
DB2/390 6.1           OS/390 2.9            4
```

SAP KERNEL 4.6D 32-BIT:

```
DB2/390 6.1           OS/390 2.10           6
DB2/390 6.1           OS/390 2.6            1,2,5
DB2/390 6.1           OS/390 2.7            1,2,5
DB2/390 6.1           OS/390 2.8            3
DB2/390 6.1           OS/390 2.9            4
DB2/390 7.1           OS/390 2.10           6
DB2/390 7.1           OS/390 2.8            3
DB2/390 7.1           OS/390 2.9            4
```

SAP KERNEL 4.6D_EXT 32-BIT:

```
DB2/390 6.1           OS/390 2.10           6
DB2/390 7.1           OS/390 2.10           6
```

1. S/390 or zSeries database server only

2. IBM Support for the operating system expired

3. IBM Support of the operating system expired 9/2002

4. IBM Support for the operating system expires 3/2003

5. Supported conditionally - please mailto isicc@de.ibm.com

News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004

6. The operating system is platform for the database server with DB2 and for the AppServer for kernel releases >= 4.6

Operating System: SOLARIS/SPARC

```
-----------------------------------------------------------------
R/3 Kernel-Version
DB-Version          OS-Version              Restrictions
-----------------------------------------------------------------
```

SAP KERNEL 4.6D 64-BIT:

```
DB2/390 6.1         SOLARIS/SPARC 8         1
DB2/390 6.1         SOLARIS/SPARC 9         1
DB2/390 7.1         SOLARIS/SPARC 8         1
DB2/390 7.1         SOLARIS/SPARC 9         1
```

SAP KERNEL 4.6D_EXT 64-BIT:

```
DB2/390 6.1         SOLARIS/SPARC 8         1
DB2/390 6.1         SOLARIS/SPARC 9         1
DB2/390 7.1         SOLARIS/SPARC 8         1
DB2/390 7.1         SOLARIS/SPARC 9         1
DB2/390 8.1         SOLARIS/SPARC 8         1
DB2/390 8.1         SOLARIS/SPARC 9         1
```

1. The operating system is only released as an AppServer platform

Operating System: WINDOWS SERVER 32-BIT

```
-----------------------------------------------------------------
R/3 Kernel-Version
DB-Version          OS-Version              Restrictions
-----------------------------------------------------------------
```

SAP KERNEL 4.6A 32-BIT:

```
DB2/390 6.1         WIN NT 4.0 INTEL        1
```

SAP KERNEL 4.6B 32-BIT:

```
DB2/390 6.1         WIN NT 4.0 INTEL        1
```

SAP KERNEL 4.6C 32-BIT:

```
DB2/390 6.1         WIN NT 4.0 INTEL        1
```

SAP KERNEL 4.6D 32-BIT:

```
DB2/390 6.1         WIN 2000 SRV            1
DB2/390 6.1         WIN NT 4.0 INTEL        1
DB2/390 6.1         WIN SERVER 2003 32-BIT  1
DB2/390 7.1         WIN 2000 SRV            1
DB2/390 7.1         WIN NT 4.0 INTEL        1
DB2/390 7.1         WIN SERVER 2003 32-BIT  1
```

SAP KERNEL 4.6D_EXT 32-BIT:

```
DB2/390 6.1         WIN 2000 SRV              1
DB2/390 6.1         WIN SERVER 2003 32-BIT    1
DB2/390 7.1         WIN 2000 SRV              1
DB2/390 7.1         WIN SERVER 2003 32-BIT    1
DB2/390 8.1         WIN 2000 SRV              1
DB2/390 8.1         WIN SERVER 2003 32-BIT    1
```

1. The operating system is only released as an AppServer platform

Operating System: Z/OS

```
------------------------------------------------------------------
R/3 Kernel-Version
DB-Version          OS-Version                Restrictions
------------------------------------------------------------------
```

SAP KERNEL 4.6D 32-BIT:

```
DB2/390 6.1         Z/OS 1.1                  1
DB2/390 6.1         Z/OS 1.2                  1
DB2/390 6.1         Z/OS 1.3                  1
DB2/390 6.1         Z/OS 1.4                  1
DB2/390 7.1         Z/OS 1.1                  1
DB2/390 7.1         Z/OS 1.2                  1
DB2/390 7.1         Z/OS 1.3                  1
DB2/390 7.1         Z/OS 1.4                  1
```

SAP KERNEL 4.6D_EXT 32-BIT:

```
DB2/390 6.1         Z/OS 1.2                  1
DB2/390 6.1         Z/OS 1.3                  1
DB2/390 6.1         Z/OS 1.4                  1
DB2/390 7.1         Z/OS 1.2                  1
DB2/390 7.1         Z/OS 1.3                  1
DB2/390 7.1         Z/OS 1.4                  1
DB2/390 8.1         Z/OS 1.4                  1
```

1. The operating system is platform for the database server with DB2 and for the AppServer for kernel releases >= 4.6

Release Status	Released for Customer
Released on	24.10.2002 (update V70 on 15.06.2004)
Priority	Recommendations/additional info
Category	Release planning information
Primary Component	XX-SER-SWREL Release planning

Soft. Component	Release Track	From Release	To Release	And Successors
SAP_APPL	46	46A	46B	
SAP_APPL	46C	46C	46C	

Number	Short Text
0000502532	Composite SAP Note: Migrating to AIX 5L for 64-bit software
0000318846	Installing 4.6D R/3 kernel in 4.6A/B/C SAP Systems
0000138906	DB2/390: Planning Info (release,connectivity matrix)

News for mySAP Business Suite on IBM eServer zSeries with database server DB2 UDB for z/OS and OS/390 Version 2004Q2, status of July 16, 2004

Basic (Minimum) Prereqs

- SAP R/3 3.1H: OS/390 *V1R3* or higher (including RMF, DFSORT, DSS, Sec.Server)
  DB2/390 V5.1 + Feat. DB2 Perf. Mon.
- SAP R/3 4.0B: OS/390 *V2R5* or higher (including RMF, DFSORT, DSS, Sec.Server)
  DB2/390 V5.1 + Feat. DB2 Perf. Mon.
- SAP R/3 4.5B: OS/390 *V2R5* or higher (including RMF, DFSORT, DSS, Sec.Server)
  DB2/390 V5.1 + Feat. DB2 Perf. Mon.
- SAP R/3 4.6B: OS/390 *V2R8* or higher (including RMF, DFSORT, DSS, Sec.Server)
  DB2/390 V6.1 + Feat. DB2 Perf. Mon.
- SAP R/3 4.6C: OS/390 *V2R8* or higher (including RMF, DFSORT, DSS, Sec.Server)
  DB2/390 V6.1
- SAP R/3 4.6D: OS/390 *V2R8* or higher (including RMF, DFSORT, DSS, Sec.Server)
  DB2/390 V6.1

- SAP WebAS 6.20: **z/OS V1R2 or higher (when SAP certified and released)**
  DB2/390 V6.1 or higher
  AIX 5.1 or higher 64bit Application Server
  (ESCON is NOT supported anymore with AIX 5.1 64 bit,
  Gigabit Ethernet recommended)

- SAP WebAS 6.40: **Database Server:**
  zSeries hardware (z800, z900, z990 etc.) only supported!
  z/OS V1R4 or higher (when SAP certified and released)
  DB2/390 V8 or higher and DB2 Connect V8 SP5 or higher
  instead of ICLI connectivity
  Application Server:
  z/OS V1R4 or higher (when SAP certified and released) on
  zSeries hardware (z800, z890, z900, z990 etc.) only supported!
  SuSE Linux for zSeries SLES8 or higher on zSeries hardware
  AIX 5.1 or higher on pSeries hardware
  Windows (2000/32bit, 2003/32 or 64bit) or higher
  on Intel based hardware
  Solaris 8 or higher on Sparc based hardware
  JDK 1.4 or higher
  SAP Kernel: SAP WebAS 6.40 or higher
  SAP J2EE: SAP J2EE 6.30 SP3 or higher

News for mySAP Business Suite on IBM eServer zSeries with database server DB2 UDB for z/OS and OS/390 Version 2004Q2, status of July 16, 2004

- If you want use TCP/IP as protocol between appserver and dbserver you now need at least
  OS/390 *V2R10* or z/OS 1.1 and higher when being SAP certified
  (including RMF, DFSORT, DSS, Sec.Server)
  DB2/390 V6 or higher when SAP certified

- If you want use OSA Express Gigabit Ethernet you now need at least
  OS/390 *V2R10* or z/OS 1.1 and higher when being SAP certified
  (including RMF, DFSORT, DSS, Sec.Server)
  DB2/390 V6 or higher when SAP certified

- **OS/390 Versions below V2R10 are out of service after march 2003 and
  service for OS/390 V2R10 will end september 2003,
  please consider these facts for your mySAP installation and planning to switch to
  actual releases of z/OS (1.4 or higher) !**

**News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004**

Hints and recommendations

for SAP R/3 with DB2 for OS/390 database server

IBM Insight for SAP R/3

(Release 3 available!)

Do you want to know the real workload and utilization

your sap system is running in production?

Check the description of the IBM Insight for SAP R/3 utility Program and download it and install it if appropriate!

You can find IBM Insight for SAP R/3 on the following Website:
http://www.ibm.com/erp/sap/insight

IBM Insight for SAP R/3 Overview

The IBM Insight for SAP R/3 utility program and its subsequent analysis process and report are designed to provide a high level and convenient workload analysis for an inproduction SAP system complex. The analysis includes actual active user counts, machine utilizations, user/module load distributions, dialog counts, information about batch and reporting usage, system information, and database information.
The IBM Insight for SAP R/3 utility program is packaged as an all-in-one Microsoft® Windows 95, Windows 98, Windows NT®, and Windows 2000 install image, ready for installation on any customer's Windows/Intel® system capable of communicating with the production SAP complex. Documentation is included with this software. IBM Insight for SAP R/3 has been validated to run against SAP production complexes comprised of Windows NT, AIX, AS/400, S/390, or non-IBM installed UNIX® and Windows NT environments.
To use IBM Insight, just install the utility on your PC, set up initial communication parameters, ensure authorization and access, and then begin your recording session. The software continues to record performance data from the SAP complex, using SAP's RFC functionality, until you end the session. At this point, the collected data is forwarded via e-mail to IBM for reduction, analysis, and customer report production. Customer collected data sets, as well as requests for further information or support, should be sent

in the US to: **eSizings@us.ibm.com** **,** in other regions please ask for your local sizing support via IBM Techline.

We strongly recommend that three days worth of data be collected during a period of the month with reasonably high usage. Only the data from the production system will be analyzed. Non-production environments are excluded from this offer.

…………………………………………………………

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Intel, Pentium and Itanium are trademarks of Intel Corporation in the United States, other countries, or both.

Actual Release: Insight 3.0

Overview of Process:

This software will capture performance and dialog step statistics generated by your production SAP system. The captured statistics are written to the hard drive of the Windows PC dedicated for the collection process. When the collection process is complete, the statistics are reduced and compressed before being sent to IBM for analysis. A report will be sent to you detailing how your production system was utilized. The provided collection tool is designed to have a minimal impact on your production environment.

It is recommended that you collect at least **one to three days** of statistics during a peak period to improve the quality and value of the report.

Note: **Date and time** displayed in the Insight report will be **based on the PC clock** where the Insight Collector is run – not the R/3 application servers.

Insight Host CPU Utilizations

Most of Insight's information is related to just the SAP system where Insight was run. However, Insight's host CPU utilization has a wider perspective. It is at a "host view". As such, it includes all the work running in that operating system image -- not just the SAP system where Insight was run. Running unrelated work with SAP will increase the "Host CPU Utilization". Similarly, if you were running two SAP systems on the same operating system image (e.g., in a single zSeries LPAR or with MCOD) the Insight "Host CPU utilization" is for both SAP systems. However, the "Host CPU Utilization" does not include any work running in other LPARs.

zSeries (S/390) RMF Data (sizing customers only)

In the z/OS (or OS/390) SAP environment, we strongly suggest you also provide us with Resource Measurement Facility (RMF) data that corresponds to the Insight observation interval. This can allow us to better take into account Logical Partitioning, the specific machine type, as well as other z/OS items. The following is a short description of which RMF information we would like. This description assumes familiarity with RMF. So you should pass this on to your z/OS people.

**News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004**

We would like to get the text output of a run of RMF's Postprocessor (ERBRMFPP) sent with the Insight data. Specifically we would like to see the Summary Report, the CPU Activity Report (which includes the Partition Data Report), and the Paging Activity Report. The interval of the report should, as best as possible, correspond to the Insight interval. For example, assume

Insight was run from 0800 hrs January 6, 2003 to 08:00 hrs January 9, 2003. Because of limitations of the RMF, this would entail three Postprocessor runs (and the associated RMF reports). See the Postprocessor control statements below as an example.
First report (0800 hrs to midnight January 6):
SUMMARY(INT,TOT) /* Summary reports */
REPORTS(CPU) /* CPU activity report - CPU and LPAR information */
REPORTS(PAGING) /* Paging activity report - memory installed how used */
DINTV(1600) /* Length of duration report - 16 hours */
RTOD(0800,2400) /* Starting and ending time of day to look at */
DATE(01062003,01062003) /* What day to look at - Jan 6, 2003 */
Second report (January 7 and 8 combined):
SUMMARY(INT,TOT) /* Summary reports */
REPORTS(CPU) /* CPU activity report - CPU and LPAR information */
REPORTS(PAGING) /* Paging activity report - memory installed how used */
DINTV(4800) /* Length of duration report - 2 days (continuos) */
RTOD(0000,2400) /* Starting and ending time of day to look at - all day */
DATE(01072003,01082003) /* What days to look at - Jan 7-8, 2003 */
Third report (0000 hrs to 0800 hrs January 9):
SUMMARY(INT,TOT) /* Summary reports */
REPORTS(CPU) /* CPU activity report - CPU and LPAR information */
REPORTS(PAGING) /* Paging activity report - memory installed how used */
DINTV(0800) /* Length of duration report - 3 days (continuos) */
RTOD(0000,0800) /* Starting and ending time of day to look at - all day */
DATE(01092003,01092003) /* What day to look at - Jan 9, 2003 */
Send the SYSOUT(s) to the PC that is running Insight. On this PC, rename the file(s) with a *.RMF file type and add the file(s) to the Insight data directory created by the Insight Collector when started. Do this after the data collection phase but before the reduction. The Insight Reducer will then automatically compress the entire directory and send all the data to IBM. Additionally, we recommend that you save all the SMF type 70 through 78 records for this interval in case you might want to do further analysis later. For example, after IBM has sent you the Insight results, you want to look in more detail at the eight hour peak CPU utilization period identified by Insight.

Usage Requirements:

A dedicated PC:

• IBM compatible with at least a 233 MHz Pentium processor and 64 MB of RAM.

• Installation of Windows 95, 98, Me, 2000, XP, or NT 4.0 operating system.

• Windows 95 may require the Common Control v5 update and the Windows Socket 2 update available from Microsoft.

• Disk space requirements: multiply the total expected number of dialog steps the Insight Collector will capture by 0.00025. Example: The Insight Collector is expected to run for four days capturing one million dialog steps per day. 4,000,000 x 0.00025 = 1,000MB = 1GB of disk space.

• For Windows 2000 and NT 4.0: Set the total virtual memory (physical memory + paging file) to a minimum of 128MB.

• PC must be on LAN with direct TCP/IP access to all production servers (except for a dedicated database server).

• The TCP/IP address of all server short host names (as seen in SM51) must be resolved by either "hosts" file entries, or DNS with a consistent, fully qualified domain. In an SP environment, short host names may require an alias in the PC's hosts file to resolve the switch host names over the client token-ring or ethernet network. Note: do not specify a domain in the SAP logon parameters.

    Example alias entry in the PC's hosts file:
    #IP address ethernet switch
    # hostname hostname
    9.93.100.21 appsv1en appsv1cs
    • The PC must be powered on during the entire data collection process.
    • Disable the PC's power management (suspend) during the collection process.

SAP R/3 system:

• *Insight* supports SAP releases 3.0D and higher.

• The SAP Operating System collector (saposcol) must be setup and running on all application servers in the target system.

• If the database is on a dedicated server (no SAP instance), saposcol and rfcoscol must be installed and working. Also, an RFC destination (TCP/IP connection in SM59) must be configured to access the remote saposcol from the Central Instance. This RFC destination is entered when prompted with the Dedicated Database dialog box.

• SAP statistics recording must be enabled (profile parameter: stat/level = 1).

• A SAP user ID of type CPIC (System) must be created and assigned a profile (e.g. Z:INSIGHT) with the following authorizations:

S_ADMI_FCD(S_SACHBEARB), S_C_FUNCT(S_C_FUNCT_AL), S_DATASET(S_DATASET_AL), S_LOG_COM(S_LOGCOM_ALL), S_RFC(S_RFC_ALL), S_RZL_ADM(S_RZL_SHOW).

**News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004**

Usage and implementation hints and tipps

♦ to optimize load time use DASD FastWrite for DB2 logs

♦ put DB2 user catalog into an VLF dataspace (Updates in memory!)

♦ **check on a regular base (e. g. each week!) for latest z/OS and/or OS/390, database
   and other SWs service and PTF levels (use info in SAP NOTE 81737,
   please draw always a new copy from SAP SERVICE SYSTEM:**
   service.sap.com/notes

♦ speed up client copy (SAP R/3 NOTE 96732)

♦ **use the latest kernel patch level available**

♦ If you have IBM ESS ("Shark") or RVA DASD available with the FlashCopy function or
SnapShot Software installed you can use very fast FlashCopy or SnapShot ImageCopies in con-
junction with use of DFSMS support (Parameter "concurrent") which is available since
4/98.(refer to IBM redbook SG24-5268 DFSMSdss SnapShot and Virtual Conc. Copy)

News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004

NOTE Assistant

The Note Assistant, a new tool for implementing and handling SAP Notes,
is available to all customers as of April 20, 2001.

This development represents a small revolution for those involved in the implementation of SAP
Notes, as it makes working with corrections faster and simpler than ever before.
The Note Assistant is intuitive and easy to use, with four easy steps:

Load SAP Note
Read SAP Note carefully
Check prerequisites
Implement correction

The Note Assistant determines the appropriate correction instruction for that version of your
SAP solution and issues a green light signaling you to proceed with implementing the correction.
One of the most important capabilities of the Note Assistant is its ability to recognize dependencies on Support Packages, upgrades, and SAP Notes that have already been implemented. Moreover, the Note Assistant is closely integrated with the Modification Assistant. After you implement a Support Package, for example, any corrections indicated in SAP Notes are displayed
separately from your own modifications, which makes the adjustment much more efficient.

It is still essential that the person who deals with the implementation of SAP Notes reads the
note carefully to find out whether it corresponds to the specific situation. The note also contains
information on whether it involves preparation or follow-up tasks.

The Note Assistant is available for SAP R/3 4.5B, 4.6B, and 4.6C. You can download the Note
Assistant free of charge from the SAP Service Marketplace. For more information, visit the SAP
Service Marketplace at http://service.sap.com/noteassistant.

**News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004**

SAP Announces Updated Release and Maintenance Strategy for mySAP ERP and SAP R/3

SAP has defined a new, streamlined Release and Maintenance strategy, that offers our customers more flexibility in planning the best suited path and point in time for their transition from SAP R/3 to mySAP ERP. This strategy involves several new Extended Maintenance offerings, and as a whole offers long term planning security.

Effective immediately, SAP is introducing a new **5 - 1 - 2** release and maintenance strategy for mySAP ERP, as follows:
• Duration of Mainstream Maintenance for a software release is 5 years (at Mainstream Maintenance fee)
• Thereafter, Extended Maintenance is available for 1 more year at an additional fee of 2%
(current Mainstream Maintenance fee + 2%)
• Thereafter, Extended Maintenance is available for 2 more years at an additional fee of 4%
(current Mainstream Maintenance fee + 4% per year)
• Thereafter, the software release will enter Customer-Specific Maintenance. If a customer does not order Extended Maintenance, the release will enter Customer-Specific Maintenance directly after the end of Mainstream maintenance. For more information on the Customer-Specific Maintenance phase, see SAP Service Marketplace, quick link http://service.sap.com/maintenance , then SAP Standard Support -> Customer-Specific Maintenance.

For existing SAP R/3 releases, the following maintenance extensions will be offered:

• **SAP R/3 Enterprise Extension Set 1.10** - Extension of Mainstream Maintenance from December 2006 until end of **March 2009** at no extra fee; includes all Industry Add-Ons (-> alignment of Mainstream Maintenance for SAP R/3 Enterprise Extension Set 1.10 and 2.00)
• **SAP R/3 Enterprise** - Extended Maintenance from April 1, 2009 until the **end of March 2012** (first year: additional fee + 2%, next 2 years: additional fee + 4% per year). Both Extension Sets (1.10 and 2.00) can be extended until end of March 2012.
• **SAP R/3 4.6C** - Extended Maintenance from January 1, 2007 until the **end of December 2009** (2007: additional fee + 2%, 2008/2009: additional fee + 4% per year).
• **SAP R/3 3.1I - 4.6B** - Extended Maintenance for an additional 2 years from January 1, 2005 until the **end of December 2006** for an additional fee of +4% per year.

The overall payment during the Extended Maintenance phase is the Mainstream Maintenance fee (currently 17 %) plus an additional fee of 2% or 4% per year.

The Extensions mentioned above include **legal changes** for human resources (HR) as well as financials and logistics (FI/LO) software which is offered by SAP or an SAP subsidiary as part of Mainstream Maintenance. HR and FI/LO country versions whose Mainstream Maintenance period has already ended will not be reinstated.

Industry Add-Ons are also included in all Extension offerings mentioned above, but Industry Add-Ons whose Mainstream Maintenance period has already ended will not be reinstated. If there are several releases of an Industry Add-On for the same SAP R/3 release, only the latest Industry Add-On release will be supported during Extended Maintenance.

Detailed information including scope and restrictions for Extended Maintenance is available in SAP Service Marketplace at quick link http://service.sap.com/maintenance , then SAP Maintenance Extension -> SAP R/3 Maintenance Extension. Order forms for Extended Maintenance will be made available at this site by end of April 2004.

**News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004**

* Overall payment is Mainstream Maintenance fee (currently 17 %) plus additional fee of 2% or 4%.

This strategy is also valid for all Industry Add-Ons based on the releases above.
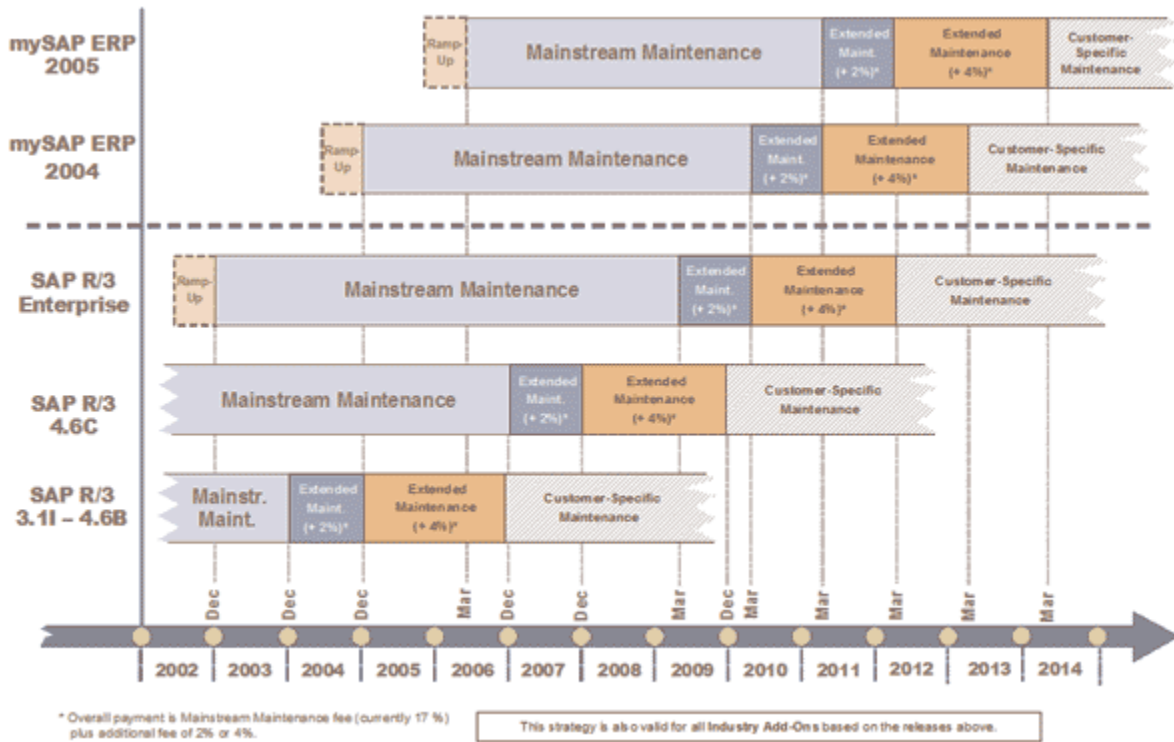
News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004

Informational IBM APAR II13767 (dated 04/03/15)
DB2 V6 / V7 LOB Manager recommended Maintenance information

It lists all open or closed problem with LOBs and DB2 UDB on z/OS and OS390.

Item II13767

```
APAR Identifier ...... II13767      Last Changed ........ 04/03/15
DB2 V6/V7 LOB MANAGER RECOMMENDED MAINTENANCE INFORMATION
                              LAST UPDATED MAR 15, 2004


Symptom ...... IN INFO            Status ........... INTRAN
Severity ................... 4    Date Closed .........
Component ......... INFOPBLIB     Duplicate of .......
Reported Release ........ 001     Fixed Release ............
Component Name PB LIB INFO ITE    Special Notice
Current Target Date ..            Flags
SCP ...................
Platform ............


Status Detail: Not Available


PE PTF List:


PTF List:



Parent APAR:
Child APAR list:



ERROR DESCRIPTION:
Following is a list of DB2 V6/V7 LOB fixes (involving Lobs,
Blobs, Clobs, LongVarchar).  Customers utilizing LOBs are
encouraged to be current with this service, apars that affect
LOB follow standard support procedures and critical data
corruption/integrity should be marked HIPER.  *All LOB HIPER
apars should be applied.*
.
Please note any references that list ' * MAJOR FIX ', please go
to at least that level fix, plus any HIPERs.
.
OPEN indicates we are working on that APAR.
04nn indicates we are waiting on PTF closure/availability, but
the APAR is Closed and the PTF is orderable.
```

```
 .
  APAR#   V6 PTF# V7 PTF#   PUT     *2003*
  ───────  ──────── ────────  ─────────────────────────────────
 .
 PQ70050/UQ73954/UQ73954 0302 DSNL032I DSNLIRTR D3101A DDF w/Lobs
 .
 PQ70063/UQ74641/UQ74642 0303 INCOR DRDA DATA STREAM SYNTAX ERROR
 PQ71460/UQ74741/UQ74742 0303 04E D35111 DSNLZS00 :00A0 DDF
 .
 PQ69659/UQ75887/UQ75887 0304 DATASET SIZE INCREASE REORG LOBTBS
 PQ71563/UQ75171/UQ75172 0304 04E C90101 DSNIBMCL:5001 LOAD D/S
 PQ71419/UQ75545/UQ75546 0304 INCOR SQLCODE-904 C900D1 Lob Proces
 .
 PQ72360/UQ76995/UQ77002 0306*DATA CORRUPTION D/S GBPCACHE
 PQ72424/UQ77496/UQ77497 0306*0C4 DSNIPSFI+017A,DSNIBABR+016A DEL
 PQ69646/UQ77395/UQ77396 0306 04E E40600 DSNUECM2+2EF6 REPAIR DBD
 PQ79986/UQ77395/UQ77396 0306 04E E40600 DSNUECM2+2EF6 REPAIR DBD
 PQ72828/UQ77115/UQ77115 0306 0C4 RC10 DSNB1PCP+0BC2 DYNCACHE PAR
 PQ73226/UQ77107/UQ77108 0306 04E C200C3 DSNB1REL RUNSTATS LOBTBS
 PQ74511/  N.A. /UQ77440 0306*C90105 DSNIWLPG:0C28 PGMAP ID> X'FF
 .
 PQ75071/UQ78396/UQ78397 0307 INCOR COPY PENDING,LOAD LOG NO RESU
 PQ74304/UQ77947/UQ77948 0307*04E C90205 CORRUPT SPACEMAP PAGE DS
 PQ74377/UQ78618/UQ78618 0307 04E E72018 DSNXSINE +0B3A Null LOB
 PQ75250/UQ77852/UQ77853 0307 0C4-11 DSNOLLM DSNOCCLO H:V/?
 PQ75315/UQ78165/UQ78166 0307 E20003 STORAGE LEAK LOB Encoding
 PQ75319/UQ78576/UQ78577 0307 0C4-RC10 DSNXRGPL+0E6C UDF CORRUPT
 PQ75396/UQ77969/UQ77970 0307*C90101 DSNOMAPX:5008 CORRUPT FullIm
 PQ75532/UQ78383/UQ78384 0307*0C4 DSNB1GRA IMAGE COPY DATA CORRUP
 PQ75644/UQ78260/UQ78261 0307*C90101 DSNODAL1:002 CORRUPT LOGAPPL
 PQ75943/UQ80332/UQ80333 0307 E20003 DSNSVBK+05FC DDF,CSO BLOCKS
 .
 PQ75466/UQ78635/UQ78637 0308 INCOR REORG LOB TBS ORGARTIO COLUMN
 .
 PQ76690/UQ79513/UQ79514 0309 04E C200B2 DSNB1RWI SHRLEVEL &Updt
 PQ77451/UQ79641/UQ79642 0309 04E-C90101 DSNONLLE:5003 Trigger
 PQ77832/UQ80070/UQ80071 0309 C90101 DSNOLMAT:5003 REORG UNLoad
 .
 PQ75116/UQ79360/UQ79361 0310 04E C90101 DSNISDLE :1001 LOBTBS
 PQ75224/  N.A. /UQ81099 0310*INCOR UPDATE INLIST CONCAT CLOB
 PQ76726/UQ80231/UQ80232 0310 0C4-4 DSNOALLO+3C8E PGLOGRBA HLSMAP
 .
 PQ77159/UQ80403/UQ80404 0310 04E C90086 ON LOB REORG dbet
```

```
PQ77368/  N.A. /UQ80230 0310*C90101 DSNODAL1:5002 D/Shr CORRUPT
PQ78495/UQ80631/UQ80631 0310 MSGDSNU518I BROKEN PAGE COPY SHRLEV
PQ78667/UQ80733/UQ80734 0310*BROKEN DATA RECOVR INCREMENTAL IMAG
PQ78860/UQ80787/UQ80789 0310 04E D31010 DSNLIRTR:001E DDF w/Lobs
PQ79248/UQ81164/UQ81164 0310*0C4 DSNIDALC>04F E50702 Clnup CORRU
.
PQ70319/UQ78269/UQ78269 0311 C90101 DSNILGCL:5004 REORG LOBTBS
PQ76318/UQ78269/UQ78270 0311*0C4 RC4 DSNORCHU x'1A26' REORGCORR
PQ80087/  N.A. /UQ81984 0311*C90101 DSNODAL1:5002, DSNOMAPX:5005
.
PQ79589/UQ82863/UQ82864 0312 LOB LOCK NOT RELEASED LOCATORS
PQ75326/UQ82542/UQ82543 0312*LOB DATA CORRUPTION REORG LOB TBS
PQ79109/  N.A. /UQ82113 0312*0C4 DSNUBASA+284E COPY LOBTBS
PQ79589/UQ82863/UQ82864 0312 LOB LOCK NOT RELEASED Externaloc
PQ79986/UQ82441/UQ82442 0312 C200AD DSNKDLE XLatch on LOB PAGE
PQ81399/  N.A. /UQ83045 0312*C90101 DSNOLADS:500A D/Shr Corrup
.
 APAR#  V6 PTF# V7 PTF#   PUT     *2004*
 _____ _____ _____  ____    _____
PQ80411/UQ84585/UQ84628 0401 04E C90110 DSNGDVUT:5025 Incor
PQ82032/  N.A. /UQ83393 0401*C90101 DSNOLADS:5007 CORRUPTION
PQ83081/UQ84688/UQ84689 0402 04E E20004 DSNSVBK +060A DDF
PQ83210/UQ84358/UQ84359 0402 04E C90101 DSNIPSFI:5007 SYSPLEX
PQ83429/UQ85103/UQ85104 0402 DSNIDBLK:50CC DROP AUX INDEXES
.
PQ79419/  N.A. /        OPEN LOBS W/OUT EXTENDED DATA LENGTHS
PQ81973/        /        OPEN LOB TBS w/DEFINE NO, CHKP>RECOV
PQ84242/        /        OPEN RECOVER MSGDSNU1407I INCREM IMAGECO
PQ84450/  N.A. /UQ85966 04nn INCOR SQLCODE-138 INVALID SUBSTR  O
PQ85214/  N.A. /UQ85964 04nn OPEN 04E C90101 DSNITCUS:5002 LOB
.
PQ84792/        /        OPEN INCOR ROW INSERTED SQLCODE433N TRUN
PQ84855/        /        OPEN HANG REXX Stored Procedure LOB parm
PQ84856/        /        OPEN INCOR SELF-REFERENCING UPDATE LOBCo
PQ84971/        /        OPEN 04E DSNUFOBD+02EE REPAIR TO DELETE
PQ85027/        /        OPEN UNLOAD 0C4-04 DSNOLLM LOB TBS
.
PQ86085/        /        OPEN 04E E20003 DSNSVBK +05FC Strg Leak
.
.
.
```

MCOD ("One database")

MCOD, called Multi Component in One Database, is the initiative of SAP to offer a solution for a consolidation of SAP systems.

Although installation was already available for months, more features are now offered for DB2 on zSeries including an improved version of system monitoring. The features listed below are applicable for both single or shared databases (Sysplex). However, it is recommended to use MCOD with a datasharing system.

MCOD Features:

a) Allows to install multiple SAP components in one or more DB2 subsystems. SAP components are distinguished by different high-level qualifiers and creators / schematas (<> SAPR3)
    .Initial support with 4.6D SR1 (SAP Note 388866)
    .Check availability dates and requirements per component
         in SAPNet!

b) Keeps logically connected systems physically consistent
    .Consistent R/3 – CRM landscape
    .Pooling of UNRELATED systems (eg. large # of test systems)
is NOT recommended!

c) DB2 data sharing provides the optimal platform for MCOD
    .Fully customizable/tunable instances(data sharing member)
    .Consistent backup and recovery
    .Maximum flexibility and scalability from intra LPAR to

    Parallel Sysplex

Implementation of the MCOD features:

1) Limitations:
DB2/390 currently has a limit of 5 fullblown SAP systems in one DB2 subsystem.

2) Installation:
It is possible to install additional SAP systems in one datebase entity using a random schema name starting 4.6C. As a recommended naming convention the schemas shall be named "SAP<sid>".

3) Upgrade:
It is possible to upgrade any of the SAP systems within one database entity independently.

4) Backup:
Database backups are always and only applied to the complete da-
tabase subsystem i.e. all included SAP systems.

5) Restore:
See backup.

6) Recovery / Rollforward:
Based on the common Restore and the corresponding Log Files all
SAP systems will be synchronized at the same "point-in-time".

7) Homogeneous system copies:
Database tools copy all SAP systems at a time / system consis-
tency.
SAP tools copy SAP systems by SAP system from and into another
database.

8) Job scheduling:
Each SAP system within a database entity can schedule its own
jobs only.
With release 6.10, the new functionality of DB13C allows to cen-
trally submit jobs for all defined systems in a database entity.

9) CCMS tools / Monitoring:
Each SAP system monitors its own system or database subsystem
where appropriate (Alert-Monitoring or Database performance
analysis).

 For introduction of MCOD with DB2 UDB for zSeries and prerequi-
        sites **please refer to the SAP notes 399419 & 440954.**

**News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004**

High Availability and Automation

A new high availability solution for mySAP on DB2 for z/OS has been developed by IBM in close cooperation with SAP. It is based on the IBM product System Automation for OS/390 and uses SAP's new design of the 'central instance' concept. Concepts of automation, high availability, and transparent failover are combined in this new solution which is currently being tested by selected customers. High Availability is a decisive factor for most of our customers.

The database is the most critical component in an SAP system - and DB2 UDB for OS/390 already offers a long, well-known history of high availability features. DB2 data sharing in a Parallel Sysplex environment is the key element of this continuous availability solution. Additionally ARM, dynamic virtual IP Addresses (VIPA), and shared HFS are exploited in order to guarantee a minimum of system outages along with a maximum of automation. Learn more about System Automation for OS/390 and its additional features needed to streamline daily operations, like features for automated startup, shutdown, maintenance, and monitoring, at: http://www.ibm.com/servers/eserver/zseries/software/sa
Find more details on the High Availability solution, for example, the October 2001 workshop presentations or software requirements as well as samples (automation policy, startup scripts, profiles, and more) at: http://www.ibm.com/servers/eserver/zseries/software/sa/adds/sap_r3detail.html

**News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004**

There is a webpage

"DB2/SAP Quarterly Technical Newsletter"
available via

http://www.software.ibm.com/data/partners/ae1partners/sap

with a quarterly update frequency.

Information on the latest certified levels are recorded in SAP R/3 NOTE 81737.

In addition, information on the additional function being provided via
the service stream for DB2 V6 is documented on the web at:

http://www.software.ibm.com/data/db2/os390/v6apar.html

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FAST and RELIABLE - The "Split Mirror Backup Solution" Tested with IBM ESS (Shark) and IBM RVA!!!

This solution is described in the following documents:

- SAP TechED 99 Presentation: SAP R/3 Advanced Infrastructure Solutions ...
- Detailed Description: High Availability Split Mirror Backup and Recovery

You can find these documents unter following URL:

http://www.storage.ibm.com/hardsoft/diskdrls/technology.htm

The necessary new DB2 function LOG SUSPEND/RESUME write is a standard function in
DB2 V7 and is available as a PTF in DB2 V6R1: PTF UQ36695 ; APAR PQ31492.

News for mySAP Business Suite on IBM eServer zSeries with database server DB2 UDB for z/OS and OS/390 Version 2004Q2, status of July 16, 2004

Appendix:

Info from older newsletters

- **News of 2004Q1**
- **News of 2003Q4**

News for mySAP Business Suite on IBM eServer zSeries with database server DB2 UDB for z/OS and OS/390 Version 2004Q2, status of July 16, 2004

News of 2004Q1

1. Hints to new or updated SAP notes or information include
(please have a detailed look into the part about SAP Notes for planning purposes in this document)

1.1. **Please check important updates in Q1 2004 in SAP Note 81737:**
- **LOB Manager recommended maintenance**
- **new MCL on z990 for better HiperSocket Performance**
- **DB2 7.1 new service level**
- **z/VM requirements and APARS**
- **etc.**

1.2. **SAP announces updated Release and Maintenance Strategy for mySAP ERP and SAP R/3**

1.3. **Update of SAP Note 158875 , DB2/390: Planned classes for R/3 on DB2 for OS/390 for 2004, V55, updated june 04, 2004**

1.4. **Update of SAP Note 634299, DB2/390: LOB Data destroyed after COPY utility, updated january 9, 2004**

1.5. **SAP Note for High availability and automation solution for DB2 on z/OS, 569996 (november 11, 2003), and related Notes: 524816, standalone ENQ server (updated february 13, 2004), 632681, core dump using standalone ENQ and 716915, CST patch collection.**

1.6. **SAP Note 660528 for Requirements to run SAP NetWeaver on zSeries (november 11, 2003)**

1.7. **SAP Note 710408 for Prerequisites Kernel 6.40 for WAS 6.10, 6.20 (february 25, 2004)**

1.8. **SAP Note 662523 for SAP Kernel 6.40 as downward-compatible Kernel for 6.10, 6.20 (september 23, 2004)**

1.9. **IDES for R/3 Enterprise available, SAP Notes 174107 (IDES availability) and 571893 (IDES for R/3 Enterprise available)**

**News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004**

2. **SAP Release matrix with end of service dates for OS/390 and z/OS releases as well as for DB2 as available**

Release-Matrix:

SAP Release (Kernel)	OS/390 Operating System	DB2 Database
3.1	OS/390 2.10 +	V6, V7
4.0	OS/390 2.10 +	V6, V7
4.5	OS/390 2.10 +	V6, V7
4.6D	OS/390 2.10 +	V6, V7 (V8)
6.20	z/OS 1.2 +	V6, V7 (V8)
6.30	z/OS 1.4 +	V7 (V8)
6.40	z/OS 1.4 +	(V8)

SAP end-of-service (as stated in updated SAP release and maintenance strategy of march 2004) :

SAP Release (Kernel)	End-of-Service (17% Mnt fee)	End of Extended SAP Service 1st period (17%+2% Mnt fee)	End of Extended SAP Service 2nd period (17%+4% Mnt fee)
3.1	Dec 2003	Dec 2004	Dec 2006
4.0	Dec 2003	Dec 2004	Dec 2006
4.5	Dec 2003	Dec 2004	Dec 2006
4.6D	Dec 2006	Dec 2007	Dec 2009
6.20	March 2009	March 2010	March 2012
6.30	March 2009	March 2010	March 2012
6.40	March 2010	March 2011	March 2013

Extended Maintenance Period for SAP Kernels 3.1I_COM, 4.0B_COM, 4.5B, and 4.6D from January to December 2004

New SAP Kernel Versions

To react to the end of maintenance of some databases / operating system releases, SAP will pro-vide new kernel versions (**<kernel_release>_EXT,** for example **31I_EXT**) for the following SAP R/3 releases in Q4 2003:

- SAP R/3 3.1I

- SAP R/3 4.0B

- SAP R/3 4.5B

- SAP R/3 4.6B

In addition, SAP will also provide patches for the SAP kernel versions 31I_COM, 40B_COM, 45B and 46D for certain database/operating system combinations in 2004. To find out which da-

News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004

tabase/operating system combinations will be supported with which SAP kernel releases, see the
OS/DB - Kernel Matrix.

With these new extended kernels IBM took the chance to rebase the 46D application server on OS/390 2.10 (as new minimum release) and thereby exploit the new and fast high-performance linkage convention (XPLINK).
The resulting performance improvement is in the range of 10 to 20 %.
If you are running SAP R/3 4.6 and you use the application server on OS/390 or z/OS we recommend to install the 46D_EXT kernel.
You need to replace the 46D kernel with the 46D_EXT modules completely and on all instances.

SAP only offers support for a certain SAP kernel version if the underlying database/operating system combinations are still maintained by their suppliers. For more information, see in addition SAP Note 663811.

Support of Operating Systems and Databases

Note that:

SAP **cannot** support operating systems, databases and other third-party middleware components that have run out of maintenance by their suppliers.

Therefore, customers may have to upgrade their database/operating system to more recent versions. SAP will **only** be able to support operating systems, databases and other third-party middleware components if the respective vendor offers a maintenance extension for his product. If this extension is defined as chargeable by the vendor, SAP will add this cost to the fee for the SAP maintenance extension.

Support of Upgrades

Please take the following into consideration, when planning your SAP system upgrade:

- SAP does not support direct upgrades to releases in extended maintenance.

- SAP may not support direct upgrades from releases in extended maintenance to higher releases in mainstream maintenance.

- SAP offers direct upgrades **from** SAP R/3 releases 3.1I, 4.0B, 4.5B or 4.6B **to** SAP R/3 4.6C and any SAP R/3 Enterprise release

For more details about the maintenance extension see the maintenance extension pages.

News for mySAP Business Suite on IBM eServer zSeries with database server DB2 UDB for z/OS and OS/390 Version 2004Q2, status of July 16, 2004

OS/390 resp. z/OS end of service

OS/390 2.10, 5647-A01	**- September 30, 2004**
z/OS 1.1, 5694-A01	**- March 31, 2004 (out of service!)**
z/OS 1.2, 5694-A01	**- October 31, 2004**
z/OS 1.3, 5694-A01	- March 31, **2005**
z/OS 1.4, 5694-A01	- March 31, **2007**
z/OS 1.5, 5694-A01	- March 31, **2007** (planned)
z/OS 1.6, 5694-A01	- tbd

For z/OS end-of-service dates please see:
http://www.ibm.com/servers/eserver/zseries/zos/support/zos_eos_dates.html

DB2 on OS/390 resp. z/OS end of service

DB2 V6, 5645-DB2	**30.06.2005!**
DB2 V7, 5675-DB2	- open, not announced yet, tbd!
DB2 V8, 5625-DB2	- open, not announced yet, tbd!

For DB2 end-of-service dates please see: http://www.ibm.com/software/data/db2/os390/availsum.html

Important Info about z/OS 1.6 HW support: zSeries only!

**News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004**

A new Architectural Level Set with z/OS 1.6

- **z/OS 1.6 will require z/Architecture**
  - z/OS 1.6 is planned to be available 9/04
- **Only zSeries Servers (or comparable) will be supported:**
  - z990 or comparable server
  - z900 or comparable server
  - z800 or comparable server
- **The following servers do not support z/Architecture and will not be able to run on z/OS 1.6:**
  - G5/G6 servers
    - S/390 Parallel Enterprise Server™ - Generation 5 and Generation 6 models or comparable server
  - MP/3000
    - All models of the Multiprise 3000 Enterprise Server or comparable server

- **z/OS 1.5 is the last release that will support G5/G6/MP3000 servers**
- **End of service for z/OS 1.5 is planned for 1Q07**

**News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004**

3 New and/or updated literature:

3.1 IBM Literature (Redbooks, Whitepapers etc.)

3.1.1 IBM Redbook
**(new, available since december 2003, updated march 2004)
DB2 for z/OS and OS/390:
High Availability and Performance Monitoring, SG24-6950-00**

Redbook Abstract

SAP on DB2 for z/OS and OS/390: High Availability and Performance Monitoring with Data Sharing

Abstract

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This IBM Redbook addresses the challenges posed by monitoring high availability, scalability, and performance in an SAP sysplex data sharing environment. It introduces the motivations for utilizing a design based on DB2 data sharing. It includes the principal SAP-DB2 data sharing architecture options and trade-offs used in the industry today and issues that play a role in both high availability and scalability, such as failover design, database connectivity design, workload splitting and load balancing, MCOD, and coupling facility design.

The book discusses single point of failure, important failover scenarios and outage avoidance, automation of high availability constructs, and backup and recovery considerations in data sharing environments. Performance issues are detailed in the order you would approach them at planning and implementation time. First, it discusses tuning the sysplex, which is the base for a well-performing DB2 data sharing system, then tuning the DB2 data sharing system, which is the base for a well-performing SAP system, and finally, tuning the SAP system.

The book focuses on initial planning for performance and monitoring it afterward, and explains the key points to look for to health-check your system and maintain high performance.
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News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004

3.1.2 New technical brief on Techdocs, dated January 28, 2004: IBM eServer zSeries z/OS Upgrade from SAP Release 4.6C: Measurements, Advice, and Sizing

Abstract: Upgrading from one release of SAP to a newer release has always been complex. With the SAP Release 4.6, the zSeries solution supports doing the upgrade application server processing on a restricted number of platforms. At this point only Windows 2000 and z/OS are supported. In the future this might change. But at this time z/OS is the preferred method as it minimizes network time and has the potential for significant reductions in elapsed time. However, the question has come up: "How much time and resources are needed to do the upgrade on z/OS?" The purpose of this paper is to answer that.
Explore the book online at
http://www.ibm.com/support/techdocs/atsmastr.nsf/WebIndex/WP100404
Partners and IBMers can also find it at:
http://w3.ibm.com/support/techdocs/atsmastr.nsf/WebIndex/WP100404
http://partners.boulder.ibm.com/src/atsmastr.nsf/WebIndex/WP100404

3.2 New and/or updated books by SAP PRESS (for details please look at SAP Press section in this document)

3.2.1 New: SAP Enterprise Architecture, german and english
3.2.2 New: SAP System Operations, english
3.2.3 New: SAP Bank Analyzer 3.0, german

4 DB2 UDB for z/OS version 8 will become generally available as of Friday March 26th , 2004.
After successful testing by SAP it will become also available for SAP on zSeries usage. A staged roll-out will take place depending on SAP releases and prerequisites.

On March 2nd, 2004 IBM announced that **IBM DB2 UDB FOR Z/OS Version 8** and **DB2 QMF V8.1** will become Generally Available as of Friday March 26th, 2004

**News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004**

DB2 and QMF Announce Letter. DB2 UDB for z/OS Version 8 is the most robust release to date. Key improvements enhance <u>scalability, application porting, security, architecture, and continuous availability</u>. Management for very large databases is made much easier, while 64-bit virtual storage support makes management simpler, while improving scalability and availability. This new version breaks through many old limitations in the definition of DB2 objects, including SQL improvements, on-line schema evolution, longer names for tables and columns, longer SQL statements, enhanced Java and Unicode support, enhanced utilities, more log data sets, more partitions, and many more advantages. Our extensive SQL enhancements provide for even tighter DB2 UDB family compatibility, which in turn helps our ISV and application programmers effectively leverage their skills and resources. Version 8 is a significant milestone, in that we've addressed many of your requirements, which will ensure years of ongoing incremental database and application growth.

For additional information, please visit our DB2 for z/OS home page at:
www.ibm.com/software/db2zos

DB2 Universal Database (UDB) for z/OS continues to deliver rich function for scalable and highly available data for your enterprise-scale e-business applications. Combine the power and capacity of IBM eServer zSeries, the high performance and high availability of the z/OS operating system, and this enriched version of DB2 to expand and extend your applications in the increasingly competitive on-demand environment. Being able to make database changes without an outage, such as adding a partition, is a breakthrough for availability. Alter your table and go, no need to drop and redefine.

Version 8 users will find the **DB2 Utilities Suite** to be of particular value. This tool delivers full support for the features of DB2 UDB for z/OS V8 such as Unicode catalog, long names and long statements, schema evolution, and indexing and partitioning enhancements. In addition, the DB2 Utilities Suite includes improvements to Restart that increase its autonomic capabilities, and on-line schema support that allows reconciliation between DB2 catalog/directory and tablespace or indexes copied from another system. IBM offers a complete portfolio of DB2 tools that exploit the rich new functions of DB2 UDB for z/OS V8. For more information about DB2 Utilities Suite and all DB2 Tools for z/OS, see www.ibm.com/software/data/db2imstools . For details on the tools' support of DB2 UDB for z/OS V8, see
http://www-306.ibm.com/software/data/db2imstools/support.html

5 Performance improvements with 46D_EXT kernel on OS/390 and z/OS

SAP has recently released the 46D_EXT kernel. IBM took the chance to rebase the 46D application server on OS/390 2.10 (as new minimum release) and thereby exploit the new and fast high-performance linkage convention (XPLINK). The resulting performance improvement is in the range of 10 to 20 %.
If you are running SAP R/3 4.6 and you use the application server on OS/390 or z/OS we recommend to install the 46D_EXT kernel. You need to replace the 46D kernel with the 46D_EXT modules completely and on all instances.

News for mySAP Business Suite on IBM eServer zSeries with database server DB2 UDB for z/OS and OS/390 Version 2004Q2, status of July 16, 2004

News of 2003Q4

3. Hints to new or updated SAP notes or information include
(please see in the part about SAP Notes for planning purposes in this document)

3.1. **Update SAP Note 158875,** DB2/390: Planned classes for R/3 on DB2 for OS/390, V55, updated june 04, 2004

3.2. **Update of SAP Note 138906,** DB2/390: Planning Info (release,connectivity matrix), updated september 15, 2003

3.3. **New SAP Note 663756, DB6,** Homogeneous multiconnect on DB2/390 database, september 24, 2003

3.4. **New SAP Note 683683,** Multiconnect terminates after 50 connects / reconnects, december 01, 2003

3.5. **New SAP Note 688144,** DB2/390 V7.1 Maintenance Level, **please use service level 03/08 after service level 03/02 for SAP systems!** december 05, 2003

3.6. **New SAP Note 654175,** DB2/390: Homogeneous system copy with DB resources for 6.20, september 22, 2003

3.7. **New SAP Note 634299,** DB2/390: LOB Data destroyed after COPY utility, july 2, 2003

4. New Technical Preview V1.2 for SAP NetWeaver 2004 on IBM zSeries is available, author: Bernhard Heininger, SAP , november 7, 2003

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The technical foundation of the recently announced SAP Enterprise Services
Architecture is the next generation of mySAP(tm) Technology, called SAP Net-
Weaver(tm).

In order to be able to support the SAP NetWeaver infrastructure on zSeries,
built around DB2 for z/OS, the technology needs updates on platform compo-
nents such as the database and the operating system with regard to Java and
Unicode environments.
```

News for mySAP Business Suite on IBM eServer zSeries with database server DB2 UDB for z/OS and OS/390 Version 2004Q2, status of July 16, 2004

For the zSeries platform this means that future SAP solutions require IBM DB2 UDB for z/OS Version 8 (DB2 V8), and the requirements of the supported application servers accelerate the shift towards 64-bit platforms.

In the preview the required platform components are described to help customers to prepare their landscape for the new technologies and solutions. All platform components show the minimum version required for any SAP solution released on SAP NetWeaver technology. The new technology is base for all new SAP components and also for updates of current components.

It is available on the SAP Service Marketplace:
https://www010.sap-ag.de/~sapidb/011000358700004146532003E

5. SAP Release matrix with end of service dates for OS/390 and z/OS releases as well as for DB2 as available

Release-Matrix:

SAP Release (Kernel)	OS/390 Operating System	DB2 Database
3.1	OS/390 2.10 +	V6, V7
4.0	OS/390 2.10 +	V6, V7
4.5	OS/390 2.10 +	V6, V7
4.6D	OS/390 2.10 +	V6, V7, V8
6.20	z/OS 1.2 +	V6, V7 (V8)
6.30	z/OS 1.4 +	V7 (V8)
6.40	z/OS 1.4 +	(V8)

SAP end-of-service:

SAP Release (Kernel)	End-of-Service	End of Extended SAP Service
3.1	Dec 2003	Dec 2004
4.0	Dec 2003	Dec 2004
4.5	Dec 2003	Dec 2004
4.6D		March 2006 ?
6.20	open	open
6.30	open	open
6.40	open	open

News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004

Extended Maintenance Period for SAP Kernels 3.1I_COM, 4.0B_COM, 4.5B, and 4.6D from January to December 2004

New SAP Kernel Versions

To react to the end of maintenance of some databases / operating system releases, SAP will provide new kernel versions (**<kernel_release>_EXT,** for example **31I_EXT**) for the following SAP R/3 releases in Q4 2003:

- SAP R/3 3.1I

- SAP R/3 4.0B

- SAP R/3 4.5B

- SAP R/3 4.6B

In addition, SAP will also provide patches for the SAP kernel versions 31I_COM, 40B_COM, 45B and 46D for certain database/operating system combinations in 2004. To find out which database/operating system combinations will be supported with which SAP kernel releases, see the OS/DB - Kernel Matrix.

SAP only offers support for a certain SAP kernel version if the underlying database/operating system combinations are still maintained by their suppliers. For more information, see in addition SAP Note 663811.

Support of Operating Systems and Databases

Note that:

SAP **cannot** support operating systems, databases and other third-party middleware components that have run out of maintenance by their suppliers.

Therefore, customers may have to upgrade their database/operating system to more recent versions. SAP will **only** be able to support operating systems, databases and other third-party middleware components if the respective vendor offers a maintenance extension for his product. If this extension is defined as chargeable by the vendor, SAP will add this cost to the fee for the SAP maintenance extension.

News for mySAP Business Suite on IBM eServer zSeries with database server DB2 UDB for z/OS and OS/390 Version 2004Q2, status of July 16, 2004

Support of Upgrades

Please take the following into consideration, when planning your SAP system upgrade:

- SAP does not support direct upgrades to releases in extended maintenance.

- SAP may not support direct upgrades from releases in extended maintenance to higher releases in mainstream maintenance.

- SAP offers direct upgrades **from** SAP R/3 releases 3.1I, 4.0B, 4.5B or 4.6B **to** SAP R/3 4.6C and any SAP R/3 Enterprise release

For more details about the maintenance extension see the maintenance extension pages.

OS/390 resp. z/OS end of service

OS/390 2.10, 5647-A01	**- September 30, 2004**
z/OS 1.1, 5694-A01	**- March 31, 2004 (out of service!)**
z/OS 1.2, 5694-A01	**- October 31, 2004**
z/OS 1.3, 5694-A01	- March 31, **2005**
z/OS 1.4, 5694-A01	- March 31, **2007**
z/OS 1.5, 5694-A01	- March 31, **2007** (planned)
z/OS 1.6, 5694-A01	- tbd

For z/OS end-of-service dates please see:
http://www.ibm.com/servers/eserver/zseries/zos/support/zos_eos_dates.html

DB2 on OS/390 resp. z/OS end of service

DB2 V6, 5645-DB2	**30.06.2005!**
DB2 V7, 5675-DB2	- open, not announced yet, tbd!
DB2 V8, 5625-DB2	- open, not announced yet, tbd!

For DB2 end-of-service dates please see: http://www.ibm.com/software/data/db2/os390/availsum.html

Important Info about z/OS 1.6 HW support: zSeries only!

**News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004**

A new Architectural Level Set with z/OS 1.6

- **z/OS 1.6 will require z/Architecture**
  - z/OS 1.6 is planned to be available 9/04
- **Only zSeries Servers (or comparable) will be supported:**
  - z990 or comparable server
  - z900 or comparable server
  - z800 or comparable server
- **The following servers do not support z/Architecture and will not be able to run on z/OS 1.6:**
  - G5/G6 servers
    - S/390 Parallel Enterprise Server™ - Generation 5 and Generation 6 models or comparable server
  - MP/3000
    - All models of the Multiprise 3000 Enterprise Server or comparable server

- **z/OS 1.5 is the last release that will support G5/G6/MP3000 servers**
- **End of service for z/OS 1.5 is planned for 1Q07**

News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004

5. Extended Support Package Strategy by SAP with SAP Support Package Stacks (from November 5, 2003)

At the close of the third quarter 2003, SAP began to extend its Support Package strategy for certain product versions to Support Package Stacks (SP Stacks). SP Stacks will lead to reduced complexity, increased quality, greater transparency, and easier execution of planned maintenance. In operative business, risks will be decreased even more and problem resolution accelerated. SP Stacks will take the reduction of the total cost of ownership one step further.

The increasing diversity of components within a product version calls for greater transparency when it comes to applying Support Packages and patches. With the introduction of SP Stacks, SAP is providing clear guidelines on the recommended or permitted combinations of Support Packages and patches. A new "SP Stack" will be compiled every quarter for each product version included in the new strategy. This SP Stack will contain the optimal combination of Support Package and patch statuses for the individual components at the given time.

SP Stacks are sets of Support Packages and patches for a particular product version that must be used in the given combination.

SAP recommends regular application of these SP Stacks. The technology for applying Support Packages and patches has not changed. However, SP Stacks should be seen as an entity in themselves – customers must apply the Support Packages and patches specified in the SP Stack together, in order to cover minimum requirements and dependencies between individual components.

Reducing the wide range of Support Package combinations theoretically possible to practical, sensible combinations has numerous advantages for customers:

* Enhanced quality of single Support Packages, since other components involved meet specific minimum requirements, and thus corrections are less complex and of a higher quality

* SAP's test activities can focus more on the required combinations (SP Stacks), which means that the quality and compatibility of these combinations can be improved

* Download pages specifically tailored to SP Stacks make it simpler to download the required Support Packages and patches

* Application instructions specifically created for SP Stacks reduce the time and effort needed to apply corresponding Support Packages and patches

News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004

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* Knowledge of possible restrictions and the transparency of side effects
and their solutions is generally better within the context of SP Stacks com-
pared to Support Packages and patches that are combined randomly. Potential
problems can be pre-empted or solved faster, and operating costs can ulti-
mately be reduced.

The transition to SP Stacks is initially planned for the product versions
listed in the table below.

SP Stack                      Start with Support Package        Stack Re-
leased
SAP BW 3.0B                       SAPKW30B15                     08.09.2003
SAP APO 3.1                       SAPKY31017                     19.09.2003
SAP R/3 4.6C                      SAPKH46C45                     22.10.2003
SAP R/3 4.6C (HR)                 SAPKE46C76                     22.10.2003
SAP R/3 4.7x110                   SAPKH47015                     24.10.2003
SAP R/3 4.7x110 (HR)              SAPKE47020                     24.10.2003
SAP CRM 3.0                       SAPKU30017                     17.11.2003
SAP CRM 3.1                       SAPKU31007                     08.12.2003
SAP SRM 2.0                       SAPKU350xx                     tbd

Other important information on SAP Support Package Stacks can be found in
the SAP Service Marketplace
http://www.sap.com/mk/get?_EC=jv1monu-kLY5QkQUZmf3Uu
via the Quick Link
http://www.sap.com/mk/get?_EC=PaeQBKqJZci7UpJcZGb6Ba
```

News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004

6. "DB2 for z/OS V8" Unicode Info available

DB2 for z/OS Version 8 - Unicode Changes

DB2 for z/OS Version 8, which is currently in beta status, has introduced significant changes in Unicode which will build upon Version 7's ability to create UNICODE tables. The definition of Unicode is that it provides a unique number for every character, no matter what the platform, no matter what the program, no matter what the language. It ofers both a cost savings and productivity improvement because an application can be written once and deployed across multiple countries / languages without re-engineering. The DB2 Catalog is also being converted from EBCDIC to Unicode. With new function contained within the code page, a single SQL statement will be able to access a combination of Unicode, EBCDIC, and ASCII tables. This will be a significant application enhancement for both our customers and ISV's. Additional information about Unicode itself can be found on: www.unicode.org

These materials below, which can be shared with customers, are extremely useful in defining Unicode concepts and terminology, explaining the changes made within DB2 for z/OS Version 8, and describing the subsequent customer impacts. Through the functionality introduced with Unicode, we're providing additional choices, which is critical in regards to our on-demand global environment, where more of our customers have the requirement to store international data.

Documents IDUG SJ Final Part 1 and 2 are available on request (please send me an email) or IBM internally available via IBM SAP Network Teamroom

7. SAP DB2 for z/OS OEM deliverable available (since October 2003)

This SAP DB2 for z/OS OEM deliverable now includes:
- DB2 V7 Base
- DB2 Utility Suite including:
  - DB2 Operational Utilities
  - DB2 Diagnostic and Recovery Utilities
- DB2 Connect (*)

New SAP Price:
11% of "SAP application value"
Upgrade price from previous package to new package will be available but you have to ask your SAP Sales Representative about it

 (*) Note: Please be aware that DB2 Connect is not needed within an SAP/zSeries/DB2 environment with current DB2 V7.
However, DB2 Connect will become a mandatory prerequisite with DB2/zOS V8 (for example supporting Java-based database access).

News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004

8. Updated and/or new literature

8.1. IBM Whitepaper (updated):
"Tuning SAP / DB2 / zSeries"
(Document Number: WP100287, Last Revised: 09/20/2003)

The whitepaper "Tuning SAP / DB2 / zSeries"
(Document Number: WP100287, Last Revised: 09/20/2003)
has been updated and can be downloaded from
http://www-1.ibm.com/support/techdocs/atsmastr.nsf/WebIndex/WP100287

Or go via   http://www.ibm.com/support/techdocs/atsmastr.nsf
Select 'whitepapers', select 'WP100287', and double-click it.

This paper is a performance analysis and tuning guide for SAP on DB2 UDB for OS/390 and z/OS. It describes how to analyze performance indicators for SAP with DB2, and it contains examples of typical problems and processes used to analyze them.
Since the original version of the paper was released in 2002, IBM and SAP development have added important new monitoring capability, such as RFCOSCOL-based ST04 and enhanced explain plan, to SAP on DB2 for zSeries.
The paper has been updated with descriptions of the key capabilities of these enhancements, and examples of how they can be used to simplify performance analysis with SAP on DB2 for zSeries. Performance problems that in the past could have required one to use DB2 traces or OS-level monitoring tools can now be solved via SAP transactions, which simplifies problem analysis and speeds up resolution.

8.2. IBM Redbook (new, available since december 3, 2003)
DB2 for z/OS and OS/390: Ready for Java,
SG24-6435-00

Redbook Abstract

DB2 for z/OS and OS/390: Ready for Java

Abstract

In this IBM Redbook we show how Java and DB2 for z/OS and OS/390 can work together and form a strong combination that can run your mission-critical enterprise applications. This publication focusses on the new IBM Universal Driver for SQLJ and JDBC, IBM's new JDBC driver implementation, supporting both Type 2 and Type 4 driver connectivity to the members of the DB2 family, including DB2 for z/OS, and DB2 for Linux, Unix and Windows.

This publication provides guidance on the different ways to set up your environment to hook a Java program up to a DB2 for z/OS subsystem, through JDBC or SQLJ, using the Type 2 driver and the Type 4 driver.

News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004

We provide an SQLJ tutorial, and demonstrate how to develop and deploy SQLJ programs using the new SQLJ support functions that became available with WebSphere Studio Application Developer V5.1. We demonstrate the use of Java and DB2 using native Java programs, as well as through the use of Servlets and JSPs running on a WebSphere Application Server.

8.3. IBM Redbook (updated, september 26, 2003)
DB2 UDB for z/OS Version 8 Technical Preview,
SG24-6871

Redbook Abstract

DB2 UDB for z/OS Version 8 Technical Preview

Abstract

IBM DATABASE 2 Universal Database Server for z/OS Version 8 (DB2 V8 throughout this IBM Redbook) is the twelfth and largest release of DB2 for MVS. It brings synergy with the zSeries hardware and exploits the z/OS 64-bit virtual addressing capabilities. DB2 V8 offers data support, application development, and query functionality enhancements for e-business, while building upon the traditional characteristics of availability, exceptional scalability, and performance for the enterprise of choice. The DB2 V8 environment is available only for the z/OS platform, either for brand new installations of DB2, or for migrations exclusively from DB2 UDB for OS/390 and z/OS Version 7 subsystems.

DB2 Version 8 has been re-engineered for e-business, with many fundamental changes in architecture and structure. Key improvements enhance scalability, application porting, security architecture, and continuous availability. Management for very large databases is made much easier, while 64-bit virtual storage support makes management simpler and improves scalability and availability. This new version breaks through many old limitations in the definition of DB2 objects, including SQL improvements, schema evolution, longer names for tables and columns, longer SQL statements, enhanced Java and Unicode support, enhanced utilities, more log data sets, and many more advantages.

This redbook introduces the major changes and enhancements made available with DB2 V8. It will help you understand the functions offered by DB2 V8, and provides enough information to start evaluating their applicability to your environment, as well as to start planning for the installation of DB2 V8 or the migration from DB2 V7.

8.4. **IBM Redbook** (new, available, december 16, 2003)
DB2 UDB for z/OS Version 8:
Through the looking glass and what SAP found there,
SG24-6097

DB2 UDB for z/OS V8: Through the Looking Glass and What SAP Found There

Abstract

DB2 UDB for z/OS Version 8 (DB2 V8) introduces a large number of new features that provide for un-matched scalability, availability, performance, and manageability to reliably handle any information needed in SAP solutions. The objective of this IBM Redbook is to identify the new features of DB2 V8 that are particularly beneficial to SAP and to describe how SAP applications can take advantage of these new features. While some of these features can be exploited transparently by the currently available ver-sions of DB2, for some others the next technological release of SAP will be required. The redbook intro-duces the new features and provides real-life examples from SAP to demonstrate the usefulness of the new features for SAP and to show how SAP can exploit them.

The considerations within this redbook apply to the whole spectrum of business solutions within the my-SAP Business Suite, such as mySAP ERP and mySAP Supply Chain Management. These solutions share the common technical application platform SAP NetWeaver that includes the SAP Web Application Server and SAP Business Information Warehouse.

While this redbook specifically investigates the new features of DB2 V8 in the context of SAP, the major-ity of the considerations also apply to other enterprise packaged applications. The reason for this it that from a database management perspective, these applications have many similarities, such as a strong usage of dynamic SQL and a large number of database objects. For a more general description of the new features of DB2 V8, see DB2 UDB for z/OS Version 8: Technical Preview, SG24-6871.

**News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004**

8.5. IBM Redpaper (updated, november 03, 2003)
mySAP Business Suite Managed by IBM Tivoli System Automation for Linux, REDP-3717-00

Redpaper Abstract

mySAP Business Suite Managed by IBM Tivoli System Automation for Linux

Abstract

In this IBM Redpaper, we describe the implementation and design of an automated and highly available **SAP** system driven by IBM Tivoli System Automation for Linux. We provide guidance and recommendations for a high availability strategy with respect to **SAP** environments. Practical considerations regarding design, implementation, testing, and maintenance work with the system are also discussed.

This Redpaper lists the resources and components that need to be considered when implementing automation procedures in an **SAP** environment. We describe the necessary steps to set up System Automation for Linux. Extensive testing is required to verify a proper configuration. This Redpaper also provides a verification procedure and failover scenarios. We include a System Automation for Linux policy that defines one **SAP** system in a three node cluster.

We believe that this Redpaper will be an invaluable reference for system engineers working with the System Automation for Linux product implementing **SAP** automation in a high availability environment.

8.6. SAP Press (for details please look at SAP Press section in this document)

9. Website available: www.ibm-sap.com with a lot of info about cooperation of IBM and SAP and also other news

News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004

Upgrades to target releases > 4.6

Please take into consideration that for upgrades to target releases > 4.6, e.g. Web AS 620 as prereq for R/3 Enterprise, you will need for the whole upgrade time a z/OS USS Central Instance Application Server running according to SAP Note 138906 at the end: "Also, all implementations of SAP R/3 Releases after 4.6x and later on OS/390, including DB Server implementations only, will have the same requirement for IEEE Floating Point as above. This is because the upgrade process requires the SAP Application Server on OS/390.", doing an MCI Upgrade according to SAP Note 569821 with an SAP Dialog instance running on z/OS USS before the upgrade and a SAP Central Instance Application Server on z/OS USS during the upgrade, or, as the (only) alternative (at this time) to a z/OS USS Application server, a Windows 2000 application server.
Please also read also SAP Note 594861, 620 upgrade, saplicense fails.

Appended on the next two pages you will find a collected info (as-is, without any warranty for completeness!) about needed info for an upgrade to SAP WAS 6.20:

Hints and Tipps for upgrading to Web Application Server 6.20 with SAP on DB2/390:

Please take into consideration that BEFORE first start of PREPARE the following prereqs are fulfilled:

1. Database version at least DB2 Version 6.1.0,
   my (JZ) recommendation is DB2 for z/OS Version 7.1.0 because of additional functions and longer maintenance than DB2 V6.

2. Operating System of zSeries or S/390 Server: z/OS Version 1.2 or higher as SAP certified,
    my (JZ) recommendation is z/OS 1.4 when you begin now.

On UNIX Upgrade will be only supported for z/OS Unix System Services
(z/OS USS). If your central instance is actually running on another UNIX (e.g.. AIX or Solaris) l
you have to move the central instance before starting PREPARE to z/OS USS. Alternatively you can run
a so calloed MCI Upgrade: SAP Note 569821
Platform alternative: An upgrade is also possible on an INTEL Win2000 Server (if necessary)!

Add. Infos are available in composite SAP Note Installation/Upgrade SAP R/3
Enterprise 4.70, 534334, und platform specific SAP Note 517267: Additional information on upgrading to
SAP R/3 Ent.4.7 DB2/390

3. Necessary PTFs and APARs:

News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004

SAP Note 81737 (APAR List) contains actual info to PTFs you have install before doing the upgrade.
For all start release there is a PTF checker available, see SAP Note 183311.
Missing PTFs can enhance heavily the upgrade times.

4. RACF or other security products:
During the upgrade there will be a tempory shadow system running with their own schemata names. The name of this system will be build with the schemata name of the source system with an additional "S" (e.g. SAPR3 will change to SAPR3S or SAPPRO will change to SAPPROS).
If you use RACF you have to to the following steps for this additional schema:
• define a Secondary-Authorization-ID
• create a RACF-Group with the same name
• all UserIDs who are communicating with the database has to registered as a member of this (<sapsid>adm und ICLIRUN) RACF-Group
Add. Info you will in
SAP R/3 on DB2 UDB for OS/390: Planning Guide.
If you use another security product, please do the corresponding steps according to your product documentation..

5. Actual downward compatible SAP-Kernel and necessary transports into the Start-Release
Please ensure that all necessary transports and minimum patch levels of actual downward compatible SAP-Kernel (AKK) has been installed in the Start-Release of your system.
In dependency of your Start-Release the transports, the release and the minimum needed Patch-Level of the kernel is described in one of the following SAP Notes:
Start-Release Number of SAP Note
4.6D 184399 (DDIC Corrections)
6.10, 6.20 407663
For Start-Release 4.6D you need the newest versions of the executables R3ldctl
and R3szchk. Please copy them into the directory
/usr/sap/<SAPSID>/SYS/exe/run.
6. Indizes on SYSIBM.SYSTABLES and SYSIBM.SYSTABLESPACE
The defined indizes for the SAP-System on the catalog tables
SYSIBM.SYSTABLES and SYSIBM.SYSTABLESPACE have to be checked and, if necessary, have to be expanded. The indizes have the following names:
• SYSTABLE~0 or SYSTABLE__0
• SYSTBLSP~0 or SYSTBLSP__0

7. DB2 Performance Monitor (DB2 PM)
DB2 PM is neither necessary for the upgrade nor for the productive target system. Therefore the DB2 PM-based transaction ST04 of the Upgrade-Phase KX_SWITCH is not useable. Alternatively you can run with transaction SE38 the report RSDB3001_OLD.

8. Stored Procedures:
Beginning with 4.6B DB2 UDB for OS/390 uses Stored Procedures, DB2 Utilities StoProcs (DSNUTILS) and DB2/390 Control Center StoProcs.
The necessary prereqs and preparation are described in SAP Web Application Server 6.20 on IBM eServer zSeries: Planning Guide.

9. Check BP40, SAP Note 571721

News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004

10. Optional Checks SAP Note 400565

Add infos:
Necessary ICLI Upgrades: SAP Note 136806 -> FOME620 in SFOMDATA is already available?
During the upgrade the ICLI version for the source release has to run in parallel with the new ICLI version for the target release!

New R3up, trans, tp is necessary (from SAPSERVx available)

An external Package (changed Upgrade Buffer, new transports etc) have to be installed during prepare at a special place, otherwise PREPARE will fail!

For Starting and Stopping of the shadow instance you have to use new commands, a "normal" SAP Start or Stop command doesn't work (or only when used in the "correct" directory).

Please you the IFI-Collector instead of Alert Router and ICLI-Interface, beginning with 6.20 you need this new interface for data transport of OS and DB statistics into CCMS.
You have also to implement new DB2 SAP Collector Settings, you have also to bind new DB2 plans.

Recommendation for upgrade: have "enough" work datasets available!

Base SAP Notes and other add. info:
SAP Note 407325, Released Operating Systems
SAP Note 138906, Planning Info
Composite SAP Note für R/3 Enterprise: 534334
Upgrade. Additions: 517267
Define No: 422726 (Reduce number of datasets, empty tablespaces will not be allocated)
Free Space Information (database size enlargement): 517266
Troubleshooting: 529267
Corrections: 517731
Usage of J2EE with z/OS: 534949
With WAS 6.20 there is now an IDES System on zSeries available!

News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004

3. Whitepaper IBM "SAP BW Query Performance with DB2 on zSeries" available

A whitepaper "SAP BW Query Performance with DB2 on zSeries" is available through the IBM techdocs web site.

The Techdocs URL is http://www.ibm.com/support/techdocs
Search "white papers" for document number is WP100322.

The paper is a performance analysis and tuning guide for SAP BW on DB2 UDB for OS/390 and z/OS. The paper contains
    overview of SAP infocubes and DB2 star join
    key SAP and DB2 indicators for evaluating BW query performance
    process for correlating SAP performance statistics with DB2 statement statistics
    examples of SQL analysis for BW queries
    processes for identifying aggregates needed to improve performance
    examples of common problems that can occur in DB2 or zOS in an SAP BW environment

4. IBM@server zSeries with mySAP.com™
Application Components Support Matrix (updated V1.10), dated january 20, 2003
Author: Mike Sheets, IBM Americas Advanced Technical Support, msheets@us.ibm.com

In an attempt to answer initial support questions, listed below is a high level view of mySAP (SAP R/3) Application Components support of IBM@server zSeries. SAP's former "New Dimension Products" have been integrated under mySAP Business Suite.

This matrix is made available as a good faith effort. However, it does not constitute an official support commitment from IBM. A more detailed and definitive source is SAPNET (http://service.sap.com/platforms). Please send any corrections, updates, additions, or suggestions to Michael Sheets/Poughkeepsie/IBM@IBMUS or msheets@us.ibm.com.

General Notes:

• Unless otherwise noted, "Supported" generally means both the mySAP DB Server (under z/OS) and Application Server functions (either under z/OS or Linux for zSeries).
• The Application Server functions on z/OS require at a minimum mySAP 4.6B, DB2 6.1, and OS/390 V2R8. Installation of early releases of these Application Components may be quite complex.

News for mySAP Business Suite on IBM eServer zSeries with database server DB2 UDB for z/OS and OS/390 Version 2004Q2, status of July 16, 2004

- Linux for zSeries mySAP.com application support started with its GA on May 17, 2002. For complete support it requires mySAP.com 4.6C SR2. Installation support, however, will commence for each application component with its next CD shipment after May 17, 2002. The next release is 6.20 (no 6.10 support is planned as that shipped earlier).
- If the Application Component exists as a separate mySAP system, it can extract data for its database from a zSeries mySAP.com system through normal SAP interfaces.
- In general industry add-ons and bolt-ons have no unique platform restrictions. They are dependent on the underlying SAP Technology.

mySAP Application Component	zSeries Support Status	Date	SAP Technology
Advance Planning Optimization[1]			
APO 3.0A SR3	Supported (but see footnote 1)	GA 9/01	4.6D
APO 3.10	Supported (but see footnote 1)	GA 11/01	4.6D
APO 4.0	Planned (but see footnote 1)	GA 2Q03	6.20
Business Warehouse			
BW 2.1C	Supported	GA 12/00	4.6D
BW 3.0A	Supported	GA 1/02	6.10
BW 3.0B	Supported	GA 9/02	6.20
BW 3.1C	Supported	GA 12/02	6.20
Enterprise Buyer Professional and Customer Relationship Management			
EBP/CRM 2.0C SR1	Supported	GA 4/01	4.6D
EBP/CRM 3.00	Supported	GA 7/01	6.10
CRM 3.10	Supported	GA 11/02	6.20
EBP 3.5	Supported	GA 10/02	6.20
EBP 3.5 SR1	Planned	1Q03	6.20
Corporate Finance Management			
CFM 4.6C	Supported	GA 5/00	4.6C
Knowledge Warehouse (Knowledge Management)			
KW 5.0	Supported[2]	GA 10/00	4.6D
KW 5.1	Supported[3]	GA 11/00	4.6D

[1]For zSeries, only DB and limited non-APO (e.g., upgrade) CI functions are supported. LiveCache requires NT or UNIX. APO application functions require LiveCache so they cannot run on zSeries.

[2]ContentServer on SAPDB on NT.

News for mySAP Business Suite on IBM eServer zSeries
with database server DB2 UDB for z/OS and OS/390
Version 2004Q2, status of July 16, 2004

KW 5.2	Supported[4]	GA 5/02	4.6D
Strategic Enterprise Management			
SEM 2.0B	Supported[5]	GA 8/00	4.6C
SEM 3.0B	Supported[6]	GA 5/01	4.6D
SEM 3.1B	Supported[7]	GA 10/02	6.20
New Dimension Integration			
NDI (all releases)	Supported[8]		All
Workplace			
Workplace 2.00	Supported	GA 10/00	4.6C
Workplace 2.10	Supported	GA 10/00	4.6C
Workplace 2.11	Supported	GA 10/00	4.6C
Workplace 2.11 SR1	Supported	GA 8/01	4.6C
Workplace 3.0 (Web AS 6.10)	Supported	GA 8/01	6.10
Web AS 6.20	Supported	GA 7/02	6.20
Industry Solutions in General	Intention is to be Supported within one month of other platforms		

[3]ContentServer on SAPDB on NT or WIN2000.
[4]ContentServer on SAPDB on NT or WIN2000.
[5]Requires BW 2.0B.
[6]Requires BW 2.1C.
[7]Requires BW 3.0B.
[8]These are supposed to be platform independent.