

Fujitsu Siemens Computers

Release Notice BeanConnect for openUTM V2.0A00
Connection of J2EE Application Servers with openUTM

Version V2.0A00

Release Status February 2006

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1 General

This Release Notice relates to the product BeanConnect for openUTM V2.0A00.

BeanConnect is a standardized adapter implementation in accordance with JCA 1.5 (Java Connector Architecture), which allows data to be exchanged between J2EE Application Servers such as the Oracle Application Server and EIS systems (Enterprise Information Systems). BeanConnect for openUTM V2.0A00 implements connection of openUTM applications as EIS systems.

BeanConnect for openUTM V2.0A00 supports a variety of communication paradigms. It permits outbound communication, i.e. where communication is initiated by the application server and inbound communication, i.e. where communication is

initiated by the openUTM application.

Communication can be transactional or non-transactional.

With outbound communication, there are two connection options:

- Connection using the OSI TP protocol
- Connection using the UPIC protocol

BeanConnect for openUTM V2.0A00 comprises the following components:

- BeanConnect Resource Adapter:
This component makes the JCA interface (JCA 1.5) available to the user. It is deployed in the application server and runs as an integral part of the application server.
- BeanConnect Proxy:
This component is implemented on the basis of openUTM, the universal transaction monitor from Fujitsu Siemens Computers. It establishes the transactional connection between the resource adapter in the application server on the one hand and the openUTM application on the other hand.
- BeanConnect Management Console:
This component is the Java GUI for configuring and administering the BeanConnect Proxy.

Note: Only the resource adapter component is required for outbound communication over the UPIC protocol.

Further information can be found under:

<http://www.fujitsu-siemens.com/openSEAS>

The contents of this Release Notice correspond to release status V2.0A00 of February 2006.

The Release Notice is supplied in the form of a README file. Changes which have become known subsequently are updated in this file.

This Release Notice is also available on the Internet.

<http://www.fujitsu-siemens.com/openSEAS>

BeanConnect for openUTM V2.0A00 is a licensed product. The product may only be used on the system for which it was bought.

The use of names, trademarks etc. in this Release Notice does not entitle readers to assume that these names/designations may be used without restriction by anyone; often the names/designations are protected by law or contract, even if this is not indicated here.

1.1 Ordering

The product can be obtained from your local subsidiary or from one of our sales representatives. The general terms and conditions for sales, maintenance, software provision and software support agreements apply for Fujitsu Siemens Computers.

The product consists of:

- . Licenses
- . Data volume with software

. Manual

1.1.1 Licenses

- Information on the licenses is provided in the Data Sheet. The Data Sheet is available on the Internet.
Link BeanConnect in <http://www.fujitsu-siemens.com/openSEAS>
- CMX(LINUX):
Use of this product does not require a separate license. The version of CMX supplied with BeanConnect may only be used in conjunction with BeanConnect for openUTM V2.0A00.
- openUTM:
Use of this product does not require a separate license. The version of openUTM supplied with BeanConnect may only be used in conjunction with BeanConnect for openUTM V2.0A00.

1.2 Delivery

The software is supplied on CD-ROM.
The following manual is also supplied with this CD-ROM:
 BeanConnect for openUTM V2.0

1.3 Documentation

You can find the manual for BeanConnect for openUTM V2.0 under: <http://www.fujitsu-siemens.com/openSEAS>

After installation, the Javadoc directory of the BeanConnect Resource Adapter contains a Javadoc (see manual "BeanConnect for openUTM V2.0" and the chapter "Installing BeanConnect").

The BeanConnect Management Console features an online Help system.

Changes which may have been made after the BeanConnect manual was published can be found in the BeanConnect installation directory under:

docs/English/man01-en.pdf on Solaris/Linux

docs\English\man01-en.pdf on windows

1.4 Tutorial

You can find the BeanConnect tutorial for download under: <http://www.fujitsu-siemens.com/openSEAS>

2 Software extensions

The software extensions as compared with the previous version BeanConnect V1.0A00 are described in the following sections.

- inbound communication, i.e. communication is initiated by the EIS
- transactional communication
- standardized connection of openUTM applications to J2EE application servers such as Oracle Application Server in compliance with JCA 1.5 (Java Connector Architecture)

3 Technical information

3.1 Resource requirements

CPU / BeanConnect Proxy:
At least 450 MHz, 1 GHz or higher recommended

Main memory / BeanConnect Proxy:
At least 512 MB, 1 GB or higher recommended

Disk storage requirements:

BeanConnect Resource Adapter: RAInstall.jar approx. 16 MB
extracted approx. 24 MB

Central components:

BeanConnect System:	Solaris	:	approx.	17 MB
	Linux	:	approx.	14 MB
	Windows	:	approx.	10 MB

openUTM	:	Solaris	:	approx.	580 MB
		Linux	:	approx.	145 MB
		Windows	:	approx.	50 MB

BeanConnect Proxy:

Container	:	Solaris	:	approx.	56 MB
		Linux	:	approx.	55 MB
		Windows	:	approx.	54 MB

BeanConnect Management Console:

Console	:	Solaris	:	approx.	0,1 MB
		Linux	:	approx.	0,1 MB
		Windows	:	approx.	3 MB

3.2 Software configuration

The resource adapter component is available for the following operating systems:

- Solaris(SPARC) as of V8
- Linux:
RedHat Enterprise Linux 3 (AS or ES)
SUSE LINUX Enterprise Server 8 (SLE8), 9 (SLE9)

- Windows 2000 / windows Server 2003 / windows XP
- HP-UX as of 11i
- HP Tru64 as of V5.1B

The BeanConnect Proxy and BeanConnect Management Console components are available for the following operating systems:

- Solaris(SPARC) as of V8
- Linux:
 - RedHat Enterprise Linux 3 (AS or ES)
 - SUSE LINUX Enterprise Server 8 (SLE8), 9 (SLE9)
- Windows 2000 / windows Server 2003 / windows XP

The BeanConnect components can run on the same computer or on different computers. The combination of operating systems or operating system versions used is of no significance with respect to the functionality of BeanConnect.

The BeanConnect Proxy also requires:

openUTM : An openUTM version as required for use by the BeanConnect Proxy is included on the CD and must be installed. This version may only be used in conjunction with BeanConnect for openUTM V2.0A00.

PCMX / CMX : The PCMX / CMX versions required

- . Solaris : PCMX V6.0A10
- . Linux : CMX V6.0
- . Windows : PCMX32 V4.2B20

are included on the CD and must be installed.

Note: Under Solaris, CMX as of V6.0 can be used in place of PCMX.

BeanConnect for openUTM V2.0A00 requires J2SE JDK 1.4.2_08 or later.

notice:

All BeanConnect components (Application Server, Proxy and Management Console) must use either JDK 1.4.2 or JDK 1.5.0, due to an incompatible class file format.

Enterprise Information System (EIS):

as of openUTM V5.1 on all platforms (BS2000/OSD, UNIX systems, windows)
Under BS2000/OSD, the product openUTM-D is also required for transactional communication.

The following products are also supplied free of charge

Other Manufacturers:

Sun base components:

- EJB V2.1
- JTA V1.0.1A
- JCA V1.5
- JavaHelp V1.1.2_01

Apache Group Software:

Log4J 1.2.8
Xerces 2.6.2
Xalan 2.5.2
Ant 1.6.2

Please read the copyright notes under the respective URLs. You will find them in the file "Copyright.htm" in the installation directory of the BeanConnect Proxy.

3.3 Product installation

You will find detailed information on installing BeanConnect for openUTM V2.0A00 in the manual ("BeanConnect for openUTM V2.0" in the chapter "Installing BeanConnect").

3.3.1 Update installation

A correct update installation requires that the Proxy and the Management Console may run under the "old" installation.

3.3.2 Kernel tuning

It may be necessary to increase the value of some of the UNIX kernel parameters in order to run the BeanConnect Proxy.

- Changing the kernel parameters under Solaris:

The values can be changed using the entries in /etc/system. The system must be rebooted after you have changed the values.

Recommended values for the relevant parameters:

```
set shmsys:shminfo_shmmax=0x10000000
set shmsys:shminfo_shmseg=32
set semsys:seminfo_semmap=64
set semsys:seminfo_semmni=64
set semsys:seminfo_semmns=1600
set semsys:seminfo_semmnu=64
set semsys:seminfo_semume=900
```

- Changing the kernel parameters under Linux:

The values can be changed in the file /etc/sysctl.conf. After changing you must run the commands:
sysctl -p
and additionally on SuSE Linux
chkconfig boot.sysctl on

Recommended values for the relevant parameters:

```
kernel.shmmax = 0x10000000
```

In addition, please refer to the documentation from your Linux distributor for details on the files in which the values can be changed and on how to generate a new kernel.

The notes in the delivery information should also be observed.

3.4 Product use

Information can be found in the manual "BeanConnect for openUTM V2.0".

3.5 Obsolete functions (and those to be discontinued)

The configuration properties "Debug" and "DebugFilename" from BeanConnect V1.0A00 are no longer supported. Logging in the BeanConnect Resource Adapter is performed with Log4j in BeanConnect V2.0A00 and can be adapted in the Log4j configuration file.

3.6 Incompatibilities

- The installation procedure has changed for BeanConnect for openUTM V2.0A00. You will find information on installation in the manual "BeanConnect for openUTM V2.0" and the chapter "Installing BeanConnect").
- The following methods of the EISConnection interface of BeanConnect V1.0A00 have been assigned to the EISUpicConnection interface in BeanConnect for openUTM V2.0A00:

```
String getRcvMapName()
String getSndMapName()
boolean isInTransaction()
void rcv(ByteContainer byteContainer)
byte[] rcvAll()
void rcvAll(ByteContainer byteContainer)
String rcvAllString()
void setSndMapName(String map_name)
void snd(ByteContainer byteContainer)
```

- In BeanConnect V1.0A00, encoding was activated depending on the configuration property ConnectionUrl (start with UPIC: or upic:). In BeanConnect for openUTM V2.0A00, encoding is activated with the new configuration property encodingActive.

3.7 Restrictions

- / -

3.8 Procedure in the event of errors

In the event of an error, please contact the
Call Management Center (CMC):
Tel. Problem Office Mo.-Su.: 0.00-24.00 (365 days/year)

Business times for services: Mo.-Fr.: 8.00-17.00
(apart from public holidays)

Phone: +49 1805 4040
Fax: +49 1805 336779
Internet: <http://its.siemens.de/icm>

Please make sure you have the following information ready:
Address, IDENT No., purchase date, problem description.

You can find information on the error documentation required
for diagnosis in the manual "BeanConnect for openUTM V2.0" and
the chapter "Diagnostics and Troubleshooting".

4 Hardware support

The hardware supported corresponds to that on which the
operating system versions listed under "3.2 Software
configuration" runs.