

Fujitsu Siemens Computers

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

Version V2.0A00

Release Status February 2006

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1 General

This Release Notice relates to the product BeanConnect for CICS 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 CICS V2.0A00 implements connection of CICS applications as EIS systems.

BeanConnect for CICS 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 CICS application. Communication can be transactional or non-

transactional.
Communication with the CICS application is carried out over the LU6.2 protocol.

BeanConnect for CICS 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 CICS application on the other hand. The LU62 stack is made available by the openUTM-LU62 Gateway.
- BeanConnect Management Console:
This component is the Java GUI for configuring and administering the BeanConnect Proxy.

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 CICS 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 CICS 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 CICS V2.0A00.
- openUTM-LU62:
Use of this product does not require a separate license. The version of openUTM-LU62 supplied with BeanConnect may only be used in conjunction with BeanConnect for CICS V2.0A00.

1.2 Delivery

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

1.3 Documentation

You can find the manual for BeanConnect for CICS 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 CICS 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

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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. 3 MB
extracted approx. 5 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
openUTM-LU62	:	Solaris	:	approx. 5 MB
		Linux	:	approx. 5 MB
		Windows	:	approx. 5 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 Version 8
- 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 suitable 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 CICS V2.0A00.

openUTM-LU62 Gateway: An openUTM-LU62 version suitable 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 CICS V2.0A00.

PCMX / CMX versions: 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 CICS 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):

- CICS on z/OS: z/OS as of V1.4
CICS as of V2.2
- CICS/TXSeries on Solaris / Windows: TXSeries as of V5.0

Required third-party connection software:

- Solaris: SNAP-IX V7.0.2.4 or later from Data Connection Ltd.
- Linux: IBM Communications Server for Linux, V6.2 or later
- Windows: IBM Communications Server for Windows, V6.1.2 or later

Note: SNAP-IX and the Communications Server are not supplied with BeanConnect for CICS V2.0A00.

Both Enterprise Extender and Ethernet (LLC2) are supported as

connection options.

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 CICS V2.0A00 in the manual ("BeanConnect for CICS 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 CICS V2.0".

3.5 Obsolete functions (and those to be discontinued)

- / -

3.6 Incompatibilities

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3.7 Restrictions

CICS programs:

- Outbound communication:

A CICS program must comply with the Distributed Transaction Programming (DTP) paradigm. You should also observe the programming notes for CICS programs (see the manual "BeanConnect for CICS V2.0" and the chapter "Programming Information on Outbound Communication")

CICS DPL programs are not supported directly. It is, however, possible to use DPL programs by preceding them with a DTP program which encapsulates the program link. You will find detailed instructions on how to do this in the manual "BeanConnect for CICS V2.0" and in the chapter "Programming Information on Outbound Communication").

- Inbound communication:

A CICS program must comply with the Distributed Transaction Programming (DTP) paradigm. You should also observe the programming notes for CICS programs (see the manual "BeanConnect for CICS V2.0" and the chapter "Programming Information on Outbound Communication")

EIS platforms:

CICS variants on other platforms (e.g. CICS on AS400, CICS for Windows (formerly CICS for Small Systems)) are not supported.

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 CICS 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.