

作成日：2023/09/22

```
*****  
**                               **  
**           Pay-as-you-go Software(従量課金ソフトウェア)向け           **  
**                               ソフトウェア説明書                               **  
**                               Linux 版                               **  
**           Interstage Business Application Server Enterprise Edition(サーバ)           **  
**                               V13.1.0                               **  
**                               **                               **  
*****
```

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■本書の構成について

本ソフトウェア説明書は、以下の構成で記述されています。

1. 製品概要
2. 適用マニュアル
3. ソフトウェア環境
4. ハードウェア環境
5. 制限事項
6. 移行上の注意事項
7. 注意事項
8. インストール手順
9. その他

付録 A. 製品の著作権許諾における追加条件

付録 B. オープンソースソフトウェア等のライセンス条件および責任規定

付録 C. Apache License

■本書の対象製品

本書は、以下の製品に対して記述しています。

・Linux(64bit)版 Interstage Business Application Server Enterprise Edition(サーバ) V13.1.0

■本製品の製品情報について

本製品の製品情報については、以下の URL でご覧になれます。

－ <https://www.fujitsu.com/jp/products/software/middleware/business-middleware/interstage/products/bapserver/>

■商標について

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修正履歴

〈初版(2022年2月)から第2版(2023年9月)への変更点〉

- 1) 製品のバージョン・レベルを V13.1.0 に変更しました。
- 2) 「3.1 基本ソフトウェア」の動作する基本ソフトウェアを変更しました。
- 3) 「付録 B オープンソースソフトウェア等のライセンス条件および責任規定」を変更しました。
- 4) 「付録 C Apache License」を追加しました。

1. 製品概要

従来メインフレーム中心であった基幹システムも、インターネット技術をはじめとするオープン技術の進展により、周辺業務だけでなく、コア業務もオープン化、分散化が進んでいます。基幹業務のオープン化の流れは、オンライン処理中心に始まり、それにともないデータベースがオープン化され、分散したシステムの連携、オンライン処理やデータベースに付随する一括処理のオープン化へと進展してきています。

Interstage Business Application Server は、オープンプラットフォームを活用した基幹系オンライン業務に必要な共通技術を標準提供し、柔軟性、拡張性に富む業務構築や、より堅牢性の高いシステムの運用を実現します。

2. 適用マニュアル

本製品の最新のオンラインマニュアルは下記 URL から参照することができます。

－ <https://software.fujitsu.com/jp/manual/>

3. ソフトウェア環境

本製品のソフトウェア環境について説明します。

3.1 基本ソフトウェア

本製品は以下の基本ソフトウェアで動作します。ただし、サポート期間が終了した基本ソフトウェアは、本製品のサポート対象外です。

- ・ Red Hat Enterprise Linux 7.7 (for Intel64)以降
- ・ Red Hat Enterprise Linux 8.2 (for Intel64)以降
- ・ Red Hat Enterprise Linux 9.0 (for Intel64)以降

3.2 必須ソフトウェア

本製品の動作に必要なソフトウェアについては、オンラインマニュアルの「Interstage Business Application Server インストールガイド」の「インストール条件」を参照してください。

3.3 排他ソフトウェア

本製品と共存できないソフトウェア、または共存時に注意が必要なソフトウェアについては、オンラインマニュアルの「Interstage Business Application Server インストールガイド」の「インストール条件」を参照してください。

4. ハードウェア環境

ありません。

5. 制限事項

制限事項については、オンラインマニュアルの「Interstage Business Application Server 使用上の注意」の「制限事項」を参照してください。

6. 移行上の注意事項

以前のバージョンから本製品に移行する場合の注意事項については、以下のオンラインマニュアルを参照してください。

- － アプリケーションサーバ
「Interstage Application Server 移行ガイド」
- － オープン Java フレームワーク
「Interstage Business Application Server リリース情報」
- － フレームワーク
「Apcoordinator ユーザーズガイド」
- － アプリケーション連携実行基盤
「Interstage Business Application Server リリース情報」

7. 注意事項

注意事項については、オンラインマニュアルの「Interstage Business Application Server 使用上の注意」の「注意事項」を参照してください。

製品ページに掲載されている、技術情報の注意事項も参照してください。

Interstage Business Application Server

- － <https://www.fujitsu.com/jp/products/software/middleware/business-middleware/interstage/products/bapserver/>

7.1 本製品に含まれる OSS について

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8. インストール手順

インストール時の注意事項については、オンラインマニュアルの「Interstage Business Application Server インストールガイド」の「インストール時の注意事項」を参照してください。

8.1 インストール方法

製品のインストール方法を以下に示します。

a) ログインします

b) root 権限の取得

```
$ sudo -s
```

c) ロケールのインストール

/usr/lib/locale/ja_JP.utf8 がインストールされていない場合は、インストールします。

```
yum install glibc-langpack-ja
```

d) LANG 変数の設定

```
localectl set-locale LANG=ja_JP.UTF-8  
source /etc/locale.conf
```

e) /etc/hosts ファイルの編集

ip addr show コマンドで表示される IP アドレスと、hostname コマンドで表示されるホスト名を追記します。

f) /etc/sysctl.conf の編集

オンラインマニュアルの、「Interstage Application Server チューニングガイド」の「第3章 システムのチューニング」-「3.1 サーバ機能運用時に必要なシステム資源」-「システムパラメタについて」-「◆システムパラメタの変更方法」を参照して、システムパラメタをチューニングします。

例:

```
kernel.shmni= 4118          # ----- Add  
kernel.sem= 2500 34400 2000 21180 # ----- Add  
kernel.msgmni= 516         # ----- Add
```

g) システムパラメタの反映

```
sysctl -p
```

h) redhat-lsb-core のインストール【RHEL7/RHEL8】

lsb_release コマンドがインストールされていない場合は、以下のコマンドでインストールしてください。

```
yum install redhat-lsb-core
```

- i) libnsl のインストール【RHEL8/RHEL9】
libnsl がインストールされていない場合は、以下のコマンドでインストールしてください。
yum install libnsl
- j) Interstage 運用グループの作成
/usr/sbin/groupadd -g 500 ismnggrp
- k) LANG 変数の設定を有効にするために、再ログインします。
- l) 利用者仮想サーバー内管理コマンドでインストールを実施します。
コマンドの利用手順は、「Pay-as-you-go Software ユーザーズガイド」の「利用者仮想サーバー内管理コマンドリファレンス」を参照してください。

以下のインストールタイプが選択可能です。
『SERVER』

インストールを実行すると、Interstage Business Application Server の全機能を、以下の設定値でサイレントインストールします。

```
installInfo, Name, ibasinst
parameters, ServerType, application
parameters, InstallType, custom
parameters, HostName,
parameters, SecurityMode, secure
parameters, SecurityGroup, ismnggrp
parameters, GlassFish5AdminUser, admin
parameters, GlassFish5AdminPassword, sample_password
parameters, GlassFish5DomainAdminPort, 12041
parameters, GlassFish5HttpListenerPort, 28787
parameters, GlassFish5HttpsListenerPort, 28888
parameters, GlassFish5IiopPort, 23630
parameters, GlassFish5IiopSSLPort, 23631
parameters, GlassFish5IiopMutualauthPort, 23632
parameters, GlassFish5JmxAdminPort, 18746
parameters, GlassFish5DomainRootDirectory, /var/opt/FJSViaps/glassfish5
parameters, GlassFish5DASService, Y
parameters, MngConsolePort, 12000
parameters, MngConsoleSSL, Y
parameters, MngConsoleMessageManual, Y
parameters, WebServer24Port, 80
parameters, CorbaPort, 8002
parameters, ULOGInstallFunction, CL
parameters, ULOGCodeset, UTF-8
parameters, ULOGClusterType, Non-Cluster
parameters, FN_GLASSFISH5, Y
parameters, FN_OPENJDK8, Y
parameters, FN_CORBA, Y
```

parameters, FN_OTC, Y
parameters, FN_ES, Y
parameters, FN_MQD, Y
parameters, FN_PORB, Y
parameters, FN_WEBSERVER24, Y
parameters, FN_SECURE_COMMUNICATION, Y
parameters, FN_SSO_BS, Y
parameters, FN_SSO_AS, Y
parameters, FN_SSO_RS, Y
parameters, FN_DIRECTORY_SERVICE, Y
parameters, FN_MANAGEMENT_CONSOLE, Y
parameters, FN_WEBSERVER_CONNECTOR24, Y
parameters, FN_FRAMEWORK, Y
parameters, FN_APL_EXECUTION_BASE, Y
parameters, FN_ULOG, Y

上記設定値を変更してサイレントインストールしたい場合は、サイレントインストール用パラメータファイル (BEE_param.csv) を作成し、当該ファイルを格納したフォルダパスを、SILENT_INSTALL_PARAM_PATH 環境変数へ設定してから、インストールを実施してください。

注意事項:

- a) インストール時に、GlassFish 5 の管理者パスワードを既定値以外に設定する場合には、セキュリティ情報にあたるため、サイレントインストール用のパラメータファイルの取り扱いに注意してください。また、インストール時に既定値の GlassFish 5 の管理者パスワードを使用した場合には、インストール後に必ず変更してください。
- b) Web サーバ (Interstage HTTP Server 2.4) で使用するポート番号の既定値は、80 となっています。他のサービスのポート番号と衝突しないようにしてください。
- c) サイレントインストールログは、“/var/opt/FJSVisas/interstage_install.log”に出力されます。ただし、インストーラで発生したエラーのタイミングによっては、“/tmp/interstage_install.log”に出力されている場合もあります。

サイレントインストール方法の詳細については、オンラインマニュアルの、「Interstage Business Application Server インストールガイド」の「4 章 インストール作業」- 「4.3 サイレントインストール」を参照してください。

8.2 アンインストール方法

利用者仮想サーバー内管理コマンドでアンインストールを実施します。

コマンドの利用手順は、「Pay-as-you-go Software ユーザーズガイド」の「利用者仮想サーバー内管理コマンドリファレンス」を参照してください。

アンインストールに失敗した場合、各種サービスが停止していないことが原因と考えられます。どのサービスが起動しているのかを、以下の手順で確認して、起動しているサービスを停止してから、再度、アンインストールしてください。

/opt/FJSVcir/cimanager.sh
アンインストールと管理(ミドルウェア)をロードしています...

インストール済みソフトウェア

1. Interstage Business Application Server Enterprise Edition V13.1.0

アンインストールするソフトウェアの番号を入力してください。

[number, q]

=>1

Interstage Business Application Server Enterprise Edition

説明: Interstage Business Application Server Enterprise Edition です。

バージョン: V13.1.0

会社名: 富士通株式会社

インストール先ディレクトリ: /opt/FJSVisas

インストール日付: 2023-09-01

アンインストールを開始します。よろしいですか？

[y, b, q]

=>y

アンインストール処理中です。

Interstage Business Application Server Enterprise Edition をアンインストールして
います

90% #####

以下のソフトウェアのアンインストールに失敗しました:

Interstage Business Application Server Enterprise Edition

Loading: #####

CORBA サービスが起動中です。

Interstage JMX サービスが起動中です。

Interstage 管理コンソール用 Servlet サービスが起動中です。

Interstage PCMI (glassfish5) サービスが起動中です。

Interstage Message Queue Broker (glassfish5) サービスが起動中です。

上記のサービスを停止後、再度アンインストールを行ってください。

アンインストールと管理(ミドルウェア)を終了します。

#

9. その他

9.1 同梱されている Interstage Application Server について

本製品は以下の製品を同梱しています。アップデートサイトで公開されている障害修正情報を確認する場合、これらの製品についても確認してください。

- Interstage Application Server Enterprise Edition V13.1.0

9.2 同梱されている Symfoware Server について

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- Symfoware Server Enterprise Edition V12.7.0

9.3 サンプルについて

基幹システム向けフレームワークのサンプルについては、オンラインマニュアルの、「Interstage Business Application Server アプリケーション開発ガイド」を参照してください。

付録 A 製品の著作権許諾における追加条件

a) Symfoware/RDB の使用について

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f) OSS のライセンス条件

下記の情報は、以下のオンラインマニュアルから記事を転載したものです。

- アプリケーションサーバ
「Interstage Application Server 謝辞、免責文、ライセンス文」
- フレームワーク
「Interstage Business Application Server オープン Java フレームワーク ユーザーズガイド GlassFish 編」

本製品で同梱している Symfoware Server のプログラムの免責、ライセンスについては、「付録 C Apache License」を参照してください。

第 1 章 Apache Software Foundation のライセンス文

本製品は、Apache Software Foundation によって開発されたソフトウェアを含んでいます。

1.1 Apache License Version 2.0 (Apache HTTP Server Version 2.0.59)
Apache HTTP Server Version 2.0.59 のライセンス文を以下に示します。

Apache HTTP Server
Copyright 2006 The Apache Software Foundation.

This product includes software developed at
The Apache Software Foundation (<http://www.apache.org/>).

Portions of this software were developed at the National Center
for Supercomputing Applications (NCSA) at the University of
Illinois at Urbana-Champaign.

This software contains code derived from the RSA Data Security
Inc. MD5 Message-Digest Algorithm, including various
modifications by Spyglass Inc., Carnegie Mellon University, and
Bell Communications Research, Inc (Bellcore).

Regular expression support is provided by the PCRE library package,
which is open source software, written by Philip Hazel, and copyright
by the University of Cambridge, England. The original software is
available from
<ftp://ftp.csx.cam.ac.uk/pub/software/programming/pcre/>

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

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 *
```

*/

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```
/*
 * NCSA HTTPd Server
 * Software Development Group
 * National Center for Supercomputing Applications
 * University of Illinois at Urbana-Champaign
 * 605 E. Springfield, Champaign, IL 61820
 * httpd@ncsa.uiuc.edu
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```

For the `src/lib¥apr-util¥xml¥expat¥conf/tools¥install-sh` component:

```
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PCRE is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.

Written by: Philip Hazel <ph10@cam.ac.uk>

University of Cambridge Computing Service,
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```
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=====
```

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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:

Mike Belshe (mbelshe@netscape.com)

Michael Campanella (campanella@stevms.enet.dec.com)

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```

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```

/*****
* NCSA HTTPd Server
* Software Development Group
* National Center for Supercomputing Applications
* University of Illinois at Urbana-Champaign
* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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*
*****/

```

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*
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```
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For the test¥zb.c component:

/*

ZeusBench V1.01

=====

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Thanks to the following people for their input:

Mike Belshe (mbelshe@netscape.com)

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```
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```

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```
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```

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```
strnatcmp.c -- Perform 'natural order' comparisons of strings in C.  
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```

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```
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*
```

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```
*/
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```
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 */
```

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```

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Jean-loup Gailly
jloup@gzip.org

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THE BASIC LIBRARY FUNCTIONS

Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

University of Cambridge Computing Service,
Cambridge, England.

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第 17 章 GlassFish 5

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24.2 VisualVM

VisualVM 1.3.9 のライセンス文

Project VisualVM

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Version 2, June 1991

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```
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24.3 freetype

freetype 2.5.3 のライセンス文

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```

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24.5 jakarta regexp

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- Apache Struts 1.2.9
- Apache Struts 1.3.10
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- jackson-core 2.13.5
- jackson-databind 2.13.5
- reactor-core 3.4.29
- jcl-over-slf4j 1.7.36
- commons-beanutils 1.9.3
- commons-chain 1.2
- commons-collections 3.2.2
- commons-digester 2.1
- commons-fileupload 1.5
- commons-io 2.5
- commons-logging 1.2
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/opt/FJSVibs/spring5/lib/aspectjweaver-1.9.7.jar
/opt/FJSVibs/lib/logback-classic-1.2.12.jar
/opt/FJSVibs/lib/logback-core-1.2.12.jar

Windows64

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<インストールディレクトリー>¥BAS¥lib¥logback-classic-1.2.12.jar
<インストールディレクトリー>¥BAS¥lib¥logback-core-1.2.12.jar
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<開発環境インストールディレクトリー>¥BAS¥lib¥logback-classic-1.2.12.jar
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Linux64

/opt/FJSVibs/lib/antlr-2.7.7.jar

Windows64

<インストールディレクトリー>%BAS%lib¥antlr-2.7.7.jar

<開発環境インストールディレクトリー>%BAS%lib¥antlr-2.7.7.jar

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/opt/FJSVibs/lib/slf4j-api-1.7.36.jar

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<インストールディレクトリー>%BAS%lib¥slf4j-api-1.7.36.jar

<開発環境インストールディレクトリー>%BAS%lib¥slf4j-api-1.7.36.jar

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Linux64

/opt/FJSVibs/spring5/lib/reactive-streams-1.0.4.jar

Windows64

<インストールディレクトリー>%BAS%spring5libreactive-streams-1.0.4.jar

<開発環境インストールディレクトリー>%BAS%spring5libreactive-streams-1.0.4.jar

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