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**  
**          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 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
- 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

■ 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 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/apserver/>

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修正履歴

<初版(2021年11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。

1. 製品概要

Interstage Application Server は、デジタル技術を利用し新たな顧客価値を作り出す高い付加価値の業務システムをタイムリーに提供するための基盤となるデジタルビジネス化時代に向けたアプリケーションサーバの機能を提供する製品です。

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「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「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

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Interstage Application Server

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

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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「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、「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) LANG 変数の設定を有効にするために、再ログインします。

k) 利用者仮想サーバ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、アプリケーションサーバ機能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, isasinst  
installInfo, OS, Linux
```

installInfo, softwareName, Interstage Application Server
installInfo, Edition, Enterprise Edition
installInfo, Version, V13. 1. 0
parameters, InstallType, custom
parameters, SecurityMode, secure
parameters, SecurityGroup, root
parameters, GlassFish5AdminUser, admin
parameters, GlassFish5AdminPassword, sample_password
parameters, GlassFish5DomainAdminPort, 12041
parameters, GlassFish5HttpListenerPort, 28787
parameters, GlassFish5HttpsListenerPort, 28888
parameters, GlassFish5JiopPort, 23630
parameters, GlassFish5JiopSSLPort, 23631
parameters, GlassFish5JiopMutualauthPort, 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, FN_GLASSFISH5, Y
parameters, FN_OPENJDK8, Y
parameters, FN_CORBA, Y
parameters, FN_OTS, 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

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(installparam_full.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、「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 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 Application Server Enterprise Edition

説明: Interstage 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 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 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。

#

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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
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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/>

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Version 2.0, January 2004
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```
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 */
```

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For the server¥util_md5.c component:

```
/*
 * 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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 */
 *
 * md5.c: NCSA HTTPd code which uses the md5c.c RSA Code
 *
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For the srclib¥apr-util¥xml¥expat¥conftools¥install-sh component:

#

install - install a program, script, or datafile

This comes from X11R5 (mit/util/scripts/install.sh).

#

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For the pcre component:

PCRE LICENCE

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,
Cambridge, England. Phone: +44 1223 334714.

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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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```

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

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

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regex – Henry Spencer’s regular expression library

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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
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24.3 freetype

freetype 2.5.3 のライセンス文

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24.5 jakarta regexp

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