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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 List Creator Connector (64bit) V11.0.0          **
**
*****
```

本書は、製品の取扱い、ご使用に際して特に注意すべき事項、参考となる情報等を記したものです。

#### ■高度な安全性が要求される用途への使用について

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#### ■本書の構成について

本書は、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/アンインストール手順
  9. 留意事項
- 付録A ライセンス文、免責文

#### ■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 List Creator Connector V11.0.0

#### ■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/software/interstage/listcreator/>

#### ■商標について

- ・Interstage は、富士通株式会社の登録商標です。

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#### ■略語表記について

本書では、各製品を以下のように略記しています。あらかじめご了承ください。

- ・ 「Interstage List Creator」  
--> 「List Creator」
- ・ 「Interstage List Creator Connector」  
--> 「List Creator Connector」
- ・ 「Interstage List Works」  
--> 「List Works」
- ・ 「Interstage Print Manager」  
--> 「Print Manager」
  
- ・ 「Red Hat Enterprise Linux 7 (for Intel64)」  
--> 「RHEL7」
- ・ 「Red Hat Enterprise Linux 8 (for Intel64)」  
--> 「RHEL8」
- ・ 「RHEL7、および RHEL8」  
--> 「Linux」

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## 1 製品概要

- ・ List Creator Connectorとは  
List Creator Connectorは、帳票の生成処理と帳票の出力処理を別のコンピュータで動作させ、サーバの負荷分散を実現するためのソフトウェアです。  
List Creator Connectorを使用すると、帳票の生成を行う「アプリケーションサーバ」の機能と、帳票の出力を行う「帳票出力サーバ」の機能を分離し、別々のコンピュータで動作させることができ、各サーバの負荷を分散することができます。

## 2 適用マニュアル

### 2.1 製品ドキュメント

本書の付録として、製品ドキュメントのソフトウェア説明書、インストールガイド、

およびRed Hat OpenShift上での利用手順書があります。  
ソフトウェア説明書では製品の取扱い、ご使用に際して特に注意すべき事項、参考となる情報等を説明しています。  
インストールガイドでは、本製品のインストール、アンインストール、インストール/アンインストール時の注意事項や参考となる情報などを説明しています。  
Red Hat OpenShift上での利用手順書では、本製品をRed Hat OpenShift上で動作させる手順などを説明しています。

これらの製品ドキュメントは本製品をインストールすると下記にインストールされます。本書とあわせてお読みください。

<ソフトウェア説明書の格納場所>  
/opt/FJSVoast/Readme\_ja.txt

<インストールガイドの格納場所>  
/opt/FJSVoast/InstallationGuide.pdf

<Red Hat OpenShift上での利用手順書の格納場所>  
/opt/FJSVoast/openshift.pdf

## 2.2 オンラインマニュアル

本製品の最新のマニュアルは、下記URLから参照することができます。

- ・Linux(64bit)版 Interstage List Creator Connector V11.0.0  
<https://software.fujitsu.com/jp/manual/manualindex/p21000062.html>

## 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。

- ・RHEL7 (\*1) (\*2) (\*3)
- ・RHEL8 (\*1) (\*4)

\*1 :

オペレーティングシステムは日本語環境としてインストールしてください。  
英語環境(英語ロケール)での運用の際のサポート範囲、留意事項については、オンラインマニュアル「解説編」を参照してください。

\*2 :

Red Hat Enterprise Linux 7.1 (for Intel64)を使用する場合、パッチの適用が必要です。適用するパッチについては、オンラインマニュアル「解説編」の「6.5.4 必須パッチ」を参照してください。

\*3 :

Red Hat Enterprise Linux 7.1 (for Intel64)以降を使用し、かつExcelファイル出力機能を利用する場合は、zipコマンドが利用できる環境であることを確認してください。

\*4 :

Excelファイル出力機能を利用する場合は、zipコマンドが利用できる環境であることを確認してください。

### 3.2 必須ソフトウェア

本製品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「解説編」の「6.5.2 必要なソフトウェア」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は以下の通りです。

- ・本製品の旧バージョン
- ・本製品の他エディション

### 4 ハードウェア環境

ハードウェア環境の情報については、オンラインマニュアル「解説編」の「6.5.5 必要なハードウェア」を参照してください。

### 5 制限事項

Pay-as-you-go Software 利用上の本製品の制限事項を説明します。

項番	制限事項	対処方法	解除予定
1	コネクタ連携機能のサービスを手動で停止しようとしても、システム/Java実行環境の状態により、コネクタ連携機能のサービスのプロセスが終了せずに残る場合があります。	「*1 コネクタ連携機能のサービス停止について」を参照	未定
2	List Worksの帳票印刷配信(アプリケーションサーバ機能)は使用できません。	ありません。	未定
3	マルチコネクタ連携機能は使用できません。	ありません。	未定
4	Solaris版List Works(帳票印刷配信機能)との連携はできません。	ありません。	未定

\*1: コネクタ連携機能のサービス停止について

コネクタ連携機能のサービスのプロセスが残らないように手動で停止するには、帳票出力業務中でないことを確認してから、システム管理者権限で以下のコマンドを実行してください。

```
# /opt/FJSVoast/etc/rc.d/FJSVoastrmpr term
```

なお、通常はシステム起動時にコネクタ連携機能のサービスが起動され、シャットダウン時に停止されるため、手動で起動や停止の操作をする必要はありません。

### 6 移行上の注意事項

Pay-as-you-go Software 利用上の本製品の移行上の注意事項はオンラインマニュアル「環境設定・帳票運用編」を参照してください。

### 7 注意事項

#### 7.1 注意事項

- ・List Creator Connectorのみでは帳票を出力できません。  
List Creator Enterprise Editionが必要です。
- ・本製品はイントラネット環境下で使用してください。

## 7.2 その他の注意事項

その他の注意事項については、本書の「9 留意事項」を参照してください。

## 8 インストール/アンインストール手順

### 8.1 インストール方法

#### 8.1.1 インストール前の作業

##### (1) システム環境の確認

以下の手順(手順1~手順4)で、システム環境の確認をします。

##### 手順1

List Creator がインストールされていないことを確認します。以下のコマンドを実行してください。ただし、下記コマンドのディレクトリおよびファイルが存在しない場合は、この手順は必要ありません。

```
# /opt/FJSVcir/cimanager.sh -c
```

「アンインストールと管理(ミドルウェア)」が起動し、インストール済みソフトウェアの一覧が表示されます。インストール済みソフトウェアの一覧に List Creatorが表示されている場合、本書の「アンインストール方法」を参照して List Creatorをアンインストールしてください。

##### 手順2

List Creatorに含まれるパッケージがインストールされていないことを確認します。以下のコマンドを実行してください。

```
# rpm -qi FJSVoastc
# rpm -qi FJSVoastv
# rpm -qi FJSVoast
# rpm -qi FJSVoaste
# rpm -qi FJSVoastw
# rpm -qi FJSVbankey
# rpm -qi FJSVbankey64
# rpm -qi FJSVedoc
# rpm -qi FJSVedoc64
# rpm -qi FJSVxlsl
```

上記の操作で、パッケージ情報が表示されたパッケージは既にインストールされています。その場合には、インストール済みのパッケージを削除してください。パッケージの削除方法は、インストールされている製品に付属のソフトウェア説明書を参照してください。

##### 手順3

必要なパッケージがインストールされていることを確認します。以下のコマンドを実行してください。

```
# rpm -q glibc nss-softokn-freebl libgcc libstdc++ redhat-lsb libnsl
```

上記コマンドの実行結果によって作業内容が変わります。  
 以下の表の手順で、基本パッケージをインストール、およびアップグレードしてください。

rpm -qの結果	必要な作業	備考
何も表示されない	1. [作業b]を実施してください。 2. [作業c]を実施してください。	
****. x86_64 のみ表示	1. [作業a]を実施してください。 2. サポート範囲より古いパッケージがインストールされている場合 →[作業d]を実施後、[作業c]を実施してください。 サポート範囲の場合 →[作業c]を実施してください。	x86_64で表示される版数と同じi686パッケージをインストールしてください。 なおRHEL8ではi686の「redhat-lsb」パッケージのインストールは不要です。
****. x86_64 ****. i686 の両方表示	1. [作業a]を実施してください。 2. サポート範囲より古いパッケージがインストールされている場合 →[作業d]を実施後、[作業e]を実施してください。 サポート範囲の場合 →作業はありません。	

[作業a]

以下の表を参照し、サポート範囲のパッケージがインストールされているかを確認します。なお、基本ソフトウェア名のバージョン・リリース情報に相当する部分は、ご使用のOSのバージョンによって異なります。

表8.1 RHEL7の場合に必要なパッケージ

項番	基本パッケージ名
1	glibc-2.17-55.el7.i686.rpm以降
2	nss-softokn-freebl-3.15.4-2.el7.i686.rpm以降
3	libgcc-4.8.2-16.el7.i686.rpm以降
4	libstdc++-4.8.2-16.el7.i686.rpm以降
5	redhat-lsb-4.1-24.el7.x86_64.rpm以降

表8.2 RHEL8の場合に必要なパッケージ

項番	基本パッケージ名
----	----------

項番	基本パッケージ名
1	glibc-2.28-42.el8.i686.rpm以降
2	nss-softokn-freebl-3.41.0-5.el8.i686.rpm以降
3	libgcc-8.2.1-3.5.el8.i686.rpm以降
4	libstdc++-8.2.1-3.5.el8.i686.rpm以降
5	redhat-lsb-4.1-47.el8.x86_64.rpm以降
6	libnsl-2.28-42.el8.i686.rpm以降

[作業b]

64bitパッケージをインストールします。  
RHEL7の場合

```
rpm -ivh xxxx-*.el7.x86_64.rpm
```

RHEL8の場合

```
rpm -ivh xxxx-*.el8.x86_64.rpm
```

例) RHEL8にパッケージを追加する場合

```
# rpm -ivh glibc-2.28-42.el8.x86_64.rpm           (改行なし)
      nss-softokn-freebl-3.41.0-5.el8.x86_64.rpm  (改行なし)
      libgcc-8.2.1-3.5.el8.x86_64.rpm           (改行なし)
      libstdc++-8.2.1-3.5.el8.x86_64.rpm        (改行なし)
      redhat-lsb-4.1-47.el8.x86_64.rpm          (改行なし)
      libnsl-2.28-42.el8.x86_64.rpm
```

[作業c]

32bitパッケージをインストールします。  
RHEL7の場合

```
rpm -ivh xxxx-*.el7.i686.rpm
```

RHEL8の場合

```
rpm -ivh xxxx-*.el8.i686.rpm
```

例) RHEL8にパッケージを追加する場合

```
# rpm -ivh glibc-2.28-42.el8.i686.rpm           (改行なし)
      nss-softokn-freebl-3.12.7-1.1.el6.i686.rpm  (改行なし)
      libgcc-8.2.1-3.5.el8.i686.rpm           (改行なし)
      libstdc++-8.2.1-3.5.el8.i686.rpm        (改行なし)
      libnsl-2.28-42.el8.i686.rpm
```

[作業d]

64bitパッケージをアップグレードします。

RHEL7の場合

```
rpm -Uvh xxxx-*.el7.x86_64.rpm
```

RHEL8の場合

```
rpm -Uvh xxxx-*.el8.x86_64.rpm
```

例)RHEL8のパッケージをアップグレードする場合

```
# rpm -Uvh glibc-2.28-42.el8.x86_64.rpm (改行なし)
      nss-softokn-freebl-3.41.0-5.el8.x86_64.rpm (改行なし)
      libgcc-8.2.1-3.5.el8.x86_64.rpm (改行なし)
      libstdc++-8.2.1-3.5.el8.x86_64.rpm (改行なし)
      redhat-lsb-4.1-47.el8.x86_64.rpm (改行なし)
      libnsl-2.28-42.el8.x86_64.rpm
```

[作業e]

32bitパッケージをアップグレードします。

RHEL7の場合

```
rpm -Uvh xxxx-*.el7.i686.rpm
```

RHEL8の場合

```
rpm -Uvh xxxx-*.el8.i686.rpm
```

例)RHEL8のパッケージをアップグレードする場合

```
# rpm -Uvh glibc-2.28-42.el8.i686.rpm (改行なし)
      nss-softokn-freebl-3.12.7-1.1.el6.i686.rpm (改行なし)
      libgcc-8.2.1-3.5.el8.i686.rpm (改行なし)
      libstdc++-8.2.1-3.5.el8.i686.rpm (改行なし)
      libnsl-2.28-42.el8.i686.rpm
```

手順4

本ソフトウェアをインストールするためにディスクに十分な空きがあるかを確認してください。十分な空きがない場合には、ディスクのパーティション構成を設定しなおしてください。

インストール時に必要なディスク容量は、以下のとおりです。

ディレクトリ	備考	ディスク容量(単位 : MB)	
		List Creator EE (注2)	List Creator Connector
/		約10	約10

/usr		約1	約1
/var		約10	約10
/\$OPT_DIR (注1)	デフォルト : "/opt"	約700	約600
/etc/opt		約4	約1
/var/opt		約10	約10

注1 :

“\$OPT\_DIR”は本ソフトウェアのインストール時に指定する相対ディレクトリ名です。本ソフトウェアをインストールする場合には、“\$OPT\_DIR”でマウントしたファイルシステムに、上記に示すサイズ以上の空きがあることを確認してください。もし、これらの条件が整っていない場合には、ディスクのフォーマット、ファイルシステムの作成、ファイルシステムのマウントを行ってください。

注2 :

Webアプリケーション連携機能使用時は、Webクライアント上にプラグインをインストールするため、インストールするドライブに約250MBのディスク容量が必要です。

## (2) インストール時の留意事項

### ・ 共用メモリの設定

List Creatorでは共用メモリ、およびセマフォを使用します。そのため、List Creatorが動作するために必要な共用メモリがシステムに登録されている必要があります。List Creatorが動作するために必要な共用メモリ、セマフォの設定は以下のとおりです。

共用メモリセグメントサイズ : 65536  
 作成する共用メモリセグメントの数 : 2  
 1つのセマフォ識別子当たりのセマフォ数 : 6

なお、システムのデフォルト値は上記の値を超えていますので、通常は共用メモリ、セマフォを設定する必要はありません。システムの設定を上記の値以下にする設定をしないでください。

### ・ インストールに失敗した場合

本製品のインストールに失敗した場合は、エラーメッセージが表示されインストールが中断されます。エラー要因を取り除いた後、以下の手順で復旧し、再度インストールを行ってください。

1. 以下のコマンドを実行してください。ただし、以下のコマンドのディレクトリおよびファイルが存在しない場合は、復旧の手順は必要ありません。

```
# /opt/FJSVcir/cimanager.sh -c
```

2. 「アンインストールと管理(ミドルウェア)」が起動し、インストール済みソフトウェアの一覧が表示されます。情報が不整合なインストールの一覧が表示されている場合、一覧に表示されているソフトウェア名の左の番号を入力し、アンインストールしてください。

### ・ インストール時のメッセージ

インストール時のメッセージは、ロケールが以下の日本語環境の場合は日本語表

記で出力されます。ロケールがその他（下記以外、英語環境）の場合は英語表記で出力されます。

日本語環境： ja\_JP.UTF-8、 ja\_JP.eucJP

- ・ アンインストールと管理(ミドルウェア)

本ソフトウェアをインストールすると、ご利用のコンピュータに「アンインストールと管理(ミドルウェア)」がインストールされます。「アンインストールと管理(ミドルウェア)」の注意事項については製品ドキュメント「インストールガイド」を参照してください。

### 8.1.2 インストール

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]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

### 8.1.3 インストール後の作業

製品ドキュメント「インストールガイド」の「4.1.3 インストール後の作業」を参照してください。

## 8.2 アンインストール方法

### 8.2.1 アンインストール前の作業

製品ドキュメント「インストールガイド」の「5.1.1 アンインストール前の作業」を参照してください。

### 8.2.2 アンインストール

#### 手順1

以下のファイルを削除します。

```
/opt/FJSVoast/Readme_ja.txt  
/opt/FJSVoast/InstallationGuide.pdf  
/opt/FJSVoast/openshift.pdf
```

実行例)

```
# rm /opt/FJSVoast/Readme_ja.txt  
# rm /opt/FJSVoast/InstallationGuide.pdf  
# rm /opt/FJSVoast/openshift.pdf
```

#### 手順2

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]を参照してください。

### 8.2.3 アンインストール後の作業

アンインストールが完了しても以下のディレクトリが削除されない場合があります。本ソフトウェアのアンインストールが完了している場合、下記ディレクトリ配下を削除しても問題ありません。rmコマンドなどで削除してください。

/opt/listcreator

本ソフトウェアのアンインストールに失敗した場合は、エラーメッセージが表示されアンインストールが中断されます。エラー要因を取り除いた後、再度アンインストールを行ってください。

## 9 留意事項

### 9.1 互換について

互換情報につきましては、オンラインマニュアル「リリース情報」の「第2章 互換に関する情報」に記載されています。

### 9.2 電子保存時のサポート範囲・注意事項について

List Works と連携して帳票を電子保存する場合のサポート範囲、および注意事項などについては、List Creator V11.0.0のオンラインマニュアルではList Works の以下のバージョンを対象に記載しています。

List Works (Windows 版)	: V10.3
List Works (Solaris 版)	: V10.1.0
List Works (Linux for Intel64 版)	: V10.4.0
List Works (Linux for Itanium 版)	: V9.0.0

なお、上記バージョンとは違うList Worksをご使用の場合、サポート範囲、注意事項が異なる場合がありますので、ご利用のList Worksに添付のオンラインマニュアルをご確認ください。

### 9.3 多重出力に関する注意事項

多重出力の場合、要求数が帳票出力サーバの「最大同時接続許可数」に満たない多重度であっても、以下のメッセージが表示され、エラーとなる場合があります。

「通信対象のコンピュータへの接続が、すでに接続可能最大数を超過しているため、接続に失敗しました。再度実行してください。」

この場合、帳票出力サーバの最大同時接続許可数を想定される要求数より多めに設定してください。

設定方法は、オンラインマニュアル「環境設定・帳票運用編」の「第5章 コネクタ連携機能の環境設定」を参照してください。

### 9.4 強制終了時における注意事項

マシンの強制電源断等により、運用中にサービスプログラムが強制的に終了した場合、以下の状態が発生することがあります。以下の状態が発生した場合、[対処]に記載された方法で対処してください。

[状態]

出力先ごとの情報ファイルを格納するディレクトリ配下にファイルが残る。

[対処]

- 1) コネクタ連携機能のサービスを停止します。
- 2) 以下のファイルを削除してください。  
/var/opt/FJSVoast/md ディレクトリ配下のファイルを削除してください。
- 3) コネクタ連携機能のサービスを起動してください。

### 9.5 IPv6環境への対応について

Print Managerと連携して高信頼印刷を行う場合、メッセージ通知先としてIPv6アドレスおよびIPv6ホストを指定することはできません。

Print Managerのネットワーク環境については、ご利用のPrint Managerに添付のオン

ラインマニュアルをご確認ください。

#### 9.6 パブリッククラウドサービスにおける負荷分散サービスでの動作について

コネクタ連携機能使用時に、負荷分散サービスと連携することができます。

コネクタ連携機能では、TCPによる負荷分散をサポートします。

対象となるパブリッククラウドサービスは以下のとおりです。なお、記載されているパブリッククラウドサービスについては、2021年2月時点での情報となります。

- ・FUJITSU Hybrid IT Service for AWS
  - Elastic Load Balancing
    - Network Load Balancer (\*1)
    - Classic Load Balancer (\*2)
- ・FUJITSU Hybrid IT Service for Microsoft Azure
  - Azure Load Balancer (\*1)
- ・FUJITSU Hybrid IT Service FJcloud-0
  - ロードバランサーサービス
    - 東日本リージョン1、東日本リージョン2、西日本リージョン1、西日本リージョン2のロードバランサーサービス (\*3)
    - 東日本リージョン3、西日本リージョン3のロードバランサーサービス (IaaS) (\*2)

\*1:レイヤー4レベルの負荷分散サービスです。

\*2:レイヤー4、レイヤー7レベルの負荷分散サービスです。

\*3:レイヤー4、レイヤー7レベルの負荷分散サービスです。ただし、レイヤー7レベルの負荷分散サービスでは、レイヤー4レベルのヘルスチェックはサポートしていません。

負荷分散サービスを使用する場合、以下の点に注意してください。

〈帳票出力サーバで帳票を出力する場合〉

- ・レイヤー4レベルの負荷分散をサポートします。

〈帳票出力サーバで出力した帳票をアプリケーションサーバに配置する場合〉

- ・レイヤー7レベルの負荷分散をサポートします。ただし、ヘルスチェックはレイヤー4レベルのみサポートします。
- ・Cookieによるセッション維持の設定も合わせて必要です。以下の条件を満たす設定を行ってください。
  - ロードバランサーによって生成されたCookieの維持を有効にすること
  - 有効期間(セッション維持時間)は設定しないこと

このため以下の負荷分散サービスにおいて、コネクタ連携機能を使用して、帳票出力サーバで出力した帳票をアプリケーションサーバに配置することはできません。

- ・FUJITSU Hybrid IT Service for AWS
  - Elastic Load Balancing
    - Network Load Balancer
- ・FUJITSU Hybrid IT Service for Microsoft Azure
  - Azure Load Balancer
- ・FUJITSU Hybrid IT Service FJcloud-0
  - 東日本リージョン1、東日本リージョン2、西日本リージョン1、西日本リージョン2のロードバランサーサービス

なお、パブリッククラウドサービスの仕様および設定などについては、ご使用のパブリッククラウドサービスのドキュメントなどを確認してください。

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- netbeans platform 8.0.2

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• jakarta regexp 1.2

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```

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• Swing Layout Extensions 1.0.4

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- Felix 4.2.1
- Java Native Access 4.1.0
- OSGi 4.2
- JCommander 1.78

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