

## **PJS 2.1.4® Read Me**

### **PJS 2.1.4 Installation**

#### **Task 1: Obtain the PJS Installation Package**

The PJS Installation Package is a single sequential file that contains all the elements of PJS. This file may be obtained as part of a public software distribution tape, such as the MVS CBT Tape, or downloaded from the Internet. If you obtained PJS from the MVS CBT Tape, or another distribution tape, you should refer to the documentation for the distribution tape for specific details of how to extract the PJS Installation Package.

If you download PJS it from the Internet, it may be contained within a Zip file. If this is the case you will need to extract the PJS Installation Package file from the Zip file. In any case whenever the PJS Installation Package, or the Zip file that contains it, is transmitted, typically with FTP, it must be done as BINARY data.

When the PJS Installation Package file (unzipped if necessary) is finally loaded to the OS/390 or z/OS host it is to be installed on, it must be allocated as a physical sequential data set (DSORG=PS), fixed-length records (RECFM=FB), with a logical record length of 80 bytes (LRECL=80), and any appropriate block size. When FTP is used these data set characteristics are typically set using the FTP 'SITE' command. Your installation may also require additional parameters on the 'SITE' command to specify how and where the data set should be allocated. For a complete list of all the options available see the *IBM Communications Server: IP User's Guide* for your release of OS/390 or z/OS.

The following example shows the FTP commands that can be used to send the PJS Installation Package from a PC to an OS/390 or z/OS host:

```
C:\>FTP hostname
Connected to hostname.
220-FTPD1 IBM FTP CS V1R4 at hostname, 16:34:20 on 2004-02-10.
220 Connection will close if idle for more than 20 minutes.
User (hostname:(none)): userid
331 Send password please.
Password: password
230 userid is logged on. Working directory is "userid".
ftp> CD 'qual'
250 "qual." is the working directory name prefix.
ftp> LCD C:\dir
Local directory now C:\dir.
ftp> QUOTE SITE RECFM=FB LRECL=80 BLKSIZE=0 TRACKS PRI=300 SEC=75
200 SITE command was accepted
ftp> BINARY
200 Representation type is Image
ftp> PUT PJS214.XMIT
200 Port request OK.
125 Storing data set qual.PJS214.XMIT
250 Transfer completed successfully.
ftp: 10371120 bytes sent in 9.26Seconds 1119.51Kbytes/sec.
ftp> QUIT
221 Quit command received. Goodbye.
```

## Task 2: Extract the PJS Installation Package PDS

The PJS Installation Package contains a partitioned data set that has been formatted as a TSO TRANSMIT file. This PDS, called the PJS Installation Package PDS may be extracted with the TSO 'RECEIVE' command with the 'INDATASET' parameter.

The following example shows the TSO 'RECEIVE' command that can be used to extract the PJS Installation Package PDS:

```
READY
RECEIVE INDATASET('qual.PJS214.XMIT')
INMR901I Dataset qual.DDNAME.PACKAGE from TCH03 on SYSTEME
INMR906A Enter restore parameters or 'DELETE' or 'END' +
DATASET('qual.PJS214.PACKAGE') NEW
INMR001I Restore successful to dataset 'qual.PJS214.PACKAGE'
READY
```

Your installation may also require additional parameters on the 'RECEIVE' command prompt response to specify how and where the data set should be allocated. For a complete list of all the options available see the *TSO/E Command Reference* for your release of OS/390 or z/OS.

The following table lists the members of the PJS Installation Package PDS:

<b>Member Name</b>	<b>Description</b>	<b>Format</b>
<b>\$COPYRT</b>	PJS Copyright Notice	Text
<b>\$LICENSE</b>	GNU General Public License	Text
<b>\$LICPUB</b>	GNU Free Documentation License	Text
<b>\$README</b>	"Getting Started" Instructions	Text
<b>EXPAND</b>	Sample job to extract the PJS installation files	Text
<b>PJSDOC</b>	PJS Documentation	Zip
<b>INSTALL</b>	Installation JCL Library	PDS
<b>SMPMCS</b>	SMP/E MCS Statements	Seq
<b>JCLIN</b>	SMP/E JCLIN	PDS
<b>MACLIB</b>	PJS Macro Library	PDS
<b>SRCLIB</b>	PJS Source Library	PDS
<b>MODLIB</b>	PJS Modules Library	PDS
<b>TSOHELP</b>	PJS TSO Help Library	PDS
<b>ISPFPNL</b>	PJS ISPF Panels Library	PDS
<b>ISPFMSG</b>	PJS ISPF Messages Library	PDS
<b>ISPFTBL</b>	PJS ISPF Tables Library	PDS
<b>SAMPLIB</b>	PJS Samples Library	PDS
<b>UCRLIB</b>	PJS User Contributed Routines	PDS

Text = Text file  
 Zip = Zip file in TSO XMIT format  
 Seq = Sequential Data Set in TSO XMIT format  
 PDS = Partitioned Data Set in TSO XMIT format

The \$COPYRT, \$LICENSE, \$LICPUB, and \$README members are text files that contain important information about PJS that should be reviewed before completing the installation. The EXTRACT member contains a sample job that can be used to create the PJS installation files from the PJS Installation Package. Each of the other members contains one of the PJS installation files that has been formatted as a TSO TRANSMIT file.

### Task 3: Review the \$COPYRT, \$LICENSE, and \$README Files

After expanding the PJS Installation Package you should carefully read the \$COPYRT and \$LICENSE members. These contain the copyright notice and license terms for using PJS. If you do not agree to these terms you will not be authorized to use PJS.

PJS is licensed under the GNU General Public License version 2, or (at your option) any later version, as published by the Free Software Foundation. This license is widely used for many open-source software products, including Linux. For more information about the GNU GPL see the Free Software Foundation website at <http://http://www.gnu.org/licenses/>.

You should also read the \$README member. This contains the latest information that might not have been included in the documentation.

### Task 4: Extract the PJS Installation Files

The EXTRACT member of the PJS Installation Package PDS contains a sample job to expand the PJS installation data sets. This job will run TSO as a background job and use the TSO 'RECEIVE' command with the 'INDATASET' parameter to extract each of the PJS Installation Files.

This job should be tailored to suit your installation standards, paying particular attention to the job card, and the allocation parameters on the TSO 'RECEIVE' command prompt responses. For a complete list of all the options available see the *TSO/E Command Reference* for your release of OS/390 or z/OS.

The extract process will create the following PJS Installation Files:

Data Set Name	Description	Format
<b>qual.PJS214.PJSDOC</b>	PJS Documentation	Zip
<b>qual.PJS214.INSTALL</b>	Installation JCL Library	PDS
<b>qual.PJS214.SMPMCS</b>	SMP/E MCS Statements	Seq
<b>qual.PJS214.NPJ2104.F1</b>	SMP/E JCLIN	PDS
<b>qual.PJS214.NPJ2104.F2</b>	PJS Macro Library	PDS
<b>qual.PJS214.NPJ2104.F3</b>	PJS Source Library	PDS
<b>qual.PJS214.NPJ2104.F4</b>	PJS Modules Library	PDS
<b>qual.PJS214.NPJ2104.F5</b>	PJS TSO Help Library	PDS
<b>qual.PJS214.NPJ2104.F6</b>	PJS ISPF Panels Library	PDS
<b>qual.PJS214.NPJ2104.F7</b>	PJS ISPF Messages Library	PDS
<b>qual.PJS214.NPJ2104.F8</b>	PJS ISPF Tables Library	PDS
<b>qual.PJS214.NPJ2104.F9</b>	PJS Samples Library	PDS
<b>qual.PJS214.UCRLIB</b>	PJS User Contributed Routines	PDS

## Task 5: Extract the PJS Documentation Files

If you download PJS it from the Internet as a Zip file, the PJS documentation may have been included as a separate file within that Zip file. If this is not the case you will need to get the PJS documentation from the PJS Installation Package.

In Task 4 you should have created a file named '*qual.PJS214.PJSDOC*'. This is a variable-length record sequential data set that is a Zip file containing the PJS documentation files. To extract and view these files you will need to download them to a workstation, typically with FTP. This transfer must be done in BINARY mode.

The following example shows the FTP commands that can be used to receive the PJS documentation Zip file to a PC from an OS/390 or z/OS host:

```
C:\>FTP hostname
Connected to hostname.
220-FTPD1 IBM FTP CS V1R4 at hostname, 16:34:20 on 2004-02-10.
220 Connection will close if idle for more than 20 minutes.
User (hostname:(none)): userid
331 Send password please.
Password: password
230 userid is logged on. Working directory is "userid".
ftp> CD 'qual.PJS214'
250 "qual.PJS214." is the working directory name prefix.
ftp> LCD C:\dir
Local directory now C:\dir.
ftp> BINARY
200 Representation type is Image
ftp> GET PJSDOC PJSDOC.ZIP
200 Port request OK.
125 Storing data set qual.PJS214.PJSDOC
250 Transfer completed successfully.
ftp: 783588 bytes received in 1.12Seconds 699.01Kbytes/sec.
ftp> QUIT
221 Quit command received. Goodbye.
```

Once the file is on your workstation you will need to extract the documentation files using WinZip, or any other program that extracts Zip files. Once the documents have been extracted the following documents will be available:

File Name	Description	Format
PJSINST.PDF	PJS Installation Guide	PDF
PJSMSG.PDF	PJS Messages and Codes	PDF
PJSUSER.PDF	PJS User's Guide	PDF

PDF = Adobe Acrobat Portable Document File. To view these files you will need the free Adobe Acrobat Reader, available at <http://www.adobe.com/products/acrobat/readstep2.html>.

### Continuing the Installation

From this point you should follow the instructions in Chapter 2 of the *PJS Installation Guide*.

## PJS 2.1.4 Summary of Changes

### Changes for PJS Release 2.1.4

#### Functional Changes -

- The CPU authorization checking has been removed.
- Commands to display copyright and license information have been added to the ISPF menu.

#### Installation Changes -

- PJS is now distributed as a single file that can be distributed as part of a public software distribution tape, such as the MVS CBT Tape, or downloaded from the internet.
- PJS is now installed with full source code. All macros required for reassembling PJS (other than IBM macros that are shipped with MVS) are included.
- The sample installation JCL has been moved from the SMP/E JCLIN PDS to a separate PDS.
- The PJS documentation is now shipped as a zip file that can be downloaded to a workstation and expanded. The documentation is shipped in Microsoft Word, Adobe Acrobat PDF, and HTML files.
- The PJS Request Queue Conversion Utility (PJSQCONV) has been removed.

## C.2 Changes for PJS® Release 2.1.3

### Functional Changes -

- The default century for 2-digit years is changed from 19xx to 20xx.

### Installation Changes -

- PJS Documentation is now included on the installation tape in PDF (Adobe Acrobat Reader) format.

### Additional PJS R2.1 PTF's and APAR's Incorporated -

**PPJ0029** - ISPF Help for Delete Job Request panel (**PJSPJDEL**) gives "Panel not found" dialog error.

**PPJ0030** - PJS Security Exit (**PJSSECX**) not called from **PJSTASK** for "Begin System Task" and "End System Task".

**PPJ0031** - Documentation for sample PJS Installation Security Exits (**PJSSECX**) is incorrect.

**OPJ0034** - List Events for Owner does not list Events when the corresponding Owner record does not exist.

**PPJ0035** - Scope of enqueue on PJS Request Queue changed from **SYSTEM** to **SYSTEMS**.

**PPJ0036** - Scope of dequeue on PJS Request Queue changed from **SYSTEM** to **SYSTEMS**.

## Comments and Suggestions

The author welcomes your comments and suggestions. He can be contacted at:

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