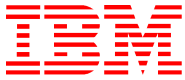

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ICMS PTF Application Guide

ICMSU – Product Support

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Change History

Date	Description
24 July 2001	In *'Apply PTFs to Databases'* section for the CRTICMSPF and CRTICMSLF commands, change the recommended Source File Library name from *LIBL to that of the ICMS PTF Software Library.

Chapter 1 – Introduction

Document Overview

Purpose of this user guide

This user guide enables customers to apply ICMS PTFs.

It describes the processes, procedures and commands used when working with ICMS PTFs, which have been:

?? packaged by the Product Support Group, and
?? made available to Geographic Support Centres.

Intended audience

The intended audience for this user guide includes:

?? technical people (AS400/GUI/400 Client Server)
?? ICMS Business Analysts, and
?? super users on customer sites and Geographic Support Centres.

Prerequisites

Prior to using any of the commands described in this user guide, the following objects must exist on the target AS/400:

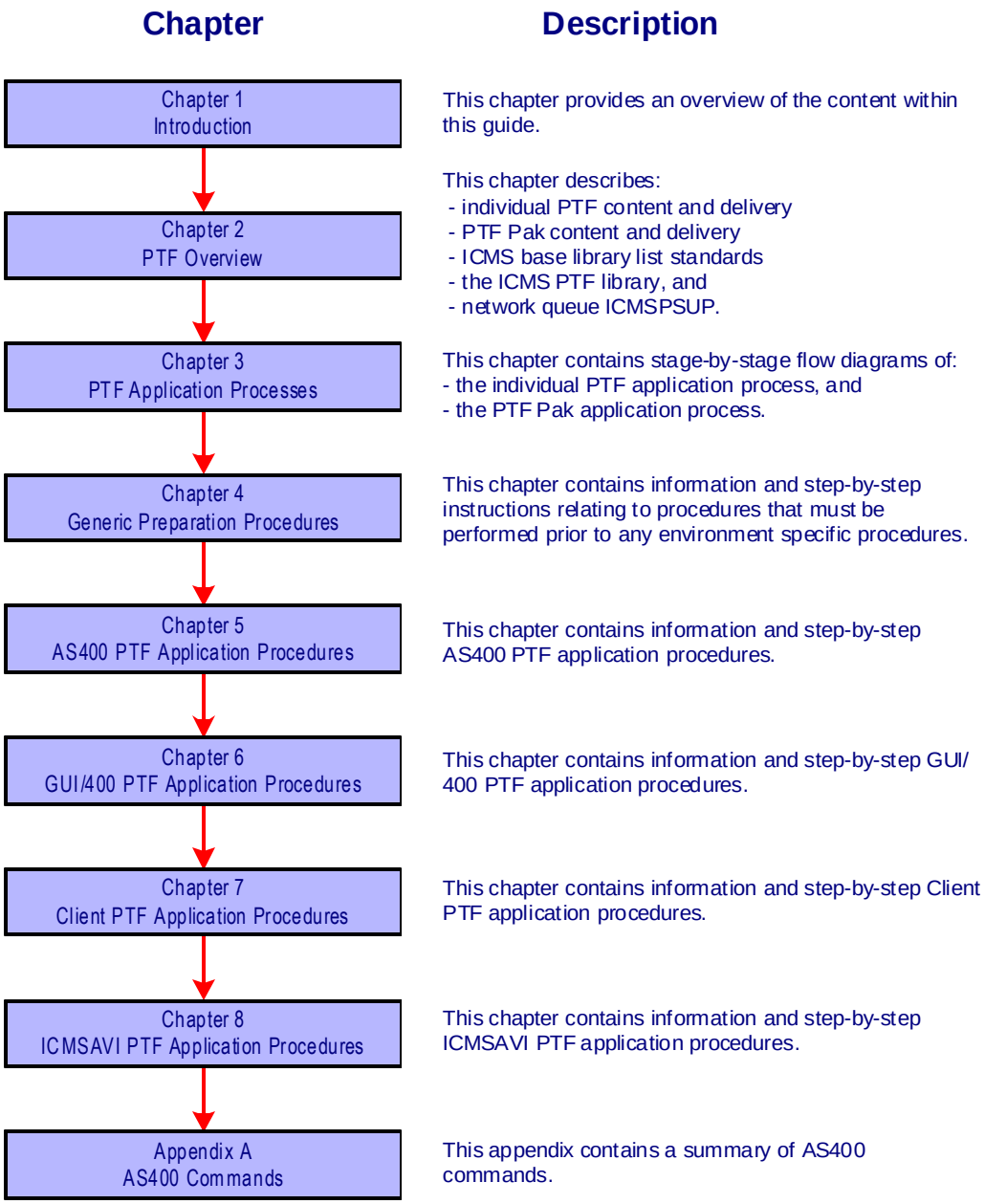
?? the software library ICMSPTF
?? the library ICMSPSUP
?? the user profile ICMSPSUP, and
?? the network queue ICMSPSUP

The AS/400 operating system should be V4R4M0 or higher.

Document Overview (continued)

Document structure

The diagram below illustrates how this document is structured, and describes the content of each chapter.



Document Overview (continued)

Comments regarding this document

Any feedback relating to this document should be addressed to CC&B Product Support, email address icmsusup@nz1.ibm.com.

Chapter 2– PTF Overview

Chapter Overview

What's in this chapter?

This chapter describes PTFs, and, more specifically:

- ?? individual PTF content and delivery
- ?? PTF Pak content and delivery
- ?? library list standards
- ?? the PTF library, and
- ?? the network queue ICMSPSUP.

What is a PTF?

A PTF is created to amend a software defect within the ICMS international base application. A PTF will be applied into the ICMSPTF library, which overrides the base object/source located in the ICMSSW software library of the ICMS user's library list.

Topics within this chapter

This chapter contains the following topics.

Topic	See Page
Individual PTF	2-2
PTF Paks	2-4
ICMS Base Library List Standards	2-6
The ICMS PTF Library	2-9
Network Queue ICMSPSUP	2-10

Individual PTFs

PTF content and naming conventions

A PTF comprises up to eight separate files (save files). The naming convention for an individual PTF is:

?? **PIRRnnnnnn**

P = Content of Save File
IRR = ICMS Release Level (this is not unique)
nnnnnn = PTF Number

The table below lists the content descriptions.

Content Code	Content Description
C	Client Executable Software
I	Implementation Instructions
F	Message File Changes
G	GUI AS/400 Objects
R	Field Reference Files
S	Source Codes
W	Objects
X	Source Code for Conversion
Z	Conversion Objects

The table below lists the release levels.

Release	IRR
I5.0	I50
I5.1	I51

Individual PTFs (continued)

PTF content and naming conventions (continued)

Normally the PTF comprises only three save files:

- ?? implementation instructions
- ?? changed objects, and
- ?? changed source codes.

Additionally, new or changed file content, field reference files, conversion programs and fix programs may be sent in separate save files if required.

Example:
An example of a full set of save files for a PTF 400987 at release level 5.1 is displayed below.

Number	Save File	Description
1	II51400987	PTF Implementation Instructions
2	CI98400987[1]	Windows 98 Client Executable Software for the PTF
3	CINT400987[1]	Windows NT Client Executable Software for the PTF
4	FI51400987	Message File Changes for the PTF
5	GI51400987	New or Changed GUI AS/400 Objects for the PTF
6	RI51400987	Changed Reference File Objects for the PTF
7	SI51400987	Changed Source Code for the PTF
8	WI51400987	Changed Objects for the PTF
9	XI51400987	Data File Conversion Source for the PTF
10	ZI51400987	Data File Conversion Objects for the PTF

1. There are two versions of the Client Executable Software for the PTF; one for Windows 98, the other for Windows NT. Because of this the savefile names do not completely follow the usual naming convention.

PTF delivery

Save files are delivered from the New Zealand AS/400 to Geographic Support Centres (GSCs) via either SNADS or FTP.

If sent via…	the save files are…
SNADS	sent to user ICMSPSUP.
FTP	placed into a user-designated library.

Note:
The save file containing source code prefixed **S** must **not** be forwarded to a customer unless they have a license for the source code.

PTF Paks

Content and naming conventions

A PTF Pak contains **all** PTFs that have been developed since the previous PTF Pak, including delivered customer items and resync items.

The naming convention for a PTF Pak is:

?? **PIRRYYMMRR**

P	=	Content of Save File
IRR	=	ICMS Release Level (this is not unique)
YY	=	Year
MM	=	Month
RR	=	ICMS Release Identifier - a two numeric abbreviation (this is **unique** and is described in the following table).

Release	IRR	RR
I5.0	I50	50
I5.1	I51	51

Example:
An example for the November 2000 Release 5.1 PTF Pak is displayed below.

Number	Save File	Description
1	II51001151	Implementation Instructions for the PTF Pak
2	CI98001151[1]	Windows 98 Client Executable Software for the PTF Pak
3	CINT001151[1]	Windows NT Client Executable Software for the PTF Pak
4	FI51001151	Message File Changes for the PTF Pak
5	GI51001151	New or Changed GUI AS/400 Objects for the PTF Pak
6	RI51001151	Field Reference File Objects for the PTF Pak
7	SI51001151	Changed Source Code for the PTF Pak
8	WI51001151	Changed Objects for the PTF Pak
9	XI51001151	File Conversion Objects for the PTF Pak
10	ZI51001151	Data File Conversion Objects for the PTF Pak

1. There are two versions of the Client Executable Software for the PTF; one for Windows 98, the other for Windows NT. Because of this the savefile names do not completely follow the usual naming convention.

PTF Paks (continued)

Content and naming conventions (continued)

You cannot install an individual PTF from a PTF Pak, as the process of creating the PTF Pak picks up the latest version of the source and objects. If an individual PTF is required, please either:

?? send a request to your Geography Level 2 Organisation, or
?? enter a RETAIN item requesting the PTF be sent.

PTF delivery

Save files are delivered from the New Zealand AS/400 to Geographic Support Centres (GSCs) via either SNADS or FTP.

If sent via…	the save files are…
SNADS	sent to user ICMSPSUP.
FTP	placed into a user-designated library.

Note:
The save file containing source code prefixed **S** must **not** be forwarded to customer unless they have a license for the source code.

ICMS Base Library List Standards

Naming conventions

There is an expectation that an ICMS library list follows a naming convention.

Required standard data library list

ICMS has a set of data libraries – there are seven libraries in total. The first four characters in the library name are user defined. For the production database version it is recommended that ICMS be used.

Other environments for Testing, Training and Demo can be set up using a different four character prefix (for example TEST, TRNG and so on). If you set up a new environment, ensure that all the pointers within the database reflect the name of the database (refer to the ICMS Installation Guide for more details).

Example:
An example of the Production database library names is displayed below.

?? ICMSPRDA
?? ICMSPRDB
?? ICMSPRDC
?? ICMSPRDD
?? ICMSMISC
?? ICMSCALL
?? ICMSLOCL

ICMS Base Library List Standards (continued)

Required standard software library list

ICMS production software library names reside below the database libraries in the user library list. An example is displayed below.

?? ICMS**MOD**P
?? ICMS**MOD**
?? ICMSPTF
?? ICMSSW
?? ICMSMENU

The ICMS**MOD** and ICMS**MOD**P libraries contain:

?? customer specific software (ICMS**MOD**), and
?? any changes to the customer specific software (ICMS**MOD**P).

They exist above the base software libraries.

The ICMSSW is the library that holds the base ICMS software objects at the current production release level. PTFs will not change the base library and this library **must never** change. The physical source files that hold the source code for the objects in ICMSSW are in library ICMSSWS.

ICMS Base Library List Standards (continued)

Copying libraries

ICMSMENU and ICMSPTF libraries can be copied to enable multiple environments to be set up (for testing, training and so on). ICMSMENU may be copied and renamed to ICMSTMENU and ICMSPTF may be copied and renamed to ICMSTPTF. However, this will have an impact on the usability of some of the Product Support utilities (refer to Chapter 4 – Generic Preparation Procedures for the topic "Prepare the AS400 to use the ICMSPSUP Utilities").

All local modifications must be held separately from the base product. These customer specific libraries should be named to specifically indicate the release level to which they apply. Customer specific libraries should follow similar naming conventions and should be located between the data and base software libraries.

ICMS**MOD**P	ICMS**MOD**	Customer specific software and PTFs above the base where identifies the customer.

Note:
Dependent upon the environment, the library names include an identifying letter after the MOD. For example T=**T**esting, R=t**R**aining, D=**D**evelopment and M=de**M**onstration.

Example:
An example of a full ICMS production library list is displayed below.

?? ICMSPRDA
?? ICMSPRDB
?? ICMSPRDC
?? ICMSPRDD
?? ICMSMISC
?? ICMSCALL
?? ICMSLOCL
?? ICMS**MOD**P
?? ICMS**MOD**
?? ICMSPTF
?? ICMSSW
?? ICMSMENU

The ICMS PTF Library

PTF library overview

?? The PTF library is required to hold source code, objects and messages delivered in an ICMS PTF.

?? Physical source files are required to hold the source code for the:
- ?? data files
- ?? programs
- ?? display files
- ?? printer files
- ?? control language programs, and so on.

The PTF library must contain the same physical source files as the library ICMSSWS. This library contains the physical source files for the base ICMS software objects at the current production level (as for library, ICMSSW, PTFs will not change it. This library **must never** change). For example:
- ?? ICMSDDS (data files)
- ?? ICMSRPG (programs)
- ?? ICMSSRN (display files)
- ?? ICMSPRT (printer files)
- ?? ICMSCL (control language programs), and so on.

The process of applying an ICMS PTF will place the source code (which is sent in the save file prefixed with an **S**) into the appropriate physical source file. The objects in the **W** save file are placed in the ICMSPTF library.

?? The ICMSMSGF message file needs to be created in the PTF library by copying it from the base ICMSMSGF message file in the library ICMSSW. When PTFs with new or changed messages are delivered, they will be merged into the PTF message file.

Network Queue ICMSPSUP

Viewing content

Viewing the content of the network queue ICMSPSUP should ensure the existence of the PTF save files. The **WRKNETF ICMSPSUP** command will display all distribution queue entries. Save file(s) with the PTF number will be seen in the queue and indicate that the PTF application procedures can be completed.

Note:
If there are no save files present for the particular PTF, contact your Geography Level 2 Organisation as there are many reasons why the save files may not have arrived.

Chapter 3 – PTF Application Processes

Chapter Overview

What's in this chapter?

There are two separate PTF application processes:

?? one for individual PTFs, and
?? another for PTF Paks.

This chapter describes both processes.

Topics within this chapter

This chapter contains the following topics.

Topic	See Page
Individual PTF Application Process	3-2
PTF Pak Application Process	3-5

Individual PTF Application Process

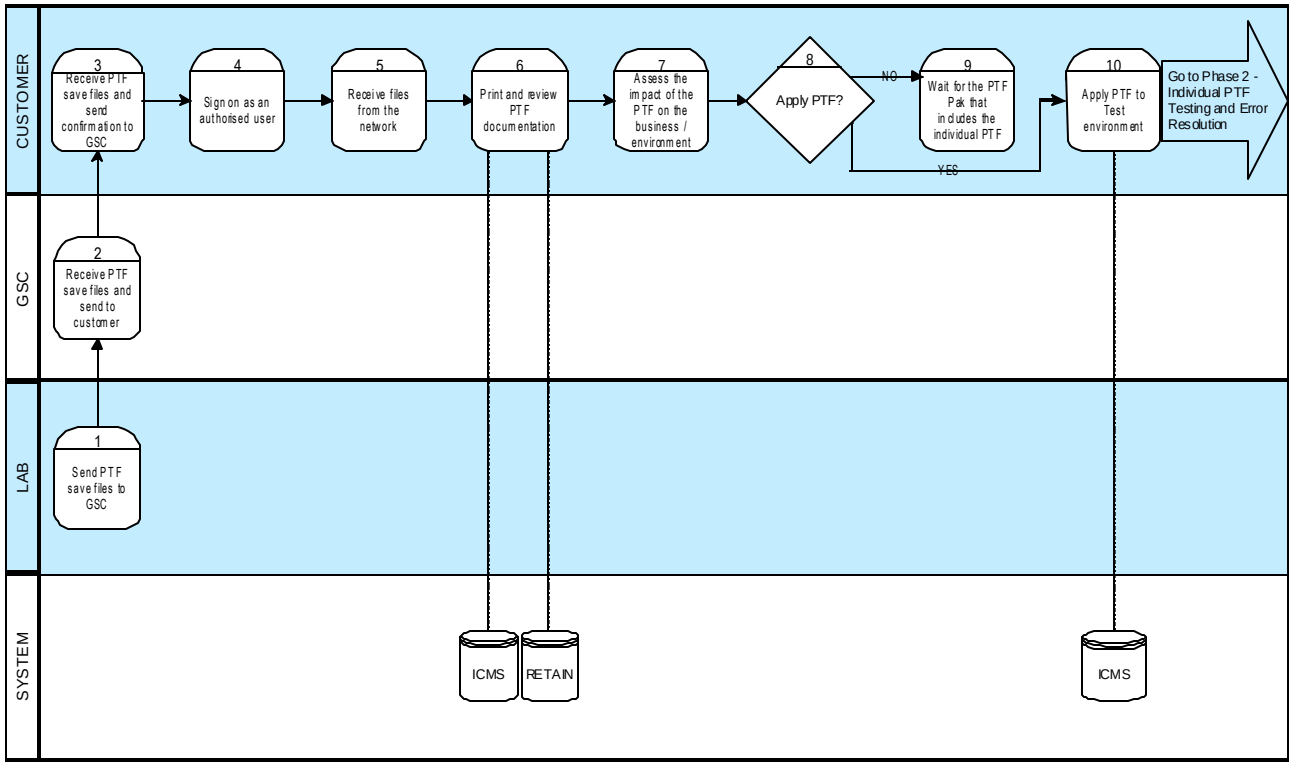
Process

The individual PTF application process is divided into two phases:

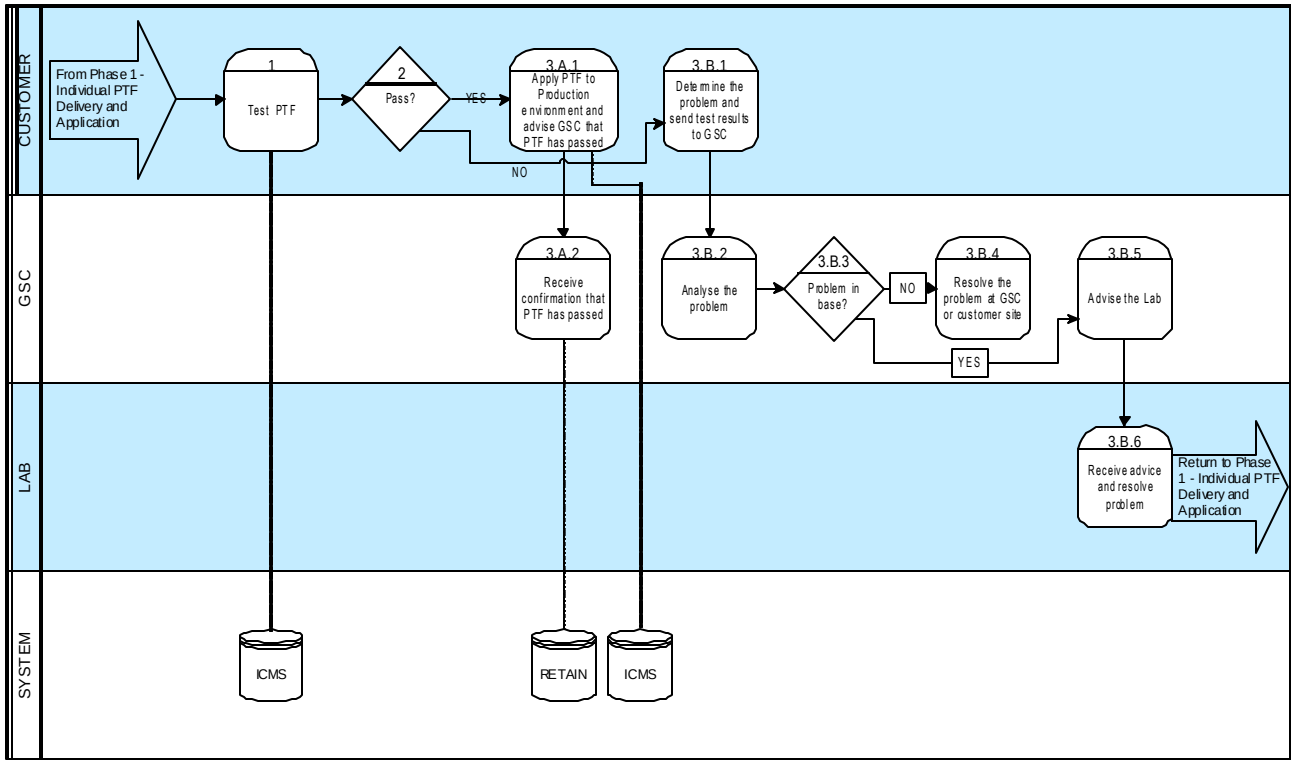
- ?? Phase 1 –Delivery and Application to the Test Environment
- ?? Phase 2 –Testing and Error Resolution.

Stage-by-stage process diagrams for both phases are on the following two pages.

Phase 1 - Individual PTF Delivery and Application to Test Environment



Phase 2 - Individual PTF Testing and Error Resolution



PTF Pak Application Process

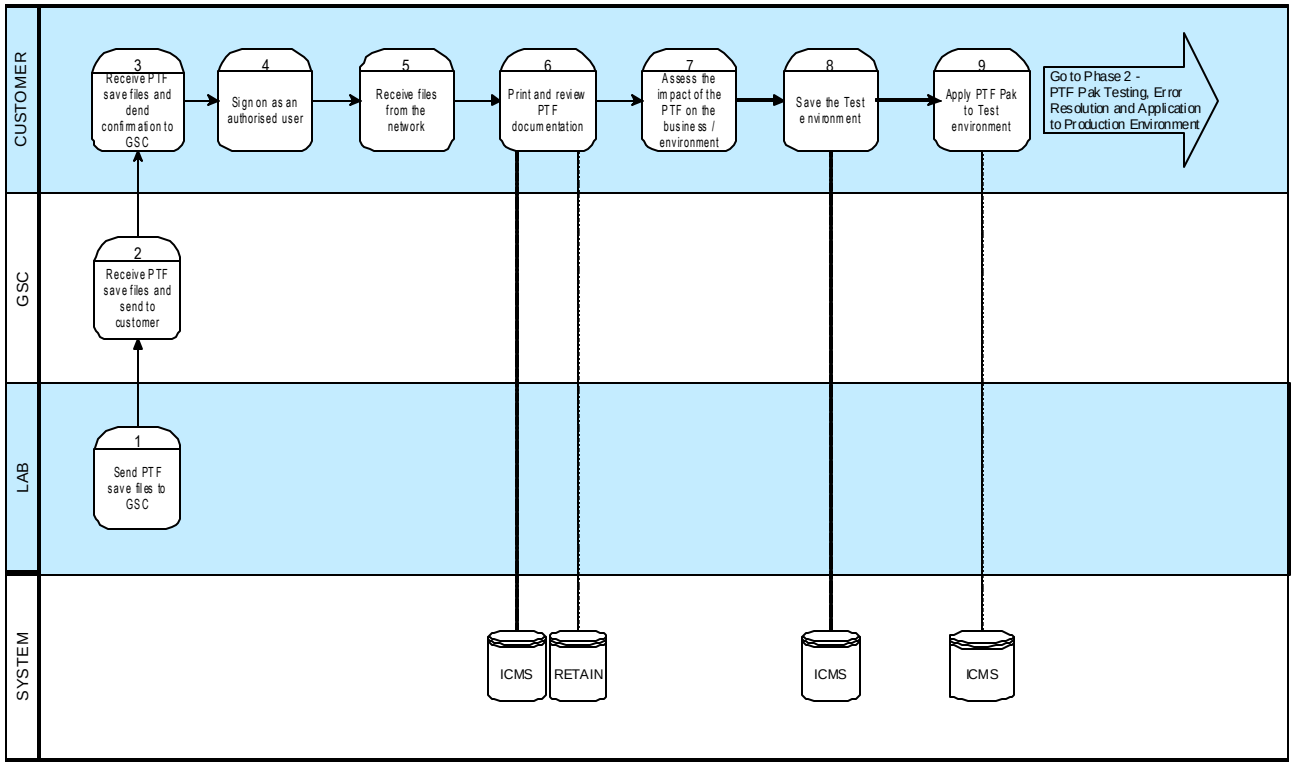
Process

The PTF Pak application process is divided into two phases:

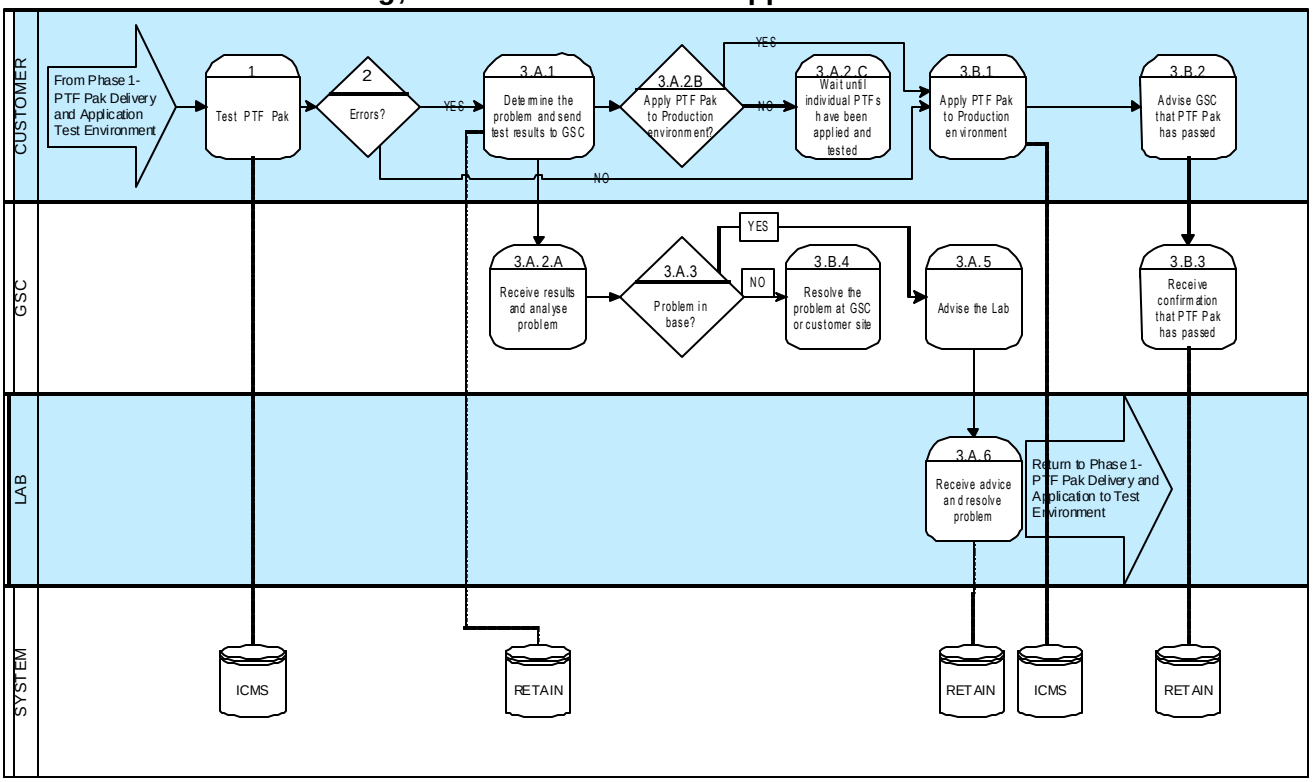
- Phase 1 –Delivery and Application to Test Environment
- Phase 2 – Testing, Error Resolution and Application to Production Environment.

Stage-by-stage process diagrams for both phases are on the following two pages.

Phase 1 - PTF Pak Delivery and Application to Test Environment



Phase 2 - PTF Pak Testing, Error Resolution and Application to Production Environment



Chapter 4 – Generic Preparation Procedures

Chapter Overview

What's in this chapter?

This chapter contains information and step-by-step instructions relating to generic preparation procedures. These procedures must be completed prior to any environment specific procedures.

Topics within this chapter

This chapter contains the following topics.

Topic	See Page
Prepare the AS400 to use the ICMSPSUP Commands	4-2
Print and Review PTF Documentation	4-10

Prepare the AS400 to use the ICMSPSUP Commands

Introduction

There are three important sets of information used by the Product Support Utilities when receiving and installing PTFs. They are:

?? MACHID Machine ID
?? SWINSTALL List of the Databases, and
?? CHGCTLDTA Software Libraries.

This information is stored in data areas within the ICMSPSUP library.

Before you Begin

Before you complete the procedures in this chapter, ensure the data on your own machines contain the correct values. PTFs for the ICMS product are not installed into the base software library; they are instead installed into the PTF library for the appropriate release level (for example ICMSPTF).

Note:
It is the responsibility of the PTF installer to correctly identify the target libraries and that the above data areas are correct.

Important:
These procedures must be completed before any other PTF application commands are used.

Procedures within this topic

This topic consists of three separate procedures.

Topic	See Page
Populate the MACHID (Machine Identification) Data Area	4-3
Update the SWINSTALL (Database Libraries) Data Area	4-5
Update the CHGCTLDTA (Change Control) Data Area	4-8

Populate the MACHID (Machine Identification) Data Area

Introduction

The MACHID data area holds the machine name (and abbreviation) used by the ICMS PTF application commands.

Steps

Follow the steps below to populate the MACHID data area.

Step	Action
1	On the command line, type the command **CHGDTAARA MACHID** (Change Data Area), then press **F4**. The Change Data Area (CHGDTAARA) screen displays.

```
                    Change Data Area (CHGDTAARA)

 Type choices, press Enter.
 Data area specification:
   Data area  . . . . . . . . . . > MACHID        Name, *LDA, *GDA, *PDA
     Library  . . . . . . . . . . >   ICMSPSUP    Name, *LIBL, *CURLIB
   Substring specifications:
   Substring starting position  .   1            1-2000, *ALL
   Substring length . . . . . . .   3            1-2000
 New value  . . . . . . . . . .   'LG1'

                                                                    Bottom
 F3=Exit   F4=Prompt   F5=Refresh   F12=Cancel  F13=How to use this display
 24=More keys
```

2	?? Type **1** in the **Substring starting position** field. ?? Type **3** in the **Substring length** field. ?? Type the three-character abbreviation for the machine type in the **New value** field. ?? Press Enter. The updated data area displays. **Abbreviation Examples:** The current GSC AS/400 systems have the following abbreviations: ?? NZ1 = NZICMS01 ?? LG1 = LGICMS01 ?? PDC = PDCAS02 ?? PH1 = PHICMS01 If additions or alterations are required to the above list, the information should be forwarded to CC&B Product Support e-mail address icmsusup@nz1.ibm.com

Populate the MACHID (Machine Identification) Data Area (continued)

Steps (continued)

Step	Action
3	?? Type **11** in the **Substring starting position** field. ?? Type **8** in the **Substring length** field. ?? Type the eight-character abbreviation for the machine name in the **New value** field. ?? Press Enter. The updated data area displays. **Example:** LGICMS01 at La Gaude
4	Check the data area is correct by typing **DSPDTAARA MACHID** on the command line, then press **Enter**. The updated data area screen displays.

```
Display Data Area
                                                              System:
NZICMS01
 Data area . . . . . :   MACHID
   Library . . . . . :     ICMSPSUP
 Type  . . . . . :   *CHAR
 Length  . . . . . :   18
 Text  . . . . . :   Machine ID (used by APYICMSPTF)

            Value
 Offset      *...+....1....+....2....+....3....+....4....+....5
     0      'LG1       LGICMS01'

Bottom
 Press Enter to continue.

 F3=Exit   F12=Cancel
```

Update the SWINSTALL (Database Libraries) Data Area

Introduction

The SWINSTALL data area holds a list of the database library names that are updated by the ICMS PTF application commands.

It is recommended that the data libraries entered in the data area are the names of the libraries for the Test or Acceptance environment, rather than the Production environment. This provides a safety feature to prevent the accidental updating of production libraries with PTFs that have not yet been through the user acceptance process.

Update the SWINSTALL (Database Libraries) Data Area (continued)

Steps

Follow the steps below to update the SWINSTALL data area.

Step	Action
1	On the command line, type the command **CHGDTAARA SWINSTALL** (change data area), then press **F4**. The Change Data Area (CHGDTAARA) screen displays.
2	?? Type **1** in the **Substring starting position** field. ?? Type **10** in the **Substring length** field. ?? Type the abbreviation for the library name for *PRDA (for the database that is going to be updated) in the **New value** field. ?? Press Enter. The updated data area displays. **Example:** TESTPRDA

```
                        Change Data Area (CHGDTAARA)

 Type choices, press Enter.

 Data area specification:
   Data area  . . . . . . . . . . > SWINSTALL     Name, *LDA, *GDA, *PDA
     Library  . . . . . . . . . . >   ICMSPSUP    Name, *LIBL, *CURLIB
   Substring specifications:
   Substring starting position  .   1             1-2000, *ALL
   Substring length . . . . . .   10              1-2000
 New value  . . . . . . . . . .   'TESTPRDA  '
                                                                    Bottom
 F3=Exit   F4=Prompt   F5=Refresh   F12=Cancel  F13=How to use this display
 F24=More keys
```

Update the SWINSTALL (Database Libraries) Data Area (continued)

Steps (continued)

<table>
<tr><th>Step</th><th>Action</th></tr>
<tr><td>3</td><td>Repeat Step 2 for the following library names:

<table>
<tr><th>Library Name length</th><th>Substring Starting Position</th><th>Substring</th></tr>
<tr><td>TESTPRDB</td><td>12</td><td>10</td></tr>
<tr><td>TESTPRDC</td><td>23</td><td>10</td></tr>
<tr><td>TESTPRDD</td><td>34</td><td>10</td></tr>
<tr><td>TESTLOCL</td><td>45</td><td>10</td></tr>
<tr><td>TESTCALL</td><td>56</td><td>10</td></tr>
<tr><td>TESTMISC</td><td>67</td><td>10</td></tr>
</table>

The updated data area displays.</td></tr>
<tr><td>4</td><td>Check the data area is correct by typing DSPDTAARA SWINSTALL on the command line, then press Enter. The updated data area displays.

<pre>
                              Display Data Area
                                                                  System:
NZICMS01
  Data area . . . . . :   SWINSTALL
    Library . . . . . :   ICMSPSUP
  Type . . . . . :   *CHAR
  Length . . . . . :   275
  Text . . . . . :   ICMS Release Install Job Library List

            Value
  Offset   *...+....1....+....2....+....3....+....4....+....5
       0   'TESTPRDA   TESTPRDB   TESTPRDC   TESTPRDD   TESTLO'
      50   'CL   TESTCALL   TESTMISC   '
     100   '   '
     150   '   '
     200   '   '
     250   '   '

Bottom
  Press Enter to continue.

  F3=Exit   F12=Cancel
</pre>
</td></tr>
</table>

Update the CHGCTLDTA (Change Control) Data Area

Introduction

The CHGCTLDTA data area holds a list of the software libraries (not data libraries) into which new and changed software will be installed. The values, which are currently in the data area, can be overridden when invoking the command that applies the PTFs (when installing a PTF into a library other than ICMSPTF).

Note:
The library names entered must exist prior to using this command.

Steps

Follow the steps below to update the CHGCTLDTA (Change Control) data area.

Step	Action
1	On the command line, type the command **UPDCHGCTLD** then press **Enter**. The ICMS Change Control System (PCC525CL) screen displays.

```
PCC525CL                  ICMS Change Control System
NZICMS01
                                                                25/08/00
15:00:44

                                S Y S T E M   S E T U P
                                             NZICMS01

  PTF Receiver user id: ICMSPSUP
  PTF audit receiver user id: ICMSPSUP

  ICMS PTF library: ICMSPTF          Apply PTF work library: ICMSTEMP
                                     PTF save file library: ICMSPSUP

                        ICMS S/W object library: ICMSSW
                        ICMS S/W source library: ICMSSWS
                        ICMS Fixes S/W object library: ICMSFIX
                        ICMS Fixes S/W source library: ICMSFIX

                        Archive library: ICMSARC

 F6=Update   F12=Cancel
```

Update the CHGCTLDTA (Change Control) Data Area (continued)

Steps (continued)

Step	Action
2	Complete fields as required (detailed below), then press **F6** to update the data area.

Field	Description
PTF Receiver User ID	The User ID on the AS/400 to which PTFs will be sent.
PTF Audit Receiver User ID	The User ID on the AS/400 to receive the network messages detailing the PTF application.
ICMS PTF Library	The library where software will be installed by default.
Apply PTF Work Library	The library in which temporary objects required by the software will be created.
PTF Save File Library	The library into which all PTF save files will be restored by the PTF application process.
ICMS S/W Object Library	The library in which base software objects are kept.
ICMS S/W Source Library	The library in which base software source files are kept.
ICMS Fix S/W Object Library	The library into which ICMS Datafix and conversion software objects are applied.
ICMS Fix S/W Source Library	The library into which ICMS Datafix and conversion software source is applied.
Archive Library	The library containing the immediate previous version of the applied software objects. **Note:** This library must contain the same physical source files (ICMSDDS, ICMSRPG, ICMSCPYLE and so on) that exist in the ICMSPTF Library.

Print and Review PTF Documentation

Introduction

Before applying any ICMS PTFs, you must print and review the corresponding documentation and assess the impact on your business/environment. The documentation includes:

- implementation instructions (within the II* save file), and
- prerequisite/co-requisite PTF information (available from your Geography Level 2 or via RETAIN).

Note:
The save file containing these instructions must be in the ICMSPSUP network queue.

Steps

Follow the steps below to print the PTF implementation instructions on the AS400.

Step	Action
1	On the command line, type **DOCICMSPTF**, then press **F4**. The Receive ICMS PTF documents (DOCICMSPTF) screen displays.

```
                    Receive ICMS PTF documents (DOCICMSPTF)

 Type choices, press Enter.

 Program Temporary Fix  . . . . . PTF
                           + for more values
 Release Level  . . . . . . . . . RLSLVL         *CURRENT
 PTF Save File  . . . . . . . . . SAVF           *STD
                                                                      Bottom
 F3=Exit   F4=Prompt   F5=Refresh   F12=Cancel  F13=How to use this display
 F24=More keys
```

Print and Review PTF Documentation (continued)

Steps (continued)

Step	Action
2	In the **Program Temporary Fix** field, type the six-digit PTF number associated with the PTF save file. **Note:** If you type **+** in Position 1 of the **Program Temporary Fix** field, you can enter up to 50 PTF numbers. **Example:** II51401234 (PTF Number 401234)
3	In the **Release Level** field, either: ?? leave the value at *CURRENT (this will get the Release Level from the data area ICMSREL in the ICMS Base Software library), or ?? type the release level specific to this PTF (recommended). **Example:** Save File: II**51**401234 Release Level: **5.1**
4	In the **PTF Save File** field, either: ?? leave the value at *STD, or ?? type the save file name (if non-standard).
5	Press **Enter** to run the command. The output will be a file (**FMPDOC1**) for each PTF selected, in your spool queue. The file for each PTF will be denoted by its **User Data** value being the same as the PTF number. **Note:** The II51401234 save file is received into the PTF save file library as defined in the CHGCTLDTA data area.

Chapter 5 – AS400 PTF Application Procedures

Chapter Overview

What's in this chapter?

This chapter contains information and step-by-step instructions relating to ICMS AS400 PTF application procedures.

Topics within this chapter

This chapter contains the following topics.

Topic	See Page
Apply ICMS PTF Objects	5-2
Apply PTFs to Databases	5-4
Apply PTFs to the Menu System	5-9

Apply ICMS PTF Objects

Introduction

After reading the associated documentation for the ICMS PTFs, you must apply them to your PTF Testing environment.

Note:
Before you begin, the save file containing the objects must be in the ICMSPSUP network queue. If you are licensed to have ICMS source, the save file containing the source must also be in the ICMSPSUP network queue.

Steps

Follow the steps below to apply ICMS PTF objects.

Step	Action
1	Ensure that you are signed on to the AS/400 with a user profile that has sufficient authority to add and/or replace software objects in the ICMS PTF Test environment.
2	On the command line, type **APYICMSPTF**, then press **F4**. The Apply ICMS PTF (APYICMSPTF) screen displays.

```
                          Apply ICMS PTF (APYICMSPTF)

Type choices, press Enter.

Program Temporary Fix  . . . . .              1-999999
               + for more values
Release Level  . . . . . . . . . *CURRENT      Character value, *CURRENT
Apply to library . . . . . . . . *PTF          Name, *PTF
PTF save file  . . . . . . . . . *STD          Name, *STD
                                                                      Bottom
F3=Exit   F4=Prompt  F5=Refresh  F12=Cancel  F13=How to use this display
F24=More keys
```

Apply ICMS PTF Objects (continued)

Steps (continued)

Step	Action
3	In the **Program Temporary Fix** field, type the six-digit PTF number associated with the PTF save file. **Note:** If you type **+** in Position 1 of the **Program Temporary Fix** field, you can enter up to 50 PTF numbers. **Example:** II51401234 (PTF Number 401234)
4	In the **Release Level** field, either: ?? leave the value at *CURRENT (this will get the Release Level from the data area ICMSREL in the ICMS Base Software library), or ?? type the release level specific to this PTF (recommended). **Example:** Save File: II**51**401234 Release Level: **5.1**
5	In the **Apply to library** field, either ?? take the default value of ***PTF** (this will apply the software to PTF library as defined in the data area CHGCTLDTA, or ?? enter a specific library name that you want the objects installed in.
6	In the **PTF Save File** field, either: ?? leave the value at *STD, or ?? type the save file name (if non-standard).
7	Press **Enter** to submit a batch job that: ?? receives the PTF save files into the PTF Save File Library ?? moves the existing objects and source members, where applicable, from the PTF Library to the Archive Library ?? installs the PTF(s)' objects and source (if applicable) into the PTF Library, and ?? merges the changed ICMS Message File (if sent) into the ICMSMSGF in the PTF library.

Apply PTFs to Databases

Introduction

For most ICMS PTFs, applying the objects is all that will be required. However, a small number of ICMS PTFs will require changes to be made to the ICMS databases where database files have been changed or added. You will be able to determine these from reading the Implementation Instructions (refer to Chapter 4 – Generic Preparation Procedures for the topic "Print and Review PTF Documentation").

In addition to the APYICMSPTF instruction, there will be instructions to run one of the following commands:

Command	Description
CRTICMSPF	Creates a new ICMS physical file or changes an existing ICMS physical file.
CRTICMSLF	Creates a new ICMS logical file or changes an existing ICMS logical file.

Procedures within this topic

This topic consists of three separate procedures.

Topic	See Page
Create New or Change Existing ICMS Physical Files	5-5
Create New or Change Existing ICMS Logical Files	5-7

Create New or Change Existing ICMS Physical Files

Steps

Follow the steps below to create a new, or change an existing ICMS physical file.

Step	Action
1	Ensure that you are signed on the AS/400 with a user profile that has sufficient authority to add and/or replace files in the ICMS Test databases. You must have the ICMS software libraries (PTF and Base) in your library list.
2	Ensure that database journaling, if active, is stopped. When you are changing a critical or large file, you should take a copy of it before trying to recreate/redefine it.
3	Check to see if the PTF has a Field Reference Save file (RI*). Receive it into the PTF Save file Library and restore the objects (ICMS Field Reference Files) into the ICMS PTF Software Library
4	?? On the command line, type **CRTICMSPF** to create/change an ICMS physical file (as detailed in the implementation instructions). **Example:** CRTICMSPF FILE(*PRDB/SVDEACT) SRCFILE(*LIBL/ICMSDDS) ?? Press **F4**. The Create ICMS Physical File (CRTICMSPF) screen displays.

```
                    Create ICMS Physical File (CRTICMSPF)

 Type choices, press Enter.

 File name  . . . . . . . . . . > SVDEACT       Name
   Library  . . . . . . . . . . >   *PRDB       Name, *PRDA, *PRDB, *PRDC...
 Member . . . . . . . . . . . .   *FILE         Name, *FILE, *NONE
 Source file  . . . . . . . . . > ICMSDDS       Name, ICMSDDS
   Library  . . . . . . . . . . >   *LIBL       Name, *NONE, *STD, *LIBL
 Source member  . . . . . . . .   *FILE         Name, *FILE
                                                                        Bottom
 F3=Exit   F4=Prompt   F5=Refresh   F10=Additional parameters   F12=Cancel
 F13=How to use this display        F24=More keys
```

Create New or Change Existing ICMS Physical Files (continued)

Steps (continued)

<table>
<tr><th>Step</th><th>Action</th></tr>
<tr><td>5</td><td>Type the file name in the File name field.</td></tr>
<tr><td>6</td><td>In the Library field, either:

?? type the specific database library name, or
?? leave the default prefix value.

Note:
If you use the default value, it will pick up the library that has been defined in the data area SWINSTALL for that prefix.

Examples:
Specific library name TESTPRDB
Generic library name *PRDB</td></tr>
<tr><td>7</td><td>In the Member field, type the name of the member to be created. Possible values are listed below.

<table>
<tr><th>Value</th><th>Description</th></tr>
<tr><td>*FILE</td><td>Default, where the member name is the same as the file name (recommended).</td></tr>
<tr><td>*NONE</td><td>The file has no members.</td></tr>
<tr><td>Name</td><td>Enter the name of the member to be created.</td></tr>
</table>
</td></tr>
<tr><td>8</td><td>In the Source File field, type the name of the file that contains the source (DDS) for the file. The default value is ICMSDDS (recommended).</td></tr>
<tr><td>9</td><td>In the Library field, type the name of the library that the source file resides in. The default value is *LIBL and it is recommended that it be changed to that of the ICMS PTF Software Library, e.g. ICMSPTF.</td></tr>
<tr><td>10</td><td>In the Source Member field, type the name of the source file member that contains the DDS for the physical file being created. The default is *FILE where the member name is the same as the file name (recommended).</td></tr>
<tr><td>11</td><td>Press Enter to create the file.</td></tr>
<tr><td>12</td><td>After you have finished the database changes, you must start the database journaling job.</td></tr>
</table>

Create New or Change Existing ICMS Logical Files

Steps

Follow the steps below to create a new, or change an existing, ICMS logical file.

Step	Action
1	Ensure that you are signed on to the AS/400 with a user profile that has sufficient authority to add and/or replace files in the ICMS test databases. You must have the ICMS software libraries (PTF and Base) in your library list.
2	Ensure that database journaling, if active, is stopped. When you are changing a critical or large file you should take a copy of it before trying to recreate/redefine it.
3	?? On the command line, type **CRTICMSLF** to create/change an ICMS physical file (as detailed in the Implementation Instructions). **Example:** CRTICMSLF FILE(*PRDA/SVDPUB03) SRCFILE(*LIBL/ICMSDDS) ?? Press **F4**. The Create ICMS Logical File (CRTICMSLF) screen displays. **Create ICMS Logical File (CRTICMSLF)** **Type choices, press Enter.** **File name . . . . . > SVDPUB03 Name** **Library . . . . . > *PRDA Name, *PRDA, *PRDB, *PRDC...** **Member . . . . . *FILE Name, *FILE, *NONE** **Source file . . . . . > ICMSDDS Name, ICMSDDS** **Library . . . . . > *LIBL Name, *NONE, *STD, *LIBL** **Source member . . . . . *FILE Name, *FILE** **Bottom** **F3=Exit F4=Prompt F5=Refresh F10=Additional parameters F12=Cancel** **F13=How to use this display F24=More keys**
4	Type the file name in the **File name** field.

Create New or Change Existing ICMS Logical Files (continued)

Steps (continued)

<table>
<tr><th>Step</th><th>Action</th></tr>
<tr><td>5</td><td>In the Library field, either:

?? type the specific database library name, or
?? leave the default prefix value.

Note:
If you use the default value, it will pick up the library that has been defined in the data area SWINSTALL for that prefix.

Examples:
Specific library name TESTPRDA
Generic library name *PRDA</td></tr>
<tr><td>6</td><td>In the Member field, type the name of the member to be created. Possible values are listed below.

<table>
<tr><th>Value</th><th>Description</th></tr>
<tr><td>*FILE</td><td>Default, where the member name is the same as the file name (recommended).</td></tr>
<tr><td>*NONE</td><td>The file has no members.</td></tr>
<tr><td>Name</td><td>Enter the name of the member to be created.</td></tr>
</table>
</td></tr>
<tr><td>7</td><td>In the Source File field, type the name of the file that contains the source (DDS) for the file. The default value is ICMSDDS (recommended).</td></tr>
<tr><td>8</td><td>In the Library field, type the name of the library that the source file resides in. The default value is *LIBL and it is recommended that it be changed to that of the ICMS PTF Software Library, e.g. ICMSPTF.</td></tr>
<tr><td>9</td><td>In the Source Member field, type the name of the source file member that contains the DDS for the physical file being created. The default is *FILE where the member name is the same as the file name (recommended).</td></tr>
<tr><td>10</td><td>Press Enter to create the file.</td></tr>
<tr><td>11</td><td>After you have finished the database changes, you must start the database journaling job.</td></tr>
</table>

Apply PTFs to the Menu System

Introduction

This will generally occur when an ICMS option that is currently used from a menu is replaced or changed. The instructions will refer to the 'base' ICMS menu structure. You may have implemented a different structure to accommodate customer specific menu systems.

In this case, you will have to determine where the current option exists in your menu structure prior to applying the changes. For new options, you will have to determine where they should be added prior to applying the changes.

Steps

Follow the steps below to apply PTFs to the menu system.

Step	Action
1	Sign on as an authorised user to maintain the menu system.
2	Use the Menu Maintenance software to make the following changes to the base menus (as specified in the implementation instructions): ?? add menu options ?? change menu options, or ?? remove menu options.
3	If you have your own specific menu set-up, repeat Step 2 as many times as required to add, change or remove the options on your specific menus.

Chapter 6 – GUI/400 PTF Application Procedures

Chapter Overview

What's in this chapter?

This chapter contains information and step-by-step instructions relating to GUI/400 PTF application procedures.

Topics within this chapter

This chapter contains the following topics.

Topic	See Page
The GUI Environment	6-2
Stack ICMS GUI PTF Runtime Files	6-5
Merge ICMS GUI PTF Files	6-7

The GUI Environment

Introduction

The ICMS GUI package needs to be made available to the GUI/400 RTS Pro software installed on the PC.

Prerequisites

The following is required in order to run the GUI/400 application:

?? Seagull GUI400 Runtime RTS Pro software installed on the local PC
?? Seagull GUI400 Runtime RTS Pro software configured to connect to the AS/400
?? ICMS GUI package has been restored on the AS/400 from the media
?? GUI/400 Development Kit V4.0 and above.

Control Files

Control files are designated suffix .AWC, and are used by the runtime software to control the sequence by which the runtime files are processed.

When no control file is present, the GUI will use the runtime files present in the GUI400RT\APP directory in a reverse alpha order if the files have been renamed. This may result in them being processed incorrectly. To correct this, a control file can be created to dictate the order in which the runtime files are to be processed.

Another use of a control file can be where the runtime files are installed on the network rather than the local drive of the PC. In this case, the control file will set the path for the runtime software to locate the required files.

The GUI Environment (continued)

Control Files (continued)

Example (5.1 Control File)

```
; GUI/400 Control File
[ICMS]
; Define location for Runtimes on the local PC
Path=\GUI400RT\APP
;
;  Define the Runtime to be used by this file.
;
; I5.1 Runtimes
RunTime=\GUI400RT\APP\R510_006.AWR
RunTime=\GUI400RT\APP\R510_005.AWR
RunTime=\GUI400RT\APP\R510_004.AWR
RunTime=\GUI400RT\APP\R510_003.AWR
RunTime=\GUI400RT\APP\R510_002.AWR
RunTime=\GUI400RT\APP\R510_001.AWR
;
RunTime=\GUI400RT\APP\R529SW.AWR
RunTime=\GUI400RT\APP\R528SW.AWR
RunTime=\GUI400RT\APP\R527SW.AWR
RunTime=\GUI400RT\APP\R526SW.AWR
RunTime=\GUI400RT\APP\R525SW.AWR
RunTime=\GUI400RT\APP\R524SW.AWR
RunTime=\GUI400RT\APP\R523SW.AWR
RunTime=\GUI400RT\APP\R522SW.AWR
RunTime=\GUI400RT\APP\R521SW.AWR
RunTime=\GUI400RT\APP\R520SW.AWR
RunTime=\GUI400RT\APP\R519SW.AWR
RunTime=\GUI400RT\APP\R518SW.AWR
RunTime=\GUI400RT\APP\R517SW.AWR
RunTime=\GUI400RT\APP\R516SW.AWR
RunTime=\GUI400RT\APP\R515SW.AWR
RunTime=\GUI400RT\APP\R514SW.AWR
RunTime=\GUI400RT\APP\R513SW.AWR
RunTime=\GUI400RT\APP\R512SW.AWR
RunTime=\GUI400RT\APP\R511SW.AWR
RunTime=\GUI400RT\APP\R510SW.AWR
RunTime=\GUI400RT\APP\R509SW.AWR
RunTime=\GUI400RT\APP\R508SW.AWR
RunTime=\GUI400RT\APP\R507SW.AWR
RunTime=\GUI400RT\APP\R506SW.AWR
RunTime=\GUI400RT\APP\R505SW.AWR
RunTime=\GUI400RT\APP\R504SW.AWR
RunTime=\GUI400RT\APP\R503SW.AWR
RunTime=\GUI400RT\APP\R502SW.AWR
RunTime=\GUI400RT\APP\R501SW.AWR
;
; System Runtimes
RunTime=\GUI400RT\APP\SYSTEM.AWR
;
; End of Control File
```

The GUI Environment (continued)

What does a Control File do?

A control file controls the Runtime (AWR) files that are used, and in what order they are to be loaded. As shown in the previous example, the Runtime files are stacked in a similar way to the AS/400 Libraries (EDTLIBL command).

Linking a control file to the GUI Runtime application

Follow the steps below to link a control file to the GUI Runtime environment.

Step	Action
1	Open the properties of the icon you use to launch the GUI Runtime (usually by right clicking on the icon), then change the command line entry (as described in the following example). **Example:** D:\GUI400RT\AW9RT.EXE I51BaseP.AWC. **Result:** The I51BaseP.AWC control file is attached to the selected icon.
2	Double click on the icon to start the Runtime application with the required Runtime Files for the release.

Stack ICMS GUI PTF Runtime Files

Introduction

There are two methods of applying the ICMS GUI PTFs to the GUI/400 environment:

?? stacking ICMS GUI PTF runtime files (this topic), and
?? merging ICMS GUI PTF runtime files (next topic).

Warning

A maximum of 60 Runtime files can be stacked in the control file.

Steps

Follow the steps below to stack GUI PTF runtime files.

Step	Action
1	Restore the PTF Save File GI* into an AS/400 folder (ICMSGUI/Gnnnnnn). The ICMSGUI folder must be accessible to the PC/LAN via client access.
2	Access the AS/400 folder via the LAN and copy the GUI Runtime file (AWR extension) in to the GUI400RT\APP directory. **Note**: The "GUI400RT\APP" directory will have been created by default as part of the RTS software install. The default directory structure is C:\GUI400 RTS Pro\App.

Stack ICMS GUI PTF Runtime Files (continued)

Steps (continued)

Step	Action
3	Update the control file with the PTF Runtime file G400232.AWR for the ICMS release concerned. **Example:** ; GUI/400 Control File [ICMS] ; Define location for Runtimes on the local PC Path=\GUI400RT\APP ; ; Define the Runtime to be used by this file. ; **; I5.1P Runtimes** **RunTime=\GUI400RT\APP\G400232.AWR** ; I5.1 Runtimes RunTime=\GUI400RT\APP\R510_006.AWR RunTime=\GUI400RT\APP\R510_005.AWR RunTime=\GUI400RT\APP\R510_004.AWR RunTime=\GUI400RT\APP\R510_003.AWR **….** **;** End of Control File **I51BaseP.awc** found in GUI400RT\APP directory.
4	Once the PTF PC file has been copied and the control file has been updated, start the ICMS GUI Application from the appropriate short cut on the start menu. The graphical version of the AS/400 sign-on will display. **Note**: It is assumed that the AS/400 will display the default sign-on screen (no customer specific screen has been developed).
5	Sign on to the AS400, and access the ICMS application via Menu Tasman using the normal methods/commands.

Merge ICMS GUI PTF Files

Introduction

There are two methods of applying the ICMS GUI PTFs to the GUI/400 environment:

?? merging ICMS GUI PTF runtime files (this topic), and
?? stacking ICMS GUI PTF runtime files (previous topic).

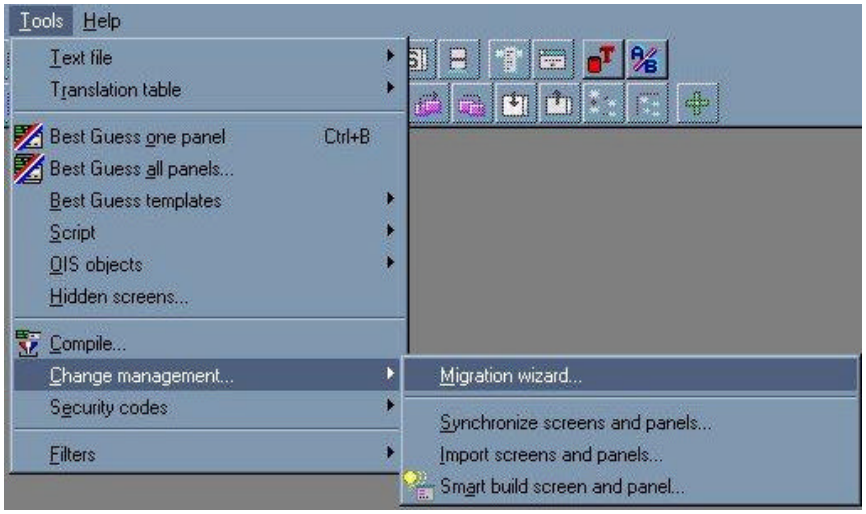
Steps

Follow the steps below to merge ICMS GUI PTF runtime files.

Step	Action
1	Restore the PTF Save File GI* into an AS/400 folder (ICMSGUI/Gnnnnnn). The ICMSGUI folder must be accessible to the PC/LAN via client access.
2	Check the control file has the 5.1P Merge Runtime file in it. **Example:** ; GUI/400 Control File [ICMS] ; Define location for Runtimes on the local PC Path=\GUI400RT\APP ; ; Define the Runtime to be used by this file. ; **; 5.1P Merge Runtime File** **RunTime=\GUI400RT\APP\R510P.AWR** ; I5.1 Runtimes RunTime=\GUI400RT\APP\R510_006.AWR RunTime=\GUI400RT\APP\R510_005.AWR RunTime=\GUI400RT\APP\R510_004.AWR RunTime=\GUI400RT\APP\R510_003.AWR **….** **;** End of Control File
3	Start up the GUI/400 Development Kit.

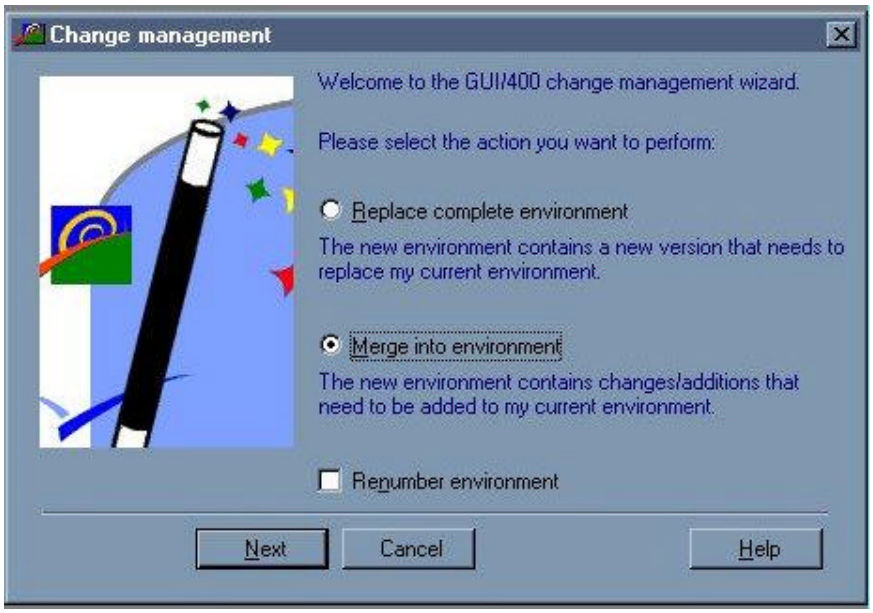
Merge ICMS GUI PTF Files (continued)

Steps (continued)

Step	Action
4	In the Panel Editor, open the Panel Work File (AWA extension) by selecting File\Open for the PTF.
5	In the Terminal Editor, open the Terminal Work File (AWE extension) by selecting File\Open for the PTF.
6	In the Terminal Editor, open the Album File (AWP extension) by selecting Album\Open for the PTF.
7	?? Select the following menu: ?? Tools\Best Guess Templates\Path. ?? Ensure the path currently selected is the correct location for the GUI. template files (AWT/AWS extensions).
8	?? Open the MS-DOS Prompt, or command line window. ?? Create a backup directory, d:\backup.
9	In the GUI Panel Editor, select the following Menu: ?? Tools/Change Management/Migration Wizard . **Example:** 

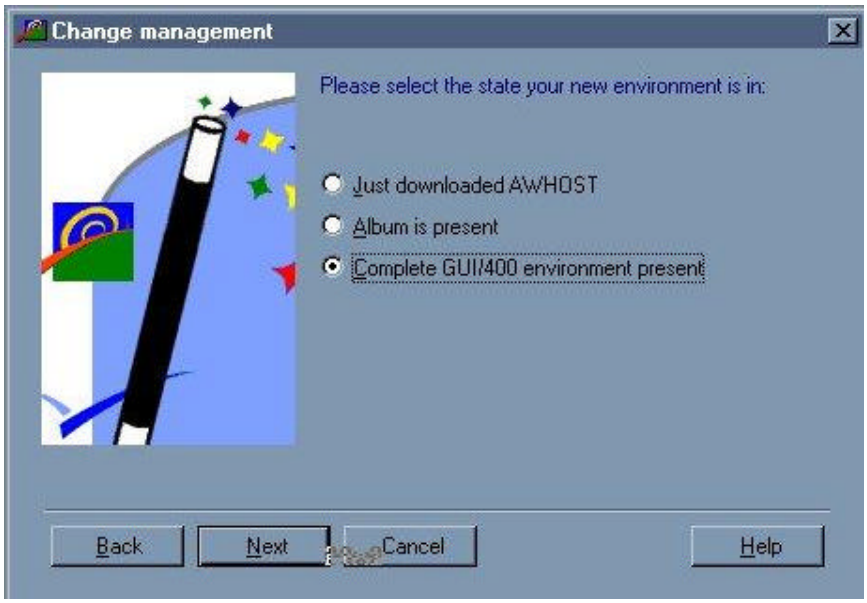
Merge ICMS GUI PTF Files (continued)

Steps (continued)

Step	Action
10	On the first prompt, select **Merge Into Environment**, then click on **Next**. **Example:** 

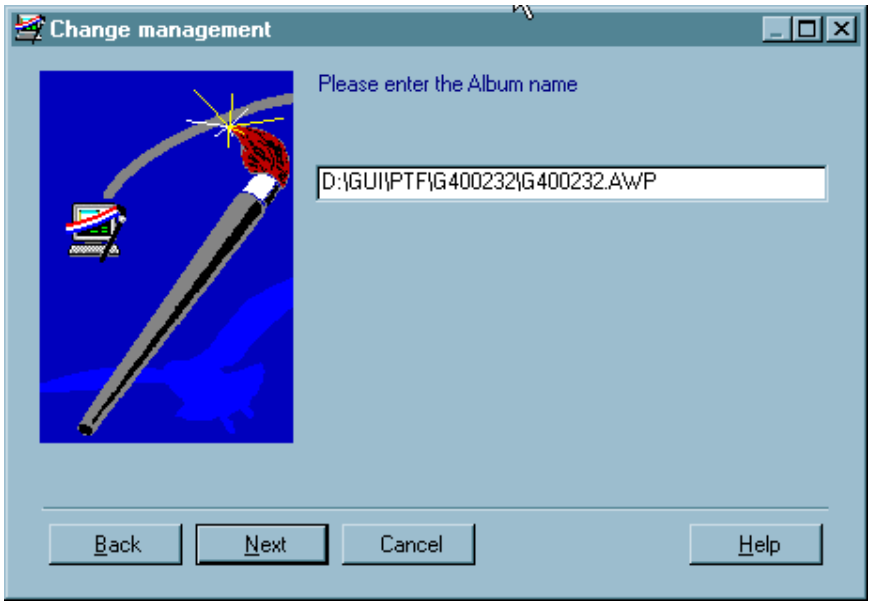
Merge ICMS GUI PTF Files (continued)

Steps (continued)

Step	Action
11	Select **Complete GUI/400 environment present**, then click on **Next**. **Example:** 

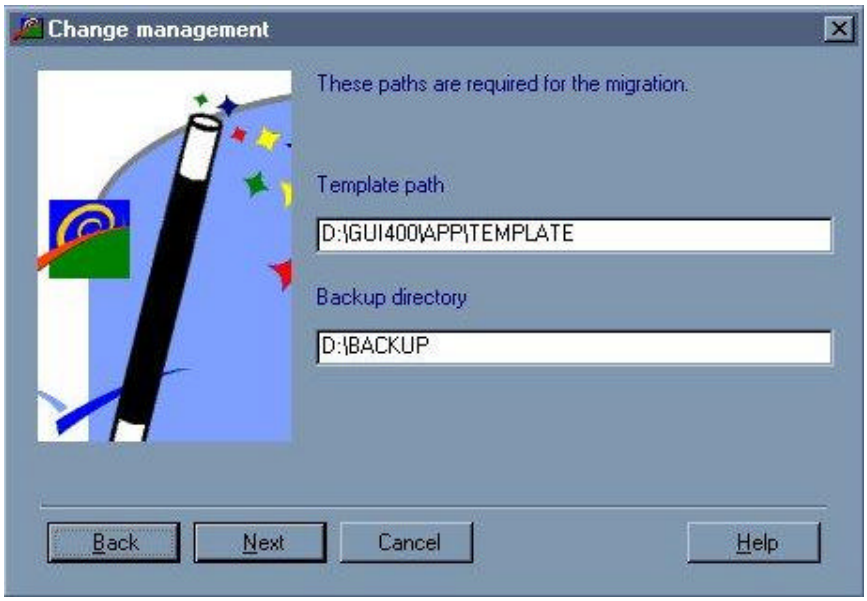
Merge ICMS GUI PTF Files (continued)

Steps (continued)

Step	Action
12	Enter the Album File Location for the Individual PTF package, then click on **Next**. **Example:** 

Merge ICMS GUI PTF Files (continued)

Steps (continued)

Step	Action
13	Ensure the template path and backup directory entries are correct for your installation, then click on **Next**. **Example:**  **Result:** The final screen for the Migration Wizard displays.

Merge ICMS GUI PTF Files (continued)

Steps (continued)

Step	Action
14	This is the last chance for making any modifications before submitting the migration job. When you have double-checked that all the selections are correct, click on the **Start** button. This will begin the migration process. **Note:** Once the migration job is submitted, the PC should not be used for any other operations. **Example:** 
15	Once the migration process has completed, verify that the terminal editor and panel editor now contain the screens provided in the individual PTF application.

Chapter 7 – Client PTF Application Procedures

Chapter Overview

What's in this chapter?

This chapter contains information and step-by-step instructions relating to Client Server PTF application procedures.

Note:
If a PTF requires server changes to be applied with the client PTF, refer to Chapter 5 – AS400 PTF Application Procedures.

Topics within this chapter

This chapter contains the following topics.

Topic	See Page
The Client Environment	7-2
Uninstall Existing Client Application	7-3
Download PTF Package	7-4
Update Client INI File	7-5

The Client Environment

Introduction

The Java Client applications within the base ICMS software are:

?? Customer Hierarchy
?? Package Builder

To install a PTF in the Client Environment you must do the following:
1. Uninstall the existing Java Client application.
2. Download the PTF package
3. Update Java Client INI file if required.

Hardware Requirements

The following minimum hardware requirements are required to successfully run the Java Client applications:

?? 233 MHz Pentium class processor
?? 64Mb memory, and
?? 10Mb hard disk space.

For optimum performance, the following hardware specifications are recommended:

?? 300Mhz Pentium II class processor
?? 96Mb memory, and
?? 10Mb hard disk space.

Software Requirements

The following software is required to successfully run the Java Client applications:

?? Windows NT 4.0 with Service Pack 4 or Windows98 2nd Edition.
?? Java Runtime Environment (JRE) 1.2.2 Win-001 release, and
?? ICMS 5.1 on the AS/400.

Uninstall Existing Client Application

Introduction

There are two ways of uninstalling Java Client application:

?? From the Java Client application program group, and
?? From the Add/Remove program.

Both methods will provide the same result.

Uninstalling from the Java Client application program group

Follow the steps below to uninstall the Java Client application from the Java Client application program group.

Step	Action
1	Click on **Start -> Programs -> <<Java Client Application Group Name>> -> Uninstall.**
2	Follow the Uninstall Wizard instructions.

Uninstalling from the Add/Remove program group

Follow the steps below to uninstall the Java Client application from the Add/Remove program group.

Step	Action
1	Click on **Start -> Settings -> Control Panel** to launch Control Panel.
2	Double click on **Add/Remove Programs**.
3	From the list, select the Java application you wish to uninstall.

Download PTF Package

Before you begin

In order to run the Java Client application, you will first need to install the Java Runtime Environment (JRE) refer to the ICMS 5.1 Installation Guide for further information.

Steps

Follow the steps below to download the PTF package.

Step	Action
1	Restore the PTF Save File CI* in to the AS/400 folder (ICMSCLNT/<<Java Client Application>>/Cnnnnnn). The ICMSCLNT/ <<Java Client Application>> folder must be accessible to the PC/LAN via client access. **Note:** Java Client Application folder would be CUSTHRY (Customer Hierarchy) and PKGBULD (Package Builder).
Installing the Java Application	
2	The installation of Java Client Application uses the InstallShield Wizard to guide you through the installation process. ?? From **Start -> Run**, type [**mapped drive]:**\<< **Java Client Application>>\Cnnnnnn\setup.exe** ?? Follow the InstallShield Wizard instructions to install the Client PTF.

Update Client INI File

Introduction

The INI file will:

?? have to be configured to reflect the AS/400 host name and your Lotus Notes server for the KnowledgeBase, and
?? tell Java Client application which AS/400 machine the ICMS software is installed on.

This may be required to be changed as part of a PTF – this will be in the Implementation instructions.

Steps

Follow the steps below to update the client ini file.

Step	Action
1	From the Java Client Application Installed directory, open the application.ini file. **Example:** Package Builder = msppp.ini Customer Hierarchy = ch.ini
2	Search for the entry SYSTEM_NAME and replace <<MACHINE_NAME>> with the name of the AS/400 machine that ICMS runs on. **Note:** The INI file may differ in format depending on the Java application you are running.

Update Client INI File (continued)

Steps (continued)

Step	Action

3	Search for the entry HELPBASE and replace <<Notes_Server>> with the name of the Lotus Notes server for the Knowledge Base.
	
	Example:
	#Thu Feb 17 11:44:05 GMT+13:00 2000
	Browser=C:\\Program\
	Files\\Netscape\\Communicator\\Program\\netscape.exe
	ListSize=300
	Mode=Remote
	RespTime=1000
	#PreloadDocuments=I_CHGCNODE
	HelpBase=http://<<**Notes_Server**>>/icmskb/icmskb51/kb51ug.nsf/FR
	MFME?ReadForm&UG+Nav;VEWOLHHIR
	UrlSuffix=
	Panel.CHFNDC=CHFNDC
	SystemName=<<Machine_Name>>
	LogFileName=.\\CHAPP.LOG

4	Save the INI file.

Chapter 8 – ICMSAVI PTF Application Procedures

Chapter Overview

What's in this chapter?

This chapter contains information and step-by-step instructions relating to ICMSAVI PTF application procedures.

Topics within this chapter

This chapter contains the following topics.

Topic	See Page
The Client Environment	8-2
Install ICMSAVI PTF on Server	8-3

The Client Environment

Hardware Requirements

The installation should be done on the server where your current version of ICMSAVI resides. The requirements for that server are:

Hardware

?? Intel Pentium III 500.
?? 133 MHz system bus.
?? 512 MB RAM.
?? 6 GB disk.
?? SVGA 800x600x256 colour minimum display .

Operating System

?? Windows NT Server version 4.0, SP5 or 6.

Network Interface

?? 100Mbps PCI Ethernet card or 16Mbps Token-ring card.

Software Requirements

To access the content of the ICMSAVI PTF CD-ROM, you will need the following:

?? Adobe Acrobat? Reader version 3 or higher.
A free reader can be obtained from the Adobe web site:
http://www.adobe.com/products/acrobat/readstep2.html.

?? A web browser application:
Microsoft? Internet Explorer? version 4 or higher
Netscape? Navigator? version 4 or higher.

Install ICMSAVI PTF on Server

CD-ROM Content

The ICMSAVI PTF CD-ROM contains the following items:

Item	Description
AVI51x.exe	The source file for ICMSAVI.
ICMSAVI 5.1x Installation Guide.pdf	Acrobat? file with the instructions for installing ICMSAVI. Includes the section "PTF Notes" that provides a list of changes.
ICMSAVI 5.1x Operations Guide.pdf	Acrobat? file with the instructions for operating ICMSAVI. Includes the section "PTF Notes" that provides a list of changes.
ICMSAVI Documentation.exe	Self-extracting file containing the ICMSAVI 5.1 Web Developer Guide, an HTML document containing all the information needed to build an ICMSAVI web site. Also included are copies of the ICMSAVI 5.1 Installation Guide and the ICMSAVI 5.1 Operations Guide. Follow the instructions in the README file to install the ICMSAVI documentation.
README	A text file containing basic instructions on how to use the contents of the ICMSAVI CD_ROM.

Steps

Follow the steps below to update ICMSAVI.

Step	Action
1	Insert the CD-ROM in the CD reader on the Windows NT? server where ICMSAVI is installed or is to be installed.
2	Double-click on the **ICMSAVI 5.1x Installation Guide.pdf** file. This will open the ICMSAVI Installation Guide in Acrobat? . You can use the "on screen" version, or print the document.
3	Follow the instructions in the ICMSAVI 5.1x Installation Guide. The guide provides detailed information on prerequisites, uninstalling previous versions, re-installing ICMSAVI, or installing ICMSAVI for the first time. **Note**: The ICMSAVI Installation Guide also provides information on configuring ICMSAVI, IBM HTTP Server, and Web Sphere.

Appendix AS400 Commands

APYICMSPTF - Apply ICMS PTF

Description

The Apply ICMS PTF command is used to receive and install the PTF software changes and message file into the PTF library.

Command

APYICMSPTF

PTF *ptfnumber* [ptfnumber2 ptfnumber3...(up to 50)]

RLSLVL *CURRENT | value

PTFLIB *PTF | *libraryname

SAVF *STD | savefile

Additional Information

?? The PTFs are applied one at a time in the order in which the PTF numbers are entered, so you must be aware of dependencies when entering the parameter list of PTF numbers.

?? If an error occurs in the processing of any PTF (because of possible dependencies) the whole process stops. If this occurs you will need to check what has and has not been applied:
   ?? PTFs preceding the point of failure **will** have been applied.
   ?? In the relevant PTF, the object where the failure occurred will **not** have been applied, but any preceding objects **will**.

?? There are various things that can go wrong during the execution of APYICMSPTF - library names. PTF numbers or save file names can be incorrect. Error messages will be produced as part of the job.

APYICMSPTF - Apply ICMS PTF (continued)

The Apply ICMS PTF command runs through the following stages.

Stage	Description
1	The Apply PTF Work library is created.
2	Objects are restored into the Work library from the WI* save file.
3	If an object already exists in the ICMS PTF library, then it is moved to the Archive library.
4	A duplicate object is created from the Work library into the PTF library.
5	Stages 3 and 4 are repeated for all objects in the WI* save file.
6	The source files are restored into the Work library from the SI* save file.
7	If the member already exists in the PTF library source file, then it is moved to the source file in the Archive library.
8	The source file member is copied from the Work library source file to the PTF library source file.
9	Stages 7 and 8 repeated for all members in all the source files within the Work library.
10	If an FI* save file exists, the message file will restored into the Work library.
11	The message file in the Work library is merged into the message file within the PTF library.
12	The Apply PTF Work library is deleted from the system.

CRTICMSLF – Create ICMS Logical File

Description

The Create ICMS Logical File command creates the logical file correctly for ICMS software.

Command

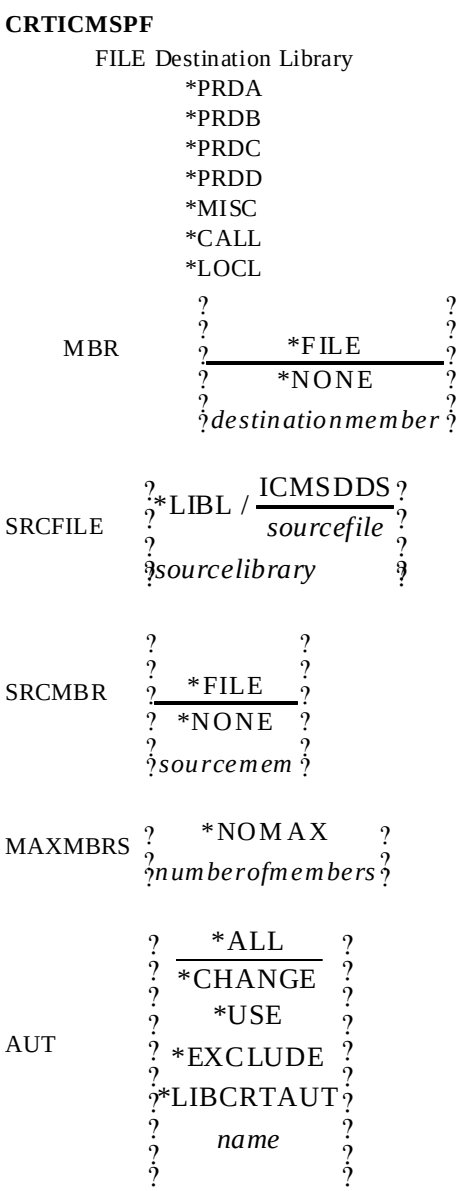
```
CRTICMSLF
FILE
        Destination Library
                *PRDA
                *PRDB
                *PRDC
                *PRDD
                *MISC
                *CALL
                *LOCL
MBR             *FILE
                *NONE
                destinationmember
SRCFILE         *LIBL / ICMSDDS
                sourcefile
                sourcelibrary
SRCMBR          *FILE
                *NONE
                sourcemem
MAXMBRS         *NOMAX
                numberofmembers
AUT             *ALL
                *CHANGE
                *USE
                *EXCLUDE
                *LIBCRTAUT
                name
```

CRTICMSPF - Create ICMS Physical File

Description

The Create ICMS Physical File command creates the physical file correctly for the ICMS software.

Command Line



CRTICMSPF - Create ICMS Physical File (continued)

Additional Information

?? Backup and Recovery:

- ?? In general you can rerun the job at will.
- ?? If the job terminates abnormally, the file 'PF9999' may be left in existence. This will probably contain the data from the original file.
- ?? You may need to manually recreate the original file by renaming PF9999. If PF9999 does not exist after an abnormal termination, it is possible that either the new file has been successfully created or the old file still exists unchanged.
- ?? If you cannot find the old data, you will have to recover it from backup. For this reason it is a wise precaution to take a copy of any critical or large file before trying to recreate/redefine it.

The Create ICMS Physical File command runs through the following stages.

Stage	Description
1	If an existing physical file is recreated, any dependent logical file will be automatically recreated with its former attributes. Appropriate messages will be issued for actions on each dependent logical file.
2	If an existing physical file is recreated and the old file contains data, the following process occurs: ?? The old file is renamed 'PF9999' (an initial check is completed to ensure that file PF9999 does not exist. If it does, the command would fail and must be manually corrected.). ?? Any dependent logical files are renamed (suffixed with '$'). ?? A new file is created using CRTPF. ?? If create fails, 'PF9999' and the dependent logicals are renamed back to their original names. ?? If create is successful, 'PF9999' is then renamed into its original file name with a prefix '$', then a batch job is submitted to copy the old records into the new file using CPYF(*MAP *DROP) and to delete the old file and its logicals.
3	The file creation library is forced to the top of the library list to satisfy DDS file references.
4	Physical files are always created with SIZE(*NOMAX).
5	Both physical and logical files are created with level check *YES, owner = ICMS.
6	CRTICMSPF cannot handle the following situations: ?? Multi-member logical files, for example DBROUTL1 and DBROUTL2. ?? Copy files which require FMTOPT(*NOCHK) fails.

DOCICMSPPTF -Receive and Print ICMS PTF Implementation Instructions

Description

The Document ICMS PTF command will receive and print the implementation instructions for the specified PTF.

Command

DOCICMSPTF

PTF *ptfnumber* [*ptfnumber2……..ptfnumber50*]

RLSLVL *releaselevel* | *CURRENT

SAVF *savfname* | *STD