

IBM FileNet P8
Version 4.5.0

*Process Task Manager Region
Recovery Technical Notice*



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Note

Before using this information and the product it supports, read the information in "Notices" on page 15.

This edition applies to version 4.5.0 of IBM FileNet Business Process Manager (product number 5724 R76) and to all subsequent releases and modifications until otherwise indicated in new editions.

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Revision log

Date	Revision
2/25/10	Initial release of document.

Convert existing region to recovery enabled

If you have existing isolated regions that were initialized but not enabled for region recovery, you can still enable them. You must first define the desired separate table spaces in the database, specify the table spaces for the region in Process Task Manager, and move the existing isolated region data into those table spaces.

Use the `rdbConvertReg` command in `vwtool` to convert an existing region so that it can be enabled for region recovery. `rdbConvertReg` first verifies that all the RDB Objects for that region are in the correct table spaces, and then separates region data located in Process Engine system tables into separate region level tables.

TIP Purge as many log entries as possible before running so that when moving existing data, you do not have to move all the records. For more information, see *To purge events as part of the Process Analyzer backup procedure*.

If you are upgrading from a prior release, all regions must be upgraded per the upgrade documentation before starting this procedure.

In `vwtool`, use the `dbviews` command to check the current database view names. Database view names should exist. If they do not exist, it is possible the regions were not completely upgraded when coming from a prior release. Complete the upgrade process before continuing.

Convert existing isolated regions

1. Before running `rdbConvertReg`, ensure that the table space in use is not shared. In Process Task Manager, click the isolated region to view the table spaces in use. If the table space in use is shared, do not use it. Instead, create a new table space.
2. Use the database tools to create one or more new table spaces for the existing region, according to your database. Grant table space privileges to the Process Engine runtime user (such as, `f_sw`). For example, for Region 100, create `reg100data`.
3. In Process Task Manager, specify one or more custom table spaces for the region. See *Regions General* tab for more information. If Process Analyzer is configured for Process Engine, stop Process Analyzer in Process Task Manager. After you have specified the new region information, make sure you apply your changes. When the changes are applied, close the Process Task Manager.
4. Reopen Process Task Manager and verify that the table space information is correct for the existing region. The table spaces listed should include the original table spaces along with the new table spaces.
5. In Process Task Manager, lock the region. The region should remain locked and unavailable for use until after Step 8.
6. In `vwtool`, use the `rdbConvertReg` command to display a list of the current table/index names, the current locations and the location where the data will be moved.

At the prompt, enter the `c` (convert) option. For a hardcopy, choose `Yes` to save a file of the manifest.

At the prompt, to confirm that you want to convert the region, choose `Yes`. (**NOTE** The region data will not be converted until you move all the data into the correct table spaces.)

7. Use the database tools to move the data to the new table spaces as specified in the manifest.
8. After the data move is complete, run `vwtool` and enter `rdbConvertReg` with the `c` option again. The command now verifies that the Process Engine region tables and indexes were moved from the current database table spaces to the new region-defined table spaces.

Once the verification passes, `rdbConvertReg` processes the Process Engine system tables as necessary to enable the region for recovery. See the example below.

9. Unlock the region and restart Process Analyzer.
10. Select `Enable for Region Recovery`.

11. (Optional) After the convert process, existing database views are still usable. Because the tables are moved to another location in the database, the database views are not affected. However, to recreate the database views, use the following step.

In vwtool, set the correct region, then use the **createDBViews** command to recreate the database views. Select either the **v** or **s** options. The **v** option automatically creates the views and **s** creates a script you run manually from the RDBMS database tools.

Running the region conversion utility

Usage:

```
vwtool -Y <Admin user name>+<Admin password>
vwtool: rdbConvertReg
Choice? ('c', 'l', 'e',, CR=exit): c
hardcopy?(y/n) cr=y
output file: <filename>
```

Manifest example

NOTE The following example uses Oracle.

```
<vwtool:91>rdbConvertReg
```

Create :

c - Verify that all Process Engine region database objects are in the correct rdb location.

Convert the region to be ready to set backup enabled.

Message will be displayed if all Process Engine database objects are not in the correct location in the database.

NOTE Region must be locked in order to complete this step.

l - Just list current DB locations.

e - Exit.

```
Choice? ('c', 'l', 'e', CR=exit): c
```

```
Do you want a hardcopy? y/n: (CR=y)
```

```
Verify and convert for region 91
```

```
Please confirm that you want to convert region 91: y/n (CR=n)y
```

```
PE Reg 91 Oracle Database Tablespaces
```


Use the following list to move Process Engine region 91 tables and indexes, from the existing database table space to a new region and table space. Use database tools (such as Oracle Exp/Imp) to move the tables and indexes to new database table spaces.

Table/Index name	From database table space	To database table space
VWATTACHED91	VWDATA_TS	--> SIMPLE91_TS
VWBYWOB91	VWINDEX_TS	--> SIMPLE91_TS
VWBYATTID91	VWINDEX_TS	--> SIMPLE91_TS
VWEVENT91	VWDATA_TS	--> SIMPLE91_TS
VWEVTMAIN91	VWINDEX_TS	--> SIMPLE91_TS
VWEVTOBJNUM91	VWINDEX_TS	--> SIMPLE91_TS
VWINJECT91	VWDATA_TS	--> SIMPLE91_TS
VWIINJNAME91	VWINDEX_TS	--> SIMPLE91_TS
VWIWCNAME91	VWINDEX_TS	--> SIMPLE91_TS
VWLOG91_599	VWDATA_TS	--> SIMPLE91_TS
VWLOGTIME91_599	VWINDEX_TS	--> SIMPLE91_TS
VWEVENTTIME91_599	VWINDEX_TS	--> SIMPLE91_TS
VWLOGEVTWPID91_599	VWINDEX_TS	--> SIMPLE91_TS
VWLOGSEQUENCE91_599	VWINDEX_TS	--> SIMPLE91_TS
VW_IND329	VWINDEX_TS	--> SIMPLE91_TS
VWLOG91_613	VWDATA_TS	--> SIMPLE91_TS
VWLOGTIME91_613	VWINDEX_TS	--> SIMPLE91_TS
VWEVENTTIME91_613	VWINDEX_TS	--> SIMPLE91_TS
VWLOGEVTWPID91_613	VWINDEX_TS	--> SIMPLE91_TS
VWLOGSEQUENCE91_613	VWINDEX_TS	--> SIMPLE91_TS
VW_IND332	VWINDEX_TS	--> SIMPLE91_TS
VWOBJECT91	VWDATA_TS	--> SIMPLE91_TS
SYS_IL0000018559C000	VWDATA_TS	--> SIMPLE91_TS
VWOBJINT91	VWINDEX_TS	--> SIMPLE91_TS
VWOBJSTR91	VWINDEX_TS	--> SIMPLE91_TS
VWQUEUE91_586	VWDATA_TS	--> SIMPLE91_TS
VWQWOBNUM91_586	VWINDEX_TS	--> SIMPLE91_TS
VWQUNIQID91_586	VWINDEX_TS	--> SIMPLE91_TS
VWQSORT91_586	VWINDEX_TS	--> SIMPLE91_TS
VW_IND325	VWINDEX_TS	--> SIMPLE91_TS
VW_IND326	VWINDEX_TS	--> SIMPLE91_TS
VWQUEUE91_587	VWDATA_TS	--> SIMPLE91_TS
VWQWOBNUM91_587	VWINDEX_TS	--> SIMPLE91_TS

Table/Index name	From database table space	To database table space
VWQUNIQID91_587	VWINDEX_TS	--> SIMPLE91_TS
VWQSORT91_587	VWINDEX_TS	--> SIMPLE91_TS
VWQUEUE91_588	VWDATA_TS	--> SIMPLE91_TS
VWQWOBNUM91_588	VWINDEX_TS	--> SIMPLE91_TS
VWQUNIQID91_588	VWINDEX_TS	--> SIMPLE91_TS
VWQSORT91_588	VWINDEX_TS	--> SIMPLE91_TS
VWQUEUE91_589	VWDATA_TS	--> SIMPLE91_TS
VWQWOBNUM91_589	VWINDEX_TS	--> SIMPLE91_TS
VWQUNIQID91_589	VWINDEX_TS	--> SIMPLE91_TS
VWQSORT91_589	VWINDEX_TS	--> SIMPLE91_TS
VWQUEUE91_590	VWDATA_TS	--> SIMPLE91_TS
VWQWOBNUM91_590	VWINDEX_TS	--> SIMPLE91_TS
VWQUNIQID91_590	VWINDEX_TS	--> SIMPLE91_TS
VWQSORT91_590	VWINDEX_TS	--> SIMPLE91_TS
VW_IND327	VWINDEX_TS	--> SIMPLE91_TS
VWQUEUE91_91	VWDATA_TS	--> SIMPLE91_TS
VWQWOBNUM91_91	VWINDEX_TS	--> SIMPLE91_TS
VWQUNIQID91_91	VWINDEX_TS	--> SIMPLE91_TS
VWQSORT91_91	VWINDEX_TS	--> SIMPLE91_TS
VWQUEUE91_603	VWDATA_TS	--> SIMPLE91_TS
VWQWOBNUM91_603	VWINDEX_TS	--> SIMPLE91_TS
VWQUNIQID91_603	VWINDEX_TS	--> SIMPLE91_TS
VWQSORT91_603	VWINDEX_TS	--> SIMPLE91_TS
VWQUEUE91_605	VWDATA_TS	--> SIMPLE91_TS
VWQWOBNUM91_605	VWINDEX_TS	--> SIMPLE91_TS
VWQUNIQID91_605	VWINDEX_TS	--> SIMPLE91_TS
VWQSORT91_605	VWINDEX_TS	--> SIMPLE91_TS
VWQUEUE91_608	VWDATA_TS	--> SIMPLE91_TS
VWQWOBNUM91_608	VWINDEX_TS	--> SIMPLE91_TS
VWQUNIQID91_608	VWINDEX_TS	--> SIMPLE91_TS
VWQSORT91_608	VWINDEX_TS	--> SIMPLE91_TS
WROSTER91_598	VWDATA_TS	--> SIMPLE91_TS
VWRWOBNUM91_598	VWINDEX_TS	--> SIMPLE91_TS
VWRWOBTAG91_598	VWINDEX_TS	--> SIMPLE91_TS

Table/Index name	From database table space	To database table space
VW_IND328	VWINDEX_TS	--> SIMPLE91_TS
VWROSTER91_611	VWDATA_TS	--> SIMPLE91_TS
VWRWOBNUM91_611	VWINDEX_TS	--> SIMPLE91_TS
VWRWOBTAG91_611	VWINDEX_TS	--> SIMPLE91_TS
VW_IND330	VWINDEX_TS	--> SIMPLE91_TS
VWWCSTATS91	VWDATA_TS	--> SIMPLE91_TS
VWSTWCNAME91	VWINDEX_TS	--> SIMPLE91_TS
VWSTWCTIME91	VWINDEX_TS	--> SIMPLE91_TS
VWWPSTATS91	VWDATA_TS	--> SIMPLE91_TS
VWSTWPNAME91	VWINDEX_TS	--> SIMPLE91_TS
VWSTWPTIME91	VWINDEX_TS	--> SIMPLE91_TS

Region 91 location verification complete, verification shows more tables to move.

Copy the tables as listed and rerun this option.

<vwtool:91>

Verification example

Sample output after moving the data to the new tables and running rdbConvertReg the second time. With the data in the appropriate table spaces, verification is successful and the remaining data for Region 91 is split out of the Process Engine system tables and copied to the new table space.

```
<vwtool:1>reg 91
Current region is: 1
New region is: 91
<vwtool:91>rdbConvertReg
```

Create :

c - Verify that all PE region database objects are in the correct rdb location.

Convert the region to be ready to set backup enabled.
 Message will be displayed if all PE database objects are not in the correct location in the database.

NOTE Region must be locked in order to complete this step.

l - Just list current DB locations.

e - Exit.

Choice? ('c', 'l', 'e', CR=exit): c

Do you want a hardcopy? y/n: (CR=y)

Verify and convert for region 91

Please confirm that you want to convert region 91: y/n (CR=n)y

PE Reg 91 Oracle Database Tablespaces.

Use the following list to move PE region 91 tables and indexes, from current DB table space to new region defined table space.

Use database tools (such as Oracle Exp/Imp) to move tables and indexes to new DB table spaces.

Region 91 location verification complete, verification PASSED

Created table VWWobTimeOut91.
 Created table VWNotify91.
 Created table VWPAEventState91.
 Created table VWPending91.
 Created table VWIsolReg91.
 Copied data for table VWIsolReg91.
 Copied data for table VWWobTimeOut91.
 Copied data for table VWNotify91.
 Copied data for table VWPAEventState91.
 Copied data for table VWPending91.
 Deleted data in VWPending.
 Deleted data for table VWWobTimeOut.
 Deleted data for table VWNotify.
 Deleted data for table VWPAEventState.

Region is set up for region backup enable for region # 91
 Unlock region and continue with backup enable procedure.
 <vwtool:91>

Running the database views command

Usage:

vwtool -r 91 -Y <Admin user name>+<Admin password>
 <vwtool:91>dbviews

Logical name	Database view	Database table
WSRequest	VWVQ91_WSRequest	VWQueue91_590
Inbox	VWVQ91_Inbox	VWQueue91_586
Delay	VWVQ91_Delay	VWQueue91_587
Tracker	VWVQ91_Tracker	VWQueue91_586
Conductor	VWVQ91_Conductor	VWQueue91_586
CE_Operations	VWVQ91_CE_Operations	VWQueue91_588
InstructionSheetInterpreter	VWVQ91_InstructionSheetInterp	VWQueue91_589
WQ1	VWVQ91_WQ1	VWQueue91_601
WQ2	VWVQ91_WQ2	VWQueue91_603
WQ3	VWVQ91_WQ3	VWQueue91_605
WQ4	VWVQ91_WQ4	VWQueue91_608
DefaultRoster	VWVR91_DefaultRoster	VWRoster91_598
CustomRoster	VWVR91_CustomRoster	VWRoster91_611
DefaultEventLog	VWVL91_DefaultEventLog	VWLog91_599
CustomLog	VWVL91_CustomLog	VWLog91_613

Running the create database views command

Usage:

```
vwtool -r 91 -Y <Admin user name>+<Admin password>
<vwtool:91>createDBviews
```

Create :

- s - Creates script file containing the SQL statement required to create the DB views.
(Must run this SQL script in the database to create views.)
- v - Create the views in the database.

Choice? ('s', 'v'): v

Recreating Local DB Views.

```
DROP VIEW VWVL91_CUSTOMLOG
DROP VIEW VWVL91_DEFAULTEVENTLOG
DROP VIEW VWVQ91_CE_OPERATIONS
DROP VIEW VWVQ91_CONDUCTOR
DROP VIEW VWVQ91_DELAY
DROP VIEW VWVQ91_INBOX
DROP VIEW VWVQ91_INSTRUCTIONSHHEETINTERP
DROP VIEW VWVQ91_TRACKER
DROP VIEW VWVQ91_WQ1
DROP VIEW VWVQ91_WQ2
DROP VIEW VWVQ91_WQ3
DROP VIEW VWVQ91_WQ4
DROP VIEW VWVQ91_WSREQUEST
DROP VIEW VWVR91_CUSTOMROSTER
DROP VIEW VWVR91_DEFAULTROSTER
Create view VWVQ91_WSRequest for WSRequest
Create view VWVQ91_Inbox for Inbox
Create view VWVQ91_Delay for Delay
Create view VWVQ91_Tracker for Tracker
Create view VWVQ91_Conductor for Conductor
Create view VWVQ91_CE_Operations for CE_Operations
Create view VWVQ91_InstructionSheetInterp for InstructionSheetInterpreter
Create view VWVQ91_WQ1 for WQ1
Create view VWVQ91_WQ2 for WQ2
Create view VWVQ91_WQ3 for WQ3
Create view VWVQ91_WQ4 for WQ4
Create view VWVR91_DefaultRoster for DefaultRoster
Create view VWVR91_CustomRoster for CustomRoster
Create view VWVL91_DefaultEventLog for DefaultEventLog
Create view VWVL91_CustomLog for CustomLog
Done.
<vwtool:91>
```


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