

PSA Troubleshooting in SAP BW

Applies to:

SAP BW 7.0

Summary

This article describes the various PSA troubleshooting options available in BI 7.0. Various backend tables and the PSA reports are explained in detail.

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Author Bio



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Definition

The Persistent Staging Area (PSA) is the inbound storage area for data from the source systems in the BI system.

The requested data is saved, unchanged from the source system.

Request data is stored in the transfer structure format in transparent, relational database tables of the BI system in which the request data is stored in the format of the DataSource.

The data format remains unchanged, meaning that no summarization or transformations take place, as is the case with InfoCubes.

PSA and BI 7

The Persistent staging area (PSA), the entry layer for data in BI, has been changed in SAP NetWeaver 7.0. Previously, the PSA table was part of the transfer structure.

You managed the PSA table in the Administrator Workbench in its own object tree.

Now you manage the PSA table for the entry layer from the DataSource.

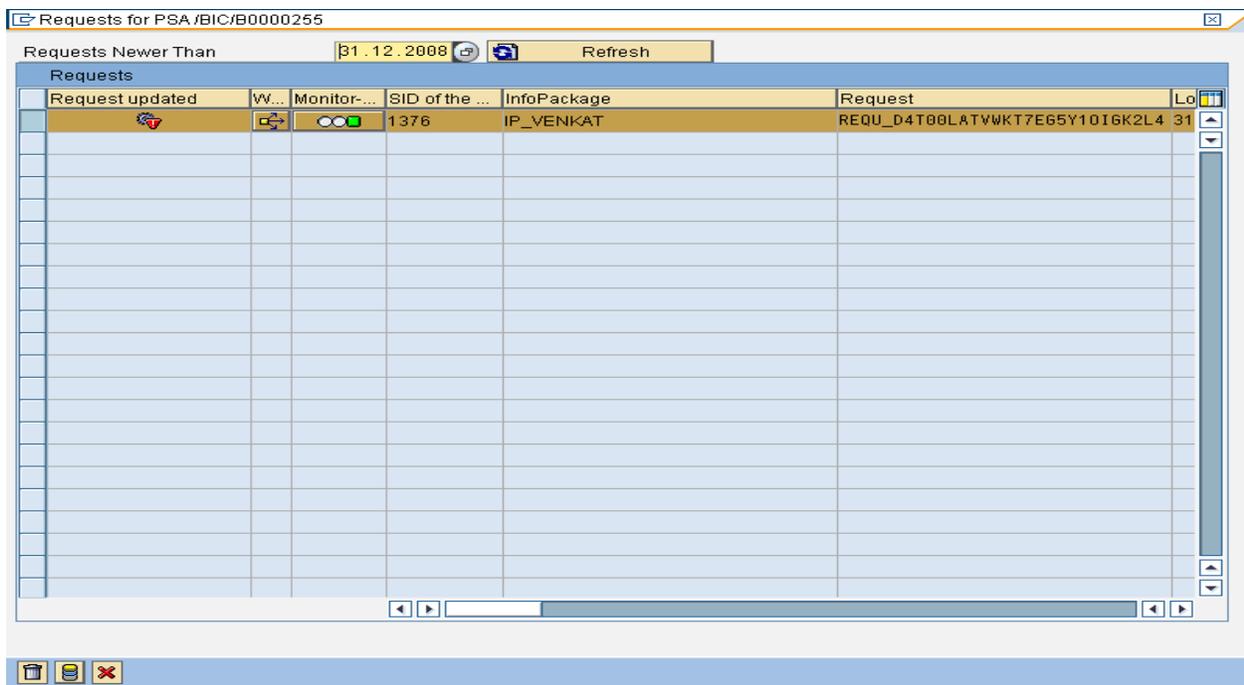
The PSA table for the entry layer is generated when you activate the DataSource.

In an object tree in the Data Warehousing Workbench, you choose the context menu option Manage to display a DataSource in PSA table management.

You can display or delete data here. Alternatively, you can access PSA maintenance from the load process monitor. Therefore, the PSA tree is obsolete.

You can no longer call the PSA tree from the Data Warehousing Workbench (DWB).

PSA From Datasource



Requests for PSA/BI/B0000255

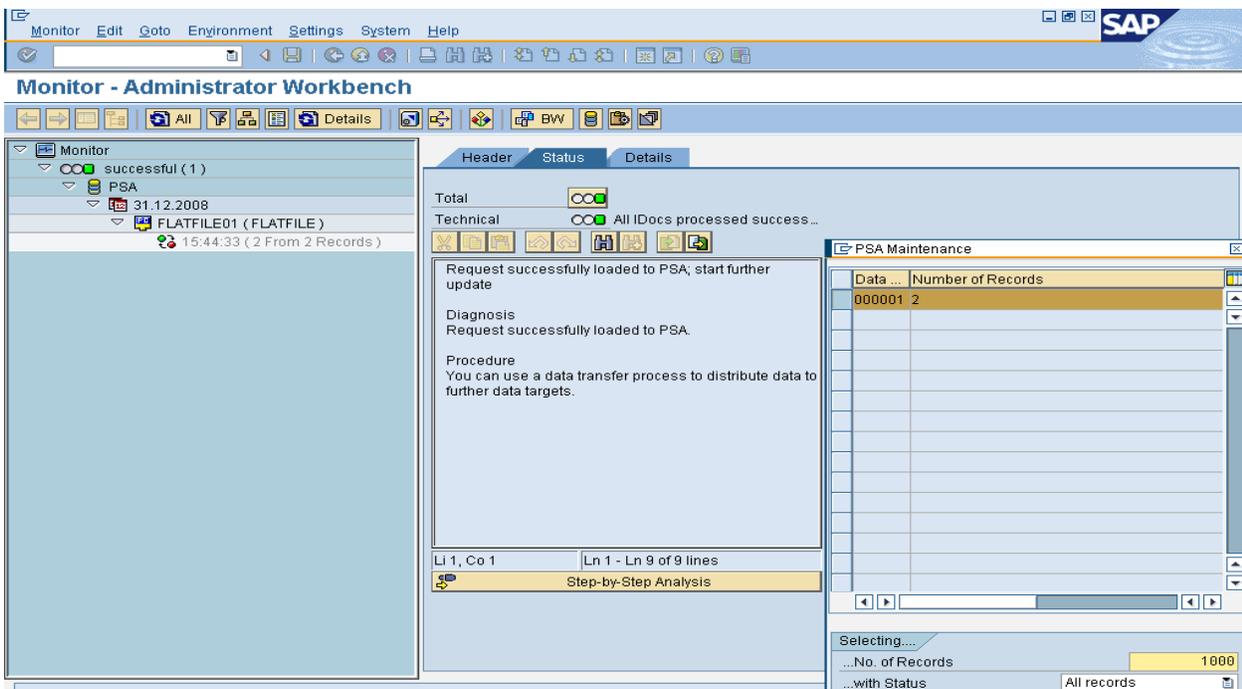
Requests Newer Than 31.12.2008 Refresh

Request updated	W...	Monitor...	SID of the ...	InfoPackage	Request	Lo
			1376	IP_VENKAT	REQU_D4T00LATVWKT7E65Y10I6K2L4	31

A transparent PSA table is created for every DataSource that is activated. The PSA tables each have the same structure as their respective DataSource. They are also flagged with key fields for the request ID, the data package number, and the data record number.

InfoPackages load the data from the source into the PSA. The data from the PSA is processed with data transfer processes.

With the context menu entry Manage for a DataSource in the Data Warehousing Workbench you can go to the PSA maintenance for data records of a request or delete request data from the PSA table of this DataSource. You can also go to the PSA maintenance from the monitor for requests of the load process. Using partitioning, you can separate the dataset of a PSA table into several smaller, physically independent, and redundancy-free units. This separation can mean improved performance when you update data from the PSA. In the Implementation Guide with *SAP NetWeaver → Business Intelligence → Connections to Other Systems → Maintain Control Parameters for Data Transfer* you define the number of data records needed to create a new partition. Only data records from a complete request are stored in a partition. The specified value is a threshold value.



RSTSODS

Table Entry Edit Goto Settings Environment System Help

Table **RSTSODS Display**

Check Table...

ODSNAME	/BIC/B0000025		
VERSION	0		
DATE TO	01.01.9999		
DATE FROM	01.01.1998		
OBJSTAT	ACT		
ODSNAME TECH	/BIC/B0000025000		
PROGRAM	GPD2014KPXE866HEJXFKR9UK3RT		
MAINTPROG			
USERAPP	NEW_DS		
USEROBJ	Z6SCCOMP	FLATFILE01	
TSTPNM	I025736		
TIMESTAMP	20.080.209.134.220		
PARTNO	2		

RSTSODSREQUEST

Table Entry Edit Goto Settings Utilities Environment System Help

Data Browser: Table **RSTSODSREQUEST Select Entries** 1

Table: RSTSODSREQUEST
 Displayed Fields: 3 of 3 Fixed Columns: 3 List Width 0250

REQUEST	ODSNAME	VERSION
<input type="checkbox"/> ODSR_D3VZASEVHCSIPJ0YFFMCCWOWO	8ZDSMM_AA	000

Get the ODSNAME from RSTSODSREQUEST And based on that you ca get the PSA table From RSTSODS.

RSTSODSREQUESTPG

Table Entry Edit Goto Settings Utilities Environment System Help

Data Browser: Table RSTSODSREQUESTPG Select Entries 1

Table: RSTSODSREQUESTPG
 Displayed Fields: 3 of 3 Fixed Columns: 2 List Width 0250

REQUEST	DATAPAKID	RECORDS
<input type="checkbox"/> ODSR_D3VZASEVHCSIPJOYFFMCCWOWD	000001	0

RSTSODSFIELD

Table Entry Edit Goto Settings Utilities Environment System Help

Data Browser: Table RSTSODSFIELD Select Entries 18

Table: RSTSODSFIELD
 Displayed Fields: 14 of 16 Fixed Columns: 3 List Width 0250

	ODSNAME	VERSION	POSIT	IOBJNM	KEYFLAG	FIELDNM	DTELNM
<input type="checkbox"/>	8ZDSMM_AA	000	0001		X	REQUEST	RSREQUNR
<input type="checkbox"/>	8ZDSMM_AA	000	0002		X	DATAPAKID	RSDATAPID
<input type="checkbox"/>	8ZDSMM_AA	000	0003		X	PARTNO	RSPARTVAL
<input type="checkbox"/>	8ZDSMM_AA	000	0004		X	RECORD	RSARECORD
<input type="checkbox"/>	8ZDSMM_AA	000	0005	ZNUMBER	X	/BIC/ZNUMBER	/BIC/OIZNUMBER
<input type="checkbox"/>	8ZDSMM_AA	000	0006	ZINUMBER	X	/BIC/ZINUMBER	/BIC/OIZINUMBER
<input type="checkbox"/>	8ZDSMM_AA	000	0007	OCALMONTH		CALMONTH	/BIC/OICALMONTH
<input type="checkbox"/>	8ZDSMM_AA	000	0008	OCALWEEK		CALWEEK	/BIC/OICALWEEK
<input type="checkbox"/>	8ZDSMM_AA	000	0009	ZCCENTER		/BIC/ZCCENTER	/BIC/OIZCCENTER
<input type="checkbox"/>	8ZDSMM_AA	000	0010	ZMCMPLST		/BIC/ZMCMPLST	/BIC/OIZMCMPLST
<input type="checkbox"/>	8ZDSMM_AA	000	0011	ZCCODE		/BIC/ZCCODE	/BIC/OIZCCODE
<input type="checkbox"/>	8ZDSMM_AA	000	0012	ZTEAMMAST		/BIC/ZTEAMMAST	/BIC/OIZTEAMMAST
<input type="checkbox"/>	8ZDSMM_AA	000	0013	OCALDAY		CALDAY	/BIC/OICALDAY
<input type="checkbox"/>	8ZDSMM_AA	000	0014	ZORGUNIT		/BIC/ZORGUNIT	/BIC/OIZORGUNIT
<input type="checkbox"/>	8ZDSMM_AA	000	0015	ZPRIORITY		/BIC/ZPRIORITY	/BIC/OIZPRIORITY
<input type="checkbox"/>	8ZDSMM_AA	000	0016	ZSOLMSG		/BIC/ZSOLMSG	/BIC/OIZSOLMSG
<input type="checkbox"/>	8ZDSMM_AA	000	0017	ZCONTRSTS		/BIC/ZCONTRSTS	/BIC/OIZCONTRSTS
<input type="checkbox"/>	8ZDSMM_AA	000	0018	ORECORDMODE		RECORDMODE	RODMUPDMOD

RSTSODSPART

Table Entry Edit Goto Settings Utilities Environment System Help

Data Browser: Table RSTSODSPART Select Entries 1

Table: RSTSODSPART
 Displayed Fields: 5 of 5 Fixed Columns: 3 List Width 0250

ODSNAME_TECH	PARTNO	REQUEST	RECORDS	DELFLAG
/BIC/B0000140000	0002	ODSR_D3VZASEVHCSIPJOYFMCCWOWO	6.145	

PSA Table in DataDictionary

Table Entry Edit Goto Settings Utilities Environment System Help

Data Browser: Table /BIC/B0000140000 Select Entries 200

Table: /BIC/B0000140000
 Displayed Fields: 15 of 18 Fixed Columns: 4 List Width 0250

REQUEST	DATAPAKID	PARTNO	RECORD	/BIC/ZMNUMBER	/BIC/ZINUMBER	CALMONTH	CALWEEK	/BIC/ZCC
<input type="checkbox"/> ODSR_D3VZASEVHCSIPJOYFMCCWOWO	000001	1	1	120025231/2007/1000576	1040383	200801	200804	01590003
<input type="checkbox"/> ODSR_D3VZASEVHCSIPJOYFMCCWOWO	000001	1	2	120025231/2007/1000679	1039146	200801	200803	01760303
<input type="checkbox"/> ODSR_D3VZASEVHCSIPJOYFMCCWOWO	000001	1	3	120025231/2007/1000933	1039146	200801	200804	01760303
<input type="checkbox"/> ODSR_D3VZASEVHCSIPJOYFMCCWOWO	000001	1	4	120025231/2007/1001425	1039028	200801	200803	01590003
<input type="checkbox"/> ODSR_D3VZASEVHCSIPJOYFMCCWOWO	000001	1	50	120025231/2007/1018011	1040383	200802	200805	01590003
<input type="checkbox"/> ODSR_D3VZASEVHCSIPJOYFMCCWOWO	000001	1	51	120025231/2007/1018434	1034844	200801	200804	01760303
<input type="checkbox"/> ODSR_D3VZASEVHCSIPJOYFMCCWOWO	000001	1	52	120025231/2007/1019013	1034844	200801	200802	01760303
<input type="checkbox"/> ODSR_D3VZASEVHCSIPJOYFMCCWOWO	000001	1	53	120025231/2007/1019112	1036396	200801	200801	01760309
<input type="checkbox"/> ODSR_D3VZASEVHCSIPJOYFMCCWOWO	000001	1	54	120025231/2007/1019359	1039146	200801	200802	01760303
<input type="checkbox"/> ODSR_D3VZASEVHCSIPJOYFMCCWOWO	000001	1	55	120025231/2007/1019758	1039146	200801	200802	01760303
<input type="checkbox"/> ODSR_D3VZASEVHCSIPJOYFMCCWOWO	000001	1	56	120025231/2007/1022803	1034583	200801	200801	01300309
<input type="checkbox"/> ODSR_D3VZASEVHCSIPJOYFMCCWOWO	000001	1	57	120025231/2007/1022944	1034844	200802	200808	01760303
<input type="checkbox"/> ODSR_D3VZASEVHCSIPJOYFMCCWOWO	000001	1	58	120025231/2007/1023275	1034844	200801	200801	01760303
<input type="checkbox"/> ODSR_D3VZASEVHCSIPJOYFMCCWOWO	000001	1	59	120025231/2007/1023300	1040383	200801	200804	01590003
<input type="checkbox"/> ODSR_D3VZASEVHCSIPJOYFMCCWOWO	000001	1	60	120025231/2007/1023843	1040383	200801	200804	01590003
<input type="checkbox"/> ODSR_D3VZASEVHCSIPJOYFMCCWOWO	000001	1	61	120025231/2007/1024086	1039146	200801	200803	01760303
<input type="checkbox"/> ODSR_D3VZASEVHCSIPJOYFMCCWOWO	000001	1	62	120025231/2007/1024686	1040214	200801	200804	01590003
<input type="checkbox"/> ODSR_D3VZASEVHCSIPJOYFMCCWOWO	000001	1	63	120025231/2007/1025659	1040153	200802	200806	01590003
<input type="checkbox"/> ODSR_D3VZASEVHCSIPJOYFMCCWOWO	000001	1	64	120025231/2007/1025885	1036396	200801	200804	01760309
<input type="checkbox"/> ODSR_D3VZASEVHCSIPJOYFMCCWOWO	000001	1	65	120025231/2007/1025977	1039146	200801	200801	01760303
<input type="checkbox"/> ODSR_D3VZASEVHCSIPJOYFMCCWOWO	000001	1	66	120025231/2007/1026150	1814620	200803	200810	01600303
<input type="checkbox"/> ODSR_D3VZASEVHCSIPJOYFMCCWOWO	000001	1	67	120025231/2007/1027029	1814565	200801	200804	01600303
<input type="checkbox"/> ODSR_D3VZASEVHCSIPJOYFMCCWOWO	000001	1	68	120025231/2007/1028230	1039028	200801	200801	01590003
<input type="checkbox"/> ODSR_D3VZASEVHCSIPJOYFMCCWOWO	000001	1	69	120025231/2007/1029202	1044500	200801	200804	01600303

Useful Reports

Part No = (N-1)

If the PSATABLE part number is 1 and Part no Is 2 In RSTSODS part, It must be actually $2-1 = 1$.

The Difference should always be 1, Else it is Inconsistent. If so Run

SE38 → SAP_PSA_PARTNO_CORRECT.

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