1995777 - Dump deleted within a short period of time ST22

Version	4	**Type**	SAP Knowledge Base Article
Language	English	**Master Language**	English
Release Status	Released to Customer	**Category**	Problem
Component	BC-ABA-LA (Syntax, Compiler, Runtime)	**Released On**	06.11.2018

Please find the original document at **https://launchpad.support.sap.com/#/notes/1995777**

Symptom

You notice that short dumps stored in your system are deleted within a short period of time, sometimes on daily basis.

Environment

SAP NetWeaver Release-independent.

Reproducing the Issue

1. Go through ST22 transaction;
2. Search for the dump time frame (less than 28 days, as by default no dumps are kept by the system after this period);
3. Error message no. SN404 "No short dumps match the selection criteria" will be displayed:

ABAP Runtime Errors - All Clients

Parameters

Standard

| | Today | | 11 | Runtime Errors |
| | Yesterday | | 0 | Runtime Errors |

Own selection

Date	15.03.2014	to	22.03.2014	
Time	00:00:00	to	00:00:00	
Host		to		
Work Process Index		to		
User		to		
Client		to		
To be stored		to		
Runtime Error		to		
Terminated Program		to		
Exception		to		
Transaction ID		to		
EPP Full Context ID		to		
EPP Connection ID		to		

Start

These files were investigated for each runtime error:

☐ With Short Text of Runtime Error

☐ Corresponding Application Component (Long Runtime)

☐ Use old dump analysis

🛑 No short dumps match the selection criteria   **SAP**

Cause

This behavior is caused by the variant used by the job that reorganizes the dumps on table SNAP (job named as SAP_REORG_ABAPDUMPS*). To check if that's the case, follow below procedure:

1. Go through SM37 transaction;
2. Define the date range the job has executed;
3. Search by ABAP program name "RSSNAPDL":

Simple Job Selection

⟳ Execute   ⋈ Extended Job Selection   ℹ Information

Job name   *
User name   *

Job status
☐ Sched.   ☑ Released   ☑ Ready   ☑ Active   ☑ Finished   ☑ Canceled

Job start condition
From   📅 24.03.2014   To   📅 24.03.2014
From   🕐 _____   To   🕐 _____

or after event: _____ ▼

Job step
ABAP program name: RSSNAPDL

4. Check the job log for the variant used:

Job Overview

🔄 Refresh   ⚑ Release   ⛔   🗑   📠 Spool   📄 Job log   ➡ Step | 🖥 Application servers   ✂ ⊞ ▽ 🖨 ▽

Job overview from: 24.03.2014 at: : :
            to: 24.03.2014 at: : :
Selected   job names: *
Selected user names: *

☐ Scheduled   ☑ Released   ☑ Ready   ☑ Active   ☑ Finished   ☑ Canceled
☐ Event controlled   Event ID:
☑ ABAP program   Program name : RSSNAPDL

JobName	Spool	Job doc	Job CreatedB	Status	Start date	Start time
☑ SAP_REORG_ABAPDUMPS			▬▬▬▬	Finished	24.03.2014	00:30:03
☑ SAP_REORG_ABAPDUMPS_000			▬▬▬▬	Finished	24.03.2014	13:49:48
*Summary						

5. Take note of the variant used:

Job Log Entries for SAP_REORG_ABAPDUMPS_000 / 13494800

🔄 | 📄 Long text   _____   📄 Next page | ⊞ 📄

Job log overview for job: SAP_REORG_ABAPDUMPS_000 / 13494800

Date	Time	Message text	Message class	Message no.	Message type
24.03.2014	13:49:48	Job started	00	516	S
24.03.2014	13:49:49	Step 001 started (program RSSNAPDL, variant PGVARIANTDUMP, ▬▬▬▬▬▬)	00	550	S
24.03.2014	13:49:49	Short dumps from 00.00.0000 00:00:00 to 00.00.0000 00:00:00 deleted	SN	407	S
24.03.2014	13:49:49	Job finished	00	517	S

6. Go through SE38 transaction;

7. Enter the same ABAP program name as step 3 (RSSNAPDL);
8. Select "Variants" option:

ABAP Editor: Initial Screen

🔁	🕯	🕒	🔀	📥	🗂		🗑	📋	🔀	⊘ Debugging ⊘ With Variant 🔁 Variants

Program   RSSNAPDL   📄   Create

Subobjects
- ○ Source Code
- ⊙ Variants
- ○ Attributes
- ○ Documentation
- ○ Text elements

👓   Display   ✏   Change
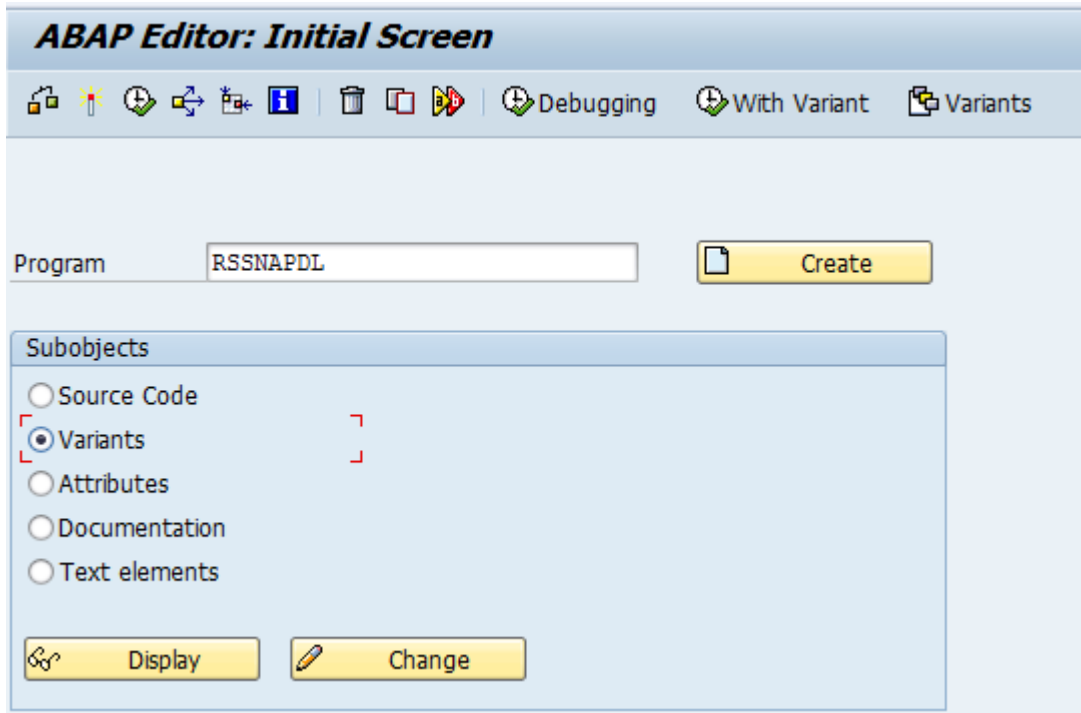
9. Hit "Display" button. Here you can see the defined time frame for the storage date of the variant, which in this sample is set as 0, so you'll only be able to display the short dumps generated in the current day:

ABAP: Selections of Variant PGVARIANTDUMP

Catalog   ✏ Values   👓 Attributes

🖨 🔽 💾 📄

Objects for selection screen

Selection Scrns	Field name	Type	I/E	Option	frm	to
1000	Max. entries to be kept	P			2.000.000	
1000	Entries which can be de...	P			1.000	
1000	Storage Date	P			0	

Resolution

There are two options available to overcome this scenario, depending on the scenario used:

For customized variant

Define a new storage date to the variant used (up to 28 days). **Important!** The program first deletes short dumps which are older than the retention date set in the third parameter (Storage Date) and that are not flagged as protected. If there are more entries in table SNAP than specified in the first parameter (Max. entries to be kept) of the program, more recent short dumps are also deleted. For more information, check the program RSSNAPDL documentation.

For SAP system variant (e.g. SAP&001)

The variant should not be modified. Instead, you should deactivate the current periodic job and create a new one with same name which holds the variant with the required retention period.

Keywords

No stored dump , Termination, SN-404, SN 404, No short dumps match the selection criteria, RSSNAPDL, SAP_REORG_ABAPDUMPS,St22

Products

SAP NetWeaver all versions

Other Components

Component	Description
BC-ABA	ABAP Runtime Environment - ABAP Language Issues Only

This document refers to

SAP Note/KBA	Title
11838	Deletion of short dumps from table SNAP
1091769	RSSNAPDL deletes too many short dumps
108803	Report RSSNAPDL: corrected documentation