



# Syniti Solutions

S/4 HANA Right Sizing Analysis Software

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## Overview

SAP S/4 HANA is revolutionary. Its in-memory platform, real-time analytics and applications deliver unrivalled speed, efficiency, and scale leading to significant business benefits.

Without effective data management, the potential benefits of migrating to S/4 HANA can be reduced or even lost.

Right Sizing for SAP S/4 HANA streamlines the data you put into S/4 HANA, to ensure it runs simply, powerfully, and efficiently.

If you are planning to use SAP Business Suite on S/4 HANA, our analysis software will help to right size your data prior to your migration.

Our S/4 HANA Right Sizing Analysis software will help you to:

- Evaluate all your Business Suite data
- Identify old or infrequently accessed data for archiving
- Test 'what if' scenarios to confirm what data can be safely deleted
- Accurately specify your S/4 HANA appliance requirements

By streamlining your data:

- The cost of migrating to S/4 HANA will be reduced
- Ongoing hardware costs will be significantly lower

## Analysis Software

Syniti provide the analysis software through the following SAP transports.

### Transport 1: BOA NAMESPACE (RD2K900018)

This transport creates the /BOA/ SAP Namespace Object that is used by subsequent namespace transports. Strictly speaking, this transport only needs to be installed if the other transport fails due to permission issues that prevent them from creating the namespace.

This transport is included with the Stewardship Tier installation and is installed here:

{Installation Directory}\BOA\DSP\Web\UserArea\0151a30b-2dd0-48ae-823dd378e1ff5c05\SAP\_Transports\Namespace\

- File 1 - K900018.RD2
- File 2 - R900018.RD2

### Transport 2: Syniti Right Sizing DCSK900348

This transport is included with the Stewardship Tier installation and is installed here:

{Installation Directory}\BOA\DSP\Web\UserArea\0151a30b-2dd0-48ae-823dd378e1ff5c05\SAP\_Transports\Namespace\RightSize



- File 1 - K900348.DCS
- File 2 - R900348.DCS

## BOA Namespace Transport (RD2K900018)

### Syniti Right Sizing Transport (DCSK900348)

This transport contains objects related to Database Analysis features and Archiving features.

#### Packages

- /BOA/ARCHIVE
- /BOA/DSP\_PROT
- /BOA/RFH
- /BOA/RFH\_ANALYZER
- /BOA/RFH\_BASIS
- /BOA/RFH\_REPORTING\_PROT

#### Business Object

- /BOA/DSP

#### Tables

- /BOA/DSP\_CUST\_RS
- /BOA/DSP\_CUST\_TC
- /BOA/DSP\_GEO
- /BOA/DSP\_GEO\_OBJ
- /BOA/DSP\_LOG
- /BOA/DSP\_OBJ
- /BOA/DSP\_RULE
- /BOA/DSP\_RULECRT
- /BOA/DSP\_RULEIMP
- /BOA/DSP\_RULETY
- /BOA/RFH\_M\_MDIS2
- /BOA/RFH\_P\_AOSIZ
- /BOA/RFH\_P\_DB
- /BOA/RFH\_P\_DBSIZ

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- /BOA/RFH\_P\_DISK
- /BOA/RFH\_P\_DISTC
- /BOA/RFH\_P\_DISTT
- /BOA/RFH\_P\_ERROR
- /BOA/RFH\_P\_M1SIZ
- /BOA/RFH\_P\_MDIS2
- /BOA/RFH\_P\_MDIST
- /BOA/RFH\_P\_MEM
- /BOA/RFH\_P\_SUGG
- /BOA/RFH\_P\_TDIST
- /BOA/RFH\_P\_TEST
- /BOA/RFH\_CONST

## Programs

Program	Description
/BOA/RFH_PROT_DATA_AGE	Data Age Analysis – Calculate Distribution of records per Module and Period (Year and Month). Running this report will populate table /BOA/RFH_P_MDIST.
/BOA/RFH_PROT_DIST_ANA	Data Age Analysis – Calculate Distribution of records per Module, Field and Value. Running this report will populate table /BOA/RFH_P_MDIST.
/BOA/RFH_PROT_STATS_BOOST	Statistics Booster – Multiply or Divide the values of the collected statistics by a chosen factor. The tables affected are /BOA/RFH_P_DB, /BOA/RFH_P_DBSIZ, /BOA/RFH_P_DISTT, /BOA/RFH_P_AOSIZ, /BOA/RFH_P_M1SIZ,
/BOA/RFH_PROT_TABLE_ANA	Table Analysis – Calculate size of Tables, Distribution of records per Table, Field and Value, and Module Size. Running this report will update tables: /BOA/RFH_P_DBSIZ, /BOA/RFH_P_DISTT, /BOA/RFH_P_M1SIZ.
/BOA/RFH_PROT_TABLE_CHECK	Table Check Report – Simple Report to expose the data collected during the run of other /BOA/RFH_PROT* programs.
/BOA/RFH_PROT_ZNEWHDB_SIZE	Estimates the memory requirement in HANA of non-HANA databases. When run on HANA, size the database using real memory consumption values.

## Right Sizing Analysis

Transactions	
• /BOA/AGE_ANA	Syniti - RFH Data Age Analysis
• /BOA/DB_ANA	Syniti - RFH Table Analyzer
• /BOA/DB_CHECK	Syniti - RFH Table Checker
• /BOA/DIST_ANA	Syniti - RFH Distribution Analysis
• /BOA/HANA_SIZ	Syniti - RFH SoH Sizing
• /BOA/STATS_BOOST	Syniti - RFH Statistics Booster Util

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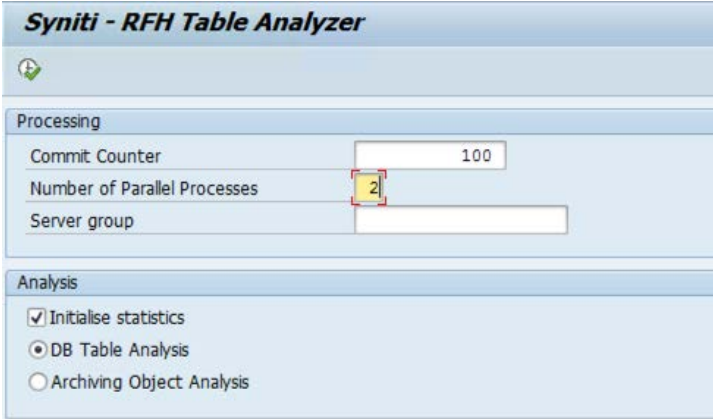
## Database Table Analysis

The database table analysis can be executed using transaction /BOA/DB\_ANA.

1. In the **Commit Counter** field, leave the default value of 100.
2. In the **Number of Parallel Processes** field enter the number of background jobs to be used for analyzing all the database tables. The available background slots for the system can be obtained in transaction **SM51**.

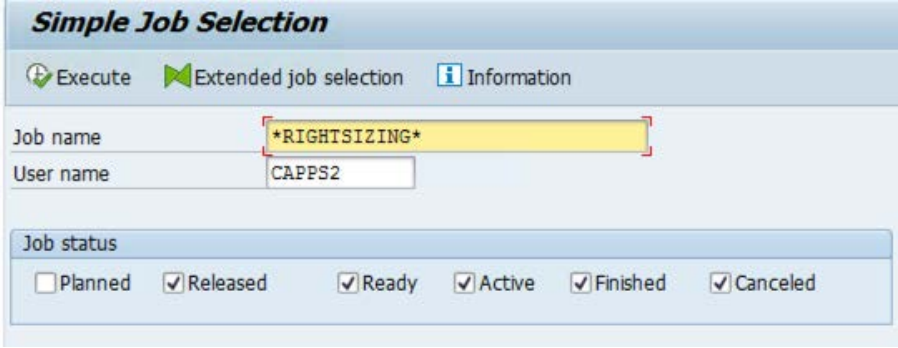
**NOTE:** It is recommended to keep at least two slots free during the Right Size analysis.

3. Leave the **Server group** field blank if unknown or if there is just one server available. **NOTE:** This is the machine that will run the jobs.
4. Check the **Initialize statistics** check box.
5. Click the **DB Table Analysis** option.
6. Click **Execute**. This will release the background processes.



The screenshot shows the 'Syniti - RFH Table Analyzer' dialog box. It has a title bar with a green checkmark icon. Below the title bar is a 'Processing' section with three input fields: 'Commit Counter' (value: 100), 'Number of Parallel Processes' (value: 2), and 'Server group' (empty). Below that is an 'Analysis' section with three radio buttons: 'Initialise statistics' (checked), 'DB Table Analysis' (selected), and 'Archiving Object Analysis' (unchecked).

Go to **SM37** to view the background processes.



The screenshot shows the 'Simple Job Selection' dialog box. It has a title bar with three icons: a green checkmark, a green play button, and an information icon. Below the title bar are three buttons: 'Execute', 'Extended job selection', and 'Information'. Below that are two input fields: 'Job name' (value: \*RIGHTSIZING\*) and 'User name' (value: CAPP52). Below that is a 'Job status' section with six checkboxes: 'Planned' (unchecked), 'Released' (checked), 'Ready' (checked), 'Active' (checked), 'Finished' (checked), and 'Canceled' (checked).

**Job Overview**

Release | Stop | Spool | Job log | Step | Application servers

Job overview from: 02/08/2021 at: : :  
 to: 02/08/2021 at: : :  
 Selected job names: \*RIGHTSIZING\*  
 Selected user names: CAPPS2

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

Job	Ln	Job CreatedB	Status	Start date	Start time	Duration(sec.)	Delay (sec.)
DB-1 -36377 -RIGHTSIZING		CAPPS2	Active	02/08/2021	08:38:43	71	0
DB-36378 -72754 -RIGHTSIZING		CAPPS2	Active	02/08/2021	08:38:43	71	0
*Summary						142	0

These jobs can be interrupted at any time, as new DB Table Analysis jobs would re-start the table processing where it was left off.

## Archiving Object Analysis

Once the Database Analysis is completed, the 'Archiving Object Analysis' can be run. This can be done using transaction /BOA/DB\_ANA.

1. Leave the default value of 100 in the **Commit Counter** field.
2. Enter **1** in the **Number of Parallel Processes** field. This analysis type cannot be split into multiple background processes.
3. Leave the **Server group** field blank if unknown or if there is just one server available. **NOTE:** This is the machine that will run the jobs.

**Syniti - RFH Table Analyzer**

Processing

Commit Counter

Number of Parallel Processes

Server group

Analysis

Initialise statistics  
 DB Table Analysis  
 Archiving Object Analysis



Go to **SM37** to view the background process.

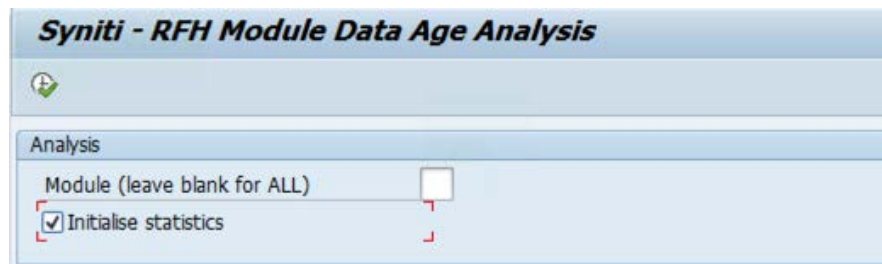
Job	Ln	Job CreatedB	Status	Start date	Start time	Duration(sec.)	Delay (sec.)
AO-RIGHTSIZING		CAPPS2	Active	02/08/2021	08:47:24	32	0
*Summary						32	0

## Data Age Analysis

The Data Age Analysis can be executed using transaction `/BOA/AGE_ANA`.

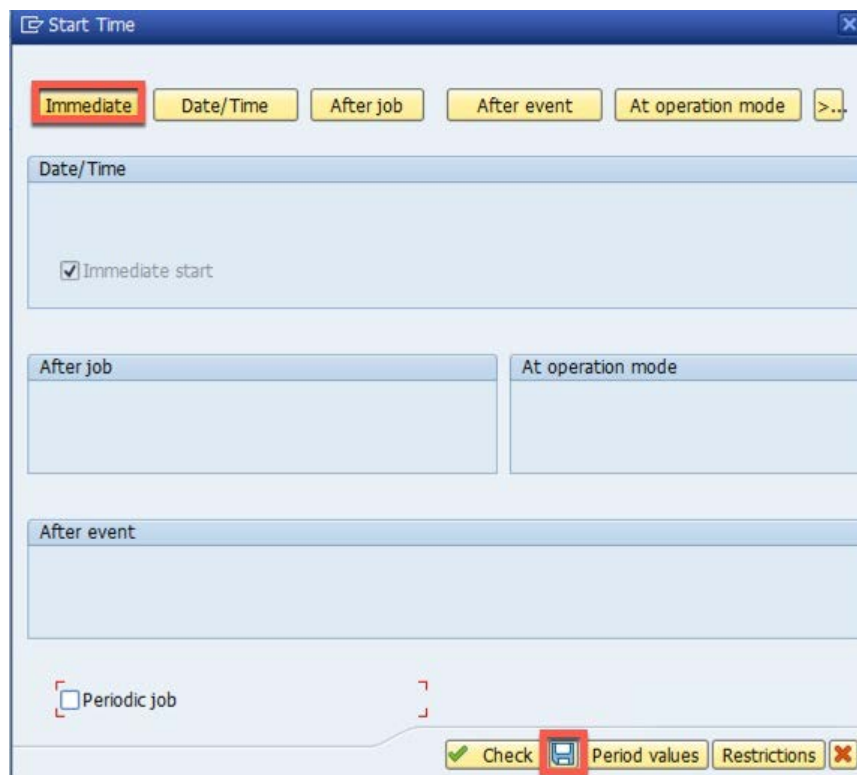
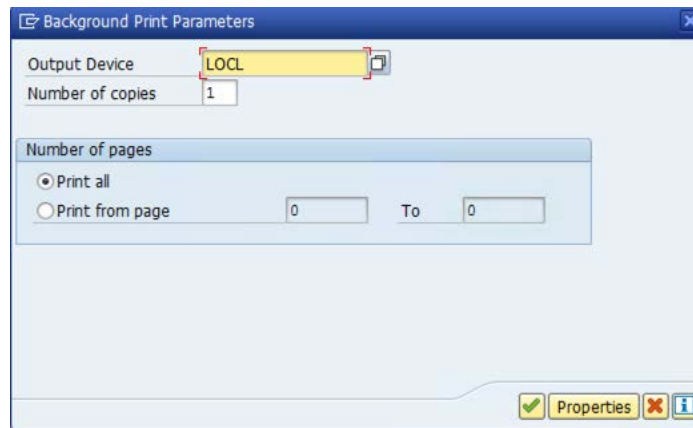
In the **Module (leave blank for ALL)** list box, leave the box blank for all modules or select a specific module.

Check the **Initialise Statistics** check box and schedule the program to run in the background (press F9 or select **Program > Run in background**). Multiple jobs will be triggered to run in parallel (one per SAP module).



To run a program in background, send its output to a default spool and start immediately.





Go to SM37 to view the background process.

**Job Overview**

Release [STOP] Spool Job log Step Application servers

Job overview from: 02/08/2021 at: : :  
to: 02/08/2021 at: : :  
Selected job names: \*AGE\*  
Selected user names: CAPP2

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

Job	Ln	Job CreatedB	Status	Start date	Start time	Duration(sec.)	Delay (sec.)
<input checked="" type="checkbox"/> /BOA/RFH_PROT_DATA_AGE		CAPP2	Finished	02/08/2021	08:53:19	2	0
<input type="checkbox"/> DATA_AGE-AC		CAPP2	Finished	02/08/2021	08:53:19	0	0
<input type="checkbox"/> DATA_AGE-BC		CAPP2	Finished	02/08/2021	08:53:19	107	0
<input type="checkbox"/> DATA_AGE-BW		CAPP2	Finished	02/08/2021	08:53:19	1	0
<input type="checkbox"/> DATA_AGE-CA		CAPP2	Finished	02/08/2021	08:53:19	4	0
<input type="checkbox"/> DATA_AGE-CO		CAPP2	Finished	02/08/2021	08:53:19	2	0
<input type="checkbox"/> DATA_AGE-CS		CAPP2	Finished	02/08/2021	08:53:19	1	0
<input type="checkbox"/> DATA_AGE-EHS		CAPP2	Finished	02/08/2021	08:53:19	0	0
<input type="checkbox"/> DATA_AGE-FI		CAPP2	Finished	02/08/2021	08:53:19	6	0
<input type="checkbox"/> DATA_AGE-FIN		CAPP2	Finished	02/08/2021	08:53:20	5	1
<input type="checkbox"/> DATA_AGE-FS		CAPP2	Finished	02/08/2021	08:53:20	0	0
<input type="checkbox"/> DATA_AGE-ICM		CAPP2	Finished	02/08/2021	08:53:20	0	0
<input type="checkbox"/> DATA_AGE-LO		CAPP2	Finished	02/08/2021	08:53:20	3	0
<input type="checkbox"/> DATA_AGE-QM		CAPP2	Finished	02/08/2021	08:53:20	1	0
<input type="checkbox"/> DATA_AGE-MM		CAPP2	Finished	02/08/2021	08:53:21	1	1
<input type="checkbox"/> DATA_AGE-PE		CAPP2	Finished	02/08/2021	08:53:21	1	1
<input type="checkbox"/> DATA_AGE-PM		CAPP2	Finished	02/08/2021	08:53:22	0	2
<input type="checkbox"/> DATA_AGE-PP		CAPP2	Finished	02/08/2021	08:53:22	1	2
<input type="checkbox"/> DATA_AGE-PS		CAPP2	Finished	02/08/2021	08:53:22	1	2
<input type="checkbox"/> DATA_AGE-PT		CAPP2	Finished	02/08/2021	08:53:22	1	2
<input type="checkbox"/> DATA_AGE-RE		CAPP2	Finished	02/08/2021	08:53:23	1	3
<input type="checkbox"/> DATA_AGE-SD		CAPP2	Finished	02/08/2021	08:53:23	1	2
<input type="checkbox"/> DATA_AGE-TR		CAPP2	Finished	02/08/2021	08:53:23	0	2
*Summary						139	18

## Distribution Analysis

The Distribution Analysis can be executed using transaction /BOA/DIST\_ANA.

It is recommended to run the program at least with 'BUKRS' – Company Code and 'WERKS' - Plant fields, although it can be run with any other field that might be helpful to analyze the system's data (e.g., 'VKORG' – Sales Org).

After selecting an input, schedule the program to run in the background (press F9 or select **Program > Run in background**). Multiple jobs will be triggered in parallel (one per SAP module and field).

**Syniti - RFH Module Distribution Analysis**

Analysis

Module (leave blank for ALL)

Field

Initialise statistics

## S/4 HANA Sizing Analysis

# Syniti

The SAP S/4 HANA Sizing analysis has no dependencies with previous Archiving Object analysis and can be run in parallel. This program can be run using transaction /BOA/HANA\_SIZ.

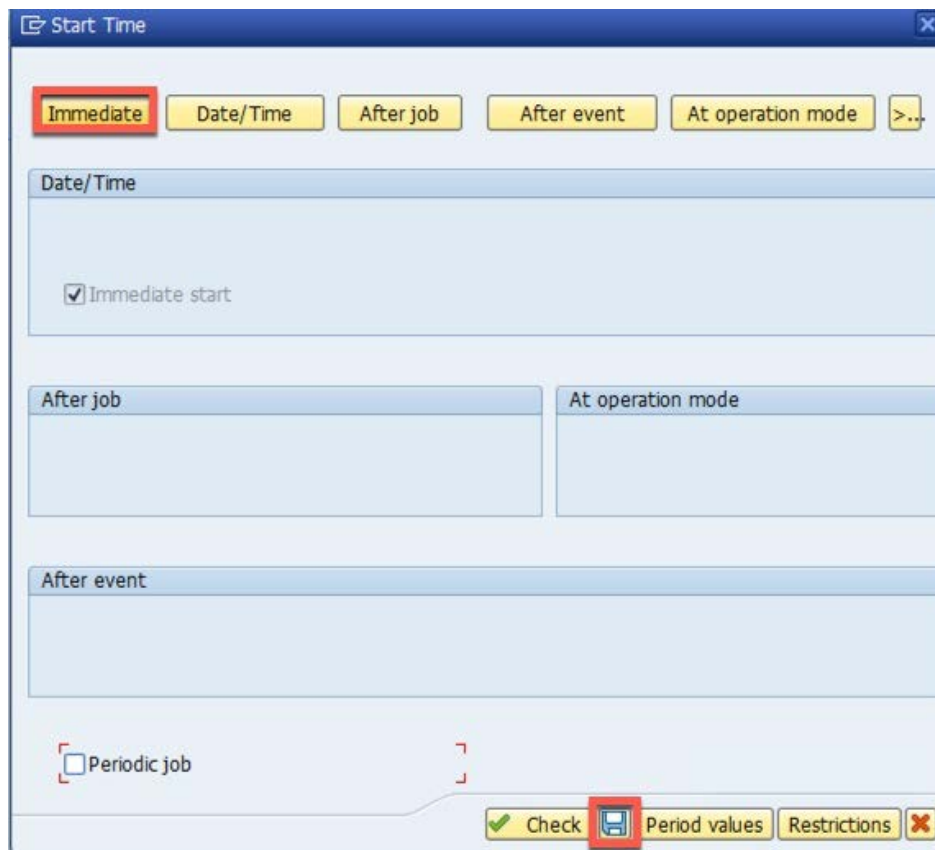
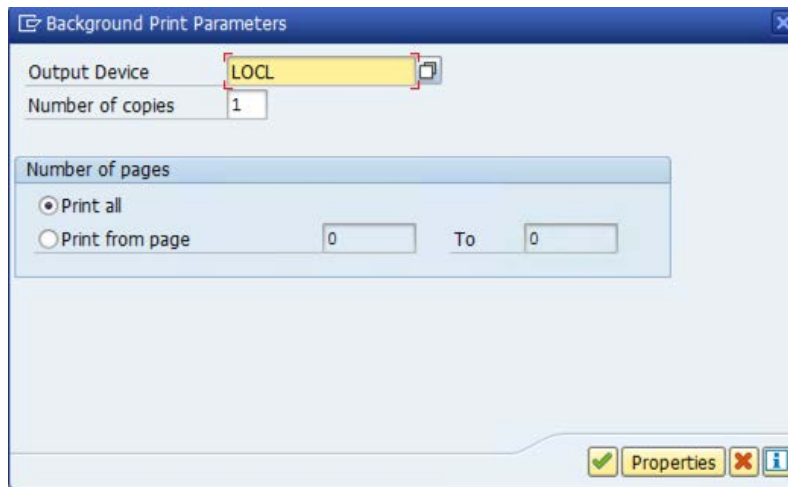
Select the Sizing scenario that suits your migration: Business Suite on HANA or S/4HANA. Then set the number of processes that will perform the table analysis; note that these processes would run split in foreground threads instead of background.

Then press F9 or select **Program > Run in background**.

The screenshot shows the 'Syniti - RFH SoH Sizing' configuration window. It is divided into several sections:

- Scope:** Includes a text input field for 'List of tables (Leave empty for full sizing)', a 'to' label, and another text input field. Below this is a radio button for 'Execute memory and disk sizing'.
- Choice of the sizing scenario:** Contains three radio buttons: 'Perform Business Suite on HANA Sizing' (selected), 'Perform Sizing of S/4HANA Finance', and 'Perform Sizing of S/4HANA'.
- Choice of the HANA version:** Contains two radio buttons: 'HANA 1.0' (selected) and 'HANA 2.0'.
- Data aging estimations on technical objects:** Features a 'Residence time in days' input field with the value '15'.
- Technical options:** Includes 'Number of parallel dialog processes' (input field with '1'), 'Server group (Leave empty to use all servers)' (text input field), and 'Number of tables displayed in output' (input field with '30').
- Maximum size of samples:** Contains three radio buttons: '1.000.000', '100.000' (selected), and '10.000'.
- Changes to stores distribution: (Leave empty to use default distribution)**: Includes two text input fields for 'List of tables to add to standard row store' and 'List of tables to add to standard column store', each with a small icon to its right.

To run a program in background, send its output to a default spool and start immediately.



Go to **SM37** to view the background process.



### Job Overview

Release Spool Job log Step | Application servers

Job overview from: 02/08/2021 at: : :  
to: 02/08/2021 at: : :

Selected job names: \*NEW\*  
Selected user names: CAPPS2

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

Job	Ln	Job CreatedB	Status	Start date	Start time	Duration(sec.)	Delay (sec.)
/BOA/RFH_PROT_ZNEWHDB_SIZE		CAPPS2	Active	02/08/2021	09:02:37	35	0
*Summary						35	0