



**EMC ViewPoint for SAP  
Line Items Module  
Version 2.0**

**ADMINISTRATION MANUAL**  
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<b>Preface</b> .....	v
<b>Chapter 1</b>	<b>Introducing ViewPoint for SAP CSL Module</b>
Introduction .....	1-2
ViewPoint CSL Module.....	1-3
Supplied menus .....	1-4
Basic information about the ViewPoint CSL Module.....	1-6
<b>Chapter 2</b>	<b>CSL Module Archiving</b>
Construction of the ViewPoint CSL Module .....	2-2
Load program.....	2-5
Select manually .....	2-5
Select automatically.....	2-5
Delete old run.....	2-5
Process all line items .....	2-6
Process line items: 1 to 999999999 .....	2-6
Merge new CSL archive with active CSL archive .....	2-6
Merge new CSL archive with last CSL archive .....	2-6
Initial load process (initial construction).....	2-7
Archive indices.....	2-7
Job protocol.....	2-7
Activate archive.....	2-10
Further load processes (merge runs).....	2-11
Archive tool .....	2-14
Disk space requirement.....	2-16
Archive construction summary .....	2-17
Path definition to the ViewPoint CSL Module .....	2-18

<b>Chapter 3</b>	<b>CSL Module Utilities</b>	
	Update coding for read routines .....	3-2
	Generate display programs .....	3-4
	SAP release 4.x .....	3-4
	SAP release 3.x .....	3-6
	Summary reports .....	3-7
	Transactions of the ViewPoint CSL Module .....	3-9

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*As part of an effort to improve and enhance the performance and capabilities of its product line, EMC from time to time releases revisions of its hardware and software. Therefore, some functions described in this manual may not be supported by all revisions of the software or hardware currently in use. For the most up-to-date information on product features, refer to your product release notes.*

*If a product does not function properly or does not function as described in this manual, please contact your EMC representative.*

**ViewPoint  
Functionality**

This document describes how to administer the various components that make up EMC ViewPoint for SAP Line Items (CSL) Module. EMC's technology allows you to effectively manage your application data by providing the ability to define the access, retention, and service level requirements for any business transaction at each point in its lifecycle.

**Audience**

This guide is part of the ViewPoint documentation set, and is intended for use by anyone administering the ViewPoint for SAP CSL Module. It is assumed that the installer has a working knowledge of SAP Basis, and has the appropriate levels of responsibilities to perform the tasks described.

**Related Documentation**

Be sure to review the *EMC ViewPoint for SAP Release Notes* for the most up-to-date information on product features.

The following list of related documents are available on the *EMC ViewPoint for SAP Documentation CD* that was delivered with your EMC ViewPoint SAP software CD.

Both the release notes and documentation CD can be found at:

<http://powerlink.emc.com>

**Introductory**

- ◆ *EMC ViewPoint for SAP Documentation CD*
- ◆ *EMC ViewPoint for SAP Release Notes*

**Installation**

- ◆ *EMC ViewPoint for SAP Modules Installation Manual*
- ◆ *EMC ViewPoint for SAP Analyzer Plus Installation and User Manual*
- ◆ *EMC ViewPoint for SAP BW Analyzer Installation Manual*
- ◆ *EMC ViewPoint for SAP Construction and Maintenance Installation Manual*
- ◆ *EMC ViewPoint for SAP Fiscal Year Reporter Module Installation and User Manual*

**Miscellaneous**

- ◆ *EMC ViewPoint for SAP Material Master Data, Batches, Special Stocks, and BOMs Module Modification Manual*

**Administrative**

- ◆ *EMC ViewPoint for SAP Controlling Line Items Module Administration Manual*
- ◆ *EMC ViewPoint for SAP Financial Accounting and Material Documents Module Administration Manual*
- ◆ *EMC ViewPoint for SAP Purchasing Module Administration Manual*
- ◆ *EMC ViewPoint for SAP Sales and Distribution Module Administration Manual*
- ◆ *EMC ViewPoint for SAP Production Orders Module Administration Manual*
- ◆ *EMC ViewPoint for SAP Agency Business Module Administration Manual*
- ◆ *EMC ViewPoint for SAP Construction and Maintenance Module Administration Manual*

- ◆ *EMC ViewPoint for SAP Costing-Based Profitability Analysis Module Administration Manual*
- ◆ *EMC ViewPoint for SAP Master Data Changes Module Administration Manual*
- ◆ *EMC ViewPoint for SAP Data Retention Tool Module Administration Manual*
- ◆ *EMC ViewPoint for SAP Contract Account Documents Module Administration Manual*
- ◆ *EMC ViewPoint for SAP HR Archiving Objects Module Administration Manual*
- ◆ *EMC ViewPoint for SAP Material Ledger Documents Module Administration Manual*
- ◆ *EMC ViewPoint for SAP Material Master Data, Batches, Special Stocks, and BOMs Module Administration Manual*
- ◆ *EMC ViewPoint for SAP Controlling Orders Module Administration Manual*
- ◆ *EMC ViewPoint for SAP Profit Center Line Items Module Administration Manual*
- ◆ *EMC ViewPoint for SAP Plant Maintenance Module Administration Manual*
- ◆ *EMC ViewPoint for SAP Production Orders Module Administration Manual*
- ◆ *EMC ViewPoint for SAP Process Orders Module Administration Manual*
- ◆ *EMC ViewPoint for SAP Project Systems Module Administration Manual*
- ◆ *EMC ViewPoint for SAP Line Items Module Administration Manual*
- ◆ *EMC ViewPoint for SAP Special Ledger Module Administration Manual*
- ◆ *EMC ViewPoint for SAP Warehouse Management Module Administration Manual*
- ◆ *EMC ViewPoint for SAP Custom Module Administration Manual*

**User**

- ◆ *EMC ViewPoint for SAP Analyzer Plus Installation and User Manual*
- ◆ *EMC ViewPoint for SAP Analyzer Lite Installation and User Manual*

- ◆ *EMC ViewPoint for SAP Analyzer BW User Manual*
- ◆ *EMC ViewPoint for SAP Controlling Line Items Module User Manual*
- ◆ *EMC ViewPoint for SAP Financial Accounting and Material Documents Module User Manual*
- ◆ *EMC ViewPoint for SAP Purchasing Module User Manual*
- ◆ *EMC ViewPoint for SAP Sales and Distribution Module User Manual*
- ◆ *EMC ViewPoint for SAP Production Orders Module User Manual*
- ◆ *EMC ViewPoint for SAP Modules Utilities User Manual*
- ◆ *EMC ViewPoint for SAP Agency Business Module User Manual*
- ◆ *EMC ViewPoint for SAP Construction and Maintenance Module User Manual*
- ◆ *EMC ViewPoint for SAP Costing-Based Profitability Analysis Module User Manual*
- ◆ *EMC ViewPoint for SAP Master Data Changes Module User Manual*
- ◆ *EMC ViewPoint for SAP Contract Account Documents Module User Manual*
- ◆ *EMC ViewPoint for SAP HR Archiving Objects Module User Manual*
- ◆ *EMC ViewPoint for SAP Material Ledger Documents Module User Manual*
- ◆ *EMC ViewPoint for SAP Material Master Data, Batches, Special Stocks, and BOMs Module User Manual*
- ◆ *EMC ViewPoint for SAP Controlling Orders Module User Manual*
- ◆ *EMC ViewPoint for SAP Profit Center Line Items Module User Manual*
- ◆ *EMC ViewPoint for SAP Plant Maintenance Module User Manual*
- ◆ *EMC ViewPoint for SAP Production Orders Module User Manual*
- ◆ *EMC ViewPoint for SAP Process Orders Module User Manual*
- ◆ *EMC ViewPoint for SAP Project Systems Module User Manual*
- ◆ *EMC ViewPoint for SAP Special Ledger Module User Manual*
- ◆ *EMC ViewPoint for SAP Export Interface for Special Ledger Data User Manual*
- ◆ *EMC ViewPoint for SAP Warehouse Management Module User Manual*

- ◆ *EMC ViewPoint for SAP Fiscal Year Reporter Module Installation and User Manual*

## Conventions Used in This Guide

EMC uses the following conventions for notes, cautions, warnings, and danger notices.

Note: A note presents information that is important, but not hazard-related.



### CAUTION

**A caution contains information essential to avoid data loss or damage to the system or equipment. The caution may apply to hardware or software.**



### WARNING

*A warning contains information essential to avoid a hazard that can cause severe personal injury, death, or substantial property damage if you ignore the warning.*



### DANGER

*A danger notice contains information essential to avoid a hazard that will cause severe personal injury, death, or substantial property damage if you ignore the message.*

## Typographical Conventions

EMC uses the following type style conventions in this guide:

<b>bold</b>	<ul style="list-style-type: none"> <li>• User actions (what the user clicks, presses, or selects)</li> <li>• Interface elements (button names, dialog box names)</li> <li>• Names of keys, commands, programs, scripts, applications, utilities, processes, notifications, system calls, services, applications, and utilities in text</li> </ul>
<i>italic</i>	<ul style="list-style-type: none"> <li>• Book titles</li> <li>• New terms in text</li> <li>• Emphasis in text</li> </ul>
Courier	<ul style="list-style-type: none"> <li>• Prompts</li> <li>• System output</li> <li>• Filenames</li> <li>• Pathnames</li> <li>• URLs</li> <li>• Syntax when shown in command line or other examples</li> </ul>

<b>Courier, bold</b>	<ul style="list-style-type: none"> <li>• User entry</li> <li>• Options in command-line syntax</li> </ul>
<i>Courier italic</i>	<ul style="list-style-type: none"> <li>• Arguments in examples of command-line syntax</li> <li>• Variables in examples of screen or file output</li> <li>• Variables in pathnames</li> </ul>
<>	Angle brackets for parameter values (variables) supplied by user.
[]	Square brackets for optional values.
	Vertical bar symbol for alternate selections. The bar means or.
...	Ellipsis for nonessential information omitted from the example.

## Where to Get Help

EMC support, product, and licensing information can be obtained as follows.

**Product information** — For documentation, release notes, software updates, or for information about EMC products, licensing, and service, go to the EMC Powerlink website (registration required) at:

<http://Powerlink.EMC.com>

**Technical support** — For technical support, go to EMC WebSupport on Powerlink. To open a case on EMC WebSupport, you must be a WebSupport customer. Information about your site configuration and the circumstances under which the problem occurred is required.

## Your Comments

Your suggestions will help us continue to improve the accuracy, organization, and overall quality of the user publications. Please send your opinion of this guide to:

[techpub\\_comments@EMC.com](mailto:techpub_comments@EMC.com)

# Introducing ViewPoint for SAP CSL Module

This chapter includes these topics:

- ◆ Introduction ..... 1-2
- ◆ ViewPoint CSL Module..... 1-3
- ◆ Supplied menus..... 1-4
- ◆ Basic information about the ViewPoint CSL Module..... 1-6

## Introduction

The ViewPoint modules are constructed in modular form and cover the application modules FI, SD, MM, CO, etc. with a special program package for exactly this application. You can easily see from the name which ViewPoint module belongs to which SAP module: FI, SD, MM, CO, etc. All ViewPoint modules have in common that they can be easily installed in the SAP R/3 system via the SAP transport utilities "tp" and "SAINT". Installation details of the ViewPoint modules are in the *EMC ViewPoint for SAP Modules Installation Manual*.

This administration manual was written to make construction and administration of the ViewPoint CSL Module as easy as possible. At first, data archiving with transaction SARA is discussed; the second topic is the ViewPoint index construction from the SAP archive files.

The *EMC ViewPoint for SAP Modules Utilities User Manual* contains additional module information.

## ViewPoint CSL Module

As already explained in the *EMC ViewPoint for SAP Modules Installation Manual*, from release 4.0 ViewPoint Software Suite has its own namespace. The names of the programs and objects described in [Table 1-1, “Object names,”](#) originate exclusively from this namespace. For customers using a SAP release up to 3.1, we list now the transactions of the ViewPoint namespace used in this manual along with those for the releases up to 3.1. For a complete list of all objects, please refer to the text file log.txt that you receive with the transport, as described in the *EMC ViewPoint for SAP Modules Installation Manual*.

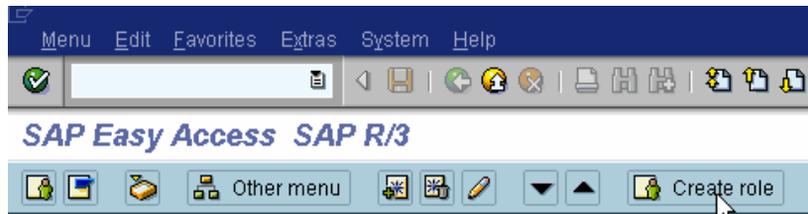
**Table 1-1 Object names**

Release 4.x	Release 3.1	Description
/PBS/GD23	ZD23	Display local documents
/PBS/GD33	ZD33	Display global documents
/PBS/GD13	ZD13	Display totals
/PBS/CSLL	ZSLL	Load program
/PBS/CSLA	ZSLA	Activate archive
/PBS/CSLS	ZSLS	Archive tool
/PBS/GAR9	ZAR9	Generate CSL reports
/PBS/CSL	ZCSL	Menu CSL
/PBS/MAIN	ZPBS	Menu ViewPoint

## Supplied menus

A global menu is supplied with the ViewPoint Module for all products and utilities of ViewPoint Software Suite as well as a special menu for the ViewPoint CSL Module. Up to release 4.5 this menu can be started via the transaction /PBS/PBS. All programs described in this manual and the user transactions are contained in the menu. From release 4.6 the navigation has completely changed due to the implementation of the SAP Easy Access technique. This has also had an affect on the transactions in the environment of the ViewPoint Modules.

The ViewPoint CSL Module contains range menus /PBS/PBS (main menu of the ViewPoint Modules) and /PBS/CSL (functions for the ViewPoint CSL Module). From these menus, you now have to generate activity groups (4.6 B) or roles (from 4.6C) respectively, which can then be integrated into the user master. You can also create an activity group/role directly from the Easy Access menu, as shown in [Figure 1-1, "Creating your own role."](#)



**Figure 1-1** Creating your own role

You can freely define the name of the activity group/role; the name can also be within the ViewPoint namespace. A ViewPoint area menu is then transferred by pressing the function key 'Transfer menus from area menus' by indicating the corresponding ViewPoint menu name. During the transfer, the system query for the explosion of the range menu should be answered with 'yes'.

The role/activity group created in this way can now be integrated in the corresponding user master.

We recommend that you assign the global activity group/role /PBS/PBS to administrators and the special function menu /PBS/CSL to the end users, as shown in [Figure 1-2, "Assigning the role in the user profile."](#)



**Figure 1-2** Assigning the role in the user profile

## Basic information about the ViewPoint CSL Module

The ViewPoint CSL Module for FI-SL line items is a package of ABAP/4 programs which enables the comfortable and performance display and evaluation of archived FI-SL line items in the R/3 online system. All transactions displaying archived data are based on the SAP transactions. This guarantees that the users can work immediately with the archive transactions without special training.

The administrative task of the ViewPoint Module is to construct and activate the ViewPoint archive and, in the event of problems, to analyze the archive with the tools that are shipped together with the software. In addition, the display programs of the FI-SL line items must be generated.

The construction and use of the ViewPoint CSL Module always requires successful data archiving with SAP means and access to the archive file created in this way. From 4.0B, this access can also be realized with "Archive Link" via an optical archive system. In each case, the status of the archive file must be "Accessible".

The ViewPoint CSL Module uses the archiving runs of the archiving objects:

FI\_SL\_DATA — totals and line items in FI-SL

---

**Note:** Only line item archives are processed.

---

The SAP archiving program is carried out with transaction SARA, as shown in Figure 1-3, “Status of an archiving file.”

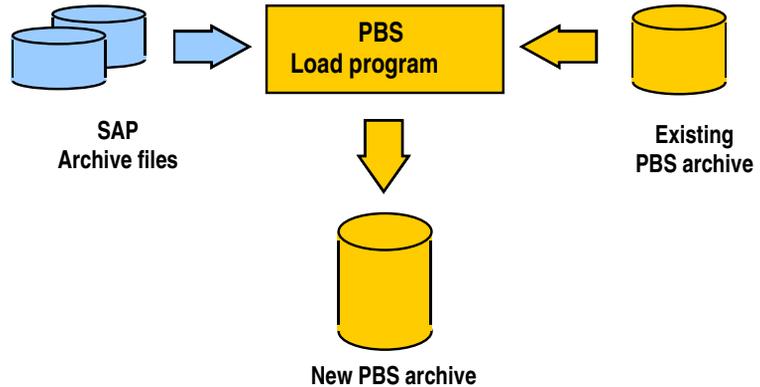


**Figure 1-3** Status of an archiving file

You can determine the status of the archive files for the various archiving runs via transaction SARA. In order to display documents correctly and during reporting via the ViewPoint CSL Module, the deletion run of the SAP archiving must have been performed successfully.

The generated SAP archiving runs are read and written into the file system of the ViewPoint CSL Module by the ViewPoint load program, as described in the *EMC ViewPoint for SAP Modules Installation Manual*. During this process, secondary indices are created in the file system to enable efficient access.

If a ViewPoint archive already exists, the load program adds the new data from the SAP archive to this already existing archive, as shown in Figure 1-4, “Construction of the ViewPoint Module.”



**Figure 1-4 Construction of the ViewPoint Module**

Once the ViewPoint archive has been constructed, it still has to be activated in the R/3 system. To do this, please run transaction /PBS/CSLA. The line items of the ViewPoint CSL Module can now be displayed with the generated display programs.

[Chapter 2, “CSL Module Archiving,”](#) describes the programs for the construction and activation of the ViewPoint CSL Module.

The generation of the display programs is described in [“Generate display programs”](#) on page 3-4.

---

This chapter includes these topics:

- ◆ Construction of the ViewPoint CSL Module.....2-2
- ◆ Load program .....2-5
- ◆ Initial load process (initial construction) .....2-7
- ◆ Activate archive.....2-10
- ◆ Further load processes (merge runs)..... 2-11
- ◆ Archive tool.....2-14
- ◆ Disk space requirement.....2-16
- ◆ Archive construction summary .....2-17
- ◆ Path definition to the ViewPoint CSL Module .....2-18

## Construction of the ViewPoint CSL Module

To archive the FI-SL line items, first use the SAP archiving tool to remove the data from the R/3 database. Call up the tool via transaction SARA. The archiving is object-oriented. FI\_SL\_DATA is the archiving object for the FI-SL line items.

You must create a variant before archiving. By doing this, the amount of the data to be archived and various options for the archiving process are determined. When creating the variant, the archiving type has to be set to line items because the ViewPoint CSL Module only processes line items. For all further settings you do not have to observe any restrictions with regard to ViewPoint, as shown in [Figure 2-1, “Maintenance of the archiving job variant.”](#)

**Processing options for line item objects**

- Archiving by account
- Archiving by doc number
- Unsorted archiving

**Output options**

- Include combination list

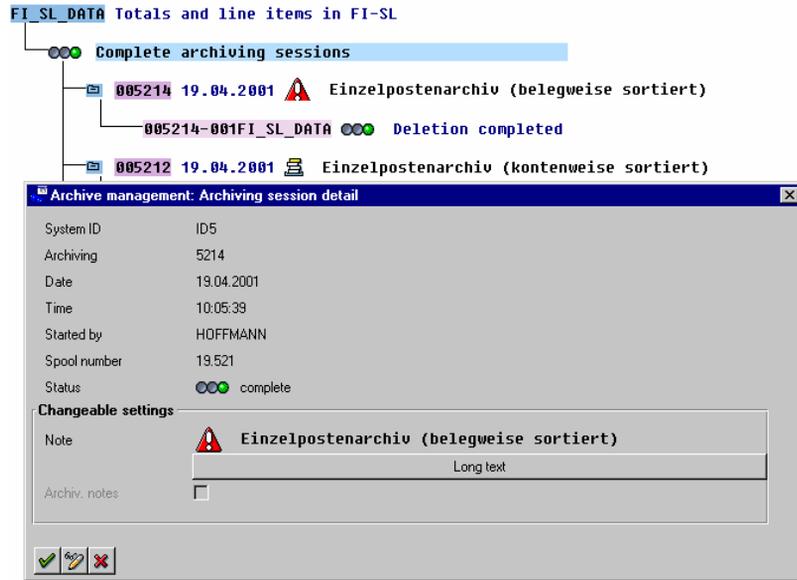
**Technical settings**

**Archiving setting**

Archiving type Only line items are archived

Figure 2-1 Maintenance of the archiving job variant

The archived data is written to sequential files outside the database by the SAP archiving program, as shown in [Figure 2-2, “Detail overview of an SAP archiving run.”](#)



**Figure 2-2** Detail overview of an SAP archiving run

The reorganized data can no longer be displayed easily using the standard transactions. The degree to which the load on the R/3 database is reduced can be measured using the ViewPoint Database Analyzer.

The SAP archives that are created can be written to the ViewPoint CSL Module using the ViewPoint load program (transaction /PBS/CSLL). The load program reads the SAP archive files, creates secondary indices and stores this data in compressed form on magnetic disks outside the database.

In this way, the archived FI-SL line items are available for online processing and can be evaluated easily using the ViewPoint transactions and reports. The ViewPoint transactions and reports correspond to the functionality of the SAP transactions and reports. However, they can read and display the resident data in the R/3 database as well as the archived data from the ViewPoint CSL Module.

As the data in the ViewPoint CSL Module is no longer changed, a regular data backup of the archive is not necessary. The SAP archive file that is created during the next reorganization of the database can be added to the existing ViewPoint CSL Module using the load program.

## Load program

The ViewPoint CSL Module enables archived FI-SL line items from R/3 to remain available for online processing. To do this, construct the ViewPoint CSL Module for the SAP archive files using the load program (transaction /PBS/CSLL). The selection screen of the load program with its delimitations, as shown in [Figure 2-3, “Selection screen of the load program.”](#)

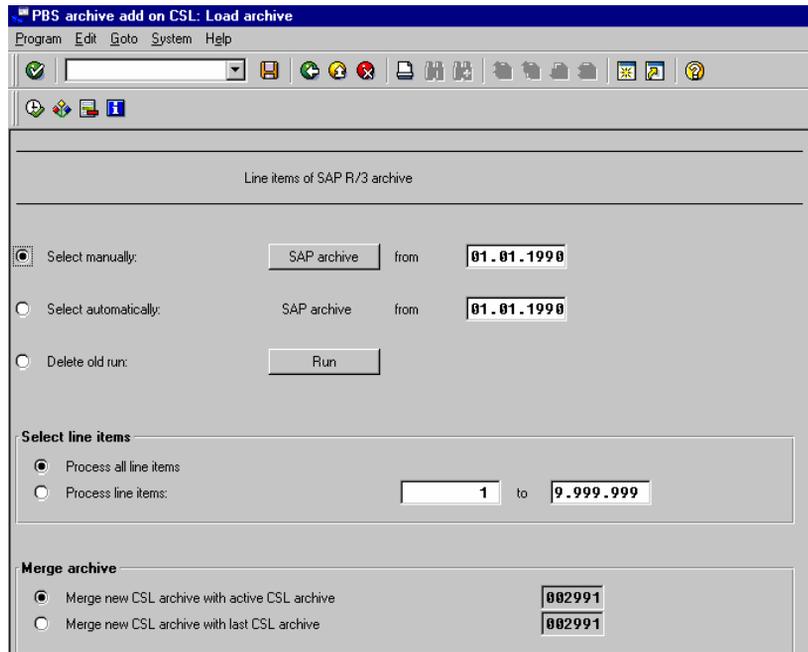


Figure 2-3 Selection screen of the load program

### Select manually

With this option the SAP archive files that are currently available can be selected by pressing the button "SAP archive".

### Select automatically

If this option is selected, all available SAP archive files that were created after the date indicated are processed automatically.

### Delete old run

With the help of this option, a list of the SAP archive files that are currently stored in the ViewPoint CSL Module is displayed after

pressing the button "Run". In this list, the runs that are to be deleted from the ViewPoint CSL Module can be selected.

---

**Process all line items**

If this option is selected, the SAP archive files that are selected automatically or manually are completely processed.

---

**Process line items: 1 to 999999999**

This option enables you to process exactly one manually selected SAP archive file in several runs. All FI-SL line items of the selected SAP archive file are "counted".

---

**Merge new CSL archive with active CSL archive**

With this option the new CSL archive will be merged with the currently active CSL archive. You can activate an archive with transaction /PBS/CSLA.

---

**Merge new CSL archive with last CSL archive**

If this option is selected, the new CSL archive will be merged with the last CSL archive. The last archive will be defined with table ADMI\_RUN.

## Initial load process (initial construction)

If all necessary entries were made in the selection screen of the load report /PBS/CSL\_LOAD, the selection screen can be stored as a selection variant for the initial construction of the ViewPoint CSL Module and the report can be started as a background process.

**Note:** The ViewPoint CSL Module has to be constructed for each client.

During run time, the program generates the ViewPoint CSL Module from the archive files. When doing this, secondary indices are created from the line items from the SAP archive. The first run will not be merged.

### Archive indices

The definition of the archive indices is copied from the indices of the line item tables from the database. The load program stores the definition of the archive indices in the ViewPoint archive. For each line item that is read from the SAP archive it is checked whether there an archive index already exists. It will only be transferred from the database if no archive index exists.

**Note:** It is recommended to perform a data backup of the created files after each construction of the ViewPoint CSL Module, but basically this is not mandatory since the load program can be restarted.

### Job protocol

After each run of the load program a statistical report is generated, which can look as follows. This statistic is also stored in the ViewPoint CSL Module and can be displayed later using the transaction /PBS/CSLS, as shown in [Figure 2-4, "Document statistic of the load program."](#)

```

User name                HOFFMANN
Date                    20.04.2001
Start-of-selection      14:04:49
Begin processing archive: 005193-001FI_SL_DATA 14:04:49
Begin processing archive: 005210-001FI_SL_DATA 14:04:49
End-of-Selection       14:04:53
Start SORT              14:04:53
End SORT                14:04:53

SAP archive files read (acquisition).....:      2
- 005193-001FI_SL_DATA
- 005210-001FI_SL_DATA
    
```

```

Records read (acquisition).....:          105
ViewPoint archive files read (stock).....:          0
Records read (stock).....:          0

Tables                                     read      processed
-----
GLU1                                       18         0
ZFRANKA                                    77        77
ZFRANKGA                                    10        10
-----

Total                                     105        87

Index                                     written from acquisition
-----
ZFRANKA                                   1          77
ZFRANKA                                   2          77
ZFRANKA                                   3          77
ZFRANKGA                                   1          10
ZFRANKGA                                   2          10
ZFRANKGA                                   3          10
-----

Total                                     261

Index                                     written total
-----
ZFRANKA                                   1          77
ZFRANKA                                   2          77
ZFRANKA                                   3          77
ZFRANKGA                                   1          10
ZFRANKGA                                   2          10
ZFRANKGA                                   3          10
-----

Total                                     261

Index table                               written total
-----
ZFRANKA                                   1          1
ZFRANKA                                   2          1
ZFRANKA                                   3          1
ZFRANKGA                                   1          1
ZFRANKGA                                   2          1
ZFRANKGA                                   3          1
-----

Total                                     6

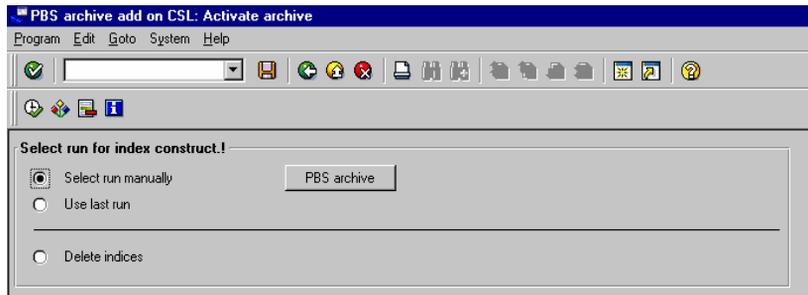
```

```
Load run of ViewPoint CSL Module finished successfully!  
Update ADMI_FILES for entry 005217-001/PBS/CSL.  
End-of-program 14:04:54
```

**Figure 2-4 Document statistic of the load program**

## Activate archive

After the ViewPoint CSL Module has been constructed using the load program, the administration table has to be loaded into the SAP R/3 system. By doing this, the ViewPoint CSL Module is activated. The transaction /PBS/CSLA can be used to update the corresponding administration table. The request screen of the report is shown in [Figure 2-5, “Request screen of the transaction /PBS/CSLA.”](#)



**Figure 2-5 Request screen of the transaction /PBS/CSLA**

The parameter "Use last run" results in the stock that was created by the last load run being activated. If old stocks exist, they can be activated by selecting them manually via the button "ViewPoint archive". The ViewPoint CSL Module can be "switched off" using the option "Delete Indices".

## Further load processes (merge runs)

After the initial load process, a ViewPoint CSL Module already exists from the last run. If the next SAP archive of FI-SL line items is to be added, this is done as described previously (initial construction).

You can select the CSL archive to merge the new run in the selection screen. The option 'Merge new CSL archive with last CSL archive' has the advantage that you do not have to activate the archive between two load processes.

Start the load program again as a batch process. A new ViewPoint archive is constructed from the selected CSL archive (stock) and the selected FI\_SL\_DATA archives (acquisition).

After a merge run the selection statistic could be as shown in [Figure 2-6, "Document statistic of the load program."](#)

```

P R O T O C O L   L O A D   P R O G R A M
-----
-----
User name                      HOFFMANN
Date                          20.04.2001
Start-of-selection             14:34:28
Begin processing archive:      005212-001FI_SL_DATA 14:34:28
End-of-Selection              14:34:30
Begin processing archive:      005217-001/PBS/CSL 14:34:30
Start SORT                    14:34:30
End SORT                      14:34:30

SAP archive files read (acquisition).....:          1
- 005212-001FI_SL_DATA
Records read (acquisition).....:                  112
ViewPoint archive files read (stock).....:         1
- 005217-001/PBS/CSL
Records read (stock).....:                        261

Tables                          read          processed
-----
GLU1                             10             0
ZFRANKA                          102            102
-----
Total                             112            102

Index                            written from acquisition
-----
-----

```

ZFRANKA	1	102
ZFRANKA	2	102
ZFRANKA	3	102

-----  
 Total 306

Index read from stock  
 -----

ZFRANKA	1	77
ZFRANKA	2	77
ZFRANKA	3	77
ZFRANKGA	1	10
ZFRANKGA	2	10
ZFRANKGA	3	10

-----  
 Total 261

Index written from stock  
 -----

ZFRANKA	1	77
ZFRANKA	2	77
ZFRANKA	3	77
ZFRANKGA	1	10
ZFRANKGA	2	10
ZFRANKGA	3	10

-----  
 Total 261

Index written total  
 -----

ZFRANKA	1	179
ZFRANKA	2	179
ZFRANKA	3	179
ZFRANKGA	1	10
ZFRANKGA	2	10
ZFRANKGA	3	10

-----  
 Total 567

Index table written total  
 -----

ZFRANKA	1	1
ZFRANKA	2	1
ZFRANKA	3	1

```

ZFRANKGA                1                1
ZFRANKGA                2                1
ZFRANKGA                3                1
-----
-----
Total                    6

```

Load run of ViewPoint CSL Module finished successfully!

ADMI\_FILES for entry 005218-001/PBS/CSL updated.

End-of-program 14:34:30

**Figure 2-6 Document statistic of the load program**

**Note:** If the load process terminates with the message ABAP/4 run time error SYSTEM\_NO\_MORE\_PAGING or EXTRACT\_NO\_MORE\_PAGING this is due to the SAP paging file being too small.

**Solution:**

1 - You can obtain an overview of the roll and paging memory occupancy by the active users and their transactions via transaction SM04, Goto -> Memory. Try to clarify whether there is another program and not the current program that requires so much memory. The transaction ST02 also displays the memory capacity.

2 - Check the two parameters 'rdisp/ROLL\_MAXFS' and 'rdisp/PG\_MAXFS' with the transaction RZ11 in the current instance profile. These values indicate the current block sizes for the roll or paging area (1 block = 8 kilo-bytes, 1 kilobyte = 1024 bytes).

3 - Compare the size of the common partition in the system for the roll and paging area with the values from transaction RZ11. If the converted value does not reach the size of the partition, the parameters 'rdisp/ROLL\_MAXFS' and 'rdisp/PG\_MAXFS' have to be adjusted according to the value of the provided partition.

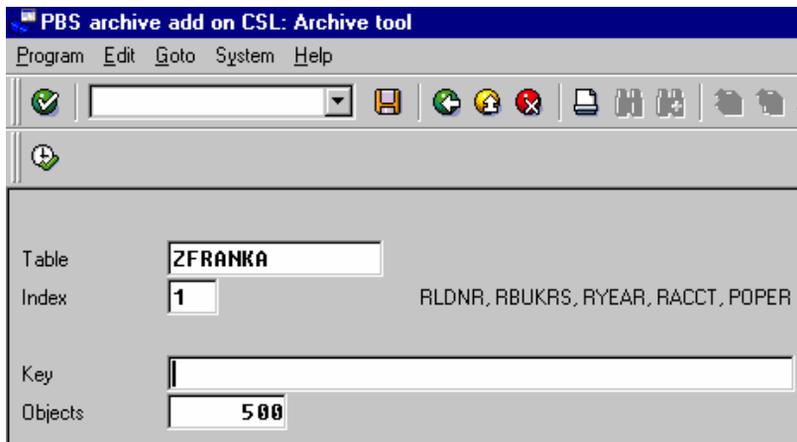
4 - Restart your system.

If the parameter has been modified, repeat the run after reloading the backup of the ViewPoint CSL Module.

In addition, we refer you to the SAP correction no. 14779 which provides more information about the error described above.

## Archive tool

The transaction /PBS/CSLS is available for the administration of the ViewPoint CSL Module, as shown in [Figure 2-7, "Selection screen of the transaction /PBS/CSLS."](#)



**Figure 2-7 Selection screen of the transaction /PBS/CSLS**

With the help of this program the secondary indices can be displayed directly from the ViewPoint CSL Module. To do this, insert a line item table in the field 'Table' of the selection screen and insert the required secondary indices in the field 'Index'. Both fields have an F4 selection help. Therefore, you can select a table and an index from the archive without a problem.

After starting the transaction using the F8 key, a basic list of the objects of the secondary index is displayed. The indices for the object can be displayed via the function button 'Select' or by double-clicking on an object.

If you select "/PBS/CSL\_ LOG" ("ZZSL\_LOG") in the field 'Table', the runs of load programs already carried out are listed. From this list you can select by double-click the run for which the document statistic is to be displayed.

The content of the run table is displayed when "/PBS/CSL\_ LAUF" ("ZZSL\_LAUF") is selected in the field 'Table'.

With "/PBS/CSL\_IDXF" ("ZZSL\_IDXF"), the indices available in the archive can be displayed with index fields, as shown in [Figure 2-8](#), "Contents of an object: Secondary indices."

The screenshot shows a window titled "PBS archive add on CSL: Archive tool" with a menu bar (System, Help) and a toolbar. The main content area displays a table of indices with the following columns: RLDNR, RBUKRS, RYEAR, RACCT, POPER, ARCHIVEKEY, OFFSET, and LINE. The table contains 16 rows of data, each representing a secondary index entry.

RLDNR	RBUKRS	RYEAR	RACCT	POPER	ARCHIVEKEY	OFFSET	LINE
ZF	1000	2001	0000100000	001	005193-001FI_SL_DATA	671.042	000002
ZF	1000	2001	0000100000	001	005193-001FI_SL_DATA	671.647	000002
ZF	1000	2001	0000100000	001	005193-001FI_SL_DATA	675.441	000002
ZF	1000	2001	0000100000	001	005193-001FI_SL_DATA	674.796	000004
ZF	1000	2001	0000100000	001	005193-001FI_SL_DATA	674.796	000003
ZF	1000	2001	0000100000	001	005193-001FI_SL_DATA	676.558	000008
ZF	1000	2001	0000100000	001	005193-001FI_SL_DATA	676.558	000006
ZF	1000	2001	0000100000	001	005193-001FI_SL_DATA	670.039	000002
ZF	1000	2001	0000100000	001	005193-001FI_SL_DATA	670.541	000002
ZF	1000	2001	0000100000	001	005193-001FI_SL_DATA	676.558	000002
ZF	1000	2001	0000100000	001	005193-001FI_SL_DATA	672.833	000008
ZF	1000	2001	0000100000	001	005193-001FI_SL_DATA	673.490	000002
ZF	1000	2001	0000100000	001	005193-001FI_SL_DATA	673.490	000007
ZF	1000	2001	0000100000	001	005193-001FI_SL_DATA	673.141	000002

Figure 2-8 Contents of an object: Secondary indices

## Disk space requirement

The ViewPoint CSL Module for FI-SL line items is constructed in database-independent file systems. The system administrator's task here is to reserve free memory capacity for construction of the archive.

The amount of disk space to be made available depends on the number of line items that are to be kept in the SAP archive. For each line item, different secondary indices are transferred into the ViewPoint archive. The definition of the indices is copied from the database. If archive indices were once created for a line item table, they can no longer be changed. Therefore, the disk space requirement for a line item can be calculated after the first load run.

## Archive construction summary

Reorganization of the database with the SAP transaction 'SARA' for the archiving object FI\_SL\_DATA.

Loading of the SAP archive files of the archiving object FI\_SL\_DATA into the ViewPoint CSL Module using the transaction /PBS/CSLL.

The ViewPoint CSL Module has to be activated with transaction /PBS/CSLA.

Access to the archive can be tested with the transaction /PBS/CSLS.

## Path definition to the ViewPoint CSL Module

The ViewPoint CSL Module contains a load program that is assigned to an archiving object.

4.x: /PBS/CSL — ViewPoint CSL Module — Line items in FI-SL

3.x: ZCSL — ViewPoint CSL Module — Line items in FI-SL

A logical file name, which represents a physical data path, is assigned to the archiving objects in SAP Customizing. The CSL load program creates all index files under this path.

The archiving object of the ViewPoint CSL Module will be delivered with the logical file name 'ARCHIVE\_DATA\_FILE'. You have to change the logical file name in order to store the index files in another path.

The Customizing settings of the ViewPoint archive objects can be modified via the transaction SARA.

> **SARA** > **Customizing** > **Technical Settings**