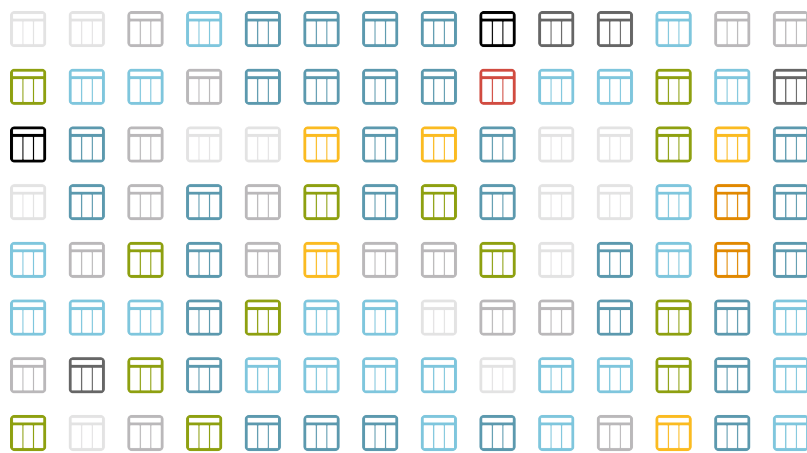




SNP System Scan

User Guide



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1 Additional Information

This document and SNP System Scan belong to the product SNP Transformation Backbone®. Read the corresponding chapters carefully before you start working with SNP System Scan.

Support

Contact SNP Support if you require help when installing or using SNP System Scan.

- » E-mail: support@snpgroup.com
- » Internet: <https://support.snp-ag.com/>

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SNP System Scan and all accompanying documentation are the intellectual property of SNP Schneider-Neureither & Partner SE.

Note

You can find information on frequently asked questions, for example about personal data or system utilization, in the [FAQs and Troubleshooting](#) chapter.

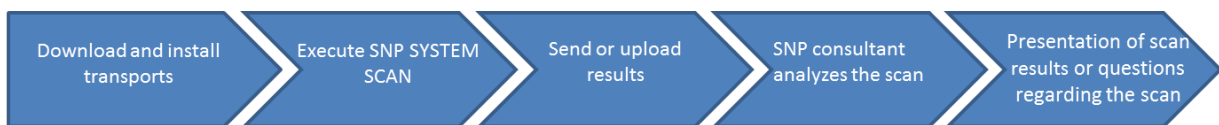
2 Overview

SNP System Scan is designed to determine essential statistical and structural information about your SAP® ERP system.

The system scan generates an evaluation that provides a comprehensive overview of your system. The focus is on system usage, for example the scope of the organizational structure, how intensively your system is used, or which modules are used in your system. Furthermore, you can compare multiple scans from different systems or clients.

SNP System Scan is particularly useful for preparing transformation projects and anticipating the complexity of your project. SNP System Scan provides answers to key questions in these areas. For example, it tells you to what extent the transformation rule base of SNP Transformation Backbone® needs to be extended in order to transform all relevant tables and data objects. Based on the evaluation, SNP Schneider-Neureither & Partner SE can create a qualified offer that covers your business landscape transformation requirements.

The system scan process is as follows:



3 System Requirements

SNP System Scan supports SAP[®] R/3, SAP-ERP[®]- and SAP S/4HANA[®]-systems as of version 4.6c.

For systems as of 4.0b, a limited version (release 9.07) is available. You can request this version from SNP Support.

4 Users and Authorizations

Assign the role `/SNP/SC` to the current user.

5 Installation

The following steps are a SAP® standard process in day-to-day SAP® Basis administration. Therefore, contact your SAP® Basis administrator to install SNP System Scan.

Proceed as follows to install SNP System Scan:

1. Download the current transport for SNP System Scan under <https://service.snp-ag.com/systemscan>.
2. Unpack the ZIP file in your file system.
3. Copy the data file (the larger of the two) to the directory `/USR/SAP/TRANS/DATA` of your SAP® R/3 system.
4. Copy the co file (the smaller of the two) to the directory `/USR/SAP/TRANS/COFILES` of your SAP® R/3 system.
5. Log in using the SAP® GUI.



To do this, you need special authorizations.

6. Start transaction **STMS**.
7. Press **F5** to switch to the import overview.
8. Double-click the corresponding import queue.
9. In the menu bar, click **Extras > Other Requests > Add** to add the transport to the import queue.
10. Press **F5** to refresh the import queue view.
11. Click **Import request**.
 - » You have uninstalled SNP System Scan from your SAP® system.

6 Creating Indexes

Some tables in the SAP® system contain a large number of entries. Querying these entries in the detail analysis increases the runtime and can lead to problems or program terminations. To prevent this, we recommend that you create an index on certain table fields. This reduces the runtime and prevents frequent program terminations.

If certain tables often cause problems, we recommend that you create an index on them. After the system scan is completed successfully, we recommend that you remove the index again, otherwise delays might occur in the system.

We recommend that you create an index on the following tables:

- » **COBK:** MANDT, KOKRS
- » **BKPF:** MANDT, GJAHR
- » **VBAK:** MANDT, VBTYP
- » **AUFK:** MANDT, AUTYP

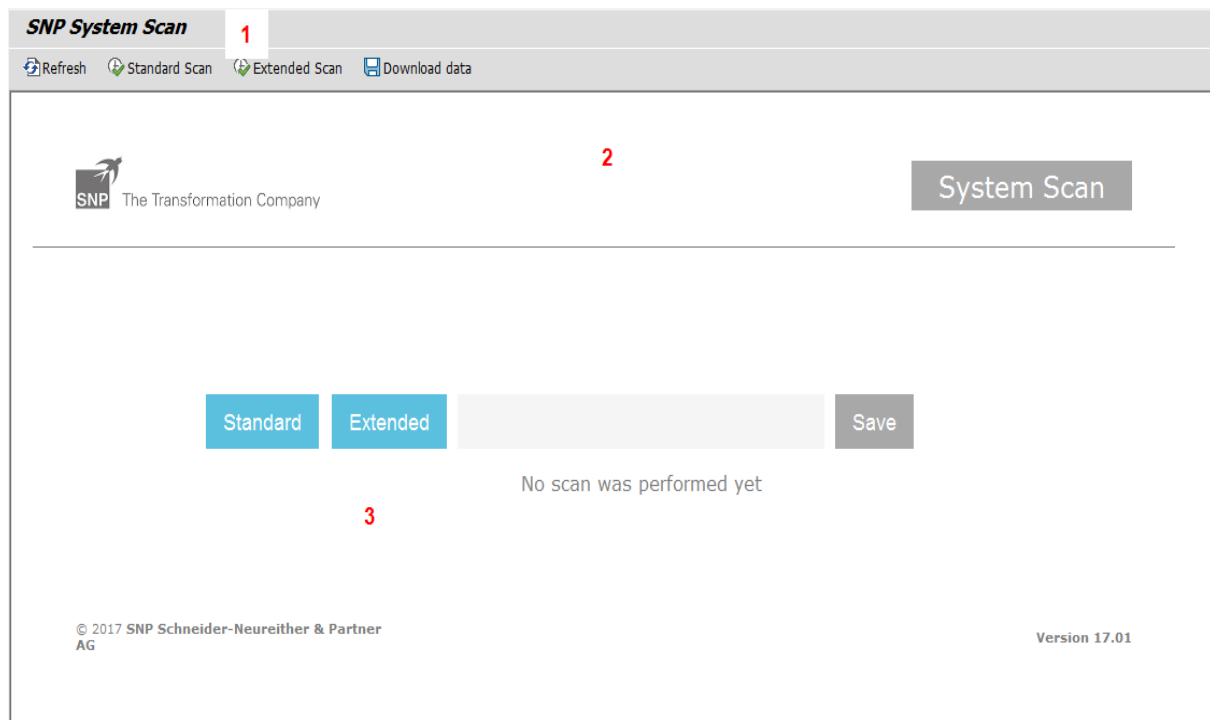
7 Performing System Scans

This chapter provides information on performing and processing a system scan:





- » "SNP System Scan User Interface" below
- » "Starting a System Scan" on the next page
- » "Performing a System Scan Manually" on page 12

7.1 SNP System Scan User Interface

After starting the transaction `/N/SNP/SC` (SNP System Scan), the following user interface appears:





Area	Description
1	<p>Menu bar</p> <p>The Go to menu contains the following functions:</p> <ul style="list-style-type: none"> » Run Scan Manually (Standard or Extended) » Manage system scan results

Area	Description
	» The menu bar corresponds to the SAP® standard in all other respects.
2	SNP System Scan toolbar <ul style="list-style-type: none"> »  Refresh: Refreshes the view of the transaction »  Standard Scan: Starts the Standard Scan »  Extended Scan: Starts the Extended Scan »  Download data: Saves the results of the scan locally in a file
3	SNP System Scan user interface <p>The following functions are available:</p> <ul style="list-style-type: none"> » Start/restart Standard or Extended System Scan » Save the results as a file

7.2 Starting a System Scan

Proceed as follows to start a system scan:

1. Use the SAP® GUI to log in to the client of the SAP® R/3 system where you want to perform the system scan.
2. Start transaction `/N/SNP/SC`.
3. Click
 - a.  **Standard Scan.**
 - b.  **Extended Scan.**

Note

The Standard Scan extracts all the data that your SNP contact person needs to create an offer for you. The Extended Scan contains more detailed data in order to gain a deeper insight into your system. Compared to the Standard Scan, the Extended Scan might have a longer runtime.

- » The system scan has been started.

7.3 Performing a System Scan Manually

It is possible to perform a system scan manually. This allows you to adapt the configuration of the scan to your needs.

Proceed as follows to perform a system scan manually:

1. Start transaction **/N/SNP/SC**.
2. In the **Go to** menu, select either **Run Scan Manually > Standard Scan** or **Run Scan Manually > Extended Scan** depending on what your SNP contact person recommends.

Note

The modes differ with respect to the quantity of extracted data. The mode **Standard Scan** has a short runtime. It is the optimal mode for sales purposes and contains all the information necessary to create an offer. The mode **Extended Scan** extracts additional data that is relevant to consulting and migration projects and therefore has a longer runtime. It is used to perform more detailed evaluations.

» The configuration view opens.

3. Adjust the settings.

Note

You can open a description of an individual parameter by selecting the relevant parameter and pressing **F1**.

Note

If you adjust additional settings that are disabled in the standard configuration, this can result in long runtimes.

Note

You can add additional parameters via **Go to > Expert mode**.

4. Click  **Schedule scan in background**.

- » You have started the manual scan in the background.
- » You will be directed to the main page of SNP System Scan.

8 Managing Scan Results

This chapter provides information on managing system scans you have performed.

In the "The Results Management Area" below, you can view previous scans and display or download their results.

You can provide your SNP contact person with the results of a system scan in the following ways:

- » Uploading to the SNP System Scan Portal
- » Sending the results via e-mail (directly to your SNP contact person)



Note

We recommend sending files via e-mail.



8.1 The Results Management Area



The results management area displays the system scans that you have performed so far. The results management area contains different actions that you can apply to the scan results.

Proceed as follows to open the results management area:

1. Start transaction **/N/SNP/SC**.
2. In the menu bar, click **Go to > Manage system scan results**.
 - » The results management area opens.
 - » The results management area shows results in a table. The current user and the client on which the scan was performed are displayed for each scan. In addition, the start and end date, the start and end time, the runtime of the scan, and the status are displayed.

8.1.1 Functions

Function	Description
 Download	Opens a window for downloading the scan results
 Joblog	Displays the job log of the corresponding scan

Function	Description
 Print Out Results	Displays a print-out of the scan result in its raw format
 Hierarchical Display	Displays the scan result in a hierarchical tree structure


8.2 Downloading Results

Once the system scan is complete, it is necessary to download the system scan results and make them available to your SNP contact person.

Prerequisites

- » A system scan was completed successfully.

Proceed as follows to download the results:

1. Start transaction **/N/SNP/SC**.
2. Click  **Download data**.
- » The **Compress result** query opens.
3. Confirm the query with **Yes** in order to download the compressed file.

Note

If an error occurs when compressing the file, try again. If the error occurs another time, click **no** when asked to compress the file. Following that, create a ZIP archive of the files and e-mail it to your SNP contact person.

4. Choose a storage location.

Note

The file extension **.snp** is absolutely necessary because otherwise the file becomes unusable and cannot be evaluated.

5. Click **Save**.
6. Click **Transfer**.

- » The file is exported to the storage location you specified.

Note

If you performed a Standard Scan, a query opens asking whether you want to proceed with the Extended Scan. Do what your SNP contact person recommends.

- » Proceed with [sending](#) or [uploading](#) the scan files.

8.3 Sending Results via E-mail

After you have performed the system scan, e-mail the result file to your SNP contact person. They will get in touch with you for the next steps.

8.4 Uploading Results via the SNP Service Portal


You have performed the system scan and want to forward the result file to your SNP contact person by uploading it to the SNP Service Portal.

Proceed as follows to upload the results:

1. [Log in to the SNP Service Portal.](#)
2. In the **Further Resources** area, click the link to the SNP System Scan Portal.
 - » The **SNP System Scan** page opens.
3. In the navigation area, click **Administrate projects**.
4. Click **Select** in the row of the project.
 - » The administration area for the selected project opens.
5. Switch to the **Scan results** tab.
6. In the **Upload new scans** area, click **Select file**.
7. Select the SNP System Scan file.
8. Click **Open**.
9. Click **Upload**.

Note

You can only upload files with the file extension **.snp**. If your file has another

 file extension, it is probably packed in an archive. Unpack the file(s) before uploading it/them.

- » The file has been uploaded.
- » Your SNP contact person will get in touch with you.

9 Downloading Uninstall Transports

If you have scanned and analyzed your system and no longer require SNP System Scan, you can uninstall the product. For this purpose, we provide uninstall transports. You can either request the uninstall transport from your SNP contact person via e-mail or download it from the SNP System Scan Portal.

Proceed as follows to download the uninstall transport from the SNP System Scan Portal:

1. Log in to the SNP System Scan Portal.
2. Click **5. Uninstall Transports**.
 - » The **Uninstall transports** page opens.
3. Click the link in step 1.
4. Choose a storage location.
5. Click **Save**.
 - » The uninstall transport has been downloaded.

10 Uninstalling SNP System Scan

This chapter provides information on removing SNP System Scan from your SAP® system.

Prerequisites

- » You have received an uninstall transport from your SNP contact person or
- » [You have downloaded an uninstall transport from the SNP System Scan Portal.](#)

Proceed as follows to uninstall SNP System Scan:

1. Unpack the ZIP file in your file system.
2. Copy the data file (the larger of the two) to the directory `/USR/SAP/TRANS/DATA` of your SAP® R/3 system.
3. Copy the co file (the smaller of the two) to the directory `/USR/SAP/TRANS/COFILES` of your SAP® R/3 system.
4. Log in using the SAP® GUI.



To do this, you need special authorizations.

5. Start transaction **STMS**.
 6. Press **F5** to switch to the import overview.
 7. Double-click the corresponding import queue.
 8. In the menu bar, click **Extras > Other Requests > Add** to add the transport to the import queue.
 9. Press **F5** to refresh the import queue view.
 10. Click **Import request**.
- » You have removed SNP System Scan from your SAP® system.

11 FAQs and Troubleshooting

This chapter provides information on issues and frequently asked questions concerning SNP System Scan.

11.1 Impact on the System

The namespace `/SNP/` is exclusively reserved for SNP Schneider-Neureither & Partner SE. This exclusive SAP namespace allows us to develop components and solutions for SAP® products without having to agree on naming conventions with third parties. We can therefore deploy components and solutions in external SAP® systems and import external products into our own systems without the risk of naming conflicts.

The system scan does not write data to SAP® standard tables or other tables. It only writes data to the SNP namespace (this also includes the caching mechanism).

SNP System Scan only uses a background process to perform a system scan.

Using an exclusive namespace makes it possible to uninstall SNP System Scan with a standard uninstall transport (see the chapters [Downloading Uninstall Transports](#) and [Uninstalling SNP System Scan](#)).

11.2 Personal Data

This chapter contains links to an example of system scan evaluation and an explanation of the basics of SNP System Scan. The example evaluation provides a detailed view of which information is determined.

11.2.1 SNP System Scan Example Evaluation

Overview

1. Click the following link: https://service.snp-ag.com/learn/demos.php?product=snp_system_scan.
2. Scroll down to the entry **SNP System Scan result (report)**.
3. Click **Demo**.

User Administration

1. Click the following link: https://service.snp-ag.com/learn/demos.php?product=snp_system_scan.
2. Scroll down to the entry **SNP System Scan result (report)**.
3. Click **Demo**.
4. Click **User administration**.

The name of the person who runs SNP System Scan on your SAP® system is the only personal information determined. In addition, the software collects aggregated data but no further personal data, provided that master data and transaction data have been divided as defined in the SAP® standard. Aggregated data includes the number of users and user roles, for example.

Note

If the organizational structures (e.g. sales or purchasing organizations) of your company are set up based on personal data, personal data might be included in the analysis result. The collection of personal data can be excluded by parameterizing the analysis run.

For technical reasons due to third-party developments or in-house developments on the analyzed SAP® system, we cannot completely rule out that data might be analyzed beyond the intended scope. Nevertheless, determining this information is absolutely necessary because a transformation project cannot be carried out if the required data is not available. This includes data structures that you want to analyze, migrate, harmonize, convert, verify or mask. In case of doubts, the analysis of user data can be excluded from a scan by performing the system scan in expert mode. However, this reduces the quality of the system scan result significantly.

If you do not want to send the scan result via e-mail, you can directly upload the result file to the SNP System Scan Portal after successfully performing a system scan (see [Uploading Results via the SNP Service Portal](#)).

The results uploaded to the SNP System Scan Portal are only visible to the relevant customer and consultant responsible for the SNP System Scan project.

11.3 Missing Authorizations

If you have problems performing the system scan or downloading the results, your authorizations are probably severely restricted. You only need a few authorizations to use SNP System Scan.

To solve this problem, ask your SAP® Basis administrator to assign the role **/SNP/SC** to you. This role is delivered together with SNP System Scan and contains all the required authorizations. However, the SNP System Scan transport must then be imported into all clients in the system because the role can only be installed on a client-dependent basis. To apply the changes, the profile of the role must then be regenerated with transaction **SU01** or **PFCG**. Log out of the SAP® system completely and log in again.

11.4 Inconsistent Tables

The error *DDIC_TYPE_REF_ACCESS_ERROR* during a system scan indicates inconsistent tables in your system. This is shown by the error description below or a similar description.

There is an error in the structure description of the Dictionary type "SI_COLFILER". The type references the type "DFKKCOLFILE_P_W" Error type: "referred type not found"

The tables in question were not enabled correctly. As a result, they trigger a short dump when they are accessed (even with standard transactions such as **SE16**). In such a case, start the system scan with preconfigured parameters. In the menu bar, click **Go to > Expert mode** to switch to the screen for detailed parameterization. Select the **Check nametabs?** option. The system scan now performs additional checks before accessing tables.

Note

These checks are very resource-intensive. Disable the option if you are sure that your system does not contain any inconsistent tables.

11.5 Storage Location of Result Data

There are two alternative modes for running SNP System Scan: **Spool** and **File on application server**. The mode determines where temporary data resulting from the analyses is stored. By default, a text file is written to the working directory of the SAP® Application Server (**/usr/sap/<SYSTEM_ID>/<INSTANCE>/work**). This requires fewer resources (main memory and disk space) compared with spool mode. The files usually have a size of about 30 MB. In exceptional cases (e.g. when performing a potential analysis), the file size can reach up to 200 MB.


Use spool mode only if the authorizations of the user performing the scan are not sufficient to write data to the working directory of the SAP® Application Server.

11.6 Excluding Database Statistics During Scans

SNP System Scan obtains and uses statistics generated by the database that underlies the system being analyzed.

If problems occur when querying database statistics, you can disable this query. The corresponding parameter is enabled by default, i.e. the database statistics are determined. If you disable this parameter, the following areas are partially restricted: Add-ons, Business Object Repository, SAP tables, customer tables. In addition, the general information on the database size is obtained by other means; this different calculation method can lead to differing results in the **General Information** area.

Proceed as follows to avoid generating database statistics:

1. Start transaction **/N/SNP/SC**.
 2. In the menu bar, click **Go to > Run Scan Manually > Standard Scan**.
 3. In the menu bar, click **Go to > Expert mode**.
 4. In the area **Detailed param. > Produce DB statistics?**, select the option **Determine DB statistics?**.
 5. *Optional:* Change additional parameters.
 6. Click  **Schedule scan in background**.
- » The system scan is performed.

12 Company Information

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