



Installation Guide CheckAud® for SAP Systems 2025.2

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Chapter I - Installation notes

I Installation notes

I - 1 System requirements

To install CheckAud 2025.2, you require one of the Windows versions listed in the table below. The use of a 64-bit version of Windows is recommended but is not mandatory. In addition, Microsoft .net Framework 4.8 is a minimum requirement for running CheckAud 2025.2.

Version	Service Pack / Note	Remarks
Windows 8.1	-	only Pro und Enterprise
Windows 10	since 1607 inkl. 2016 LTSC & 2019 LTSC	only Pro und Enterprise
Windows 11	-	only Pro und Enterprise
Windows Server 2012	-	not „Server Core“
Windows Server 2012 R2	-	not „Server Core“
Windows Server 2016	RTM (=1607), 1709 & 1803	not „Server Core“
Windows Server 2019	since 1809 inkl. 1903, 1909, 2004 & 20H2	not „Server Core“
Windows Server 2022	-	not „Server Core“

If you intend to post-edit the evaluation results from CheckAud, we recommend installing a Microsoft Office package (Office 2010 or later).

I - 2 Recommended hardware

We recommend at least 4 GB of physical memory (RAM) to use CheckAud 2025.2. For fast analysis of larger SAP systems (containing several thousand users or several hundred thousand authorizations, for example), a minimum of 6 GB is recommended. The use of the latest Intel Core processors is recommended but is not required. The installation path should be on a local hard disk. The use of an SSD is not required.

I - 3 Use in virtual environments / CITRIX / Terminal Server

Although CheckAud 2025.2 can generally be used on network storage systems, access to NAS/SAN systems impairs performance significantly due to the large amounts of data to be analyzed. For this reason, we recommend installing CheckAud 2025.2 on a physical hard disk connected directly to the system. For installation in a virtual environment, you must ensure that the operating system has exclusive physical access to the main memory mentioned above.

An installation of CheckScan 2025.2 or CheckAud 2025.2 on a CITRIX or terminal server environment is possible. A local installation of the CheckAud database on each server has to be ensured because CheckAud doesn't support multi user access on the database and UNC paths.

A simultaneous access of multiple users on one CheckAud database is not recommended.

I - 4 Use of anti-virus software products

As a basic principle, the use of "on-access" virus scanners poses no problem for 2025.2. However, for reasons of performance and stability, the host process of the internal database and its data directory must be excluded from the scan. In isolated cases, the virus scanner may have to be fully uninstalled (or switched to a newer version or different product) to use CheckAud 2025.2.

Chapter II - Preparing the installation of CheckAud 2025.2

II Preparing the installation of CheckAud 2025.2

This chapter describes the steps for a first installation of CheckAud 2025.2. The system requirements are described in chapter *Installation notes*.

II - 1 Installation via software distribution

The distribution of the CheckAud software through third-party provider solutions is not supported. You must perform a local installation using the supplied setup routine.

II - 2 Silent installation

A silent installation can be performed by *CASA2025.2-Buildnumber.exe* with the following parameters:

```
CASA2025.2-Buildnumber.exe /exelang <language-code> /qn [parameter]
```

Language Codes:

1031 (German)

1033 (English)

Parameter:

DATABASE_PATH="C:\ProgramData\CheckAud GRC Software\for SAP Systems\Database\" (directory for database content)

DATABASE_PORT=5433 (TCP port for the database service; can only be reached locally)

You can also create a log file for the installation; the following parameters are available to do so:

```
CASA2025.2-Buildnumber.exe /L *VX setup.txt
```

II - 3 Preparing the system

Microsoft .NET Framework 4.8 (Offlineinstaller)

<https://support.microsoft.com/de-de/help/4503548/microsoft-net-framework-4-8-offline-installer-for-windows>

To perform the silent installation of CheckAud 2025.2 you also require Microsoft Visual C++ 2015-2022 Redistributable x64 (Version 14.32.31326 or higher).

<https://learn.microsoft.com/en-us/cpp/windows/latest-supported-vc-redist>

Furthermore, in systems whose "trusted third-party provider certificate list" is not subject to automatic update via the internet, a DigiCert root certificate must be installed before setting up CheckAud 2025.2.

The DigiCert root certificate is required to validate the authenticity of the CheckAud 2025.2 setup.

The certificate in question is the "DigiCert Trusted Root G4" certificate.

The certificate is available at the following link:

<https://www.digicert.com/digicert-root-certificates.htm>

Chapter III - Installation

III Installation

III - 1 Installing CheckScan 2025.2 (Scan module)

The data capture module from the SAP system, the scan module, is provided separately as an installation package. Proceed as follows for the installation:

You can select your desired language for the installation:

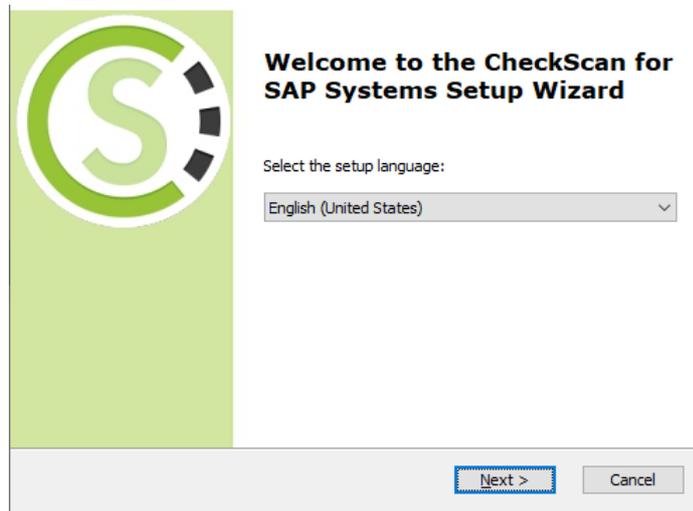


Figure 1 - Selecting the language for the installation

Choose *Next* to begin the installation with the setup wizard

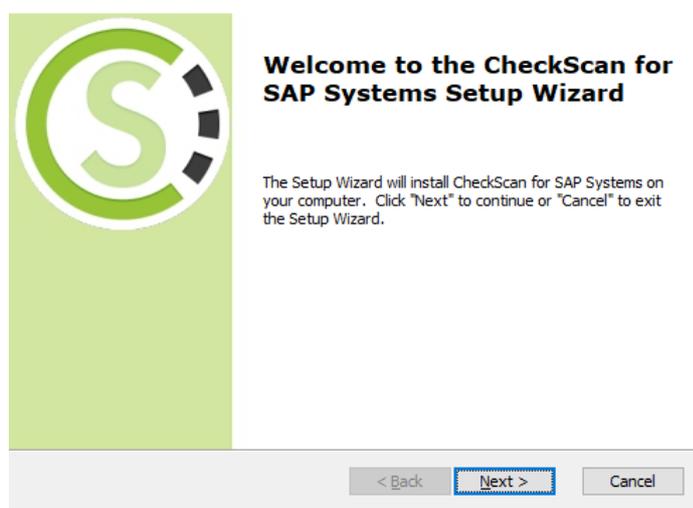


Figure 2 - Starting the installation wizard

Confirm the notes to the actual release with *Next*:

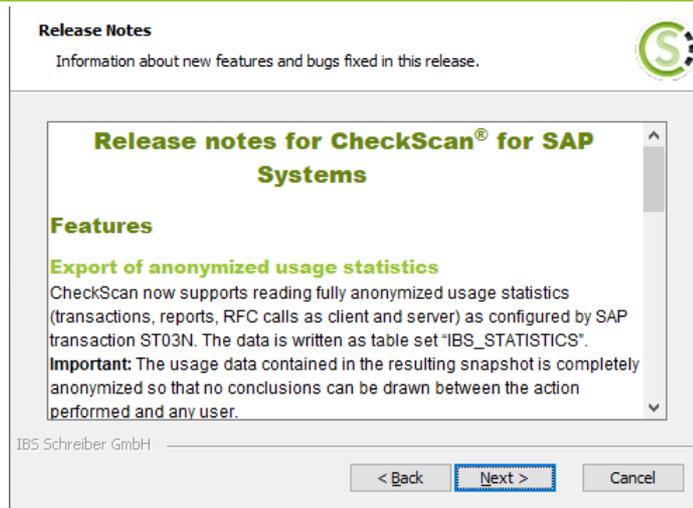


Figure 3 - Notes to the release

Select the radio button *I accept the terms in the licensing agreement*

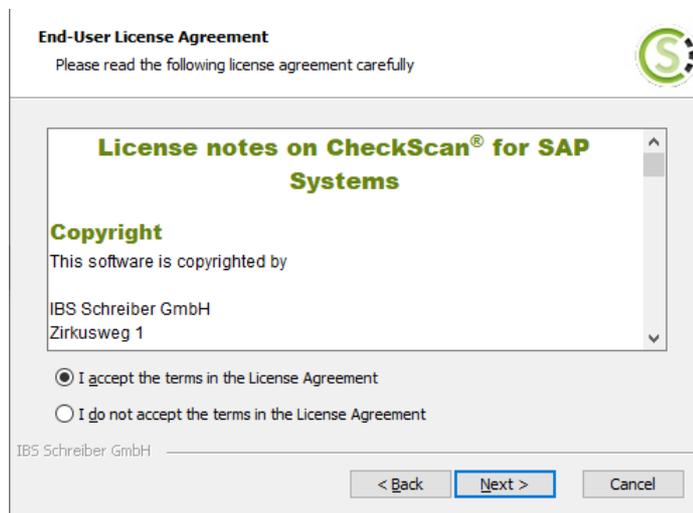


Figure 4 - Accept license agreements

Choose *Next*

The following dialog asks, how the installation should be executed, only for the logged on user or for all users on this computer:

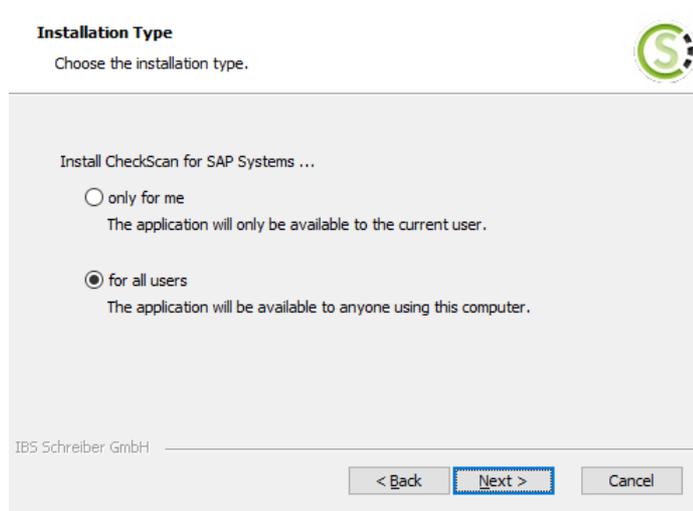


Figure 5 - Choose installation mode

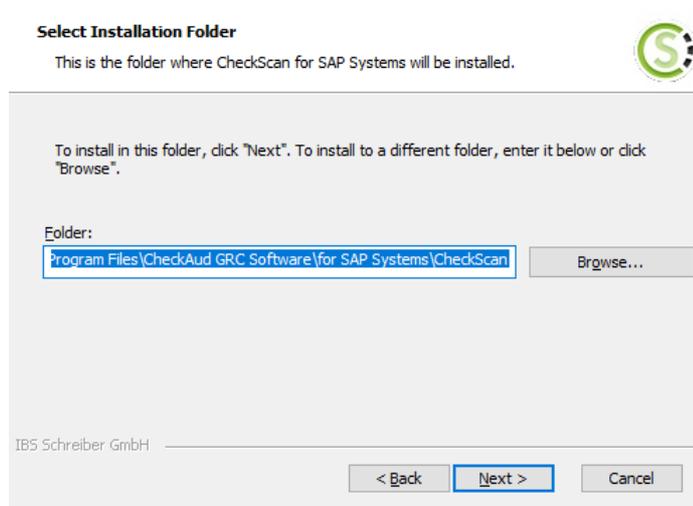


Figure 6 - Choose installation path

You can select the installation path of your choice. As a default option, the scan module is installed under:

C:\Program Files\CheckAud GRC Software\for SAP Systems\CheckScan

Choose *Install* to start the installation.

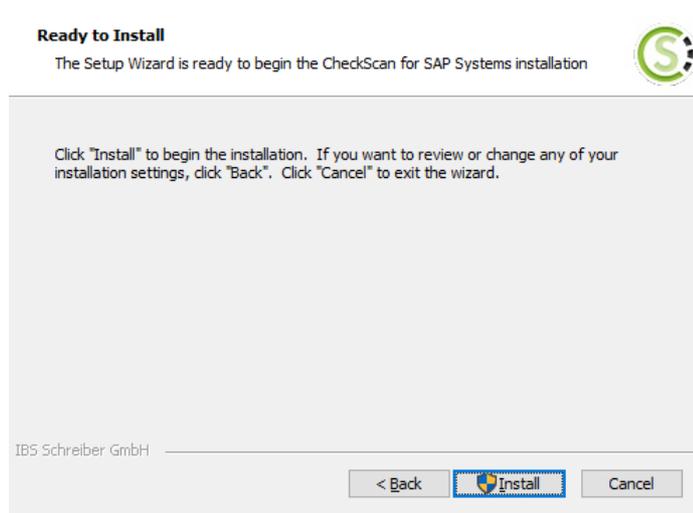


Figure 7 - Completing the preparations for the installation

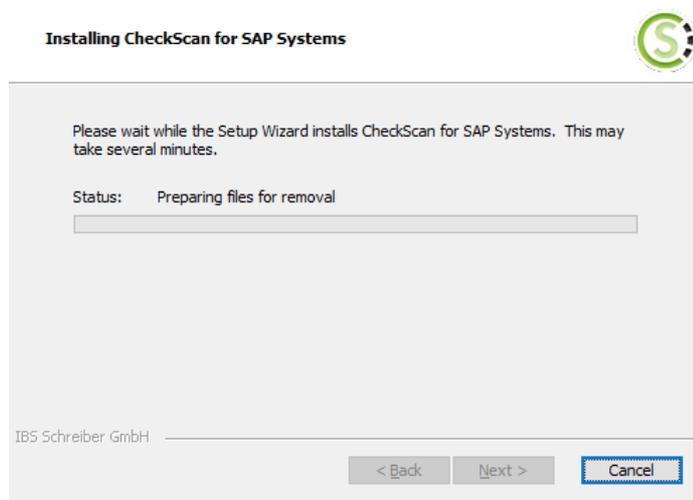


Figure 8 - Performing the installation

Successfully completed CheckScan installation:

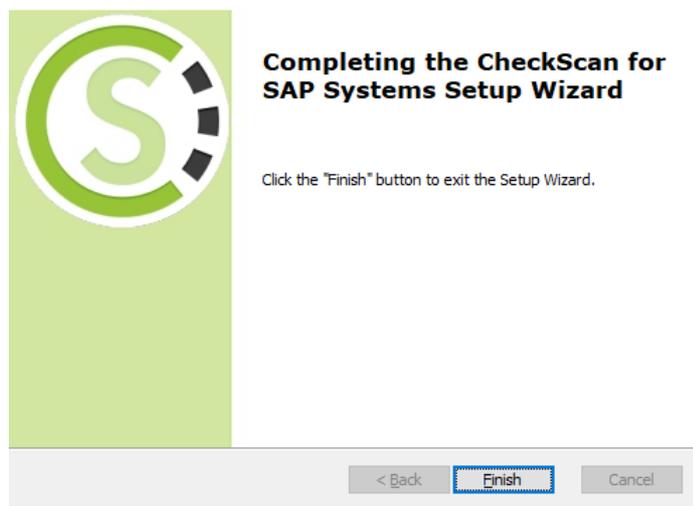


Figure 9 - Installation complete

III - 2 Installing CheckAud 2025.2 (Evaluation module)

The installation file contains the complete 2025.2 installation and setup. Proceed as follows to perform the installation:

Select your preferred language for the installation.

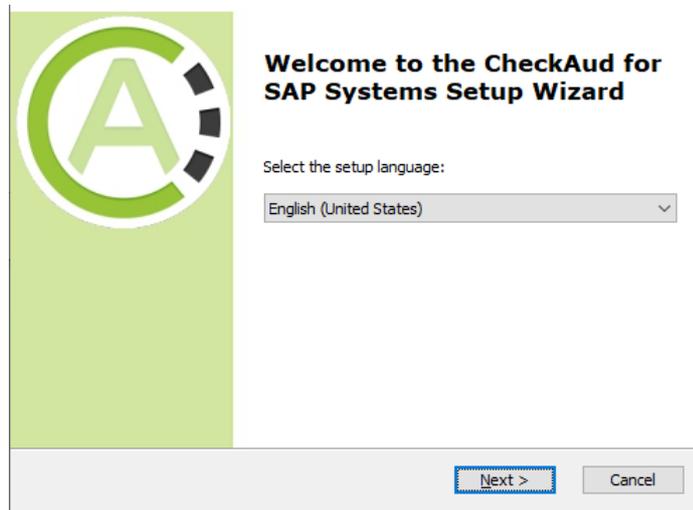


Figure 10 - Selecting the language for the installation

Choose *Next* to begin the installation with the setup wizard.

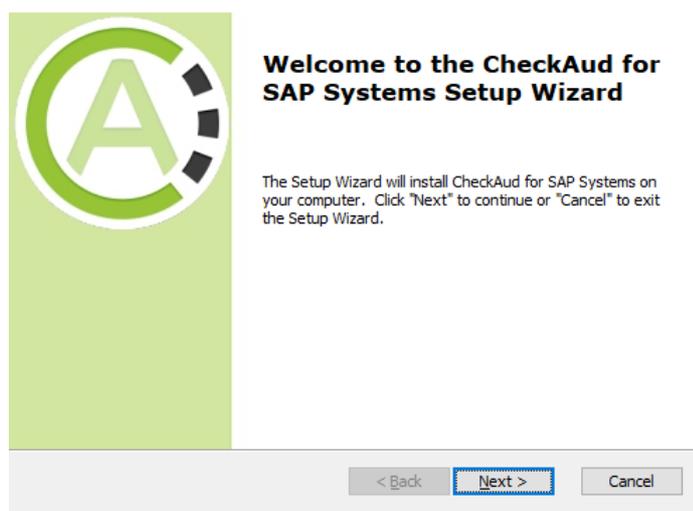


Figure 11 - Setup wizard

Confirm the notes to the actual release with Next:

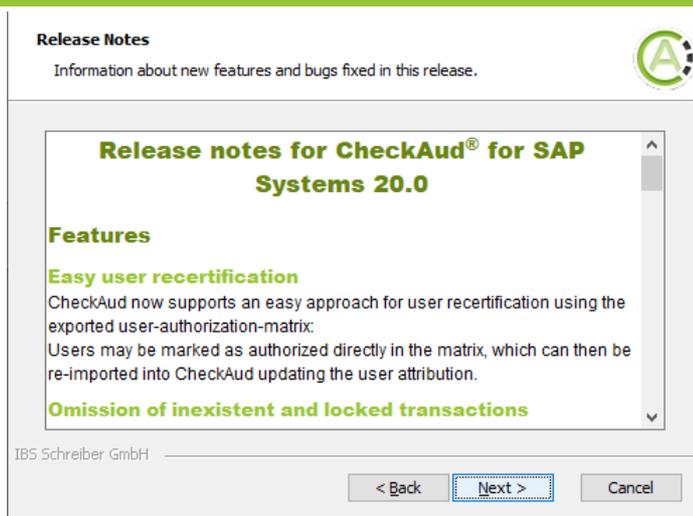


Figure 12 - Notes to the release

Select the radio button I accept the terms in the licensing agreement

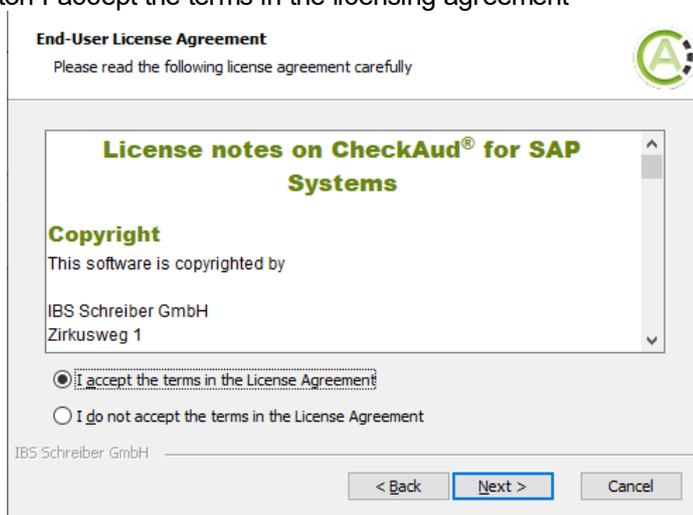


Figure 13 - Accept license agreements

Choose *Next*.

Choose a directory for the CheckAud 2025.2. Note the following when doing so:

- The path should be on a local drive
- UNC paths are generally not permitted
- Network drives connected by a drive letter should be avoided

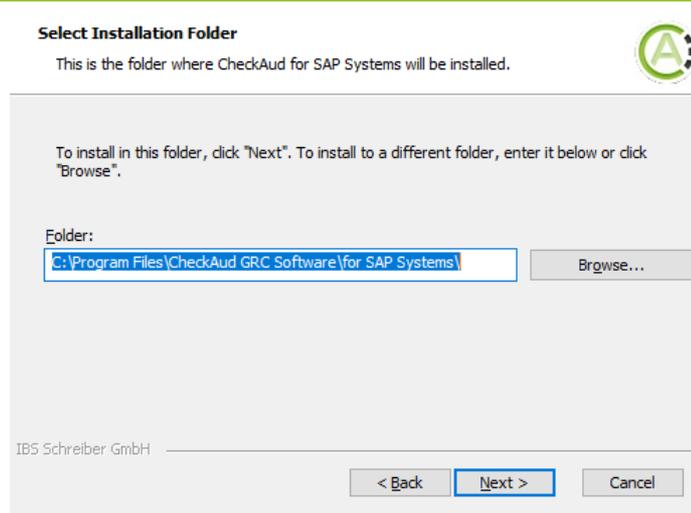


Figure 14 - Installation directory

Choose *Next*.

Now select a directory for installing the database content. Note the following when doing so:

- The path should be on a local drive
- UNC paths are generally not permitted
- Network drives connected by a drive letter should be avoided
- When choosing the installation path, you must ensure that the database directory is not under the installation directory for the CheckAud installation

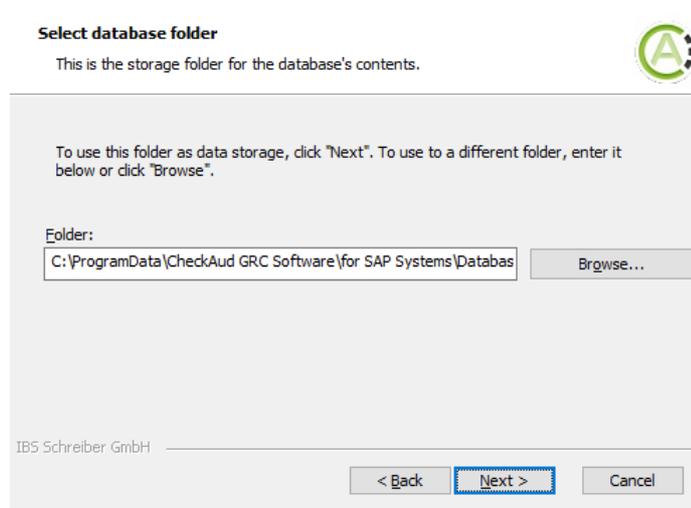


Figure 15 - Database directory

Choose *Next*.

To ensure that CheckAud has access to the database, the database must be accessible via an IP port. CheckAud expects communication via port 5433 and sets this port automatically during the installation. The database server accepts only local connections through this port. Attempts to connect by other computers in the network are not accepted. To set a different port, choose *Detect free port* or enter the port directly in the Port field.

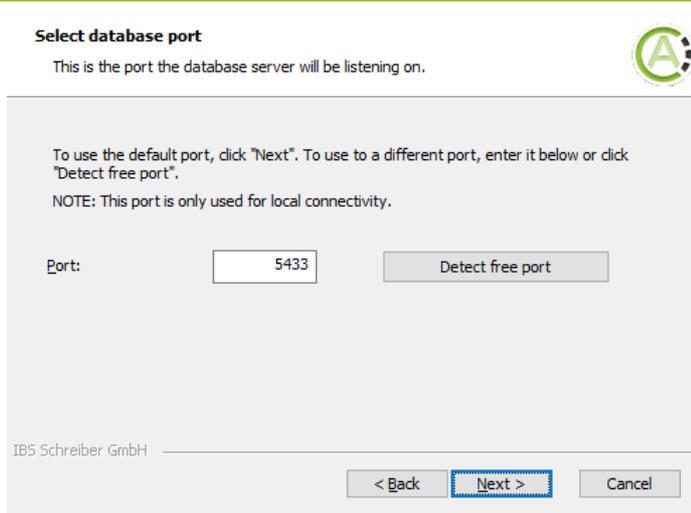


Figure 16 - Entering the port

III - 3 License file

After you first start CheckAud 2025.2 , you are notified that a license file is required to run the program.

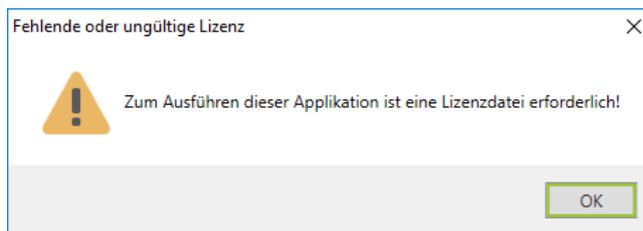


Figure 17 - Notification of missing license file

After you choose *OK*, you must select your purchased license file.

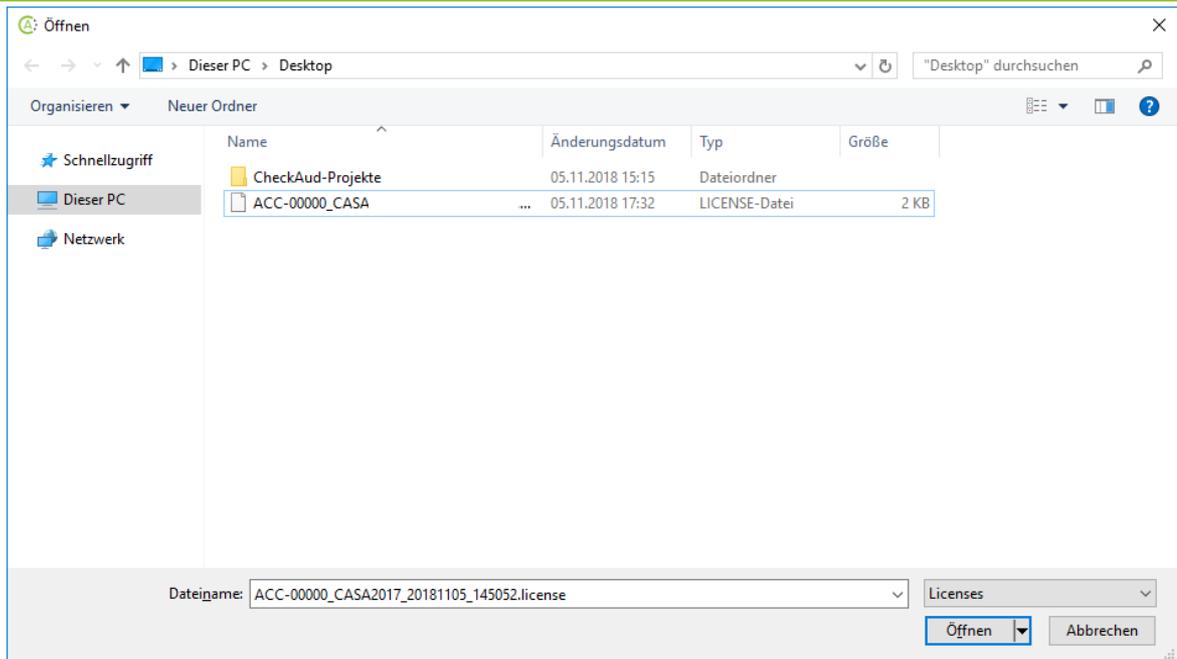


Figure 18 - Selecting the license file

Agree to the license terms and conditions.

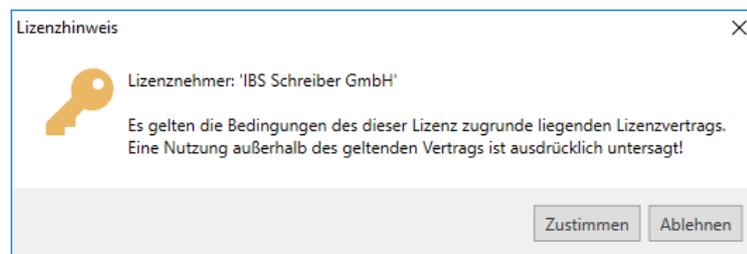


Figure 19 - License terms and conditions

The  **About CheckAud** button in CheckAud displays the details of the license. You can use the [Install new license](#) button to update or renew the license. The procedure is analogous to the initial installation of the license file.



Figure 20 - Information about CheckAud and the license

III - 4 License filter

If special licensing agreements have been reached in consultation with IBS Schreiber GmbH, then SAP users can be included or excluded in the license count using a filter. This license filter can be viewed in detail from the *License* tab. If no filter is available in the license file, this tab is not displayed

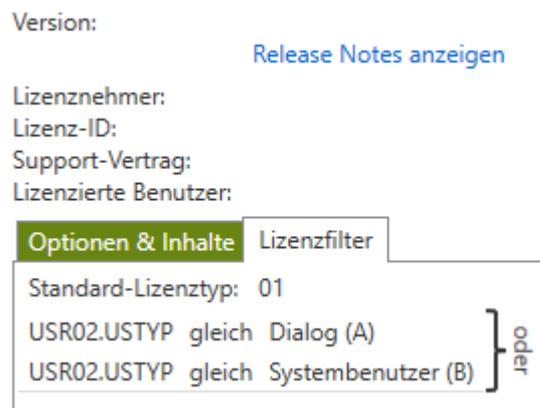


Figure 21 - Displaying license filter criteria

Chapter IV - Rights required in the SAP-System

IV Rights required in the SAP-System

The following chapters describe the needed and the optional authorizations for the technical communications user in the SAP-System.

New authorization values in CheckAud 2025.2 will be marked in **bold, red**.

IV - 1 Table set AUTH

Users log onto the SAP system with CheckScan 2025.2 via the RFC interface. Note that CheckScan supports only release level 7.00 or later of the software component SAP_BASIS. Users need a user account (system user) with the following rights:

<p>Authorization object: S_RFC</p> <p>Activity: 16</p> <p>RFC_NAME: AUTH_TRACE_GET_USOBHASH, DDIF_FIELDINFO_GET, EM_GET_NUMBER_OF_ENTRIES, GET_SYS_COMP_REL, RFCPING, RFC_FUNCTION_SEARCH, RFC_GET_FUNCTION_INTERFACE, RFC_METADATA_GET, RFC_METADATA_GET_TIMESTAMP, RFC_PING, RFC_READ_TABLE, RFC_SYSTEM_INFO, SNC_GET_MY_INFO, SYSTEM_RESET_RFC_SERVER</p> <p>RFC_TYPE: FUNC</p>
<p>Authorization object: S_TABU_NAM</p> <p>Activity: 03</p> <p>Table: /IWBEP/I_MGW_SRT, /IWFND/I_MED_SRH, /IWFND/I_MED_SRT, /UIF/LREPDEREF, AGR_1016, AGR_AGRS, AGR_DEFINE, AGR_FLAGS, AGR_TEXTS, AGR_USERS, CVERS, CVERS_REF, DD02L, DD03M, DEVACCESS, GTB_ROLE_DEF, GTB_ROLE_DEF_T, GTB_ROLE_TABLE, GTB_ROLE_VALUE, ICFDOCU, ICFSERVICE, ICFSERVLOC, PRGN_CUST, SFW_ACTIVE_B2, T055, T055F, T055G, T055T, T77S0, TAPPL_LOCK, TDDAT, TOBC, TOBCT, TOBJ, TOBJ_CHK_CTRL_R, TOBJ_CHK_CTRL_RH, TOBJ_OFF, TOBJT, TRDIR, TSTC, TSTCT, USER_ADDRS, USGRP_USER, USGRPT, USOBAUTHINACTIVE, USOBHASH, USORG, USR_CUST, USR02, USR06, USR10, USR11, USR13, USR21, USRACL, USREFUS, UST04, UST10C, UST10S, UST12, WDY_COMPONENT, WDY_COMPONENTT</p>

¹ As per SAP Note 460089 (Minimum authorization profile for external RFC programs), authorization for the function module SYSTEM_RESET_RFC_SERVER is always required
<https://launchpad.support.sap.com/#/notes/460089>

The tables in the AUTH table set are required for evaluating the authorizations. It must be ensured that these tables can be read via RFC. This requires the corresponding authorizations (role IBS_CHECKAUD_AUTH) and the tables must not be set to the maintenance status ' N display/maintenance not allowed '.

To read more table sets in addition to the standard table set AUTH, separate authorizations are required for each individual table set in the SAP system. The permissions required for each table set are listed below:

IV - 2 Table set IBS_AUTH_ADVANCED

Authorization object: S_TABU_NAM

Activity: 03

Table:

AGR_BUFFI, AGR_1251, AGR_1252, AGR_APPL_VARS, AGR_HIER, AGR_HIERT, ORGCRACT, ORGCRATT, ORGCRATT_T, ORGCRFLD, ORGCRIT, ORGCRIT_T, USOBT_C, USOBX_C, USOBX_CD

IV - 3 Table set IBS_BW

Authorization object: S_TABU_NAM

Activity: 03

Table:

RSECBIAU, RSECTXT, RSECUSERAUTH

IV - 4 Table set IBS_CO

Authorization object: S_TABU_NAM

Activity: 03

Table:

CEPC, CSKS, TKA01, TKA02

IV - 5 Table set IBS_FI

Authorization object: S_TABU_NAM

Activity: 03

Table:

FM01, FM01T, NRIV, T001, T001B, T003, T003T, T004, T004T, T010P, T014T, T043, T880, TGSB, TGSBT, TNROT, TNRO

IV - 6 Table set IBS_GDPR

Authorization object: S_TABU_NAM

Activity: 03

Table:

SXC_ATTR, SXC_CLASS, SXC_EXIT, SXS_ATTRT, SFW_SW_BF, SFW_SWITCH_STATE, SFW_SWITCHT, T77PADDUR_DEF, T77PADDUR_KEY, T77PADDURATION

IV - 7 Table set IBS_MM

Authorization object: S_TABU_NAM

Activity: 03

Table:

T001L, T024E, T024W, T024Z, T025, T030, T134

IV - 8 Table set IBS_HCM

Authorization object: S_TABU_NAM

Activity: 03

Table:

T001P, T500P, T501T, T503T, T526, T569U, T582A, T582S, T585A, T585B, T585C, T591A, T591S, T599R, T77EO, T77UA

IV - 9 Table set IBS_ISU

Authorization object: S_TABU_NAM

Activity: 03

Table:

EDSC, EPREI, ETRF, ETTA, TE069, TE218, TE265, TE408, TE669

IV - 10 Table set IBS_SD

Authorization object: S_TABU_NAM

Activity: 03

Table:

TVKO, TVKOT, TVKWZ, TVTW, TVTWT

IV - 11 Table set IBS_SYSTEM

Authorization object: S_TABU_NAM

Activity: 03

Table:

ADIRACCESS, ADMI_FILES, ADMI_RUN, ADMI_VARIA, APQI, ARCH_DEF, ARCH_OBJ, ARCH_TXT, CCCFLOW, DB6AUDITHD, DD02L, DD09L, DLV_SYSTC, HTTP_WHITE_LIST, **OBJH**, ORGCRACT, PAT03, PPROXY_C, PPROXY_F, PPROXY_G, RFC_TT_ACL, RFC_TT_ACL_SAMEU, RFCCBWHITELIST, RFCCBWHITELIST_A, RFCDES, RFCDESSECU, RFCDOC, RFCSYSACL, RFCSYSACL_CLNT, RFCTRUST, RSAUPROF, SEC_POLICY_ATTR, SEC_POLICY_RT, SLDW_ELEMENTS, SLDW_HEADER, SLDW_HEADERT, **SWNCCOLLPARAM**, **SWNCCOLLPATXT**, SXPGCOSTAB, T000, TADIR, TBRG, TBRG_AUTH, TBRG_AUTHT, TBRGT, TCDOB, TMSCSYS, TMSPCONF, TMSPVERS, TPFID, TPLOG, TRNSPACE, TRNSPACETT, TWPSSO2ACL, USR01, USR05, USR40, USR41_MLD

IV - 12 Authorizations for reading parameter values

This function will only be available since SAP Releases 7.40!

Authorization object: S RFC

Activity:	16
RFC_NAME:	PFL_GET_SERVER_PARAM_VALUES
RFC_TYPE:	FUNC
Authorization object: S_TABU_NAM	
Activity:	03
Table:	DOKIL, DOKTL, TPFET, TPFHT, TPFID
Authorization object: S_RZL_ADM	
Activity:	03

IV - 13 Authorizations for reading the default org level values

Authorization object: S_TABU_NAM	
Activity:	03
Table:	DD07T, FM01, FM01T, LLOCT, LLOCTT, RFCDES, RFCDOC, T001, T001W, T004, T004T, T014, T014T, T024, T024E, T077D, T077K, T077X, T077Y, T16FG, T16FH, T300, T300T, T500P, T501, T501T, T503K, T503T, T549A, T549T, T582A, T582S, T750E, T750F, T750K, T777P, T778P, T880, TACT, TACTT, TBKK01, TBKK01T, TBKK80, TBKK80T, TF150, TF151, TGSB, TGSBT, TKA01, TKEB, TKEBT, TSPA, TSPAT, TTDS, TT DST, TVAK, TVAKT, TVBUR, TVFK, TVFKT, TVGRT, TVKBT, TVKGR, TVKO, TVKOT, TVST, TVSTT, TVTW, TVTWT

IV - 14 Authorization for reading anonymized user statistics

Authorization object: S_RFC	
Activity:	16
RFC_NAME:	SWNC_COLLECTOR_GET_AGGREGATES
RFC_TYPE:	FUNC

IV - 15 Authorization for reading personalized user statistics

In addition to the permissions from Chapter IV-14 (Reading anonymized user statistics), the following permissions are also required:

Authorization object: S_RFC
Activity: 16

RFC_NAME:
AUTHORITY_CHECK

RFC_TYPE: FUNC

Authorization object: S_TOOLS_EX

AUTH = S_TOOLS_EX_A

IV - 16 Predefined SAP role for the RFC interface user (Scan-User)

In the customer section of the www.checkaud.de website, you can download a predefined role for scan users. This SAP role includes the necessary authorizations for the SAP communication user that is used for scanning the SAP systems to be checked. The authorizations are limited to access of remote-capable SAP function modules, as well as to the SAP tables that are relevant for authorization evaluation.

The customer section on www.checkaud.de provides the individual SAP roles for the newly added table sets in CheckScan for download.

Note:

Note that older SAP systems do not offer any functions for maintaining function modules. The authorizations are based on function groups. The roles provided in the customer area on www.checkaud.de are based on the provision of authorizations via function modules. If you experience problems when creating snapshots in older SAP systems, check whether the roles that you imported are complete. It is entirely possible that the imported roles were not created completely in the SAP system. In this case, we recommend that you use the authorizations via the function groups.

Chapter V - Rights required on the HANA database

V Rights required on the HANA database

The following chapters describe the needed and the optional authorizations for the technical user on the HANA database.

New authorization values in CheckAud 2025.2 will be marked in **bold, red**.

V - 1 General authorizations for reading tables and views

The following HANA database authorizations are used for logon and read access for tables and views.

```
system privilege: CATALOG READ;
catalog sql object "SYS"."DUMMY": SELECT;
catalog sql object "SYS"."M_DATABASE": SELECT;
catalog sql object "SYS"."TABLE_COLUMNS": SELECT;
catalog sql object "SYS"."VIEW_COLUMNS": SELECT;
catalog sql object "SYS"."REPOSITORY_REST": EXECUTE;
```

V - 2 Table set AUTH

The following object authorizations are used for accessing relevant tables and views which are responsible for authorization regulation in the HANA database. These object authorizations are mandatory.

```
catalog sql object "SYS"."GRANTED_PRIVILEGES": SELECT;
catalog sql object "SYS"."GRANTED_ROLES": SELECT;
catalog sql object "SYS"."PRIVILEGES": SELECT;
catalog sql object "SYS"."REMOTE_USERS": SELECT;
catalog sql object "SYS"."ROLES": SELECT;
catalog sql object "SYS"."STRUCTURED_PRIVILEGES": SELECT;
catalog sql object "SYS"."USERGROUPS": SELECT;
catalog sql object "SYS"."USERGROUP_PARAMETERS": SELECT;
catalog sql object "SYS"."USERS": SELECT;
catalog sql object "SYS"."USER_PARAMETERS": SELECT;
catalog sql object "SYS"."OWNERSHIP": SELECT;
catalog sql object "SYS"."OBJECT_PRIVILEGES": SELECT;
catalog sql object "SYS"."OBJECTS": SELECT;
catalog sql object "SYS"."SCHEMAS": SELECT;
catalog sql object "SYS"."SYNONYMS": SELECT;
catalog sql object "_SYS_REPO"."PACKAGE_CATALOG": SELECT;
```

V - 3 Table set IBS_System

The following object authorizations are used for accessing relevant tables and views which are responsible for authorization regulation in the HANA database. These object authorizations are optional and must be used, when the table set *IBS_SYSTEM* has been activated in the scan module.

```
catalog sql object "SYS"."AUDIT_POLICIES": SELECT;
catalog sql object "SYS"."CREDENTIALS": SELECT;
catalog sql object "SYS"."ENCRYPTION_ROOT_KEYS": SELECT;
catalog sql object "SYS"."INVALID_CONNECT_ATTEMPTS": SELECT;
catalog sql object "SYS"."M_CONNECTIONS": SELECT;
catalog sql object "SYS"."M_CUSTOMIZABLE_FUNCTIONALITIES": SELECT;
catalog sql object "SYS"."M_ENCRYPTION_OVERVIEW": SELECT;
catalog sql object "SYS"."M_HOST_INFORMATION": SELECT;
catalog sql object "SYS"."M_INIFILES": SELECT;
catalog sql object "SYS"."M_INIFILE_CONTENTS": SELECT;
catalog sql object "SYS"."M_INIFILE_CONTENT_HISTORY": SELECT;
catalog sql object "SYS"."M_PASSWORD_POLICY": SELECT;
catalog sql object "SYS"."M_PERSISTENCE_ENCRYPTION_STATUS": SELECT;
catalog sql object "SYS"."M_REMOTE_CONNECTIONS": SELECT;
catalog sql object "SYS"."M_SYSTEM_OVERVIEW": SELECT;
catalog sql object "SYS"."REMOTE_SOURCES": SELECT;
catalog sql object "_SYS_SECURITY"."_SYS_PASSWORD_BLACKLIST": SELECT;
catalog sql object "SYS"."M_LICENSE": SELECT;
catalog sql object "SYS"."M_LICENSE_USAGE_HISTORY": SELECT;
catalog sql object "SYS"."LDAP_PROVIDERS": SELECT;
catalog sql object "SYS"."USERGROUP_CONNECT_RESTRICTIONS": SELECT;
```

V - 4 Predefined HANA database role for the technical user (Scan-User)

In the customer section of the www.checkaud.de website, you can download a predefined role for scan users. This HANA database role includes the necessary authorizations for the technical user that is used for scanning the HANA database to be checked. The authorizations are limited to access of tables and views that are relevant for authorization evaluation.

The customer section on www.checkaud.de provides the individual HANA database roles for the optional table sets in CheckScan for download.

Chapter VI - Technical appendix

VI Technical appendix

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Chapter VII - Liability

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