



Executive Cockpit

for SAP Business One

Installation User Manual

Release 2026.10.05-27 · SQL Server and SAP HANA

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1. About this manual

Install Executive Cockpit 2026.10.05-27 in about 15 minutes: run one setup file, then answer seven questions in your browser. This manual is for the IT person or SAP partner who installs the cockpit on a customer PC or server.

Executive Cockpit for SAP Business One is a drill-down management dashboard from SiPSAP Optimization (Pvt.) Ltd. It reads SAP Business One on Microsoft SQL Server or SAP HANA, plus an optional payroll database. **It only reads SAP data; it never changes it.**

It covers financials, aging, sales and purchase analysis, inventory, production, projects, budget, fixed assets, service, CRM, audit trail, payroll and employees. Users open it in a browser, on the server itself, across the office network or over the internet.

Item	Value
Product	Executive Cockpit for SAP Business One
Version	2026.10.05-27
Setup file given to customers	<code>ExecutiveCockpit-Setup-2026.10.05-27.exe</code>
Publisher	SiPSAP Optimization (Pvt.) Ltd. (sipsap.us)
Program folder (default)	<code>C:\Program Files\SiPSAP\Executive Cockpit</code>
Settings and data folder	<code>C:\ProgramData\SiPSAP\Executive Cockpit</code>
Evaluation period	30 days, all modules, without a license file

Note: The screenshots in this manual show sample data (server SRV-ERP01, companies "Al-Noor Trading" and "Al-Noor Industries"). Your server, company and computer names will differ.

2. Before you install

The cockpit needs a 64-bit Windows PC or server that can reach the SAP Business One database. Nothing else is installed: no IIS, SQL client tools, Node.js or Python. It uses the web server built into Windows (HTTP.sys) and works without internet access.

2.1 System requirements

Requirement	Needed for	Normally present?
64-bit Windows 10 / 11, or Windows Server 2016 or later	Everything (the installer refuses 32-bit Windows)	Yes
Windows PowerShell 5.1	All cockpit scripts	Built into Windows 10/11 and Server 2016+
.NET Framework 4.7.2 or later	SQL access, password hashing	Built in from Windows 10 (1803), 11 and Server 2019. On Server 2016, install it from Microsoft
Network access to SQL Server 2016 or later (TCP, usually port 1433)	SAP Business One on SQL Server	SQL Server may be on this PC or another machine
SAP HANA client 64-bit (ODBC driver HDBODBC) and access to the HANA SQL port (usually 30015 or 30013)	SAP Business One on SAP HANA	Installed with the SAP Business One client for SAP HANA
SAP HANA 2.0 SPS 04 or later	A few reports that use LATERAL joins	Check with <code>Check-Hana.cmd</code>
Windows administrator rights, once	Installer and Setup (firewall, web address, HTTPS, auto-start)	—
A modern browser (Edge, Chrome, Firefox, Safari)	Viewing the dashboard	Yes
An HTTPS certificate	Network or internet access	Setup can create a self-signed one; use a real one for production

2.2 Checklist: have these ready

- The name of the SAP Business One database server, for example `SAPSERVER`, `SAPSERVER\SQL2019` or `10.0.0.5`. Your SAP partner or IT knows it.
- A login that can **read** the SAP company databases. SQL Server: a SQL login (for example `sa`, or the read-only login in Appendix A) or a Windows account. SAP HANA: a HANA user with SELECT on the company schemas and SBOCOMMON (Appendix B).
- The payroll database name, if the cockpit should show payroll (optional; it can be added later).
- Who will open the dashboard: this PC only, the office network, or also the internet.
- A free web port. Setup suggests 8080 (or the next free one) and checks it.
- For internet access: the public IP address or a domain name, and access to the router to forward the port.
- For "always on": the password of the Windows account that will run the cockpit.
- A password for the dashboard administrator: at least 10 characters, with three of lower case, upper case, digits and symbols, not containing the user name.

3. Install with the Windows installer

One click installs the program; Setup then opens in the browser by itself. Sign in to Windows with an administrator account (or have its password ready) before you start.

1. Copy **ExecutiveCockpit-Setup-2026.10.05-27.exe** to the PC or server that will run the cockpit.
2. Double-click it. When Windows asks **Do you want to allow this app to make changes?**, click **Yes**.
 - If SmartScreen shows "Windows protected your PC", click **More info**, then **Run anyway**.
3. The welcome page says where the cockpit will be installed: **C:\Program Files\SiPSAP\Executive Cockpit**.
 - To install somewhere else, tick **Choose another folder** on the same page and pick the folder.
 - A folder that already holds other files gets its own **Executive Cockpit** subfolder.
 - A folder that holds an unpacked (portable) copy of the cockpit is refused. Install elsewhere; Setup can bring that copy's settings over.
4. Click **Install**. The installer copies the files, then closes by itself.
5. **Executive Cockpit Setup** opens in your browser. A small Executive Cockpit Setup window also appears in the corner of the screen. Continue with chapter 4.

3.1 What the installer puts on the PC

Item	Location
Program files (read-only for users)	C:\Program Files\SiPSAP\Executive Cockpit (or the folder you chose)
Settings, users, passwords, license, logs, dashboard data	C:\ProgramData\SiPSAP\Executive Cockpit
Start menu shortcuts	Start > SiPSAP > Executive Cockpit and Executive Cockpit Setup
Desktop icon	Executive Cockpit
Apps list entry	Settings > Apps > Executive Cockpit for SAP Business One (standard uninstaller)

3.2 Silent installation (IT)

For scripted deployment, run the installer with **/S**. Add **/D=<folder>** as the last argument to choose the folder. Run **Executive Cockpit Setup** from the Start menu afterwards.

```
ExecutiveCockpit-Setup-2026.10.05-27.exe /S
ExecutiveCockpit-Setup-2026.10.05-27.exe /S /D=D:\Apps\Executive Cockpit
```

4. Executive Cockpit Setup (seven steps)

Setup runs in the browser on this PC, as administrator, and ends with the dashboard open. While the page loads, Setup looks for the SAP Business One client, SQL Server instances, ODBC data sources and the SAP HANA client on this PC, and pre-fills what it finds. The steps are listed on the left; a green tick marks each finished step.

Tip: If you close the Setup tab by mistake, click **Show Setup** in the small Setup window. **Cancel Setup** in that window ends Setup.

Step 1 – Database

Choose *Microsoft SQL Server or SAP HANA. The card marked Found* is what Setup detected on this PC. If you are not sure, the SAP Business One logon window shows the Server Type.

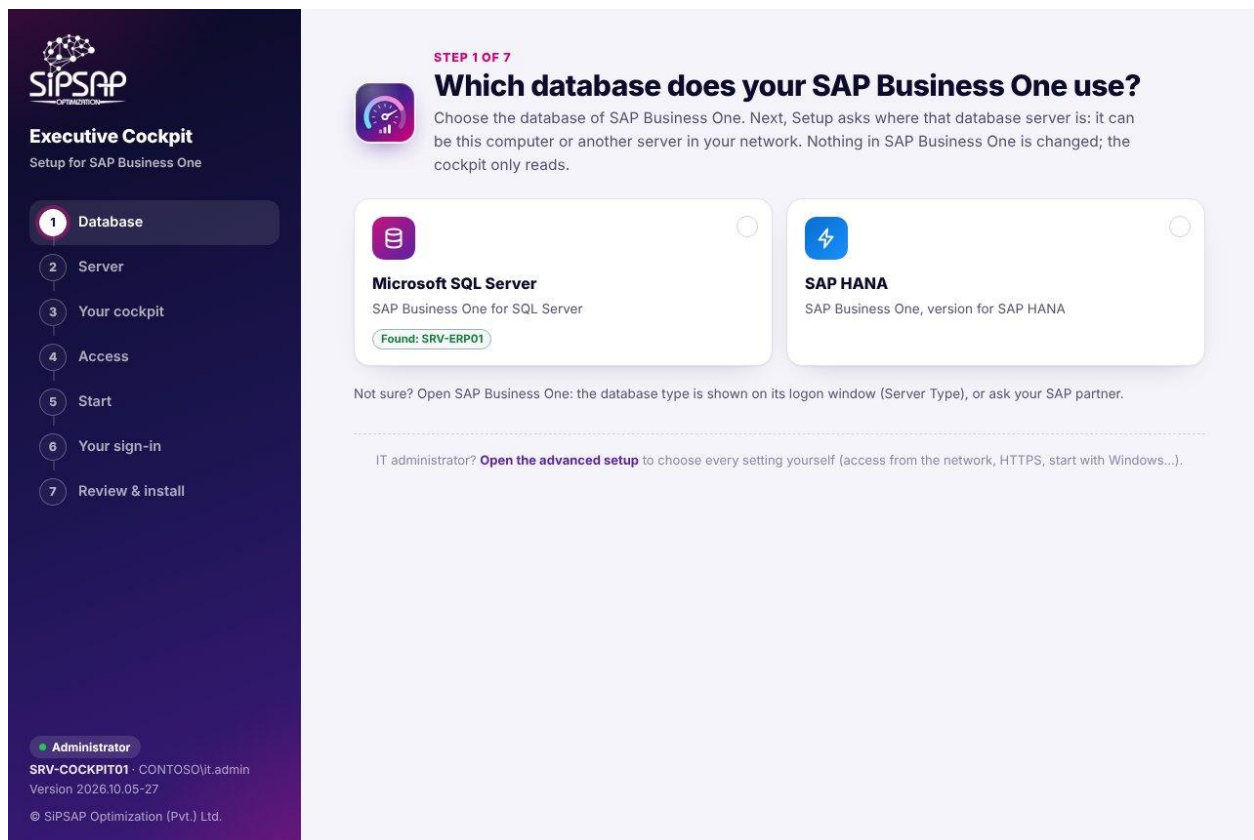


Figure 1. Step 1: choose the database type of SAP Business One

Step 2 – Server

Enter where the database is: this computer or another server. Pick a suggestion under **Found on this PC** or type the name.

- **SQL Server:** sign in with **A SQL Server login** (default for another server) or **My Windows account** (default for this PC). If Windows sign-in is refused, Setup switches to the SQL login and says so.
- **SAP HANA:** server, SQL port (usually 30015), HANA user and password. The tenant database is under **More options**.
- Click **Connect**. Setup tests the connection and lists the SAP Business One companies, all ticked. Untick any the dashboard should not show (for example a TEST company). Companies added later appear by themselves. Click **Continue**.

STEP 2 OF 7

Where is the SQL Server database?

Enter the database server of SAP Business One. It can be this computer or another server in your network; your SAP partner or IT knows its name.

Found on this PC

SRV-ERP01 SAP Business One client

SQL Server name or address

SRV-ERP01

The server (and instance, if it has one) where the SAP Business One company databases are.

Sign in with

A SQL Server login My Windows account

A login of that SQL Server that may read the SAP Business One databases, for example sa.

Login name **Password**

sa

[Connect again](#) [← Not SQL Server? Choose SAP HANA](#)

Connected to SQL Server SRV-ERP01

SQL Server 15.0.4385.2 · login sa · 3 SAP Business One companies found.

Your companies Untick one the dashboard should not show. Companies added to SAP later appear by themselves.

☒ Al-Noor Trading (Pvt.) Ltd. SBO_ALNOOR_TRADING · 10.00.250	☒ Al-Noor Industries SBO_ALNOOR_INDUSTRIES · 10.00.250	☐ Al-Noor Trading - TEST SBO_ALNOOR_TEST · 10.00.250
--	--	---

Continue →

IT administrator? [Open the advanced setup](#) to choose every setting yourself (access from the network, HTTPS, start with Windows...).

Executive Cockpit
Setup for SAP Business One

Database

2 Server

3 Your cockpit

4 Access

5 Start

6 Your sign-in

7 Review & install

Administrator
SRV-COCKPIT01 · CONTOSO\it.admin
Version 2026.10.05-27
© SIPSAP Optimization (Pvt.) Ltd.

Figure 2. Step 2: connected to SQL Server; the TEST company is unticked

Step 3 – Your cockpit

Give the cockpit a **name**; it appears on the dashboard, the sign-in page and the browser tab. Then choose **No payroll** or **Yes, show payroll too**.

- SQL Server: Setup finds the payroll database on the same SQL Server (tables Employee, SalaryProcessingHeader, EmployeeSalaryHeader). If none is found, check and click **Search again**.
- SAP HANA: payroll lives on a SQL Server. Enter its server and sign-in, then click **Find payroll databases**.
- You can rename the payroll section (default Payroll), or add payroll later under Change settings.



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Setup for SAP Business One

- Database
- Server
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Administrator
SRV-COCKPIT01 · CONTOSO\it.admin
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STEP 3 OF 7

Name your cockpit

Give the dashboard its name, and tell Setup whether it should also show payroll.

Cockpit name
Shown at the top of the dashboard, on its sign-in page and in the browser tab. Usually the name of your company or group.

Name of the cockpit

Al-Noor Group Cockpit
Browser tab: Al-Noor Group Cockpit · SIPSAP

Payroll
Do you use a payroll program? The cockpit can also show salaries and employees from its database, next to SAP Business One.

No payroll
The cockpit shows SAP Business One only. Payroll can be added later.

Yes, show payroll too
From the payroll program's database on the same SQL Server as SAP Business One.
[Found: HR_PAYROLL](#)

Payroll database
On SQL Server SRV-ERP01: a database with the payroll tables Employee, SalaryProcessingHeader and EmployeeSalaryHeader.

Payroll database

 [Search again](#)

Name of the payroll section

The heading of the payroll figures in the dashboard.

[Next →](#)
[Back](#)

IT administrator? [Open the advanced setup](#) to choose every setting yourself (access from the network, HTTPS, start with Windows...).

Figure 3. Step 3: cockpit name and payroll database

Step 4 – Access

Choose who opens the dashboard. Everyone signs in with a user name and password.

Option	Address	What Setup does
This PC only	<code>http://localhost:<port>/</code>	Nothing in the firewall; use it on the server or through Remote Desktop
Our office network (default)	<code>https://<server name or IP>:<port>/</code>	Opens the port in Windows Firewall
Network and internet	<code>https://<public IP or domain>:<port>/</code>	Firewall, HTTPS required; you forward the port on the router

- **Web port:** 8080 or the next free one. Setup checks it as you type, names any program already using it and offers a free port.
- **HTTPS:** on for the network and required for the internet. **Create a certificate for me** makes one for this PC's name and IP addresses; or choose a certificate already installed (for example for your domain).



Executive Cockpit
Setup for SAP Business One

- Database
- Server
- Your cockpit
- 4 Access**
- 5 Start
- 6 Your sign-in
- 7 Review & install

Administrator
SRV-COCKPIT01 · CONTOSO\it.admin
Version 2026.10.05-27
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STEP 4 OF 7

Who opens the dashboard?

The cockpit is a small web server on this computer. Choose who may reach it: everyone signs in with a user name and password.



This PC only
On this computer, or through Remote Desktop.
simplest



Our office network
Other computers in your network open it by this computer's name or IP.
firewall opened



Network and internet
Also from outside the office, through your public IP address or a domain name.
HTTPS router port forwarding

Web address
The port the dashboard answers on. Setup checks that no other program uses it.

Web port
8443 Port 8443 is free

Encryption (HTTPS)
☒ Use HTTPS (recommended)
Encrypts passwords and figures on the network. Browsers show a padlock.

Create a certificate for me

Setup creates a certificate for SRV-COCKPIT01, 192.168.10.25, localhost and trusts it on this PC. Browsers on other computers show a warning once (or install cockpit-certificate.cer from the settings folder on them). With a domain name you can later use a certificate from your domain provider.



Windows Firewall
Setup opens TCP port 8443 for the dashboard.

The dashboard will open at

https://localhost:8443/ on this PC

https://SRV-COCKPIT01:8443/ in the office network

https://192.168.10.25:8443/ in the office network

Next → Back

IT administrator? **Open the advanced setup** to choose every setting yourself (access from the network, HTTPS, start with Windows...).

Figure 4. Step 4: office network access on port 8443 with HTTPS

Step 5 – Start

Choose **Always on, with Windows** (recommended for a server; runs even when nobody is signed in, using the Windows account and password you enter) or **When I sign in**. Also set how often the cockpit reads SAP data (default 15 minutes).

STEP 5 OF 7

Keep it running

The cockpit runs in the background and starts again by itself if it stops. Choose when it starts.

Always on, with Windows
Starts with the computer, also when nobody is signed in. Best for a server the network opens.
recommended needs your Windows password

When I sign in
Runs while you are signed in to Windows on this computer.

Windows account that runs the cockpit
Windows keeps the password for the start with Windows (in its Task Scheduler), not the cockpit.

Account
CONTOSO\it.admin

Its Windows password
[Redacted]

Read the SAP data every
15 minutes
Changed data appears in the dashboard within this time. Every read is light on SAP: companies that did not change are skipped.

Next → **Back**

IT administrator? **Open the advanced setup** to choose every setting yourself (access from the network, HTTPS, start with Windows...).

Figure 5. Step 5: start with Windows and the data refresh interval

Step 6 – Your sign-in

Create the dashboard administrator: user name (default **admin**) and password. The rules tick off as you type; **Next** stays disabled until all four are met. The password must not contain the user name.

STEP 6 OF 7

Create your sign-in

You open the dashboard with this user name and password. More users can be added later, in the dashboard.

Connected to SQL Server SRV-ERP01
2 of 3 companies (Al-Noor Trading (Pvt.) Ltd., Al-Noor Industries) and payroll. [Change](#)

User name
admin
Letters, digits and . _ @ -

Password
[Redacted]

Repeat the password
[Redacted]

- At least 10 characters
- Three of: small letters, capitals, digits, symbols
- Does not contain the user name
- Both passwords are the same

☐ Show the password

Next → **Back**

IT administrator? **Open the advanced setup** to choose every setting yourself (access from the network, HTTPS, start with Windows...).

Figure 6. Step 6: the administrator's user name and password

Step 7 – Review & install

Check each part; each has a **Change** button. Then click **Install**.

STEP 7 OF 7

Check and install

Setup saves these settings, sets Windows up, reads your SAP data for the first time and opens the dashboard. Nothing in SAP Business One is changed.

DATABASE Change	
Server	SQL Server · SRV-ERP01 · login sa
Companies	2 of 3, new ones automatically
YOUR COCKPIT Change	
Name	Al-Noor Group Cockpit
Payroll	HR_PAYROLL
Payroll section	Payroll
ACCESS Change	
Who	Our office network
Addresses	https://localhost:8443/ on this PC https://SRV-COCKPIT01:8443/ in the office network https://192.168.10.25:8443/ in the office network
HTTPS	
Firewall	A certificate Setup creates TCP port 8443 opened
START Change	
Starts	With Windows, as CONTOSO\it.admin
Reads SAP every	15 minutes
ADMINISTRATOR Change	
User name	admin

[✓ Install](#) [Back](#)

IT administrator? [Open the advanced setup](#) to choose every setting yourself (access from the network, HTTPS, start with Windows...).

Figure 7. Step 7: review the settings before installing

Setup saves the settings, prepares Windows (address reservation, certificate, firewall, auto-start), reads the SAP data for the first time with progress per company, then starts the cockpit. Keep the page open; the first read can take a few minutes on large databases.

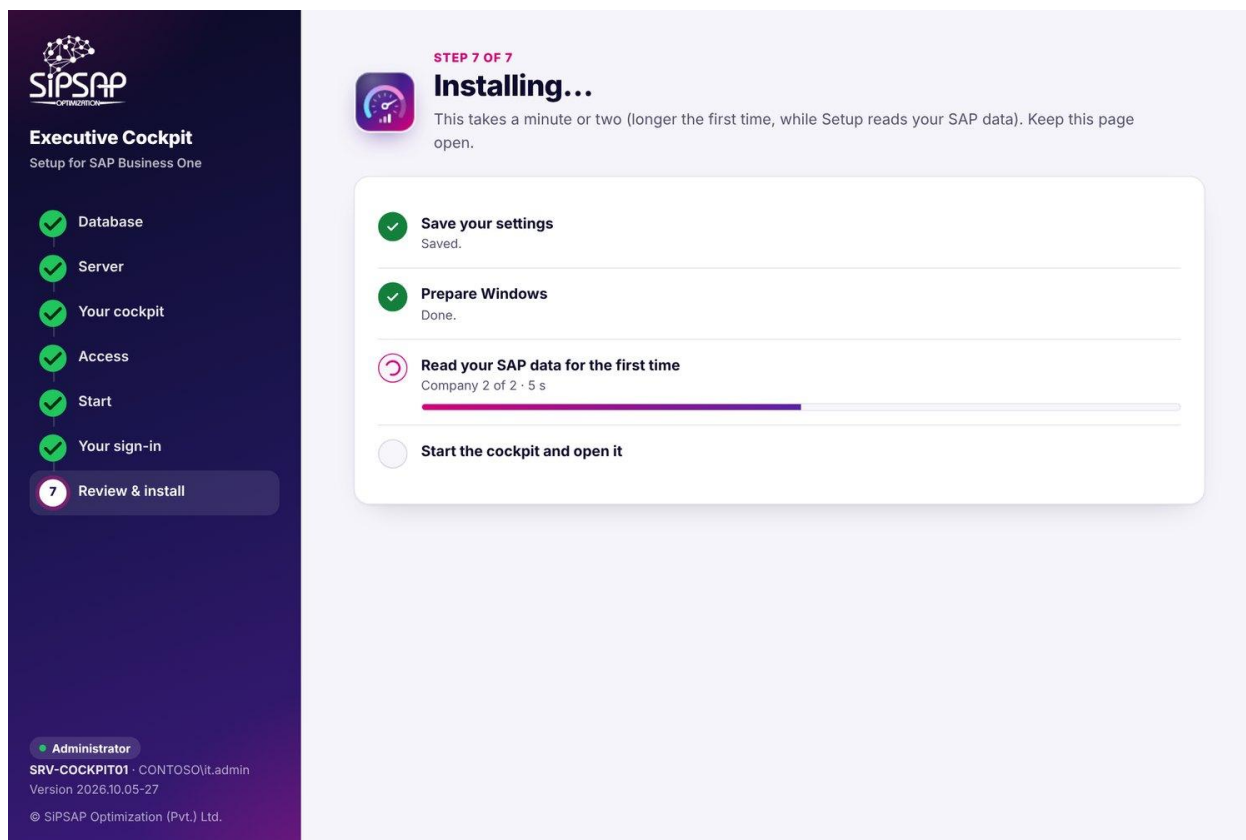


Figure 8. Installing: reading the SAP data for the first time

When Setup finishes, it lists every address of the dashboard and anything left to do, such as forwarding the port on the router or installing the certificate on other computers. Click **Open the dashboard**.

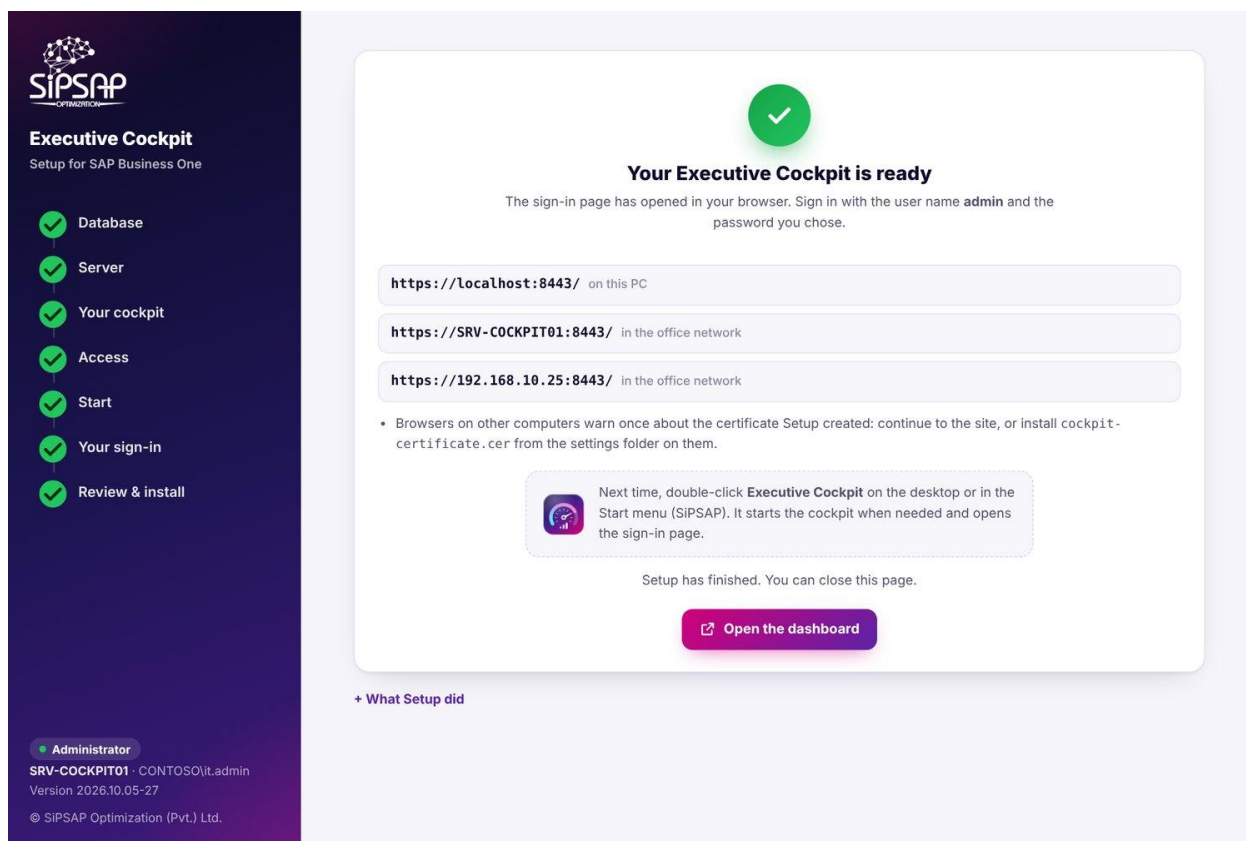


Figure 9. Setup is complete: the dashboard addresses

4.1 Bringing settings from an earlier copy

If Setup finds an earlier unpacked copy of the cockpit on this PC, it first offers **Bring my settings over**. This copies its settings, users, passwords, license and data, stops the old copy and removes its icons and auto-start. You then see Review & install with one click left. The current data is backed up to `backup\before-import_<date-time>` in the data folder.

4.2 Advanced setup (IT)

Click **Open the advanced setup** at the bottom of any Setup page, or run `Setup.cmd -Advanced` from the program folder, to see every setting. It adds the consolidation currency, binding to one IP address, a certificate by thumbprint, and a "start only while needed" option. `Setup.cmd -Console` asks the questions in a console window instead (SQL Server only).

5. After installation: sign-in, license and users

Sign in with the administrator from step 6, then request a license within the 30-day evaluation and set up the other users.

5.1 Open the dashboard

- On the server: double-click the **Executive Cockpit** desktop icon, or Start > SiPSAP > **Executive Cockpit**. A small window starts the cockpit if needed and opens the sign-in page.
- On other computers: open the address from Setup's last page, for example <https://SRV-COCKPIT01:8443/>.
- With a self-signed certificate, other browsers warn once. To stop the warning, install **cockpit-certificate.cer** on each computer: double-click > Install Certificate > Local Machine > Trusted Root Certification Authorities.

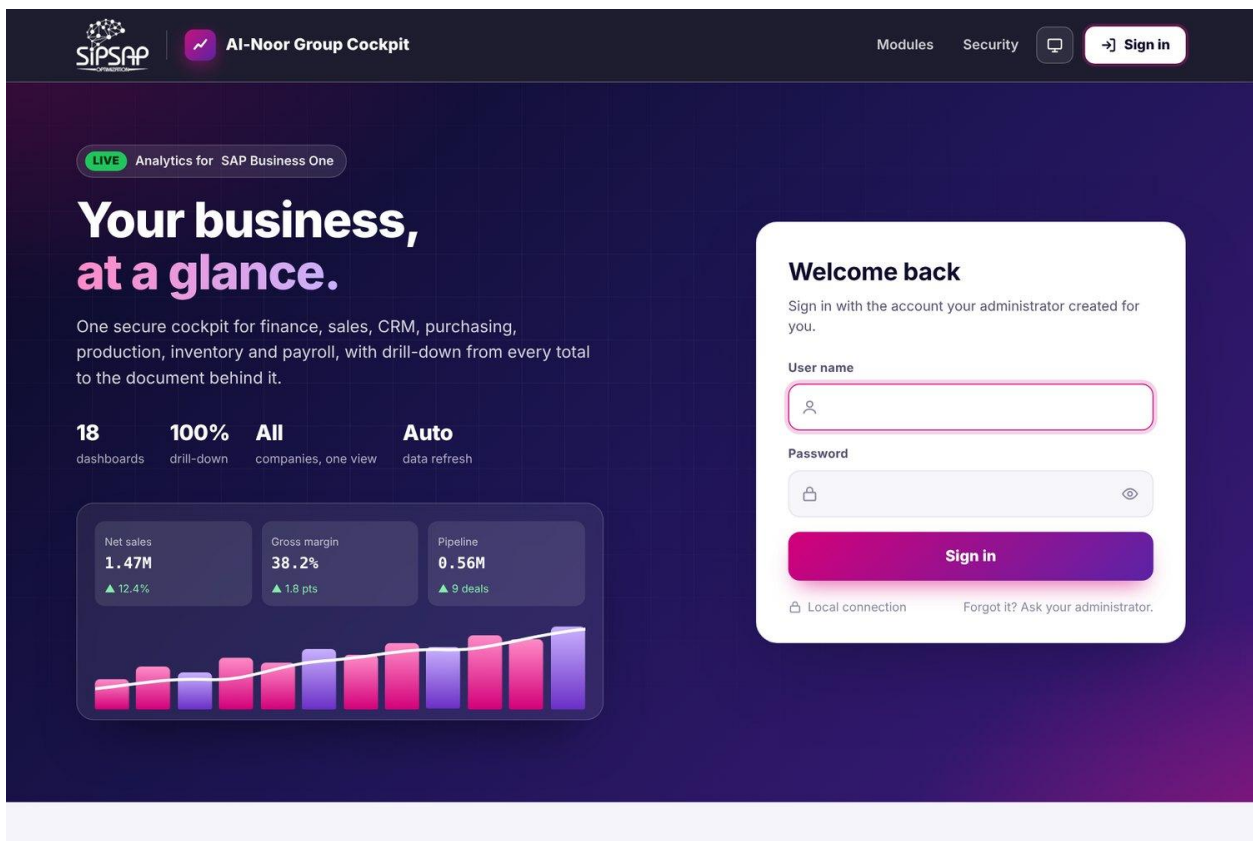


Figure 10. The cockpit's landing and sign-in page

If no administrator exists yet, the landing page shows **Create the administrator**. This works only in a browser on the server itself (<http://localhost:<port>/>).

5.2 Install the license

A new installation runs a **30-day evaluation** with every tab, add-on and company. A bar above the tabs shows the days left. When it ends without a license, only administrators can sign in, and only to License administration.

1. Open the user menu (top right) > **License administration**.
2. Click **Download the license request**. It holds this server's hardware key, its SQL Server / SAP installation, and the users and companies in use. It contains nothing secret.
3. Send the request file to SiPSAP. SiPSAP returns a license file (**.lic**) for this server.
4. In License administration, choose or drop the **.lic** file. It is checked at once; a file for another server, or a changed file, is refused.

On the server you can also use the command line: `License.cmd` shows the license and hardware key, `License.cmd -Request out.req` writes a request, and `License.cmd -Install C:\path\license.lic` installs one.

Note: The license is bound to the server's hardware (3 of 5 parts must match), the SQL Server and SAP installation, and the signed product files. If one of these changes, the cockpit keeps working for a **7-day grace period** while you request a new license.

5.3 Set up users

Open the user menu > **Users & access** (administrators). For each user set the role, password, allowed tabs, companies and export rights. Then assign each user a license type in License administration > Users, or click **Assign automatically**.

License type	Tabs it opens
Professional	Every tab
Limited Financial	Overview, Financials, Expenses, Budget, BOQ Control, Open Documents, A/R and A/P Aging, Advances, Fixed Assets, Audit Trail, Business Partners, Sales & Purchases
Limited Logistics	Overview, Sales, Purchase, Inventory, Production, Project Control, BOQ Control, Open Documents, Document Flow, Approvals, Business Partners, Sales & Purchases
Limited CRM	Overview, CRM, Service, Business Partners, Sales Analysis, Sales & Purchases
Limited HR	Overview, Payroll, Employees
Starter Package	Overview, Financials, Aging, Sales and Purchase Analysis, Inventory, Business Partners, Sales & Purchases (at most 5 users)
Executive Viewer	Overview and Sales & Purchases (read-only)

Export to Excel and PDF / print are off by default for standard users; tick them per user in Users & access.

6. Update, repair, move and uninstall

All maintenance runs through the installer, **Executive Cockpit Setup** in the Start menu, or Windows Settings > Apps. Settings and data are kept unless you choose to delete them.

6.1 Update to a new version

1. Run the new version's setup file on the server.
2. It finds the installed cockpit and shows **Update** instead of Install. Click **Update**.
3. The installer stops the cockpit, replaces the program files, keeps everything in the data folder and starts it again.

An older installer asks before it installs over a newer version. Installing again after an uninstall that kept the data repairs and starts the cockpit by itself.

6.2 Repair, reset a password, change settings

Start > SiPSAP > **Executive Cockpit Setup** shows the cockpit's status with four actions:

- **Open the dashboard** – starts the cockpit if needed and opens the sign-in page.
- **Repair** – sets up Windows again and restarts the cockpit, when the dashboard does not open.
- **Forgot a password?** – gives a user a new password.
- **Change settings** – opens the advanced setup.

Administrators can also change the database, companies and payroll in the dashboard: user menu > **Server configuration**. The address, port, HTTPS and auto-start need Windows administrator rights, so change those with Setup on the server.

6.3 Move to another server

1. Install the cockpit on the new server with the setup file.
2. Copy `config\cockpit.config.json`, `config\license`, `web\data` and `cache` from `C:\ProgramData\SiPSAP\Executive Cockpit` on the old server to the same folder on the new one.
3. Run **Executive Cockpit Setup** on the new server and re-enter the SQL or HANA password. Saved passwords only work on the PC and Windows account that saved them.
4. Request a new license for the new server's hardware key (the 7-day grace period covers the move).
5. Uninstall the cockpit on the old server.

6.4 Uninstall

1. Open Windows **Settings > Apps**, select **Executive Cockpit for SAP Business One**, and click **Uninstall** (or run `Uninstall.cmd` in the program folder).
2. Choose whether to **also delete the settings, users, license and dashboard data**. This is off by default, so a later reinstall keeps the same settings.
3. The uninstaller stops the cockpit and removes its scheduled task, firewall rule, web address reservation, certificate binding, icons, program files and registry entries. With data deletion, it also removes the data folder and the self-signed certificate.

A silent uninstall (`Uninstall.exe /S`) always keeps the data.

7. Troubleshooting installation

Most installation problems are a wrong database server, a login without read rights, or a web port another program already uses. Logs are in `C:\ProgramData\SiPSAP\Executive Cockpit\logs` (server.log, watchdog.log, refresh.log).

Symptom	Fix
"The Executive Cockpit needs 64-bit Windows"	Install on a 64-bit Windows PC or server
SmartScreen: Windows protected your PC	Click More info > Run anyway
Setup did not find SAP Business One	Type the SAP database server on the page (for example <code>SAPSERVER\SQL2019</code>). If it names a SQL Server that is installed but not running, start that service and click Search again
Setup asks for a SQL Server login	Your Windows account cannot read the SAP databases on that server. Enter a SQL login that can (often <code>sa</code>)
"The SAP HANA client is not installed on this PC"	Install the 64-bit SAP HANA client from the SAP Business One package (folder HANA Client) and test again
HANA: "Connection failed (RTE:[89006]...)" or "actively refused"	Wrong host or port, or a firewall. The SQL port is 3nn15 for the first tenant of instance nn (30015 for 00), or 3nn13 with the tenant name filled in
HANA: "authentication failed"	Wrong HANA user or password; HANA user names are usually in capitals
HANA: no company found	Grant the HANA user SELECT on the company schemas (Appendix B)
"Port ... is already used by another program" or "HTTP Error 503" at the cockpit address	Another program (often an IIS site) holds the port. Run Setup and accept the free port it offers (Use port N)
The cockpit stops after 15 seconds; server.log says "Windows refused to open ... Access is denied"	Setup ran without administrator rights. Run Executive Cockpit Setup again and click Install
The Setup page was closed by mistake	Click Show Setup in the small Setup window, or start Executive Cockpit Setup again
The dashboard does not open	Start > SiPSAP > Executive Cockpit Setup > Repair
Another PC cannot connect	Check that Access is set to the office network, the firewall rule exists, and (internet) the router forwards the port
Certificate warning in the browser	Expected with a self-signed certificate. Install <code>cockpit-certificate.cer</code> on that PC, or use a real certificate for the exact name you type
Forgotten password	Executive Cockpit Setup > Forgot a password? , or <code>Manage-Users.cmd</code>
"No license is assigned to your user"	Assign a license type to the user in License administration
"Product files were changed after SiPSAP released them"	Reinstall the release exactly as it came from SiPSAP
License refused: "issued for another server"	Download a new request on this server and send it to SiPSAP

When something still fails, send the files in the `logs` folder (and for HANA, `logs\hana-check.txt` from `Check-Hana.cmd`) to SiPSAP support.

Appendix

A. Read-only SQL Server login (optional)

Run in SQL Server Management Studio, replacing the names and password. Repeat the **USE** line for every SAP company database and the payroll database.

```
CREATE LOGIN cockpit_reader WITH PASSWORD = 'use-a-long-password';
USE [YourCompanyDB]; CREATE USER cockpit_reader FOR LOGIN cockpit_reader;
ALTER ROLE db_datareader ADD MEMBER cockpit_reader;
USE [master]; GRANT VIEW ANY DATABASE TO cockpit_reader;
```

B. Read-only SAP HANA user

Run as SYSTEM in the tenant database. Repeat the schema grant for every company schema. CATALOG READ is optional; without it every company is read in full at each refresh.

```
CREATE USER COCKPIT_READER PASSWORD "Use-a-long-password1" NO FORCE_FIRST_PASSWORD_CHANGE;
GRANT SELECT ON SCHEMA "SBO_YOURCOMPANY" TO COCKPIT_READER;
GRANT SELECT ON SCHEMA "SBOCOMMON" TO COCKPIT_READER;
GRANT CATALOG READ TO COCKPIT_READER;
```

C. Tools in the program folder

Tool	What it does
Setup.cmd	Setup page; -Advanced for every setting, -Console for a console wizard (SQL Server only)
Open-Cockpit.cmd	Starts the cockpit if needed and opens the landing page
Stop-Cockpit.cmd	Stops the cockpit and its watchdog to free the port
Refresh-Data.cmd	Reads the SAP data again now
Manage-Users.cmd	Adds, resets or removes dashboard users
License.cmd	Shows the license and hardware key; -Request , -Install
Check-Hana.cmd	SAP HANA check of connection, translation and queries into logs\hana-check.txt
Check-*Module.cmd, Check-PayrollTables.cmd	List module or payroll tables per company into logs*.json for support
Uninstall.cmd	Opens the uninstaller

D. Data folder contents

C:\ProgramData\SiPSAP\Executive Cockpit holds **config\cockpit.config.json** (settings and users), **config\secrets** (encrypted database passwords), **config\license** (cockpit.lic), **logs**, **cache**, **backup** and **web\data**. Back up this folder to keep the cockpit's configuration.