

BouwOffice vNext requirements

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Scope

The purpose of this document is to list the hardware and software requirements for BouwOffice vNext.

Database Server

General

As a general rule KPD supports server software starting with "the current version -2" with the latest service packs installed. When a new version of server software is released, you will not have to update immediately, just keep up with service releases on your current version.

For a list of specific supported versions please refer to the software requirements sections in this document.

There can be no anti-virus software installed on the server. The server has to be a dedicated (virtual) server. The database server cannot be a domain controller nor a terminal server.

Hardware

Processor:

- 4 CPU / logical cores
- Equivalent "E5-2650 v3" / "Gold 52xx" or higher

Memory:

At least 6GB, preferably 8GB or more

Virtual disks: dedicated LUN's RAID 10

4 drives:

- OS (≥80GB)
- SQL (≥40GB)
- SQLDATA (≥40GB) on dedicated RAID 10
- SQLLOG (≥40GB) on dedicated RAID 10

Network:

A stable 1Gbit or better connection to the on-premise network is recommended

Internet:

Server access to the internet is required for remote access and for SSO (Single Sign-on).

Software

Operating System

Windows Server 2019 (with latest service pack and security updates)

The edition should be either Standard or Data Center. If you are using Essentials, please contact support.

Logon

A separate domain user 'KPD' with Local Administrative privileges should be configured.

.NET Framework

.NET Framework version 3.5 for running the database update scripts.

.NET Framework version 4.6.2 (x64) or newer for the service.

Database

Any of the following:

- SQL Server 2017 (with latest service pack)
- SQL Server 2019 (with latest service pack)

No Azure SQL.

SQL Server should be listening to a fixed port (1433).

The edition should be Standard or Enterprise. Note that Enterprise edition also needs at least Windows Server Enterprise edition.

Remote Access

KPD technicians need remote access with local administrative privileges on the server. The way this is set up may vary according to the specific circumstances of the network and security policies.

Access for software download

FTP access to <ftp.hidrive.strato.com> to download the latest version of BouwOffice.

Access to visualstudio.com and microsoft.com to download all the necessary software.

SSO – Active Directory

To enable single sign-on (SSO) for your users you will need to set up an Azure Active Directory that is synced with the on-premise AD domain. If you already have Office365 rolled out, only a simple further configuration step is needed.

If you don't have Office365 and do not have a synchronized Azure AD, this should be set up to enable SSO.

Setting up an Azure AD account is free and KPD can help you with this if required.

There are 2 ways to enable synchronization:

- Enable the Essentials-role on the Windows Server
 - o However, this is not advisable

- Install Azure AD Connect
 - o <https://docs.microsoft.com/en-us/azure/active-directory/hybrid/how-to-connect-sync-whatifs>

As a best practice, it is advised to setup a Group in Active Directory (e.g. BouwOffice users) containing all users with access to BouwOffice. Only this group needs to be synced with Azure AD.

Client

Hardware

In case you decided to use our BIM-integration, the client's hardware should suffice to the BIM-software's system requirements in addition to vNext's requirements.

Processor:

- At least 2GHz
- At least 4 physical cores
- x64 Processor

Graphics:

At least DirectX 10 supporting driver for best performance (Intel, AMD, NVidia, ...)

Screen resolution of at least 1920x1080

Memory:

At least 8GB

Disk:

At least 500MB free disk space

Network:

At least 100Mbit stable access to the on-premise network

Software

Operating System

Any of the following:

- Windows 8.1 (latest service pack and security updates)
- Windows 10 v1909 or later (latest service pack and security updates)

The edition should be either Home, Professional or Enterprise.

! 3rd party anti-virus at own risk, unsupported by KPD

.NET Framework

.NET Framework version 4.6.2 (x64) or newer

SSO – Active Directory

The KPD Single Sign-on solution requires internet access to <https://login.kpd.be> , <https://login2.kpd.be> and <https://login.microsoftonline.com> (ssl, cookies and javascripts should be enabled).

Firewall

SQL Server

The server hosting the SQL Server should allow inbound access port 1433 (TCP). If a named SQL Server Instance is used, inbound access to port 1434 (UPD) should also be allowed.

LogEntries

LogEntries is used as a centralized (online) system to collect application logs.

A list of IP addresses and ports that need to be allowed in an outbound connection can be found at <https://docs.logentries.com/docs/firewall-settings-ip-addresses-ports-protocols/#windows>.

See:

- IP addresses required to be open for data.logentries.com
- Ports required to be open on the above IP addresses

Application Insights

Azure Application Insights is used for telemetry and application logs.

A list of IP addresses and ports that need to be allowed in an outbound connection can be found at <https://azure.microsoft.com/en-us/documentation/articles/app-insights-ip-addresses/>

SSO – Active Directory

Outbound connections should be allowed for <https://login.kpd.be> , <https://login2.kpd.be> and <https://login.microsoftonline.com>

BIM

BIM-integration

Please make sure that your BIM software has been installed before the installation of vNext.

Support

When you have chosen to use vNext and our BIM-integration, it would be useful to foresee a physical machine to ensure support. This machine should have the Client's requirements for vNext and an installed version of Revit, an useraccount for KPD accessible through remote access.