

Document Information

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002	2018-Feb-28	David Montgomery	Update content
003	2019-Feb-13	David Montgomery	Update to standard format and review / update content
004	2019-May-20	David Montgomery	Update .Net Pre-Requisites. Remove .Net 3.0 Update .Net 4 from 4.5.2 to 4.6.1 Update .Net 4.6.1 download link
005	2019-Jun-17	David Montgomery	Revised minimum server spec. for v2.5.0.0
006	2020-Jan-17	David Montgomery	Make corrections (previously v2.5.0.0, should be 2.3.1.x) and revise content following release of 2.3.1.x Add .Net 4.6.2 download link
007	2020-Oct-15	David Montgomery	Add requirement of a physical (not virtual) workstation for the DAS-SQL Client if using USB fingerprint scanner / card programmer Add DAS-SQL Client download link for C++ 2019 Redistributables Correct typos

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Contents

DAS-SQL Server Minimum Specification	3
DAS-SQL Client Minimum Specification	3
DAS-SQL Server Pre-requisites	4
Download Links	4
.NET 4.6.2	4
.NET 4.6.1	4
SQL Server 2016 Express SP2	4
SQL Server 2019 Express	4
DAS-SQL Client Pre-requisites	5
Download Links	5
.NET 4.6.2	5
.NET 4.6.1	5
Microsoft Visual Studio 2013 C++ Redistributables	5
Microsoft Visual Studio 2015/2017/2019 C++ Redistributables	5
Post Installation of Pre-requisites	5
DAS-SQL Client / Server Settings	6
DAS-Server Device Discovery Settings	6
The Digitus Ethernet Utility	6
DAS-Server to Digitus Hardware Communication Settings	6
Digitus Bootloaders	7

DAS-SQL Server Minimum Specification

Microsoft Windows Server 2016 or above
Microsoft SQL Server 2016 Express or above (DASSQL-10 to DASSQL-50)
Microsoft SQL Server 2016 Standard or above (DASSQL-100 and above)
2 CPU cores
8 GB RAM (recommend 16GB+ for bigger installations / workloads)
250GB HDD (recommend SSD)
TLS 1.2 or higher

DAS-SQL Client Minimum Specification

Microsoft Windows 7 SP1 or higher
64bit Desktop Operating System
4GB RAM
10GB hard disk space

If being used to capture fingerprint templates and/or read or program RFID cards, a physical workstation is a requirement for the DAS-SQL Client due to USB pass through limitations.

DAS-SQL Server Pre-requisites

Please restart the computer at any stage you are prompted to do so.

DAS-SQL	.NET 3.0	.NET 4.5.2	.NET 4.6.1	.NET 4.6.2	Supported SQL Versions
v.2.3.x.x				•	SQL Server 2016-SQL Server 2019
v2.3.1.x	•			•	SQL Server 2016-SQL Server 2019
v2.2.99.89	•		•		SQL Server 2016-SQL Server 2019
v2.2.99.88	•	•			SQL Server 2012 R2-SQL Server 2019
v2.2.99.87	•				SQL Server 2012 R2-SQL Server 2019
v2.2.99.86	•				SQL Server 2012 R2-SQL Server 2019

Download Links

Please note that while we always try to make sure these links are valid, they are external links managed by Microsoft and, as such, we cannot guarantee their continued validity.

.NET 4.6.2

Download location <https://www.microsoft.com/en-us/download/details.aspx?id=53344>

.NET 4.6.1

Download location <https://www.microsoft.com/en-us/download/details.aspx?id=42642>

Download and run each installer, which require no configuration during installation.

SQL Server 2016 Express SP2

Download location <https://www.microsoft.com/en-us/download/details.aspx?id=56840>

SQL Server 2019 Express

Download location <https://go.microsoft.com/fwlink/?linkid=866658>

DAS-SQL Client Pre-requisites

Please restart the computer at any stage you are prompted to do so.

DAS-SQL	. NET 3.0	. NET 4.5.2	. NET 4.6.1	.NET 4.6.2	MS VS C++ 2013 Redist x32	MS VS C++ 2013 Redist x64	MS VS C++ 2015 Redist x32	MS VS C++ 2015 Redist x64	MS VS C++ 2019 Redist x64
v2.3.x.x				•					•
v2.3.1.x	•			•				•	
v2.2.99.89	•		•		•	•	•	•	
v2.2.99.88	•	•			•	•	•	•	
v2.2.99.87	•				•	•	•	•	
v2.2.99.86	•				•	•	•	•	

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.NET 4.6.2

Download location <https://www.microsoft.com/en-us/download/details.aspx?id=53344>

.NET 4.6.1

Download location <https://www.microsoft.com/en-us/download/details.aspx?id=49982>

Download and run each installer, which requires no configuration during installation.

Microsoft Visual Studio 2013 C++ Redistributables

Download location <https://www.microsoft.com/en-us/download/details.aspx?id=40784>

Download and run the installer, which requires no configuration during installation.

Please note that both the x86 and x64 versions of the C++ Redistributables are required.

Microsoft Visual Studio 2015/2017/2019 C++ Redistributables

Download location https://aka.ms/vs/16/release/VC_redist.x64.exe

Download and run the installer, which requires no configuration during installation.

Post Installation of Pre-requisites

In order to ensure that the latest security patches and fixes are applied, run Windows Updates on the DAS-SQL server and any DAS-SQL Client PCs.

DAS-SQL Client / Server Settings

The DAS-SQL Client communicates with the DAS-SQL Server Component over an IP Socket using Transport Layer Security (TLS) 1.2

The default TCP port used for the communication is 15082.

DAS-Server Device Discovery Settings

The DAS-SQL Server Component is capable of using UDP broadcasts to auto-detect new devices during initial configuration.

Because UDP broadcasts only work on a single (local) network segment, the DAS-SQL Server Component can only auto detect devices that are on the same network segment as itself.

The UDP Broadcast uses ports 65532 thru 65535 as follows:

Digitus Device Type	UDP Port
db Cabinet Sentry (Sentry)	65532
db Bus Controller (Bus)	65533
db Nexus (Nexus)	65534
db Zero-U (Zero-U)	65534

The Digitus Ethernet Utility

If the Digitus hardware is on a different network segment to the DAS-SQL Server, the Digitus “Ethernet Utility” must be used to program the IP settings of the device before adding it to DAS-SQL. You must specify how the Digitus hardware will obtain the following:

- IP address – can be static or DHCP assigned. Static is the recommended setting.
- Subnet Mask
- Default Gateway
- Listening Port (default TCP port 1001).

The Digitus “Ethernet Utility” can either be run from a PC/Laptop connected to the same network segment as the Digitus Hardware or from a PC/Laptop that is directly connected to the Digitus Hardware with a CAT5 crossover cable.

DAS-Server to Digitus Hardware Communication Settings

All communication between the DAS-SQL Server Component and Digitus Hardware is done over IP Sockets using Transport Layer Security (TLS) 1.2

The default TCP ports used for communication are 1001 and 1002 (this is a debug port that is used in troubleshooting communication and device issues).

Note that your firewall must be configured to allow communication between the DAS-Server and Digitus IP addressable hardware on TCP Port 1001 (default) and 1002 (debug only).

Digitus Bootloaders

All Digitus Hardware Devices are capable of being flash-upgraded via a boot-loading process.

The communication of the bootloader is done using both TCP and UDP protocols.

The bootloader operates directly between the DAS-SQL Client and the Digitus Device.

The default TCP port for the bootloader is 1001.

The default UDP port for the bootloader is 16388.