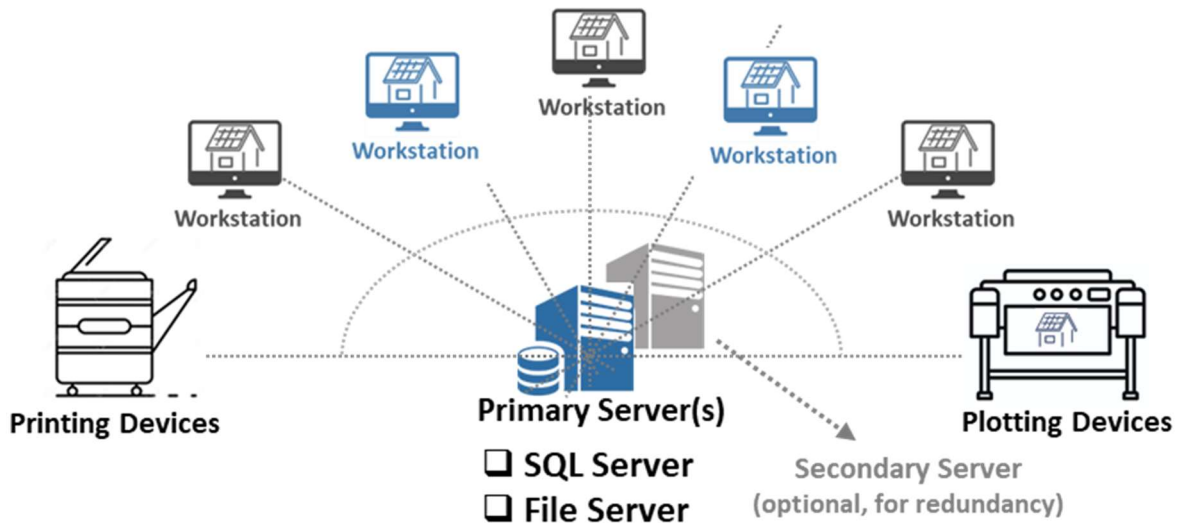# IntelliVIEW Suite, SteelVIEW and eShop Hardware Requirements

Alpine Client-Server Network Configuration
This is a depicted network diagram, please consult your IT team for actual network configuration.

Workstation (Client)
The configuration detailed below is for a Client PC. A client is a computer running Alpine IntelliVIEW application but connected to a database located on another computer.

	Minimal (Entry Level)	Alpine Recommended (Performance)
Operating System	Windows 10* Pro 32/64 bit	Microsoft Windows 10*/11 Ent. Or Pro 32/64 bit
Processor (CPU):	Intel Xeon or Core i5/i7 2.4/3.6GHz	Intel Xeon Gold 3.9 GHz Turbo or Core i7/i9 3.1/5 GHz
Memory (RAM)	8 GB DDR4 RAM	32/16 GB DDR4 RAM or more
Video	Nvidia Quadro P series w/2GB Or AMD Radeon Pro WX series	Nvidia GeForce RTX series w/8 GB Or AMD Radeon Pro WX series w/ 8GB
Hard Drive	256 GB SSD	1 TB SSD
Example	1 Dell Precision Series 2 HP Workstation Z1 G5 Entry - tower	1 Precision 7920 Tower Workstation, Xeon Gold 2 HP SB Z6 G4 Workstation Xeon
Monitors	Single or Dual monitors, 1920 x 1080 resolution	Dual monitors, 1920 x 1080 resolution
Network (NIC)	1Gbps LAN network, Latency less than 2 milliseconds	
Internet Access	High speed internet access (DSL/ Cable)	
Additional	Microsoft Access 2010	

* Windows 10 requires the 20H2 Service pack or later for .Net 4.8.1 Compatibility

[1] Please refer to Microsoft's official documentation for Operating System, SQL Server and ODBC connectivity and other requirements.

[2] Please consult Alpine's Support team for additional recommendations (helpdesk@alpineitw.com)

Alpine SQL/File Server

The configurations described below are for the server hosting the Alpine *iCommand* and *eShop* database. The number of user's column indicates how many Client computers will be connecting to this server. A Client is a computer running Alpine IntelliVIEW Suite that is connected, via a network, to the database on the server.

	Professional[1] (1 – 15 Users)	Enterprise[2] (15 – 15 Users)
Operating System	Windows Server 2022, 2019 or 2016	Windows Server 2022, 2019 or 2016
SQL edition	Microsoft SQL Server 2016[3], 2017, 2019, or 2022 Standard, Pro of Express Edition	Microsoft SQL Server 2016[3], 2017, 2019, or 2022 Standard or Pro Edition
Processor (CPU):	Intel Xeon or Intel i7, 4 core, 3.6/4.5 GHz	Intel Xeon or Intel i7/i9 6 core, 3.6/4.5 GHz
Memory (RAM)	16 GB RAM or more	32 GB RAM or more
Video		Use Default
Hard Drive	500 GB or 1 TB SSD or SATA HDD	250 GB SSD or SATA HDD (Host OS) 250 GB SSD or SATA HDD (SQL Server) 1 TB SSD or SATA HDD (SQL Data) Note: for redundancy consult Alpine support
2nd Storage[2]	1 TB SSD or SATA HDD (optional)	2/4 TB SSD or SATA HDD (optional)
Monitors	Standard	Standard
Network (NIC)	1Gbps LAN network, Latency less than 2 milliseconds	
Internet Access	High speed internet access (DSL/ Cable)	
Environment	Physical or VMs	
Additional		
1 Single Server, hosting both SQL & File Shares		
2 Dedicated Two Servers, one for SQL and other for File Server		
3 The IntelliVIEW 24.02.00 release will be the last version to officially support SQL Serve 2016		
*** 25+ Users: Please consult with your Alpine representative for specific details		

Standalone File Server
Two Dedicated Servers, one for SQL and other for File Server

	[Optional] Dedicated two server configurations
Operating System	Windows Server 2022*, 2019 or 2016
Processor (CPU):	Intel Core i5/i7/i9, 9th Gen
Memory (RAM)	8 or 16 GB SDRAM RAM or more
Video	
Hard Drive	2 TB, SSD or SATA HDD
Monitors	Standard
Network (NIC)	Gigabit
Environment	Physical or VMs

* Due to .NET 4.8.1 requirements if IntelliVIEW is to be installed on the server workstation, it will need to be Windows Server 2022 or later.

Performance Considerations

Hard Drive Speed
Minimum 7200 RPM drives, although Solid State Hard Drives (SSD) are highly recommended for best performance.

Video Card
1GB RAM per monitor is highly recommended for users designing large multifamily or commercial structures.

Local Area Network
For best performance, a wired Gigabit (10/100/1000) network is recommended

For Highest Performance
- CPU with Base Frequency > 3.0 GHz
- SSD with > 500MB/s Read & Write Speeds
- Professional Workstation Graphics Card (i.e. NVidia Quadro)
- 32GB RAM recommended if multitasking (i.e. running STITCHER or viewing large output files or models simultaneously.)

Unsupported Operating Systems

Beginning with IntelliVIEW Suite 22.x following operating systems are not supported:

- ❖ Windows 95, 7 and 8
- ❖ Windows server 2012
- ❖ SQL Server 2012
- ❖ MS Access 2010

Backup Solution (Server):
Backups are the last thing everyone thinks about when implementing software. We here at Alpine not only recommend backup solutions for a Server running our IntelliVIEW Suite of products but backup all workstations from time-to-time.

Disaster Recovery Guidelines:
Disaster can strike at any moment, and it comes in a multitude of forms. Create strategy and plans to reduce and mitigate your risks.

Revisions			
Revision	Description	Date	Approved
2023 (rev 1)	Updated Windows Server and SQL Server requirements. Various Minor updates	12/13/22	Luke Kratofil
2023 (rev 2)	Updated Windows Server and Windows Workstations recommendations to include windows 11 and Windows Server 2022	12/22/22	Luke Kratofil
2023 (rev 3)	Added recommendations for cloud environments and production tablets	5/11/23	Luke Kratofil
2024 (rev 4)	Added .Net 4.8.1 related requirements and dependencies. Reference to upcoming SQL 2016 EOS	1/24/24	Luke Kratofil