



ETAP 2024 System Requirements

ETAP Design & Analysis Solutions				
Operating System (64-bit Microsoft Windows®)	<ul style="list-style-type: none"> • Microsoft® Windows® 11 (Professional) • Microsoft® Windows® 10 (Home Premium, Professional, Enterprise) • Microsoft® Server 2022 (Standard) • Microsoft® Server 2019 (Standard) 			
PC Ports	USB Type-A port for hard security key only			
Display & Graphics	Video card with hardware support for Direct2D Basic: 21" monitor or better with 1920 x 1080 (True Color) Recommended: High Resolution & 4K Displays 27" dual monitors with resolutions 3840 x 2160 (True Color) or better			
Network	Ethernet port or WiFi with network access for network licensing & software download			
Pointing Device	MS-Mouse compliant			
Disk Space	Installation Only: 30 GB Installation + Projects: 100 GB (based on number of projects, project size, number of buses, backup retention options) Recommended for 10,000 Bus or greater projects: Solid State Disk (SSD): 200 MB/s or better read/write speed Recommended for 20,000 Bus or greater projects: NVMe m.2 (Nonvolatile Memory Express): 5GB/s or better read/write speed			
Processor (CPU) & Memory (RAM)	Project Size	CPU	Speed	Memory Size
	100 Bus	Intel Core i5 or better	2.4 GHz or better	8 GB of RAM
	500 Bus	Intel Core i5 or better	3.0 GHz or better	8 GB of RAM
	1,000 Bus	Intel Core i7 or better	3.0 GHz or better	16 GB of RAM
	10,000 Bus +	Intel Core i9 or better	3.0 GHz or better	32 GB of RAM
Software Prerequisites	Microsoft® Edge or Google Chrome			



<p>Third-party packages installed with ETAP</p>	<ul style="list-style-type: none"> • Microsoft .NET Framework v4.8 • Microsoft Visual C++ 2015 • Microsoft Visual C++ 2019 • Intel® Visual Fortran Redistributable: Intel® 64 Setup 2019.0.117 • Microsoft SQL Server 2019 Express LocalDB (x64) • Microsoft ODBC Driver 17 for SQL Server • Microsoft SQL Server Compact 4.0 SP1 x64 • SQLite ODBC Driver 0.9995 • MongoDB 64 bit 4.2.3 • Microsoft Access Database Engine 2016 • OpenSSL 1.1.1j • SAP Crystal Reports runtime engine for .NET Framework CR13 SP26
<p>Other Third-Party Packages</p>	<p>Python 3.8.4</p>

ETAP Operations, Automation & Management Solutions

<p>Operating System (64-bit Microsoft® Windows®)</p>	<ul style="list-style-type: none"> • Microsoft® Windows® 11 (Professional) • Microsoft® Windows® 10 (Home Premium, Professional, Enterprise) • Microsoft® Server 2022 (Standard) • Microsoft® Server 2019 (Standard)
<p>PC Ports</p>	<p>USB port for security key only</p>
<p>Display & Graphics</p>	<p>Video card with hardware support for Direct2D Basic: 21" monitor or better with 1920 x 1080 (True Color) Recommended: High Resolution & 4K Displays 27" dual monitors with resolutions 3840 x 2160 (True Color) or better</p>
<p>Network</p>	<p>Ethernet port or WiFi w/ network access (for network licensing & software download)</p>
<p>Pointing Device</p>	<p>MS-Mouse compliant</p>



Disk Space	<p>Installation Only: 30 GB Installation + Projects: 100 GB (based on number of projects, project size, number of buses, backup retention options) Recommended for 10,000 Bus or greater projects: Solid State Disk (SSD): 200 MB/s or better read/write speed Recommended for 20,000 Bus or greater projects: NVMe m.2 (Nonvolatile Memory Express): 5GB/s or better read/write speed</p>																				
Processor (CPU) & Memory (RAM)	<table border="1"> <thead> <tr> <th>Project Size</th> <th>CPU</th> <th>Speed</th> <th>Memory Size</th> </tr> </thead> <tbody> <tr> <td>100 Bus</td> <td>Intel Core i5 or better</td> <td>2.4 GHz or better</td> <td>8 GB of RAM</td> </tr> <tr> <td>500 Bus</td> <td>Intel Core i5 or better</td> <td>3.0 GHz or better</td> <td>8 GB of RAM</td> </tr> <tr> <td>1,000 Bus</td> <td>Intel Core i7 or better</td> <td>3.0 GHz or better</td> <td>16 GB of RAM</td> </tr> <tr> <td>10,000 Bus +</td> <td>Intel Core i9 or better</td> <td>3.0 GHz or better</td> <td>32 GB RAM</td> </tr> </tbody> </table>	Project Size	CPU	Speed	Memory Size	100 Bus	Intel Core i5 or better	2.4 GHz or better	8 GB of RAM	500 Bus	Intel Core i5 or better	3.0 GHz or better	8 GB of RAM	1,000 Bus	Intel Core i7 or better	3.0 GHz or better	16 GB of RAM	10,000 Bus +	Intel Core i9 or better	3.0 GHz or better	32 GB RAM
Project Size	CPU	Speed	Memory Size																		
100 Bus	Intel Core i5 or better	2.4 GHz or better	8 GB of RAM																		
500 Bus	Intel Core i5 or better	3.0 GHz or better	8 GB of RAM																		
1,000 Bus	Intel Core i7 or better	3.0 GHz or better	16 GB of RAM																		
10,000 Bus +	Intel Core i9 or better	3.0 GHz or better	32 GB RAM																		
Software Prerequisites	<p>Microsoft® Edge or Google Chrome</p>																				
Third-party packages installed with ETAP	<ul style="list-style-type: none"> • Microsoft .NET Framework v4.8 • Microsoft Visual C++ 2015 • Microsoft Visual C++ 2019 • Microsoft SQL Server 2019 Express LocalDB (x64) • Microsoft ODBC Driver 17 for SQL Server • OpenSSL 1.1.1j • SAP Crystal Reports runtime engine for .NET Framework CR13 SP26 • SQLite ODBC Driver 0.9995 • Intel® Visual Fortran Redistributable: Intel® 64 Setup 2019.0.117 • Microsoft SQL Server Compact 4.0 SP1 x64 • Microsoft Access Database Engine 2016 • MongoDB 64 bit 6.0 																				
Other Third-Party Packages	<p>Python 3.11.4</p>																				