TopoDOT® Tech Notes

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TopoDOT For MicroStation Connect System Requirements (#1026)

Background

TopoDOT® for MicroStation Connect is a 64-bit application that will perform well on moderately priced standard workstations or laptops meeting the following specifications.

Minimum:

Processor:	Core 2 Duo 2.26 GHz
Memory:	4 GB
Video Memory:	512MB
Operating System:	Windows 7 64 bit
Hard Drive:	500GB @ 5400 RPM

Mid-Range:

Processor:	Intel Core i5 6th Gen
Memory:	8 GB DDR4-2133
Video Memory:	1+ GB (NVIDIA GeForce GTX 960)
Operating System:	Windows 7 64 bit.
Hard Drive:	1TB @ 7200 RPM

High End:

Processor:	Intel Core i7-6700k
Memory:	16+ GB DDR4
Video Memory:	4+ GB (NVIDIA GeForce GTX 980 Ti)
Operating System:	Windows 10 64 bit.
Hard Drive:	1+TB Solid State Drive

CPU
Faster processor will speed up tool processing time. TopoDOT for MicroStation Connect will utilize multiple cores; therefore, the number of cores, faster clock speeds, and current architecture will all directly affect TopoDOT performance. Processor recommendation would be a current-generation Intel i5 or i7.

RAM
When loading data into TopoDOT to display / process, the data is loaded into RAM. MicroStation Connect is 64-bit, so the amount of point cloud data that can be loaded will depend on the amount of RAM available on the system. Faster memory clock speeds will provide TopoDOT tools faster access to the point cloud data; thus improving performance. 16GB will allow for roughly 500 million points, 32GB would allow roughly 1 billion points.
The more point cloud data that is loaded, the slower some tools may perform. Therefore, it is not recommended to go beyond 24GB of memory.

Hard Drive
Hard drive speed will influence data load times as the hard drive read/write speeds will be the bottleneck when the data is read from the hard drive and loaded into RAM. Solid State Drives are recommended.

Questions and/or Comments please contact:

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