Is the default time step one minute? If not, can the time step be changed without affecting many formulas? Although other time steps are possible, a minute-by-minute time step would be ideal for our runtime goal.

DTALite simulation uses a fixed 6-second interval for the meso link model and a 0.1-second interval for the microsimulation model to adhere to link length constraints for the First In, First Out (FIFO) principle. However, the queue-vdf based analytical function produces continuous time output with a 15-minute interval.

When running tests that measure one virtual day on the ASU network, what were the runtimes like? Were they run on a server, and if so, what were the server specifications?

The analytical QVDF for the entire NVTA model took 20 minutes, but the links are aggregated in nature. Definite answers are needed for the ASU network.

Since the path of each agent is stored in the g_column_pool, can it be modified while the code is running? Can we change the path of one or multiple agents in the middle of the simulation, such as at virtual time 2:00 p.m.?

Yes, it can be changed, but currently only through an offline fashion. However, we can enable more DLL API to load the paths in real-time.

Can the estimated average waiting time value for a link be changed? Would it be possible to alter the paths of a subset of agents who plan to use that link?

Yes, it can be changed, but only through real-time DLL API in the next version.