**SimpleIoT Simulator™**

*The Internet Of Things Simulator*

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**Overview**

**SimpleIoT Simulator** is an easy to use, IoT device simulator that quickly creates test environments made up of thousands of sensors and gateways, all on just one computer.

**SimpleIoT Simulator** supports many of the common IoT protocols like MQTT, MQTT-SN, CoAP, HTTP/s, Modbus, BACnet and LoRa to enable IoT solution vendors improve product quality and significantly shorten their time-to-market without incurring large capital expense for creating test infrastructure. The simulator can “learn” from existing devices to duplicate customer environments, or use the learnt data as a template to create thousands of sensors and gateways. It can even create scripted error scenarios on demand. Both IPv4 and IPv6 sensors are supported and the simulator includes built-in support for lossy behavior in constrained environments. Example scripts to work with popular platforms like Azure IoT, IBM Bluemix, Amazon AWS, Apache Kafka and others are available to facilitate quick setup.

**Applications**

Development and QA groups can do scalability and functional testing without large infrastructure. Sales groups can create realistic demos that highlight application features to show ROI prior to deployment and shorten sales cycles. Professional services can create targeted services using duplicated customer environments while Tech Support departments can more easily reproduce customer problems in their test labs, and even Training departments can quickly create portable teaching environments. SimpleIoT Simulator can also be used to model sensor/gateway data for creation of different physical environments like connected cars, smart-cities, and LoRaWAN, NB IoT, Sigfox networks.

**Operation**

Only a few simple steps are required to start using the **SimpleIoT Simulator**. They are:

- Use the built-in learner utilities to record packet exchanges from real sensors and gateways.
- Use this learnt data as a template to create test environment with thousands of IoT sensors.
- Run scripts to create error scenarios, generate notifications and dynamically change properties.

Support for changing data is built-in without requiring any user programming as is lossy behavior and delay. To support additional management protocols like SNMP, Telnet/SSH an IoT management module is available within the popular SimpleAgentPro and SimpleAgentEnterprise.

**System Requirements**

- 64bit Linux