

Nebbiolo Fog Computing Platform

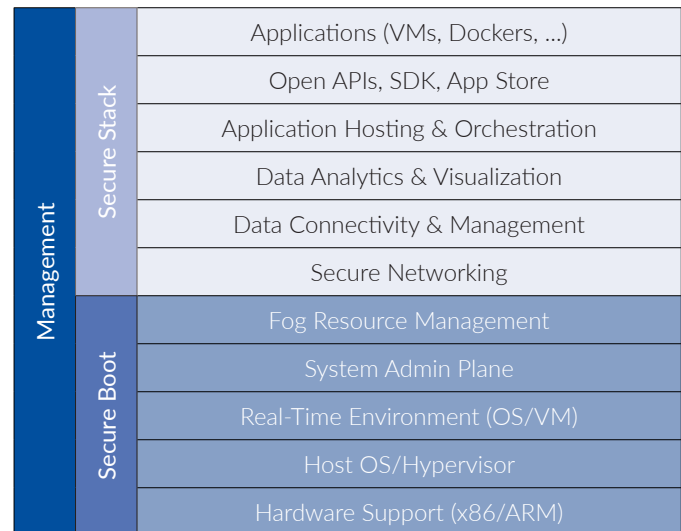
Nebbiolo Technologies' Fog Computing Platform is a complete software solution, bridging the gap between the end devices and the cloud infrastructure. The platform is comprised of fogNode™ hardware, the fogOS™ software stack, and the fogSM™ system manager which is deployed in the cloud or on-premises.

Nebbiolo fogOS Software

The fogOS is the rich software environment that powers the fogNode. Based on a real-time capable hypervisor, the fogOS stack provides a rich set of functionalities in a virtualized manner. A wide range of device connectivity standards are supported, such as Profinet and EtherCAT.

The fogOS' highly-tuned software infrastructure enables the hosting of real-time control applications, such as soft-PLCs, and supports current industrial protocols. Support for Time Sensitive Networking (TSN) enables future Industry 4.0 standard based communication. OPC-UA server and client support allows the use of information model based data exchange between devices and applications.

A databus, which implements a range of messaging standards like MQTT and AMQP, also provides configurable data rights management which allows access rights to be applied to data streams. An open source based Time Series Data Base (TSDB) forms the foundation for the edge analytic infrastructure.



fogOS Software Stack