

Nebbiolo Fog Computing Platform

The Nebbiolo Fog Computing Platform is a mini data center at the edge, bridging the gap between the IoT 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

fogOS™ is a 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 real-time control applications, such as softPLCs, 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.

Manageability	Secure Stack	Business Application
		IoT Infrastructure
		Application Hosting & Orchestration
		Middleware
		Cloud Infrastructure
	Secure Boot	Fog Infrastructure
		Admin Plane
		RTOS/Kernel
		Host OS/Hypervisor
		Hardware (X86/Arm)

Notes

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