

4. vRealize Operations Manager for Data Collection and Analysis

Traditional operations management systems do not meet the requirements of today’s virtual and cloud infrastructures. They make IT too reactive because they lack the intelligence to aggregate, correlate, and analyze metrics across applications and infrastructure stacks. VMware vRealize Operations Manager is built on a scale-out, resilient platform that delivers intelligent operational insights to simplify and automate management of applications and infrastructure in one place.

4.1 Project Helix Brings vRealize Operations Manager to the Internet of Things

At its core, vRealize Operations Manager is a telemetry acquisition and analysis tool. Project Helix is a recently created incubator program at VMware. The project proposes to bring the mature function in vRealize Operations Manager for data center objects to telemetry data collected from external devices. Inherent in this approach is the abstraction that IoT edge-aggregation systems (such as the head unit in a vehicle) can be considered as *just another data source*, albeit one with many more metrics to stream and a much higher scaling factor. With this abstraction, not only vRealize Operations Manager, but also other management tools, such as VMware vRealize™ Log Insight™, can be used with IoT edge-aggregation systems. The current release of vRealize Operations Manager greatly expands the componentization of the core engine, providing for pluggable adapters (which define the communications between external devices, the look and feel of the GUI, actions, alert types, symptom types, and the like) and a complete public, documented REST API, which allows programmatic access to all engine features.

Figure 4. vRealize Operations Manager Dashboard with Sample Conditions and Violations

