Software Defined Unified Device Management for Smart Environments

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Abstract

Applications such as street lights, parking meters, traffic light and congestion sensors, safety cameras, air quality sensors, weather sensors, remote personal healthcare monitors, and acoustic detection define the new world of “Smart Environments” that we live in. The technologies driving these applications are customized to the environment in which they run. The backhauling infrastructure to support each application is as diverse as the application itself. An abstraction which hides the complexities of such disparate systems presenting a unified view is desired. Integrated management platform aids in comprehensive management of the infrastructure. “Smartness” also means it is ready to use by just plug and play. A plug-in based implementation supports multiple vendor devices while a unified northbound controller ensures minimal vendor lock for the applications running on the top.

References


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Keywords

Smart Environment unified device access; Smart Environment device management
IoT vendor locks

Index Terms

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