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DCIM reinvented

COMPARISON GUIDE

Cloud-based vs. Legacy DCIM Software

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COMPARISON GUIDE: CLOUD-BASED VS. LEGACY DCIM SOFTWARE

	Hyperview Cloud-based DCIM	LEGACY DCIM
ARCHITECTURE	**Cloud-native software**[1] ○ Architecture future-proofs an enterprise in its pursuit of a cloud-first strategy that delivers greater cost predictability and control, faster deployment, instantaneous software updates/patches, on-demand scale, enterprise-grade security, and geographical redundancy/DR ○ Microservices and container based which allows for rapid development and innovation ○ Leverages cloud technologies that are validated and tuned for consistent delivery. For example, core application data can live in a traditional SQL based database service, while telemetry data can live in a scale-out noSQL database, allowing for longer data retention periods and deeper analysis and correlations ○ Scales horizontally and vertically where needed. For example, data ingestion and analytics and be tuned independent of other parts of the application ○ Deployed in a "Cloud-Native Runtime" like Kubernetes ○ Deploy capacity when you need it, start small and scale ○ Simple maintenance, update, and upgrade cycles	**Traditional enterprise software** ○ Designed to be installed on-premises with capex requirements and internal resources to support software patches, updates, and upgrades ○ Claim of 'cloud software' is not a cloud-native architecture here, but rather a 'cloud hosted' version of the traditional enterprise software; the benefits of cloud here are very limited ○ Larger application bundles ○ Tight coupling between operating system and other system components ○ Complicated maintenance structure

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DEPLOYMENT	**Scale-out architecture** Services and containers are automatically deployed to manage workloads and provide scale in a seamless automated manner with a tight connection to the underlying infrastructure	**Scale-up architecture** ○ Database, storage, compute must be sized and pre-committed in advance ○ Upgrades/updates for all system components are not easy and are usually disruptive ○ Very tight coupling with underlying infrastructure
BACKUP AND REDUNDANCY	**Built-in** Engineered within the cluster and multiple regional zones in case of catastrophic data center failures	**Add-on** Needs to be architected as part of the solution and adds complexity, cost, and overhead
ROLLOUT	**Cloud-native to Microsoft Azure**	**Bare metal server (on-premises) and/or private cloud**

[1] Please refer to Diagram A: Cloud-Native Software Architecture

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CLOUD SECURITY	**Security backed by Microsoft Azure** Hyperview leverages Microsoft Azure's vast investment in providing secure PaaS applications that form the foundation of Hyperview's application delivery system. This inherently makes the application more scalable and more secure. ○ Global infrastructure of 160+ data centers in 60+ regions ○ Has more compliance certifications than any other cloud provider ○ Invests more than USD $1B annually on cybersecurity R&D ○ Employs 3,500+ security experts entirely dedicated to data security and privacy	**Dependent on cloud hosting provider** Varies based on where the private cloud is deployed, and who and how it is managed and administered
MOBILITY	**Completely responsive web design** Hyperview UX/UI is designed from the ground up to function equally on mobile, tablet and desktop through a simple web browser under a responsive web design ethos	**Refactored as a mobile app** An app is designed to make the traditional enterprise software available for mobile use, which almost always places limits on functionality compared to the desktop version it was originally designed for

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FUNCTIONALITY	**Single pane of glass, intuitive drilldown approach** All the DCIM functionality is consumed by the user under the same familiar pane of glass. Access to each asset is through a 'drill down' approach – drill down from a geographical map down to a data center, to a rack, to a server–all the way to a virtual machine and components	**Different modules** ○ Application is consumed through independent modules that deliver a fragmented end-user experience ○ For example, Sunbird ships both DC tracks and PowerIQ which are very different
UPGRADES/ UPDATES	**No additional cost or downtime** ○ Included in the subscription pricing, no additional charges ○ Instant software updates and upgrades with no downtime–as a user has come to expect from software-as-a-service products ○ No capex and/or capex upgrade requirements–ever	**Expensive and often messy** ○ Upgrades may be included in a subscription model but are usually extra in a perpetual model ○ Because of the tight coupling to the infrastructure, maintenance and upgrade operations can be expensive, complicated and time consuming with downtime

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PROFESSIONAL SERVICES	**Focused on self-service model** ○ Hyperview is designed for self-service, so as to greatly minimize professional services costs associated with traditional enterprise DCIM software ○ Heavy focus on publishing how-to and getting stared videos, comprehensive documentations, and courses that key off the simplicity and intuitiveness of Hyperview's UX ad UI	**Hefty professional services contracts** ○ Professional services are often a major revenue source for traditional DCIM providers ○ Lengthy and costly locked-in contracts that cover installation, training, and ongoing support and maintenance
API AND INTEGRATIONS	**Open, fully documented REST API** All product functionalities can be consumed via the API	**Depends on the DCIM software provider**
ACCESS CONTROL	**Built-in** Access Control is built into the foundation of the cloud-native application, thus available out-of-the-box. Access control is granular down to the asset level and is enforced at all levels of the application, UI and API	**Unavailable or add-on** Multi-tenancy is either unavailable or an expensive add-on module

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AUTO-DISCOVERY	**Robust, multi-protocol auto-discovery tool** ○ Vendor agnostic discovery and monitoring ○ Agentless, with no need to install any software on target machine ○ Multi-protocol: covering infrastructure protocols like SNMP and IT protocols like IPMI, VMware and WMI ○ Automated change detection and logging ○ Monitoring built-in ○ Scales horizontally to any size infrastructure ○ Data-driven, add device support without major updates or patches	**Less coverage, more support required** ○ Less protocol coverage of infrastructure, mostly SNMP ○ Limited device type support, mostly Power equipment like rack PDUs ○ Device support requires change control windows to apply database and/or code patches ○ Requires third-party add-ons for additional support for IT equipment
ASSETTRACKER	**Instant, affordable and 100 percent accurate** ○ Agentless tracking software ○ Automated location tracking up to the rack unit ○ In-rack U-level and in-room location detection for complete data center coverage ○ Provides real-time asset audits and enables lifecycle management ○ Streamlined receiving and equipment provisioning tracking ○ Flexible: three options for provisioning based on need ○ Cost effective: pay as you grow	**Costly and less reliable** ○ Integrates with weaker antenna-based systems ○ Provides only *approximate* location ○ Requires upfront capex commitment ○ Complex installation and training

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DIAGRAM A: Cloud-Native Software Architecture