

	SmartZone Cloud™	Sunbird	Nlyte	StruxureWare
ARCHITECTURE	 Cloud-native software¹ 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, ondemand 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 non-SQL database, allowing for longer data retention periods and deeper analysis and correlations Scales horizontally and vertically where needed. For example, data ingestion and analytics can 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 	 Claim of 'cloud so but rather a 'cloud software; the bender that it is better that is a components Claim of 'cloud so but rather a 'cloud software; the bender that is a component software. 	ditional enterprise software Claim of 'cloud software' is not a cloud-native architecture h but rather a 'cloud hosted' version of the traditional enterpris software; the benefits of cloud here are very limited Larger application bundles Tight coupling between operating system and other system components Complicated maintenance structure	
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 Deployment speed is greatly increased. A new instance of the system can be commissioned in minutes	in advanceUpgrades/updates disruptive	e, compute must be si	zed and pre-committed nents are complex and structure

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



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BACKUP AND REDUNDANCY	Built-in Engineered within the cluster and multiple regional zones in case of catastrophic data center failures	Needs to be architected as part of the solution and adds complexity, cost and overhead Frequently this responsibility is left to the customer's engineer to solve and perform		
ROLLOUT	Cloud-native to Microsoft Azure	Private cloud and/or	bare metal serv	er
CLOUD SECURITY	SmartZone Cloud leverages Microsoft Azure's vast investment in providing secure PaaS applications that form the foundation	 and how it is managed and administered Application and supporting modules can easily become outdated because of the time required to test new components upgrade Isolated application instances unable to take advantage of features 		
MOBILITY	Completely responsive web design • SmartZone Cloud 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 softwa available for mobile use, which almost always places limits functionality compared to the desktop version it was original designed for		



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FUNCTIONALITY	Single pane of glass, intuitive drilldown approach	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		
	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			
UPGRADES/	No additional cost or downtime	Expensive and often messy		
UPDATES	 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 	 Upgrades may be included in a subscription model but are usually extra in a perpetual model Because of the tight coupling to the infrastructure, maintenant and upgrade operations can be expensive, complicated and time consuming with downtime Frequently the enhanced application requires upgrades to the supporting infrastructure, such as additional RAM and disk space 		
PROFESSIONAL	Focused on self-service model	Hefty professional se	ervices contract	s
SERVICES	 SmartZone Cloud 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 SmartZone Cloud's UX ad UI 	 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 		
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API AND INTEGRATIONS	 Open API, fully documented REST API All product functionality can be consumed via the API 	Depends on the DCIM software provider		



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USER ACCESS CONTROL	Built-in User Access Control is built into the foundation of the cloud-native application, thus available out-of-the-box. User 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		
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 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 Static or difficult to update Database of supported items requires either an application update or database changes New device updates are often unique to a customer and not shared with the application base		
ASSET CATALOG	Cloud-based catalog of over 20 thousand devices Central catalog for all customers – one update enables device support for all Working with same vendors that support the major computer manufacturers, enabling accurate, timely and frequent updates Supports Panduit G5 PDUs, sensors, and door locks/status			



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PROFESSIONAL SERVICES	Professional services available worldwide Panduit has professional services and deployment partner around the world Hardware (PDU, Networking, Cabinets, Grounding and Bonding) can be combined with software and deployed by trained, certified Panduit Partners	Limited service inSome vendors ha involve multiple vendors	o supporting vendors h	t and projects must



DIAGRAM A: Cloud-Native Software Architecture

