

# SOLUTION PLATFORM

Platform-agnostic options protect your investment

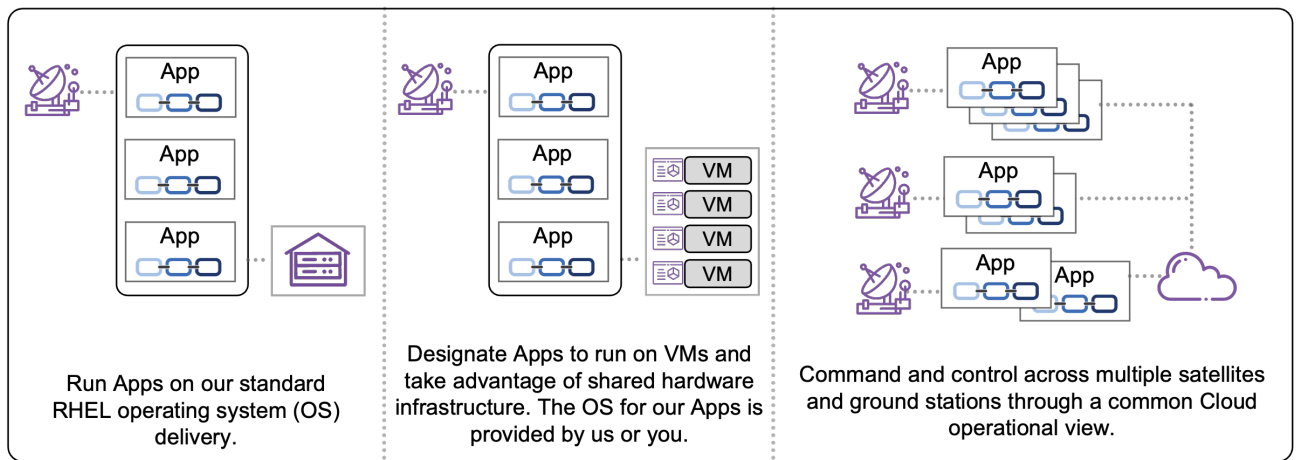
Deploy applications on premise and in the Cloud

Support evolving requirements with seamless migration between platforms

## VERSATILE PLATFORM OPTIONS

Software-based solutions developed by ARKA perform reliably in an on prem or Cloud environment. The key to our versatile deployment options is SOFTLINK®, our solution architecture that supports a wide range of systems and requirements. SOFTLINK's applications (Apps) and services package modular software devices to deliver extensible functions with the portability you expect from software. When our Apps are deployed in the Cloud, they can be

hosted in VMs or orchestrated in containers that interoperate across network boundaries. Multiple instances of these Apps can exist simultaneously in various locations to provide resilient, fail-safe solutions. When operational needs change, ARKA facilitates a reliable and economical transition between platforms—all with minimal operational impact—to ensure the system you choose today adapts to tomorrow.



Environment	PHYSICAL	VIRTUAL (VM)	CLOUD	
Platform / Vendor	Commercial off-the-shelf server (often Dell) provided by us or you	VM Ware Linux KVM	Amazon AWS Google Cloud	Microsoft Azure Private Cloud

## CHOOSING THE RIGHT PLATFORM

Our solutions are designed to be deployed anywhere and easily migrated. Whether you're looking to leverage the flexibility of virtual or Cloud deployments or the controllability of on prem hardware, SOFTLINK's flexible architecture makes your choice possible.

### BENEFITS OF ON PREM DEPLOYMENTS

**RESOURCE MAXIMIZATION:**

Leverage existing physical assets and save on Cloud hosting costs.

**ASSET CONTROL:**

Guarantee access to and control of the system with on site physical servers.

**CUSTOMIZABILITY:**

Fully customize and configure hardware to your specifications and business requirements.

**TURNKEY CONFIGURATIONS:**

Employ our standard configurations to quickly and cost-effectively deploy your solution.

### BENEFITS OF VIRTUAL AND CLOUD DEPLOYMENTS

**ACCESSIBILITY AND EFFICIENCY:**

Connect to the Cloud from a variety of locations for real-time signal processing and faster data access.

**SCALABILITY AND CONDENSED TIMELINES:**

Rapidly add and remove IT resources to accommodate changes and growth, particularly for systems that need to scale broadly over time.

**ADAPTABILITY:**

Create dynamic data links that move easily between platforms while retaining the integrity of your current applications.

**RESILIENCY:**

Quickly build redundant systems for a fail-safe solution that lowers risk and improves reliability.

**SUSTAINABILITY AND REDUCED HARDWARE FOOTPRINT:**

Manage multiple communication links and tasks at a single operational site to save on resources, maintenance, and hardware procurement.

**EXPANDED TESTING:**

Exercise parallel testing simulations prior to implementation with multiple, simultaneous instances of system designs existing at various locations.

## VIRTUALIZING SYSTEMS TO SOLVE CHALLENGES

For many ARKA customers, multi-orbit, multi-mission satellite networks necessitate the resource efficiency, resiliency, and common command and control capabilities of dynamic, virtualized ground systems. Transitioning from hardware-centric systems to virtualized deployments creates increased opportunity to meet these new challenges. For instance, SOFTLINK Apps can be run on the native OS or in container services where the OS is virtualized. For additional flexibility, the Apps / services can be packaged in Docker containers as micro-services for

more portable, resilient, and resource-savvy deployments. By digitizing signal information so that it can be processed in virtualized platforms and by leveraging an open architecture software-based framework, our solutions are primed for virtualization and the benefits it can provide. If the options seem overwhelming or you find the benefits of virtualizing compelling, our experienced staff is available to help design the deployment setup that best meets your needs.



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