

Bringing Actionable Information to the Warfighter Through High-Performance Analytics

>> CHALLENGE

High-resolution satellites, multi-modal sensors and other input sources are driving an explosion in data available to the Intelligence community. This presents a data processing challenge. Ayrris™ / DEFENSE overcomes these challenges by providing high-volume data ingest, storage, analysis and delivery.

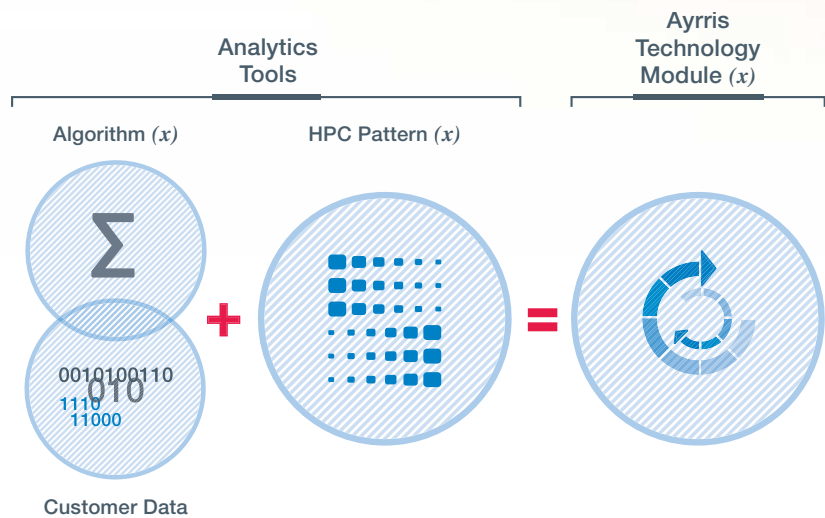
By leveraging Appistry's revolutionary Computational Storage™ technology, Ayrris turns a cluster of commodity servers into a high-performance, petabyte-scale distributed storage system with no single points of failure or I/O bottlenecks. Rather than move the data to the application, we prefer to move the application to the data.

Because of its unique computing platform, Ayrris / DEFENSE offers a new level of scalability, elasticity and reliability for data-intensive applications, and is fully compatible with existing agency data sources and analysis tools. Ayrris / DEFENSE allows enterprises to quickly turn raw data into useable, mission-critical intelligence better, faster and cheaper than ever before.

Ayrris™ Pipeline Automation

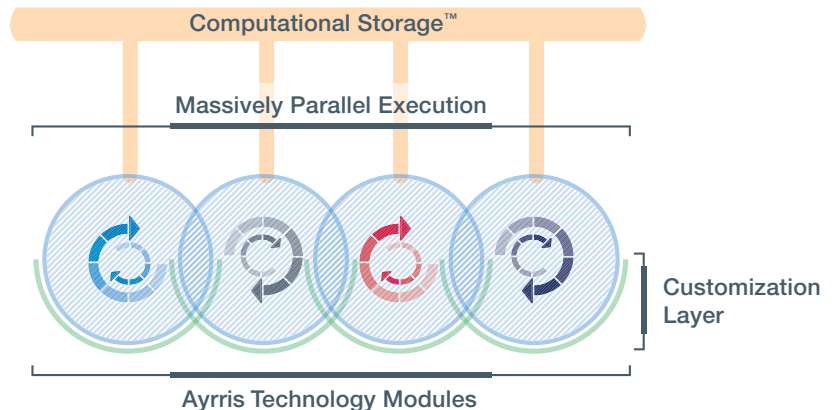
>> TECHNOLOGY MODULE DESIGN

Ayrris / DEFENSE unifies analytics algorithms and input data with HPC patterns to construct Ayrris Technology Modules. These Technology Modules execute analytic tools across system nodes to minimize execution time and cost while raising reliability and utilization.



>> PIPELINE ASSEMBLY

Ayrris / DEFENSE provides a pipeline construction kit to easily sequence multiple Technology Modules into a complete analytic pipeline.



Turn Data into Opportunity

Ayrris™ / DEFENSE helps you perform complex analytics in a fraction of the time by digging down to the root of each computational challenge and designing the most direct path to a solution. Through our advanced analytics solutions, we help you absorb terabytes to petabytes of data quickly, process it and provide analyzed results 10–100x faster than “big iron” deployments.



>> STREAMLINE ANALYSIS

Pipelines

Ayrris / DEFENSE provides a high-level application environment that transforms traditional analytic applications into high-performing, distributed applications that take advantage of Ayrris' Computational Storage™. Built with simplicity in mind, existing tools, applications and utilities are easily deployed and executed within the Ayrris adaptable architecture.

>> GROW EASILY AND AFFORDABLY

Scale

Ayrris / DEFENSE delivers the scalability of a cluster-based environment without the complexity of traditional cluster-based approaches. An administrator is able to add additional computers, including storage capacity, to a running system without loss of availability or administrative functionality. Because tracking and membership are fully distributed and dynamic, the overall system can grow to thousands of systems or more.

>> BULLET-PROOF YOUR OPERATIONS

Reliability

Ayrris / DEFENSE distributes data and processing across multiple nodes providing the highest level of reliability. Seeking out performance slowdowns and failure points, Ayrris constantly monitors for errors and limitations of the networks as well as available hardware. Once found, Ayrris automatically re-routes data and processing around these faults. Lost data can be recreated from automatically generated copies within the system.

>> DEPLOY WITH EASE

Simplicity

Available via self-hosted hardware deployment or through our remotely hosted pay-per-use service, Ayrris / DEFENSE is built upon a modular architecture, so custom deployments can be configured in hours, not days. Our solution includes predefined patterns for large-capacity processing across a vast range of algorithms, allowing you to fine-tune the system to your specific needs without significant development effort. Right out of the box, Ayrris can plug into your existing framework, or can be easily customized to your precise needs.

>> REDUCE COSTS IMMEDIATELY

Costs

Utilizing Ayrris / DEFENSE lowers the cost of managing intelligence applications and the infrastructure that supports those applications.

- >> Turns many commodity-grade computers into a network of machines that can be scaled, viewed and managed as a virtual single system, eliminating the need to depend on expensive, proprietary hardware and allowing developers and system administrators to interact with an entire network of computers as if it were a single machine
- >> Eliminates system failures, reducing application management overhead and unpredictability
- >> Runs multiple applications, reducing the complexity of managing a portfolio of intelligence applications

>> DESIGN THE MOST DIRECT PATH TO A SOLUTION WITH AYRRIS / DEFENSE.
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