

## SOLUTION BRIEF

# DART AI

## Healthcare

The Cirries logo features the word "cirries" in a white, lowercase, sans-serif font. A red swoosh underline starts under the 'i' and curves over the 'e' and 's'. A registered trademark symbol (®) is located to the right of the 's'. The logo is overlaid on a background image of server racks with glowing lights.

**cirries**®

### **THE NETWORK IS NOW PART OF PATIENT CARE**

Healthcare is undergoing one of the most profound transformations in its history. The convergence of 5G connectivity, AI-driven analytics, cloud computing, and IoT-enabled medical devices is reshaping how care is delivered—making it faster, more distributed, and increasingly personalized.

At the center of this transformation sits the network.

Every virtual consultation, every diagnostic image, every alert from a wearable device, and every AI-assisted clinical decision depends on the continuous performance of complex, interconnected networks. When those networks underperform or fail, the impact is immediate and personal. In modern healthcare, network reliability is no longer an IT concern—it is a clinical requirement.

Cirries DART AI provides the intelligence layer that ensures this new digital healthcare ecosystem operates safely, reliably, and at clinical-grade performance.

### **HEALTHCARE WITHOUT WALLS**

Care delivery has moved far beyond hospital campuses. Today's healthcare environment spans:

- Homes, clinics, and remote care facilities
- Ambulances and mobile response units
- Wearables and implantable medical devices
- Cloud-based imaging and PACS platforms
- Telemedicine and virtual ICU environments
- AI-assisted diagnostics and precision medicine
- Robotics and remote surgical systems

These services operate across 5G, cloud, hybrid, and edge environments—often simultaneously. Performance must be deterministic. Latency must be predictable. Connectivity must be continuous.

When the network fails, care fails.

## WHY TRADITIONAL MONITORING IS NO LONGER ENOUGH

Conventional IT and network monitoring tools were designed for static environments and best-effort performance. They rely on reactive alerts, siloed dashboards, and approximate metrics that are inadequate for healthcare's new reality.

Modern healthcare requires predictive intelligence, end-to-end visibility across cloud and edge environments, and clinical-grade assurance. Teams need to understand not just that something failed, but also why—and how quickly it can be corrected—before patient care is affected.

Healthcare now demands continuous, intelligent network awareness.

### Healthcare Use Cases Enabled by DART AI

DART AI supports a wide range of healthcare-critical scenarios, including uninterrupted telemedicine and virtual care, continuous remote patient monitoring, low-latency medical imaging, deterministic performance for emergency services, hospital network modernization, secure 5G medical IoT connectivity, and high-throughput data integrity for AI diagnostics and precision medicine.

### Measurable Clinical and Business Impact

Healthcare organizations using DART AI achieve higher patient safety and satisfaction, reduced downtime and faster incident resolution, improved clinician productivity, lower operational costs, stronger regulatory compliance, and a future-ready digital infrastructure capable of supporting advanced care models.

### Why Cirries Technologies

Cirries brings decades of experience in telecom, cloud, and high-performance networking to healthcare's most critical challenge: making advanced digital care reliable.

With DART AI, healthcare organizations gain an intelligent nervous system for modern medicine—one that ensures technology enhances care rather than standing in its way.



## DART AI ADVANTAGE FOR HEALTHCARE

### Benchmarking

#### Defining Clinical-Grade Performance

DART AI continuously establishes performance baselines across the entire healthcare delivery infrastructure, including 5G links, cloud workloads, medical device traffic, telehealth sessions, imaging flows, and hybrid or edge networks. By maintaining these baselines, healthcare organizations can validate new services before launch, compare live performance against historical norms, and detect early signs of degradation before they impact clinicians or patients.

### Reachability

#### Ensuring Care Pathways Remain Intact

In healthcare, reachability is non-negotiable. Medical devices, clinical applications, imaging systems, EHR platforms, AI diagnostic services, and emergency response networks must remain continuously accessible.

### Observability

#### Knowing what happened and why

DART AI goes beyond visibility to deliver understanding. Using DART IQ™, its packet-derived metadata engine, the platform converts raw network behavior into actionable intelligence—without storing raw packet payloads.

With integrated AI reasoning powered by Amazon Bedrock, DART AI delivers rapid root-cause analysis, correlates application behavior with network conditions, and enables automated remediation workflows through EventBridge and Lambda.