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Mar-Apr 2020

AWS ELEMENTAL LINK OFFERS LIVE CLOUD VIDEO IN A BOX

Headlines

- Top 15 Security Information and Event Management: Splunk, IBM, ...
- Radisys Launches In-Call Speech Analytics Integrating Sensory's TrulyHandsfree Voice Control into Engage Media Server
- Top 10 Worldwide IT Project and Portfolio Management Coordinating Adaptive DevOps for Digital Innovation: Workfront, Smartsheet, ...
- Cubic to Acquire Nuvotronics to Strengthen Protected Communications Offering
- Ampere® Altra™ Wold 's First Cloud Native Processor, 80-Core Server CPU
- Broadpeak Performs World-First Video Unified Packaging and Encryption of DASH and HLS
- Top 20 WAN Edge Infrastructure: VMware, Silver Peak, Fortinet, Cisco ...
- Ericsson drives 5G progress in Europe with new R&D site in France

In this Edition:

Cover Story

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- Ericsson drives 5G progress in Europe with new R&D site in France

Next Edition: Special 5G

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Gartner Report
Magic Quadrant for Security Information and Event Management

Published by Gartner 18 February 2020 - ID G00381093

Security and risk management leaders increasingly seek security information and event management solutions with capabilities that support early attack detection, investigation and response. Users should balance advanced SIEM capabilities with the resources needed to run and tune the solution.

Market Definition/Description

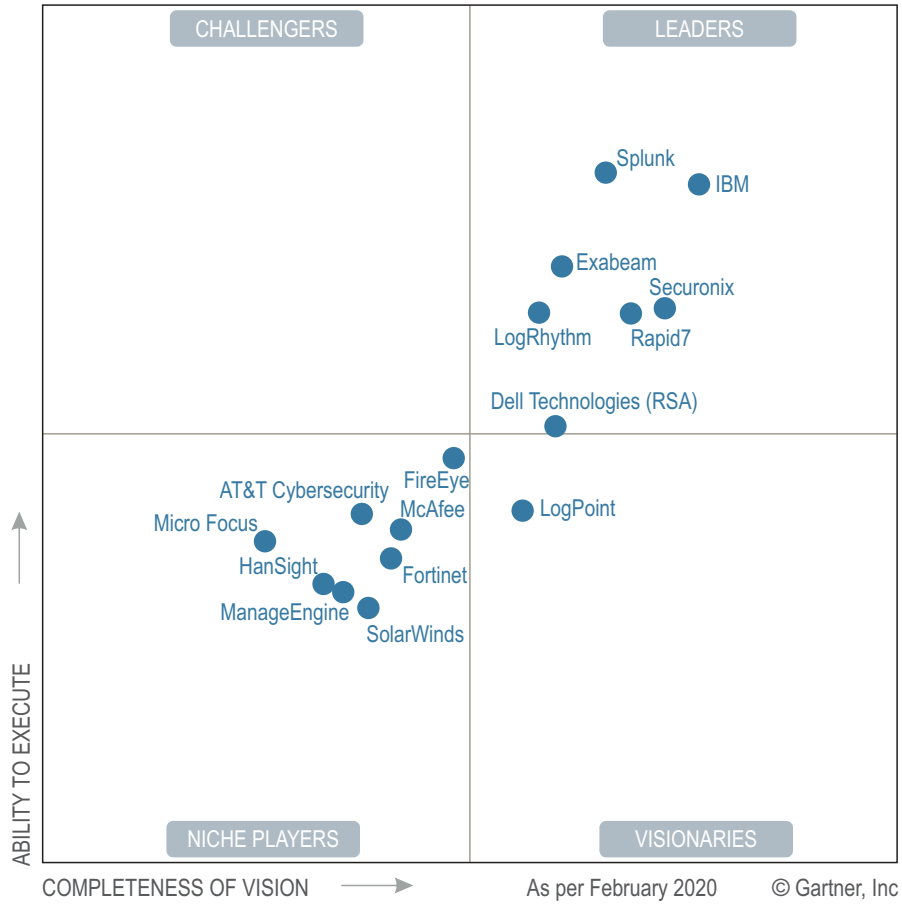
This document was revised on 5 March 2020. The document you are viewing is the corrected version. For more information, see the Corrections page on gartner.com.

The security information and event management (SIEM) market is defined by customers' need to analyze security event data in real time, which supports the early detection of attacks and breaches. SIEM systems collect, store, investigate, support mitigation and report on security data for incident response, forensics and regulatory compliance. The vendors included in this Magic Quadrant have products designed for this purpose, which they actively market and sell to the security buying center.

SIEM technology aggregates event data produced by security devices, network infrastructure, host and endpoint systems, applications and cloud services. The primary data source is log data, but SIEM technology can also process other forms of data, such as network telemetry (i.e., flows and packets). Event data is combined with contextual information about users, assets, threats and vulnerabilities. The data may be normalized, so that events, data and contextual information from disparate sources can be analyzed for specific purposes, such as network security event monitoring, user activity monitoring and compliance reporting. The technology provides real-time analysis of events for security monitoring, query and long-range analytics for historical analysis, and other support for incident investigation and management, and reporting — e.g., for compliance requirements.

Magic Quadrant

Figure 1. Magic Quadrant for Security Information and Event Management



Full Report: please visit Gartner at https://www.gartner.com/doc/reprints?id=1-1YEDHXVD&ct=200219&st=sb

AWS ELEMENTAL LINK OFFERS LIVE CLOUD VIDEO IN A BOX

Amazon Web Services (AWS) has announced AWS Elemental Link, a compact device to support multiple applications in live video environments and contribute high-quality video into the cloud.

IBC Daily | By Michael Burns | 21 April 2020

With the lightweight bright orange device, users can connect to an HD-SDI or HDMI input source and their IP network, access their video on the AWS Console for processing with AWS Elemental MediaLive and within minutes stream content to viewers without concern about available bandwidth. The plug-and-go AWS Elemental Link device costs $995.

The company claims makes it easy and cost-effective to transport live video in real time from on-premises cameras and other production equipment to the cloud for processing and delivery to televisions and connected devices.

AWS Elemental Link is automatically tied to customer AWS accounts, so there is no configuration required. It also supports Power over Ethernet (PoE) so connectivity needs are minimal.

Launching the AWS Elemental Link, Kevin Moore, director of product management, Live Transcoding at AWS Elemental, said: "In as little as two wires you can connect your live video to the cloud using this device. The beauty of this is you've bought it through the AWS Console, so it comes pre-configured to connect securely to your account. All of your encryption is preloaded onto the device, so you don't need to do anything. You just bring it to your environment, turn it on, watch as the lights on the front turn blue and you're ready to go."

AWS Elemental Media Live encodes the live video into different streams (resolutions and bitrates) and users can then opt to use AWS Elemental MediaPackage to format the streams for playback on a range of devices; AWS Elemental MediaStore as a media-optimised storage and origination service; and Amazon CloudFront to distribute the live streams to devices for playback.

Controllable via the AWS Management Console, AWS Elemental Link lets customers use one account to remotely manage a distributed fleet of geographically dispersed encoders in a centralised workflow, handling the ingest, starting, and stopping of live video.

Compared with other approaches, the company claims Link reduces the configuration, calibration, and testing resources typically required to deliver a high-quality picture. It automatically matches the audio configuration of the source and carries essential metadata, such as the captions and timecode, through the stream.

For partners and solution providers building services on top of AWS, the device can also be controlled via the API, enabling them to build end-to-end live video software solutions.

Radisys Launches In-Call Speech Analytics Integrating Sensory's TrulyHandsfree Voice Control into Engage Media Server

Solution enables inline analytics for e-commerce, customer service, and virtual assistant services in public or private clouds, reducing costs by more than 90 percent over traditional solutions

HILLSBORO, OR, U.S. – December 5, 2019 – Radisys® Corporation, a global leader of open telecom solutions, today announced that it has integrated Sensory Inc.'s market-leading TrulyHandsfree™ Voice Control speech recognition software into Radisys' **Engage Media Server**. This integration enables service providers to deploy a wider range of e-commerce, customer service, and unified communications (UC) applications with speech interfaces that are very accurate, highly scalable, and more economical. Radisys' Engage Media Server is a cloud-native media server platform for high-quality voice and video communications, content processing, and media quality optimization. **It has been deployed in over 150 operators' networks globally, serving over 1.5 billion subscribers**. It is also used by a large ecosystem of independent software vendors that serve operators and enterprises.

The integrated solution for voice commands and "wake word" detection lowers costs by up to 90 percent, simplifies deployment, and enables the creation of new applications for in-call speech processing. It works seamlessly with Radisys' support for conversational speech-to-text, text-to-speech, and speaker verification, providing a suite of speech processing tools that allow developers to build rich new services with the right capability for the job, including a combination of wake word, command set, conversational speech-to-text, and speech transcription features within any application.

News Highlights

- Speech is now the preferred way of working with devices and applications due to the popularity of smart speakers, speech interfaces on mobile phones, and artificial intelligence (AI) driving improved recognition accuracy. According to ComScore, 50 percent of all searches will be voice searches by 2020.
- Radisys' solution reduces deployment complexity and operational costs since it is integrated with media servers already deployed in service providers' networks, meaning there is no need for a separate, dedicated network element for speech processing.
- The solution can be deployed in public or private clouds, or even on an enterprise premise, enabling customers to use the most cost-effective network infrastructure in consideration of performance (response time and scalability), privacy, and control.
- The integration of Sensory's TrulyHandsfree™ Voice Control offers multiple-phrase technology that recognizes, analyzes, and responds to dozens of keywords, even consistently recognizing phrases when they are embedded in sentences or surrounded by noise. Traditional approaches to keyword spotting have failed in high noise situations, resulting in false positives, which is when a device or application mistakes a different word for its wake word and activates. This new offering can achieve more than 95 % accuracy without false fires even in high noise situations.
- Adding speech interface capabilities to existing applications for increasingly mobile users enhances accessibility, the user experience, and safety for hands free on-the-go use. The Radisys solution makes it cost effective to add this capability to existing services at scale.

"Historically, in-call speech processing has taken a one-size-fits-all approach: conversational interfaces that convert natural language into text," said Al Balasco, vice president, Communications Solutions, Radisys. "These are expensive in terms of hardware and software costs, and overkill for many applications where there is a small set of commands like "record call," "mute line," or "start video," or where more sophisticated conversational speech-to-text can be initiated by a wake word before the conversational engine begins processing. Not only does this approach save money, it makes a whole range of valuable new services viable."

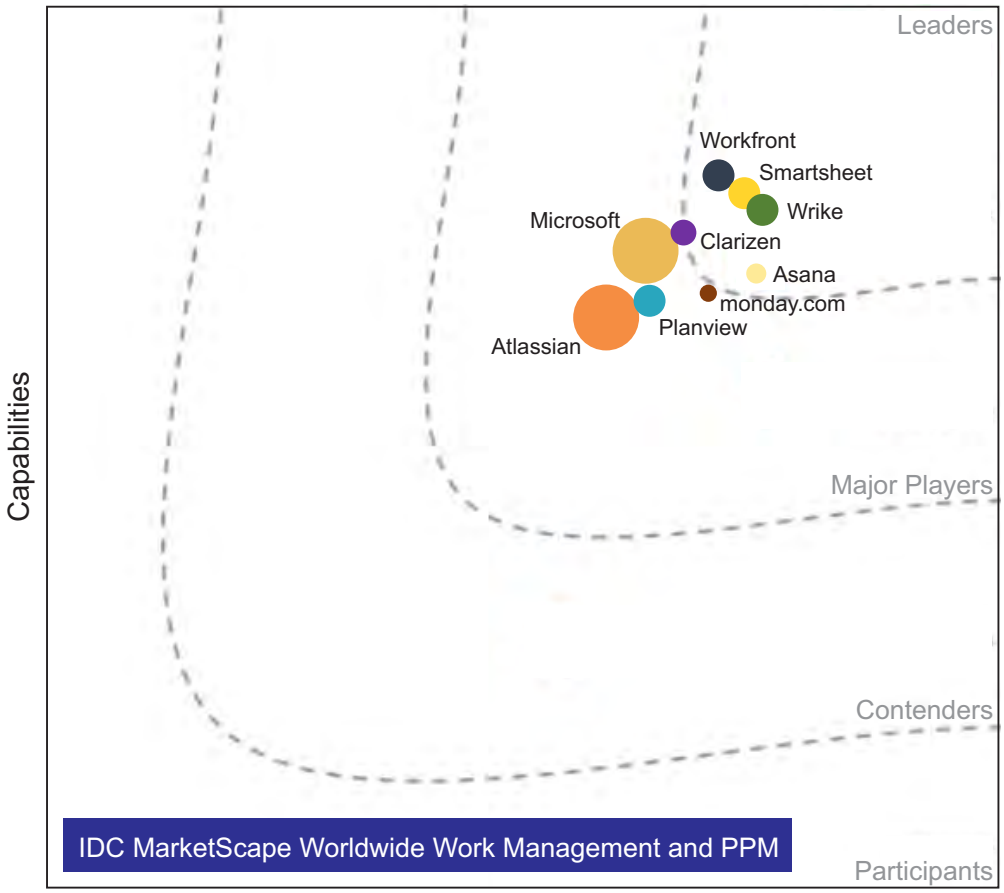
"In-call speech recognition has traditionally been expensive, resource intensive and highly complex overall to implement. Additionally, there are numerous challenges to ensuring peak speech recognition performance and accuracy, notably varying network conditions and call quality. Our technology combined with Radisys' powerful Engage Media Server changes the playing field because it offers simple, extremely accurate phrase-spotted command and control functionality that delivers an efficient voice assistant UX, all on a single platform," said Bernie Brafman, vice president of Business Development, Sensory. "We're very pleased to be teaming with Radisys on this valuable solution for service providers and application developers."

About Radisys

Radisys, a global leader in open telecom solutions, enables service providers to drive disruption with new open architecture business models. Radisys' innovative disaggregated and virtualized enabling technology solutions leverage open reference architectures and standards, combined with open software and hardware to power business transformation for the telecom industry, while its world-class services organization delivers systems integration expertise necessary to solve communications' and content providers' complex deployment challenges.
For more information, visit www.Radisys.com.

IDC MarketScape: Worldwide IT Project and Portfolio Management 2019–2020 Vendor Assessment — Coordinating Adaptive DevOps for Digital Innovation

By: Melinda-Carol Ballou | Research Director, Agile ALM, Quality & Portfolio Strategies
Dec 2019 - IDC MarketScape - Doc # Us44483519



This IDC study uses the IDC MarketScape vendor assessment model to evaluate the IT project and portfolio management (IT PPM) market. This research enables analysis of quantitative and qualitative characteristics to provide metrics and context for users evaluating solutions in this area and also to help analyze a vendor's current comparative success in the marketplace and to anticipate vendor evolution. Main user focus areas for this market include broad, functionally deep enterprise IT PPM functionality, with established, significant numbers of high-end, 5,000–10,000+ user deployments. In addition, we are seeing the coupling of agile processes and end-to-end DevOps application life-cycle management capabilities and strong analytics and data leverage with evolving machine learning (ML) and artificial intelligence (AI) for IT PPM. These emerging capabilities help support actionable metrics, iterative processes, and growing demand for complex, multimodal deployments and DevOps, from cloud to mobile and embedded and IoT. Metrics with analytics based on this data can help provide visibility to understand and improve internal and external services execution on IT projects, programs, and portfolios. Also included are in-depth vendor profiles for the 16 vendors assessed. This analysis complements the IDC MarketScape evaluations with forthcoming assessments for agile PPM, cloud PPM, and work management, which enable three additional weighted IDC MarketScape views (for a total of four distinct IDC MarketScape PPM vendor evaluations).

"IDC continues to see adoption of enterprise IT PPM solutions for deep functionality and management of multifaceted, distributed IT projects, programs, and portfolios via automation to enable complex sourcing and dynamically changing and especially complex DevOps initiatives," said Melinda Ballou, research director for IDC's Agile ALM, Quality and Portfolio Strategies service. "Complementing these capabilities, we observe a need for a collaborative, intuitive on-ramp on the one hand, and coordinated hybrid and scaled agile with end-to-end DevOps approaches with IT PPM helping focus teams with targeted execution, cutting delays to benefit, and improving metrics and analytics with evolving ML/AI capabilities on the other. It is in part due to these trends that IDC has chosen to prioritize this area as one of several areas of focus for our IDC MarketScape series for PPM. Leverage of the cloud to facilitate the handoff from project inception to execution development to deployment (as well as DevOps for IT software project portfolios) also brings key benefits."

Subscriptions Covered: Agile Application Life-Cycle, Quality and Portfolio Strategies
Companies Covered: Broadcom Inc., Changepoint Corporation, SAP SE, Smartsheet Inc., Asana, Inc., Planview, Inc., Clarizen Ltd., ServiceNow, Inc., CollabNet Inc., Wrike Inc., Micro Focus International plc, Workfront Inc., Atlassian Pty Ltd., Planisware S.A.S, monday.com Ltd., Microsoft Corporation
Topics Covered: Automated software quality, Cognitive/artificial intelligence, DevOps, Project and portfolio management, Technology buyer

MORE: https://www.idc.com/getdoc.jsp?containerId=US44483519

Cubic to Acquire Nuvotronics to Strengthen Protected Communications Offering

San Diego: March 14, 2019 | Nuvotronics acquisition to enhance Cubic Mission Solutions' market-leading portfolio

SAN DIEGO, March 14, 2019 /PRNewswire/ -- Cubic Corporation (NYSE: CUB) today announced the acquisition of Nuvotronics, a disruptive technology provider of microfabricated radio frequency (RF) products, for approximately $64 million in cash, subject to customary adjustments, with additional earn-out payments of up to $8 million based on future performance. The cornerstone of Nuvotronics' innovation platform is their patented PolyStrata® technology, which was developed under DARPA and enables the company to design and produce uniquely packaged RF devices, such as antennas, filters and combiners, all of which are components in Cubic's advanced technology product offerings. Nuvotronics is based in Durham, North Carolina and has strong customer relationships and partnerships across government agencies, defense primes and commercial sectors.

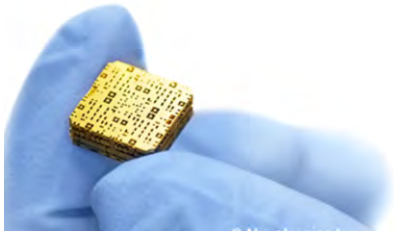
With the acquisition of Nuvotronics, Cubic expects to accelerate multiple innovation initiatives across Cubic's protected communications portfolio and beyond, and to capture significant supply chain synergies, which are expected to enhance EBITDA beginning fiscal year 2020. Cubic anticipates the transaction to be accretive to cash earnings per share by the second full year of operations. Cubic financed the acquisition from its existing credit facility.

"Cubic provides integrated mission solutions to solve our customers' most challenging problems. Nuvotronics' high-performance, reduced size, weight and power (SWaP) capability further strengthens Cubic's offering in our high-growth, high-margin Cubic Mission Solutions business," said Bradley H. Feldmann, chairman, president and chief executive officer of Cubic Corporation. "We welcome Nuvotronics to the Cubic family and look forward to integrating their unique technologies, which are highly synergistic with our existing product lines."

"Nuvotronics' PolyStrata technology will significantly enhance our protected communications business and position Cubic to address additional high-priority, dual-use technology markets in space, electronic warfare, hypersonic and 5G communications," said Mike Twyman, president of Cubic Mission Solutions.

"With Cubic's proven track record for rapidly growing C4ISR acquisitions, we are excited about the opportunities to reach new customers at scale," said Scott Meller, executive vice president, Nuvotronics.

A supplemental slide presentation is available on Cubic's website at [www.cubic.com/investor-relations/events-presentations.](www.cubic.com/investor-relations/events-presentations)



Nuvotronics revolutionary PolyStrata® Architecture provides an unprecedented platform for mmWave performance, integration, and miniaturization. With 10x - 100x improvement in size, weight, and power (SWaP) Nuvotronics is poised to lead the wave to 5G and beyond.

Learn More about PolyStrata® Technology

About Cubic Corporation

Cubic is a technology-driven, market-leading provider of integrated solutions that increase situational understanding for transportation, defense C4ISR and training customers worldwide to decrease urban congestion and improve the militaries' effectiveness and operational readiness. Our teams innovate to make a positive difference in people's lives. We simplify their daily journeys. We promote mission success and safety for those who serve their nation. For more information about Cubic, please visit www.cubic.com. SOURCE Cubic Corporation

Ampere® Altra™ - Industry's First 80-Core Server Processor Unveiled Brings New Level of Performance & Power Efficiency to Cloud Environments

News Highlights

- Ampere Altra is a new class of CPU that delivers predictable high performance, security isolation, extreme scalability and leading power efficiency
- Top-end performance with industry-leading performance/watt and watts/core
- Scalable to 80 cores per CPU at up to 210W for hyperscale data centers
- PCIe Gen4 for highest IO bandwidth in market and DDR4 for high bandwidth memory
- Sampling single and dual socket platforms today to customers
- Open architecture for ease of integration with other components
- Product is developed and manufactured on TSMC's industry-leading N7 process technology
- Partner and customer support from leading cloud service providers, ODM/OEMs, and software providers

Santa Clara, CA. (March 3, 2020) – Ampere® announced today that it has begun shipping the Ampere Altra™ processor, the industry's first 80-core server CPU and the first cloud native CPU for modern cloud and edge computing data centers. Ampere Altra is the company's next generation cloud-focused product, and first in a new class of CPUs rolling out on an annual basis from Ampere's roadmap, that will provide predictable high performance, secure isolation through single-threaded cores, scalability across the entire platform, and new levels of power efficiency. The Ampere Altra processor delivers 80 cores up to 210 W, giving an industry-leading performance boost for rapidly growing use cases such as data analytics, artificial intelligence, database, storage, telco stacks, edge computing, web hosting and cloud native applications.

"Ampere Altra is the first of the next generation of server microprocessors that are designed for the workloads of today in the cloud and on the edge. The Ampere Altra is delivering breakthrough performance with the industry's first 80-core, cloud native microprocessor," said Renee James, Ampere Founder and CEO. "Since our founding two years ago, Ampere's highly experienced team has focused on developing products that bring significant and unique innovations to cloud customers. Our team's attention is on solving customers' needs and ensuring execution that delivers an annual cadence of new capabilities to the market. It is an exciting time for our young company as we work diligently to invent the future of the server CPU business."

Ampere Altra was designed to provide the features that are increasingly demanded by customers and specifically optimized for cloud usage. The way that the cloud utilizes performance, security, and power efficiency is much different than in more traditional enterprise data center environments. Power consumption is also growing challenge for all modern data centers, especially those operating at hyperscale. Due to the growth in data center use cases, power consumption continues to rise. It is estimated that data centers are currently utilizing 3% of the world's electricity and that is projected to grow to 11% by 2030. Simply scaling up existing power-hungry CPUs is not the answer to address the need for more compute to feed the data explosion.

Atiq Bajwa, Ampere's CTO and chief architect, explained that the company chose to build Ampere Altra with single-threaded cores in order to create a processor focused on the needs of the modern cloud. Bajwa said, "CSPs strive to deliver reliable, sustained performance and high levels of isolation and security to each customer, irrespective of what other tenants may be running in multi-tenant environments. Ampere Altra's single-threaded cores, and the dense, power-efficient servers they make possible, will enable our customers to maximize the number of services they can deploy in the cloud and at the edge."

Ampere Altra is a 64-bit Arm processor, taking advantage of the power-efficient and high- performance architecture. "The Ampere Altra processor based on the Arm® Neoverse™ N1 platform represents a significant breakthrough in performance and power efficiency for the hyperscale cloud and edge markets," said Rene Haas, president, IP Products Group, Arm. " The Ampere Altra, the industry's first 80 core server processor, has focused on what is essential for today's workloads in the datacenter, and we are proud to support Ampere in demonstrating the leading technology required to address the deluge of data in a world of a trillion connected devices."

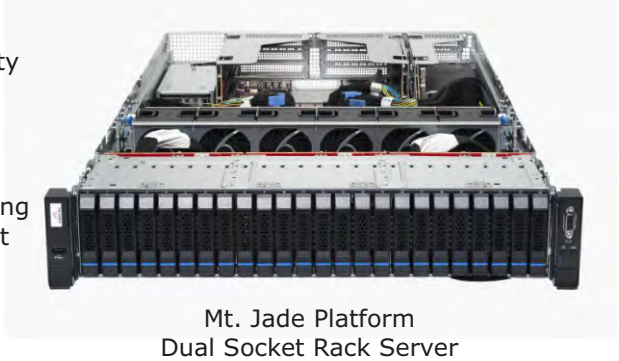
... to next page

Ampere® Altra™ - Industry's First 80-Core Server Processor Unveiled Brings New Level of Performance & Power Efficiency to Cloud Environments ... from previous page

Ampere has also partnered closely with TSMC to utilize the leading process technology for the highest performance, most power efficient and densest transistors. "TSMC is very pleased to see the results of our collaboration with Ampere in developing and manufacturing its 80-core Ampere Altra high-performance processor, which combines TSMC's advanced N7 process technology and manufacturing excellence with Ampere's semiconductor product and engineering development expertise," said Bradford Paulsen, Senior Vice President Business Management, TSMC North America. "TSMC's technology leadership and rigorous commitment to quality make it possible for our customers to accelerate their silicon innovations for the high performance compute applications and time-to-market."

Ampere has worked with many partners around the globe to deliver cloud-optimized software that lead the market in performance, scalability and power efficiency, as well as delivering the tools and hardware to take advantage of Ampere Altra in cloud environments of all types: from bare metal to virtualized and containerized solutions.

Ampere Altra is already shipping to customers around the world, including many of the top cloud service providers with both 2-socket and 1-socket platforms available. Customers are testing Ampere Altra today on their software stacks to drive optimized performance and power efficiency in the cloud.



Mt. Jade Platform
Dual Socket Rack Server
Datasheet

Supporting Quotes

"We are pleased to see the launch of the Ampere Altra cloud optimized platform that helps bolster our hyperscale datacenter priorities around power efficiency, resiliency, telemetry and security. Ampere's standards-based approach made it easy for us to bring up our software stack and we are actively evaluating their systems in our labs."
Dr. Leendert van Doorn, Distinguished Engineer, Microsoft Azure, Microsoft Corp

"Oracle is thrilled to see the Ampere Altra processor being introduced today. A shared vision of innovation in cloud led to a deep technical engagement between the two companies soon after Ampere's founding. Today, Oracle is in the final phases of developing Ampere Altra-based platforms, and we are excited to validate the performance, power and scalability benefits that Ampere Altra was designed to meet. Along with that platform work, we are optimizing our software including Oracle Linux, Oracle Java, Oracle Database for Ampere Altra. We look forward to deploying Ampere Altra in the Oracle Gen 2 Cloud."
Edward Screven, Chief Corporate Architect, Oracle Corp

"As interest for Ubuntu and native applications on Arm continues to grow, developers are looking for higher performant Arm-based processors. Developers seeking a provisioned virtualization solution, such as Anbox Cloud, are demanding high-performance and secure infrastructure that is easily scalable. The Ampere Altra processor with high performance and 160 cores in a two-socket platform provides developers with the performance and core density to scale easily to meet their requirements at the best economics in the industry."
Stephan Fabel, Director of Product, Canonical

"VMware continues to explore new use cases around edge compute, SmartNIC and the Cloud, leveraging Arm-based processors and working with its extensive ecosystem. We're excited to see Ampere introduce their next-generation Ampere Altra processor. Its power efficiency and the wide range of core counts make it appealing for a variety of compute intensive applications at the edge."
Kit Colbert, Vice President and CTO, Cloud Platform Business Unit, Vmware

"Kinvolk has been working with Ampere to optimize Kubernetes on the Ampere platform and has been impressed with the scalability offered to date, especially in terms of throughput and memory I/O. With 80 cores, high-memory bandwidth and flexible I/O connectivity options, the Ampere Altra processor promises to provide an opportunity to deploy highly dense and versatile containerized applications in a cloud native environment."
Chris Kuhl, CEO, Kinvolk

"Hardware innovation is creating unique advantages for technology-enabled Enterprises. The Ampere Altra processor, which push the limits of both performance and efficiency, will provide our customers with a compelling new option to power their workloads. Our continued partnership with Ampere enables us to arm disruptive companies with the kind of silicon advantage previously available only to hyperscaler clouds, and we look forward to introducing the Ampere Altra processor to our lineup."
Jacob Smith, CMO and Co-Founder, Packet

"Lenovo is committed to providing our hyperscale customers with a variety of platform choices to meet their needs. The Ampere Altra processor promises to address platform requirements that enable scalability and performance as customers look to push the boundaries of emerging workloads. We look forward to our continued partnership with Ampere."
Paul Ju, Vice President and General Manager, Hyperscale Business Unit, Lenovo Data Center Group

"We are impressed by the performance gains that Ampere is delivering. Partnering with Ampere has allowed us to begin sampling a powerful Arm-based platform and we look forward to their continued innovation to bring powerful alternatives to the cloud server market."
Andy Chen, AVP of Engineering, GIGABYTE Technology

"Wiwynn is excited to expand our partnership with Ampere to introduce our novel 2-socket platform—SV328 based on the Ampere Altra processor. The SV328 supports up to 160 processor cores, up to 192 PCIe Gen 4 lanes and up to 8 TB of DDR-4-3200 memory. This provides our customers with unparalleled scalability and flexibility to build data centers with the best TCO."
Steven Lu, Vice President of Product Management, Wiwynn

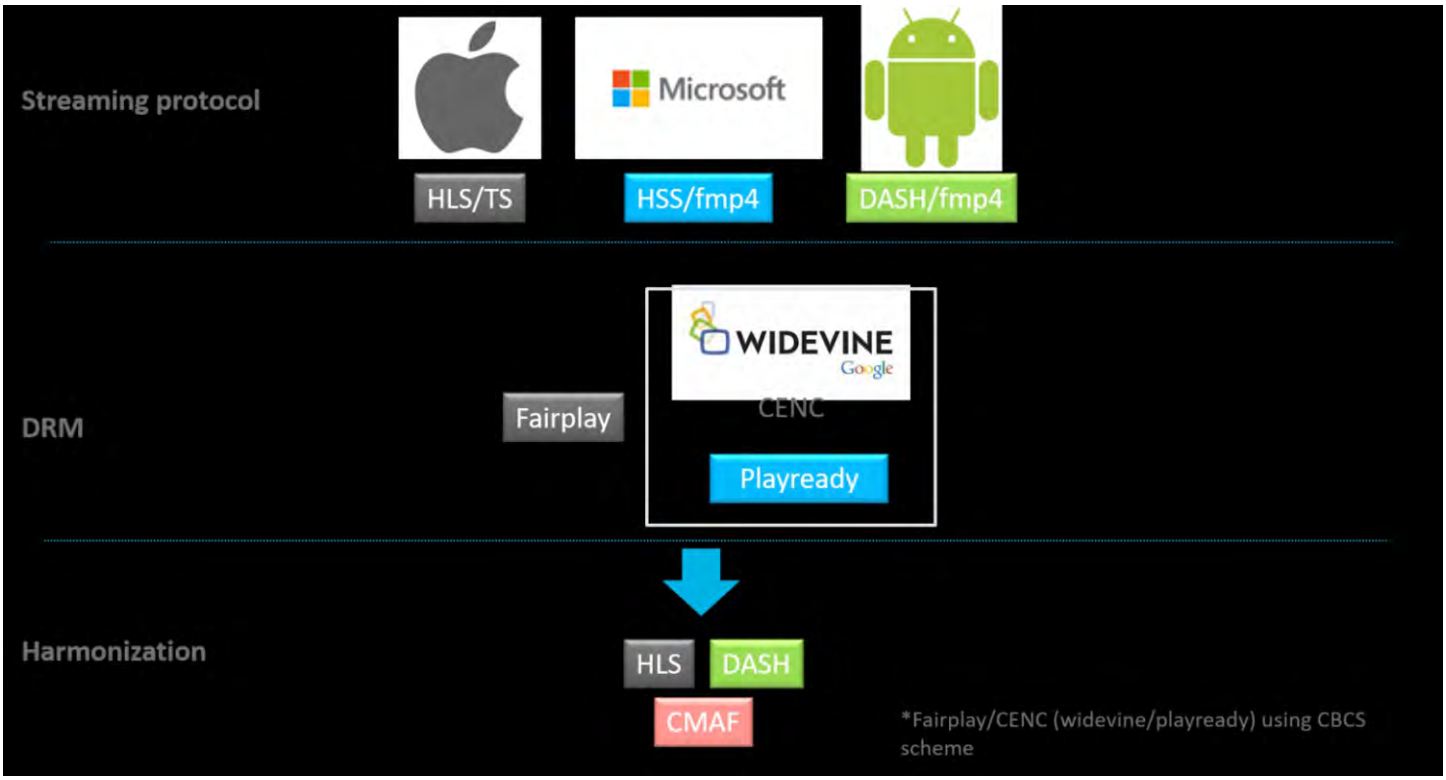
"Analyzing massive amounts of data while minimizing power is a priority for deep learning, artificial intelligence and high-performance cloud workloads. When paired with Micron's robust portfolio of data center SSDs and memory, the Ampere Altra processor allows customers to maximize the value of large data sets with exceptional compute capabilities and advanced storage connectivity in low-power solutions."
Roger Peene, vice president of marketing and strategy, Micron's Storage Business Unit

Broadpeak Performs World-First Video Unified Packaging and Encryption of DASH and HLS

New BkS350 Origin Packager Reduces Storage Costs By Sharing DASH and HLS Video Fragments Using CMAF and Unifying Encryption

CESSON-SEVIGNE, France — Feb. 06, 2020 — Broadpeak®, a leading provider of content delivery network (CDN) and video streaming solutions for content providers and pay-TV operators worldwide, today announced that it has completed the world's first unified packaging and encryption of DASH and HLS formats. Using the latest version of its BkS350 origin packager, Broadpeak successfully delivered DASH and HLS video fragments, using the same chunks (encrypted with CBCS) and container (CMAF) for both protocols, a unique capability that will optimize storage costs for OTT service providers.

Until CMAF was developed, HLS and DASH needed to be delivered in different containers. In addition, Apple FairPlay and Google Widevine used different encryption schemes (i.e., CBCS and CTR), creating the need for a different chunk for each streaming format (i.e., HLS and DASH) even with the new CMAF container. Now that Widevine allows CBCS encryption, it is possible to encrypt one single CMAF fragment for both HLS and DASH formats. Broadpeak's BkS350 origin packager is the first solution to offer this capability.



"Today, OTT delivery can be costly in terms of network bandwidth and storage due to the multiplication of streaming formats. Service providers need to deliver video content in two entirely different packaging formats and two different encryption schemes in order to reach all devices," said Jacques Le Mancq, CEO at Broadpeak. "The BkS350 origin packager eliminates these issues and unifies video delivery by introducing a common video streaming scheme for several players. We're excited to share this innovation with our customers and support them in the optimization of their overall video streaming costs."

Broadpeak's BkS350 origin packager creates only one chunk for both HLS and DASH streams. CMAF is used as the packaging container format and CBCS as the encryption scheme. This powerful new solution reduces CDN storage costs, while simplifying the headend and requiring fewer packaging resources.

The new version of Broadpeak's BkS350 origin packager that unifies HLS and DASH using CMAF and CBCS encryption provides several important benefits to OTT providers. Using the same amount of CDN storage, service providers can cache twice the amount of content. In addition, the cache hit ratio mechanically improves, allowing service providers to reduce the pressure on the output of the origin packager.

MORE: https://broadpeak.tv/

WAN Edge Infrastructure - Gartner Magic Quadrant

WAN edge infrastructures are undergoing major changes as infrastructure and operations leaders responsible for networking face dynamic and expanding business demands. I&O leaders must identify vendors that address the requirement to support applications with on-premises and cloud-based deployments.

Strategic Planning Assumptions

Through 2021, more than 80% of SD-WAN solutions will continue to be delivered on dedicated hardware, rather than universal customer premises equipment (uCPE), due to performance, price and simplicity.

By 2023, to deliver cost-effective scalable bandwidth, 30% of enterprise locations will only have internet WAN connectivity, compared with fewer than 10% in 2019.

By 2024, to enhance agility and support for cloud applications, 60% of enterprises will have implemented SD-WAN, compared with fewer than 20% in 2019.

Market Definition/Description

This document was revised on 25 March 2020. The document you are viewing is the corrected version. For more information, see the Corrections page on gartner.com.

Wide-area network (WAN) edge infrastructure provides network connectivity from distributed enterprise locations to access resources in both private and public data centers, as well as the cloud, via infrastructure as a service (IaaS) and software as a service (SaaS). It is typically procured by senior networking leaders in the infrastructure and operations (I&O) organization. This market is evolving from traditional branch routers (often called "customer edge routers" in a Multiprotocol Label Switching [MPLS] implementation). It is undergoing dramatic change, driven by the needs of digital business transformation and the demands of line of business (LOB) managers.

The market for branch office WAN edge functionality continues to shift from dedicated routing, security and WAN optimization appliances to feature-rich software-defined WAN (SD-WAN) and, to a lesser extent, uCPE platforms. SD-WAN is replacing routing and adding application aware path selection among multiple links, centralized orchestration and native security, as well as other functions. Consequently, it includes incumbent and emerging vendors from multiple markets (namely routing, security, WAN optimization and SD-WAN), each bringing its own differentiators and limitations.

WAN edge functionality can exist on or off the enterprise premises via physical or virtual appliances, and is typically sourced from network equipment providers (and their channels), network service providers (NSPs) or managed network service (MNS) providers. WAN edge infrastructure must be agnostic to the underlying network transport provider and services.

In the North American market, more than 60% of deployments are historically do-it-yourself (DIY). In much of the rest of the world, a managed service approach is favored. In general, we see a trend toward more managed services, even though SD-WAN makes managing the WAN easier. At the same time, this introduces new challenges, with the greater use of internet transport. Large global organizations usually prefer a DIY approach, whereas midsize organizations are more likely to favor a managed services approach. Many companies are now comparing DIY and managed service options as part of the evaluation process.

Increasingly, **vendors are differentiating their SD-WAN solutions in the following categories:**

- Ease of use
- Application performance — including WAN optimization, voice optimization and ensuring quality of experience (QoE)
- Security
- Pricing and pricing models
- Support for cloud workloads

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Ericsson drives 5G progress in Europe with new R&D site in France

- R&D site to employ up to 300 employees in a progressive ramp-up starting early 2020
- Initial focus on 5G software development and security
- Establishment in France will complement Ericsson's strong R&D base in Europe

Source Ericsson: PRESS RELEASE JAN 20, 2020 08:30 (GMT +00:00)

Ericsson (NASDAQ: ERIC) announced today it will establish a new R&D site in France with up to 300 employees, accelerating 5G momentum in Europe. This site will focus initially on 5G software development and security, benefitting the global 5G ecosystem and leveraging on our collaboration with French customers.

A prerequisite for the future digital economy is a reliable, secure, and high-quality mobile network infrastructure. With 5G as the innovation platform, communication service providers will be able to help build the future digital society – expanding their operations from primarily mobile connectivity to new consumer and enterprise services.

To fuel this development, Ericsson will open the new R&D site in early 2020, with a progressive ramp-up to increase its R&D presence to up to 300 employees. An initial unit will be established at Ericsson's offices in Massy, France, part of Paris-Saclay, one of Europe's largest innovation zones. This will provide access to a competence pool and foster industry and academic collaborations.

Fredrik Jejdling, Executive Vice President and Head of Networks, Ericsson, says: "We recognize the economic and technological importance of the French market and the country's influence in Europe. **The rich technology ecosystem and key competencies that are present in France are conducive to building 5G through a strong R&D presence in the country.** This initiative will strengthen Ericsson's 5G software portfolio, including enhancing security capabilities, especially for the French and European markets. It will also support our continued focus on Europe and bring the latest innovations to our customers."

Ericsson currently employs 15,000 engineers in Europe: 60 percent of its total R&D staff. The company has 18 R&D centers in Europe including Finland, Germany, Hungary, Ireland, Italy, Poland, Spain, and Sweden.

As 5G rollout gathers momentum for service providers around the world, customer proximity is particularly relevant. In September 2019, Ericsson completed a SEK 500 million investment at its factory in Tallinn, Estonia, directly benefiting the European market.

ABOUT ERICSSON

Ericsson enables communications service providers to capture the full value of connectivity. The company's portfolio spans Networks, Digital Services, Managed Services, and Emerging Business and is designed to help our customers go digital, increase efficiency and find new revenue streams. Ericsson's investments in innovation have delivered the benefits of telephony and mobile broadband to billions of people around the world. The Ericsson stock is listed on Nasdaq Stockholm and on Nasdaq New York. www.ericsson.com