

# Telecom COTS World

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From Chips to Rack Scale Systems

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### Management

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Global Customer Relationship

# An IBM-AT&T Collaboration to Bring Hybrid Cloud to Enterprise 5G



October 29, 2020 | By Howard Boville, Senior Vice President of IBM Hybrid Cloud

These are challenging times. But they also present a big opportunity for technology and business.

As the global pandemic and its economic impact have forced an on-the-fly virtual reinvention of work, interpersonal relationships and commerce, enterprises have accelerated digital transformations to the point that what once took years is now being completed in a matter of weeks. Fortunately, this shift is occurring just as two key enabling technologies—edge computing and 5G high-bandwidth, low-latency wireless networks—are poised to make it possible for businesses of all sorts to speed their digital journeys.

Gartner predicts that by 2025, 75% of enterprise-grade data will be created and processed by devices at the edge, and every industry will be impacted by this shift. These devices and sensors are increasingly found throughout the business world and can boost customer experiences and open new revenue streams. Enterprises can capture the value of these technologies by bringing hybrid cloud computing to a low-latency edge environment, enabling them to more quickly and securely build new, innovative applications in an edge environment or on-premises.

That's why two leaders in those technologies—IBM and AT&T—have announced a collaboration, backed by IBM's secure and open hybrid cloud platform built on Red Hat OpenShift, to make it easier for enterprises to manage open hybrid cloud computing in a low-latency, private cellular network edge environment.

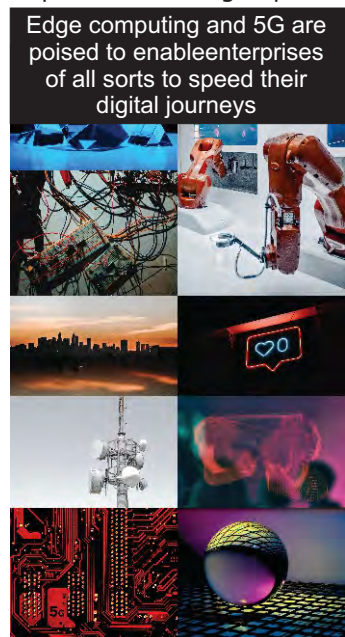
With new hybrid cloud services, enterprises can tap into the power of 5G for uses like factory safety and efficiency, real-time health monitoring or autonomous vehicle operation processes that cannot risk being compromised by even the millisecond latency of sending workloads to a centralized cloud.

## A Strategy Built on Security

At the same time, these companies need a secure environment in which to run and interconnect their critical workloads, from the tiniest wireless monitoring device on the network's farthest edge to the central cloud—as well as all on- and off-premises points in between. An enterprise hybrid cloud strategy for the 5G era must put security at the forefront, so that even clients in the most highly regulated industries can build, deploy and run cloud services securely, anywhere.

Edge computing means the data can be efficiently processed closest to where the work is being done, while Red Hat OpenShift facilitates the consistency of running workloads across environments.

The solution with AT&T draws heavily on IBM's 2019 commitment to retool its software platform around Red Hat OpenShift. For telcos, this open approach is critical. IBM has been working with companies in this industry all over the world to do just that. In fact, 83% of the world's largest telcos are IBM clients—including Vodafone, Verizon, Bharti Airtel and others.



By making it easier for businesses to manage open hybrid cloud computing in a low-latency, private cellular network edge environment like [AT&T Multi-access Edge Computing](#), IBM and AT&T are helping businesses across all industries—including manufacturing, healthcare, and retail—to quickly and securely build applications using regional or on-premises edge computing. Built on Red Hat OpenShift, IBM Cloud Satellite gives clients the flexibility to bring their applications to any environment where their data resides, while leveraging the security of IBM's open hybrid cloud architecture.

And with this ability to capture and process data wherever it resides, technologies such as AI, machine learning, and automation can take that data and infuse the business with insights and intelligent workflows to help deliver a better customer experience.

## Client Cases and Ecosystem Partners

How might all this work in practice? Consider these examples:

- The **healthcare** industry could more rapidly adopt tools to help fight pandemics, such as remote, real-time monitoring of patients via connected medical devices.
- In **manufacturing**, 5G-connected automated operations can help reduce costs and control quality on production lines through robotics and near real-time visual analysis.
- In **retail**, 5G and edge can help stores analyze supply chain data, detect spills or spoilage or monitor metrics like crowd density in ways that might overwhelm a network without edge computing.
- In **banking and finance**, fraud and customer claims can be addressed in real-time, before losses are incurred. Edge-equipped ATMs can themselves serve as the point of fraud detection, preventing a bad actor from tampering with the system.

The business world is facing big challenges as we've been forced to re-invent—in real time—the way we work, conduct operations and serve our customers. The good news is that enterprises of all sorts have accelerated their digital journeys. And now, the convergence of 5G and edge computing, driven by this alliance of IBM and AT&T, can help ensure that businesses capture the opportunity to thrive in this new era.

## Dell Technologies High Performance Computing Customers Drive Breakthroughs for Global Impact

- Dell Technologies, Intel and the University of Cambridge advance next-generation supercomputing with new Open Exascale Lab and HPC storage Data Accelerator
- Collaboration with UK National Health Service and Cardiff University fuels HPC & AI innovation
- New modern infrastructure at University of Pisa expands to meet HPC demands and makes the most of resources through virtualization

When organizations, including the University of Cambridge, Cardiff University and the University of Pisa, wanted to advance their data-centric research for new and emerging communities, they turned to Dell Technologies (NYSE:DELL) for high-performance computing (HPC) solutions.

"Every day, researchers worldwide push the limits of what we perceive as possible, by collaborating to create and enhance life-saving technologies," said Thierry Pellegrino, vice president, Data-Centric Workloads & Solutions, Dell Technologies.



### Investing in HPC's exascale future

The world's data growth, predicted to reach 175 zettabytes by 2025, up from 44 zettabytes today<sup>1</sup>, challenges even the largest HPC systems. To adapt to significantly larger data sets and compute-intensive analytics processes, researchers are looking to exascale systems, capable of performing one quintillion (10<sup>18</sup>) calculations per second, which is five times faster than the world's current most powerful supercomputer. Researchers expect this advanced performance to have profound impacts so they can discover more effective medications sooner, identify and react to pandemics faster, and warn of hazardous weather conditions before they happen.

Dell Technologies has collaborated with Intel and the University of Cambridge, which houses one of the United Kingdom's top performing supercomputers, to launch the Open Exascale Lab. Dedicated to facilitating innovation and investigating emerging exascale technologies, the lab enables the world's most advanced technology leaders and experts to collaborate on HPC's next-generation systems.

Dell Technologies, the University of Cambridge and Intel have also collaborated on one of the world's fastest open source HPC storage solutions that can speed time to discovery or insight by alleviating performance bottlenecks between compute and storage. The pre-tested and validated Dell EMC Ready Solutions for HPC - Data Accelerator (DAC) feeds data via NVMe drives to achieve the speeds required for high-performance applications and make the results available more quickly.

"For people who do analytics or machine learning and process lots of data, we are bringing together one system with high levels of compute and I/O," said Dr. Paul Calleja, director of research computing, Cambridge University. "This allows both customization and security for the tenants. With all these things together, the Data Accelerator can be used to deliver data-centric research to new and emerging communities."

The initial implementation of DAC on the university's Cumulus supercomputer debuted as the world's fastest HPC storage system on the June 2019 I/O-500 list. Nearly double the performance of the second-place entry, it provides approximately 500 terabytes of usable capacity on 24 DAC nodes.

### Fueling medical discoveries

Dell Technologies is also collaborating with the UK National Health Services (NHS) and Cardiff University to advance HPC systems that help transform public health and personalized medicine. Specifically, the bioscience teams at NHS and Cardiff University use next-generation genome sequencing on Dell Technologies' HPC solutions to help fight infectious diseases and improve public health. For example, already having sequenced over 30,000 SARS-CoV-2 genomes, they are working with the COVID-19 Genomics UK Consortium to map the spread of COVID-19.

"Genomic sequencing will help us to understand coronavirus and its spread," said Dr. Thomas Connor, bioinformatics lead for the Public Health Wales Pathogen Genomics Unit; lead at the sequencing center at Cardiff University.

### Expanding HPC's reach

As a Dell Technologies HPC & AI Center of Excellence (CoE) with expertise in VMware, the University of Pisa strives to make HPC and AI more accessible throughout the research community and beyond. It is one of the first organizations to use the new purpose-built Dell EMC PowerStore, which blends automation, next-generation technology and a novel software architecture to help organizations address the rapidly growing need for data. Seven times faster and three times more responsive than previous Dell EMC midrange storage arrays, PowerStore simplifies IT infrastructure by supporting a wide range of both traditional and emerging workloads with its scale-up, scale-out architecture. By virtualizing IT resources with VMware, the University can use resources more cost-effectively and make it easier for IT administrators and end users to deploy, manage and change the infrastructure.

"PowerStore combines the advantages of cutting-edge storage hardware and software," says Maurizio Davini, CTO, University of Pisa. "It's that flexibility to define the resources for our users, for our applications, that makes the difference so we can quickly flex to meet changing needs." **MORE:** [Click Here](#)

# SK hynix to Acquire Intel NAND Memory Business



- SK hynix will pay US \$9 billion for the Intel NAND memory and storage business, which includes the NAND SSD business, the NAND component and wafer business, and the Dalian NAND memory manufacturing facility in China.
- SK hynix aims to enhance the competitiveness of its NAND flash solutions as one of the leading global semiconductor companies and grow the memory ecosystem to the benefit of customers, partners, employees and shareholders.
- Intel will retain its Intel® Optane™ business and intends to invest transaction proceeds in long-term growth priorities.

**SEOUL, Republic of Korea, and SANTA CLARA, Calif., Oct. 20, 2020** — SK hynix and Intel today announced that they have signed an agreement on Oct. 20, Korea Standard Time, under which SK hynix would acquire Intel's NAND memory and storage business for US \$9 billion.

The transaction includes the NAND SSD business, the NAND component and wafer business, and the Dalian NAND memory manufacturing facility in China. Intel will retain its distinct Intel® Optane™ business.

**More:** [Frequently Asked Questions](#)

SK hynix and Intel will endeavor to obtain required governmental approvals, expected in late 2021. Following receipt of these approvals, SK hynix will acquire from Intel the NAND SSD business (including NAND SSD-associated IP and employees), as well as the Dalian facility, with the first payment of US \$7 billion. SK hynix will acquire from Intel the remaining assets, including IP related to the manufacture and design of NAND flash wafers, R&D employees and the Dalian fab workforce, upon a final closing expected to occur in March 2025 with the remaining payment of US \$2 billion. Per the agreement, Intel will continue to manufacture NAND wafers at the Dalian Memory Manufacturing Facility and retain all IP related to the manufacture and design of NAND flash wafers until the final closing.

With this acquisition, SK hynix aims to enhance the competitiveness of its storage solutions, including enterprise SSDs, in the rapidly growing NAND flash space, and further aims to leap forward as one of the leading global semiconductor companies in the industry. SK hynix expects that the transaction would enable SK hynix to grow the memory ecosystem to the benefit of customers, partners, employees and shareholders.

As the global leader in the semiconductor industry, Intel possesses industry-leading NAND SSD technology and quadruple level cell (QLC) NAND flash products. For the six months ended June 27, 2020, NAND businesses represented approximately US \$2.8 billion of the revenue for Intel's Non-volatile Memory Solutions Group (NSG) and contributed approximately US \$600 million to NSG operating income.

SK hynix developed the world's first Charge Trap Flash (CTF)-based, 96-layer 4D NAND flash in 2018 and 128-layer 4D NAND flash in 2019. SK hynix will combine Intel's solutions technology and manufacturing capability in order to establish a higher value-added 3D NAND solutions portfolio including enterprise SSDs.

Intel intends to invest transaction proceeds to deliver leadership products and advance its long-term growth priorities, including artificial intelligence, 5G networking and the intelligent, autonomous edge.

Intel and SK hynix will work together to ensure a seamless transition for customers, suppliers and employees. The two companies will work collaboratively, as they did recently with DDR5, to better serve the growing demand from the memory-based semiconductor ecosystem.

"I am pleased to see SK hynix and Intel's NAND division, which have led the NAND flash technology innovation, work to build the new future together," said Seok-Hee Lee, chief executive officer (CEO) of SK hynix. "By taking each other's strengths and technologies, SK hynix will proactively respond to various needs from customers and optimize our business structure, expanding our innovative portfolio in the NAND flash market segment, which will be comparable with what we achieved in DRAM."

Bob Swan, Intel CEO said: "I am proud of the NAND memory business we have built and believe this combination with SK hynix will grow the memory ecosystem for the benefit of customers, partners and employees. For Intel, this transaction will allow us to further prioritize our investments in differentiated technology where we can play a bigger role in the success of our customers and deliver attractive returns to our stockholders."

## Advisors

Citi served as financial advisor and Skadden, Arps, Slate, Meagher & Flom LLP, K&C and Fangda Partners served as legal counsel to SK hynix. BofA Securities served as financial advisor and Munger, Tolles & Olson LLP, Wilmer Cutler Pickering Hale and Dorr LLP, Linklaters LLP and Bae, Kim & Lee LLC served as legal counsel to Intel.

## About SK hynix

SK hynix, headquartered in Korea, is the world's top tier semiconductor supplier offering dynamic random access memory chips ("DRAM"), flash memory chips ("NAND flash") and CMOS image sensors ("CIS") for a wide range of distinguished customers globally. SK hynix's shares are traded on the Korea Exchange, and the Global Depository shares are listed on the Luxembourg Stock Exchange.

Further information about SK hynix is available at [www.skhynix.com](http://www.skhynix.com).

Enea today announced that it has acquired Aptilo, a leading provider of policy and access control solutions for carrier Wi-Fi and IoT (Internet of Things), headquartered in Stockholm, Sweden. The total consideration amounts to SEK 92 million which corresponds to an enterprise value of SEK 150 million on a cash and debt free basis. The acquisition will be financed through cash and bank loan and is expected to be earnings per share accretive in 2021. Aptilo is estimated to generate sales of approximately SEK 88 million for the full year 2020.

Aptilo's flagship product is the Aptilo Service Management Platform™ (SMP), a carrier-class system for management of data services, with advanced functions for policy and access control. Aptilo SMP is used in large-scale deployments of carrier Wi-Fi, while Aptilo SMP IoT is a solution for connectivity and security management over both cellular and Wi-Fi technologies.

Aptilo's solutions have been deployed by more than 100 operators in 75 countries and are sold both directly to operators and indirectly through technology and channel partners. More than half of Aptilo's total revenue is recurring, and the products are sold either as software licenses, as managed services, or in a cloud-based SaaS (software as a service) model to a growing number of customers.

"I'm pleased to announce this acquisition, which complements Enea in an excellent way," says Jan Häglund, President and CEO of Enea. "Aptilo is a leader in Wi-Fi and IoT connectivity management. The acquisition strengthens our data management portfolio, expands our reach with existing and new customers, and creates interesting business opportunities in the fields of 5G, Internet of Things, and SaaS."

"I'm glad to join Enea that has a strong position as a supplier of innovative software products for 4G and 5G mobile core," says Paul Mikkelsen, CEO of Aptilo. "Our solutions will be an excellent addition to Enea's core network portfolio, as the combination of 5G and Wi-Fi 6 creates a strong and unique offering to the market."

Aptilo will continue to operate under its own brand as a business unit within Enea, and the business unit will be headed by Paul Mikkelsen.

PwC has acted as financial advisor and Setterwalls as legal advisor for this acquisition.

Investors, financial analysts, and media are invited to an online press conference (see details below) during which Jan Häglund, President and CEO of Enea, and Björn Westberg, CFO, will present the acquisition and answer questions.

## Key figures and facts about Aptilo

- Privately held company with Norvestor V L.P. as the majority shareholder
- Founded in 2001
- Headquartered in Stockholm, Sweden
- Sales offices in Dallas, USA, and Kuala Lumpur, Malaysia
- Net Sales SEK 90.0 million (84.4) in 2019 (2018), based on local Swedish GAAP (K3).

## Further financial information

The total enterprise value is SEK 150 million on a cash and debt free basis, and approximately SEK 57.8 million is related to current debt and other adjustments, leaving approximately SEK 92.2 million as the total consideration.

The acquisition will be consolidated from October 1 as part of product group Network Solutions and contribute to Enea's financial numbers in the fourth quarter of 2020. Expected sales from this business in the fourth quarter are above SEK 20 million. Enea repeats previous guidance of a negative impact due to the Corona pandemic on total Group sales in 2020. These negative effects, which mainly are related to delayed customer projects and investments, are expected to continue during the third and fourth quarter.

Enea estimates that the acquisition will be EPS accretive already next year, while slightly dilutive to the operating margin. Enea expects to further improve the acquired business operating margin to near Enea's overall profitability target by the end of 2021. Enea repeats previous guidance of an operating margin target above 20 percent for the full year of 2020.

Estimated transaction cost is approximately SEK 4 million.

## About Enea

Enea is one of the world's leading suppliers of innovative software for telecommunication and cybersecurity. Focus areas are cloud-native, 5G-ready products for data management, mobile video traffic optimization, edge virtualization, and traffic intelligence. More than 3 billion people rely on Enea technologies in their daily lives. Enea is headquartered in Stockholm, Sweden, and is listed on Nasdaq Stockholm.

**For more information:** [www.enea.com](http://www.enea.com).

# Fortinet's Latest Firewall Integrates Networking and Security in a Single Platform to Protect Any Edge and Large Remote Workforces

FortiGate 2600F offers up to 10x higher performance enabled by Fortinet SPUs, allows customers to replace multiple point products to reduce cost and complexity

**John Maddison, EVP of Products and CMO at Fortinet -- SUNNYVALE, Calif. - Oct 29, 2020**

"Enterprise organizations are accelerating their digital innovation initiatives while also having to secure a remote and hybrid workforce. In this complex environment, deploying enterprise-class security anywhere is essential. Fortinet's security-driven networking approach accelerates the convergence of networking and security to protect any edge, including enterprise data center, WAN, and cloud edges - all from a single network firewall platform."



## News Summary

Fortinet® (NASDAQ: FTNT), a global leader in broad, integrated and automated cybersecurity solutions, today announced the FortiGate 2600F, Fortinet's latest network firewall that enables security-driven networking to protect multiple edges including hybrid data centers, multi-cloud environments and large-scale remote workforces. Powered by Fortinet's purpose-built security processing units (SPUs), NP7 and CP9, the FortiGate 2600F offers some of the highest performance figures in the industry with Security Ratings of up to 10 times higher than competitor solutions to enable the following use cases for large enterprises:

- **Highspeed cloud on-ramps:** The FortiGate 2600F enables highly secure and extremely fast cloud on-ramps to connect enterprise data centers to multiple cloud environments, allowing organizations to effectively use cloud-based applications to analyze big data.
- **Protect any edge at any scale:** The FortiGate 2600F provides full visibility with SSL inspection (including TLS1.3), detects unauthorized applications and threats, and protects users and data that traverse through hybrid data center environments to manage external risks. FortiGate 2600F offers hardware-accelerated resiliency through IPv4 and IPv6 DDoS (Distributed Denial of Service) metering for flooding attacks to ensure business continuity for services edge.
- **Flexibility to empower large remote workforces:** The FortiGate 2600F is engineered for flexibility to enable a large remote workforce to come online with speed and productivity. The FortiGate 2600F ensures confidentiality and integrity of sensitive company data in transit and monitoring to align with an organization's existing cybersecurity. The FortiGate 2600F offers an average of 9x faster IPsec VPN to allow organizations to implement business continuity while sustaining ongoing operations.
- **Simplify operations and realize better ROI:** A recent Fortinet survey of cybersecurity leaders showed almost 70% of organizations are concerned about insider threats. FortiGate 2600F combines segmentation, SD-WAN and network firewall capabilities in a single compact platform to help large enterprises reduce complexity, simplify operations and take advantage of ROI benefits. The 2600F also reduces the attack surface through segmentation and protects corporate data and business applications with AI/ML-powered FortiGuard Labs Services. FortiGate 2600F enables hardware-accelerated VXLAN segmentation to enable secure and super-fast communication within hybrid IT architectures leveraging Virtual Extension LAN (VXLAN).

## FortiGate 2600F vs. Competitors

Below is a comparison of the top network firewalls on the market against the FortiGate 2600F series. Security Compute Rating is a benchmark (performance multiplier) that compares FortiGate performance versus the industry average of competing products across various categories that fall within the same price band.

Specification	Fortinet FortiGate 2601F	Industry Average	Security Compute Rating	Palo Alto Networks PA-5220	Check Point SG-6700	Cisco FPR-2140	Juniper Networks SRX4100
Firewall	198Gbps	29Gbps	7x	N/A	26Gbps	20Gbps	40Gbps
IPsec VPN	55Gbps	5.9Gbps	9x	11Gbps	4.61Gbps	3.2Gbps	5Gbps
Threat Protection	20Gbps	7.9Gbps	2.5x	10Gbps	5.8Gbps	N.A	N/A
SSL Inspection	20Gbps	1.7Gbps	10x	1.9Gbps	1.4Gbps	1.4Gbps	N/A
Current Sessions	24M	3.5M	7x	4M	2M	3M	5M
Connections /sec	900k	167k	5x	180k	164k	75k	250k

1NSS Labs NGFW 2019 Performance Comparative Report

## Powered by Security-Driven Networking and the Fortinet Security Fabric

Fortinet security processing units (SPUs), including the NP7 and CP9, are engineered to radically increase the speed, scale, performance, efficiency and value of Fortinet solutions while greatly improving user experience, reducing footprint, and lowering power requirements. **Learn more at <https://www.fortinet.com>.**



## Radisys, Intel and China Mobile Team Up for 5G Open RAN Architecture

*China Mobile Research Institute to demonstrate 5G NR sub-6 GHz Standalone (SA) mode reference architecture for high-definition video and IoT applications during MWC Shanghai*

MWC SHANGHAI, June 26, 2019 – [Radisys® Corporation](#), a global leader of open telecom solutions, today announced that it has collaborated with Intel and China Mobile Research Institute (CMRI) to demonstrate a 5G New Radio reference architecture and use cases based on the O-RAN Alliance specification. The solution leverages Radisys' disaggregated RAN software architecture building blocks for 4G, 5G and IoT and Intel's FlexRAN Layer 1 based on Intel architecture platforms. By leveraging open RAN architectures in their networks, mobile operators will be able to accelerate their 5G deployments.

### News Highlights

- Mobile operators around the world are seeking to accelerate their 5G network deployments by leveraging disaggregated and open reference architecture solutions that use open components with standard APIs from a multi-vendor ecosystem. The [O-RAN Alliance](#) is focused on bringing openness, programmability, self-healing and intelligence to the RAN, and its Work Group 8, co-chaired by China Mobile, AT&T, Radisys and Intel, is defining a 5G NR reference software architecture.
- Radisys is delivering an integrated 5G solution for a public demonstration of 5G NR sub-6 GHz SA mode that leverages Radisys' L2/L3 software stack and Intel's FlexRAN Layer 1 software on an Intel architecture platform.
- China Mobile will demonstrate the 5G NR Sub-6 GHz SA demo showcasing eMBB and IoT use cases for video streaming and factory floor robot control respectively in Booth N3.E20 at MWC Shanghai, taking place June 26-28.

"China Mobile is a founding member of the O-RAN alliance. The disaggregated and open RAN architecture will help accelerate the time-to-market of new RAN features. The ability of a fast iterative software upgrade will be the key for operators to provide vertical industry customized RAN services with agility and cost effectiveness. We believe the open source strategy is one of the cornerstones to speed up this progress," said Dr. Chih-Lin I, China Mobile. "We are excited to showcase the demo of the open-source solution of O-RAN to the industry for the first time at the MWC Shanghai."

"Intel is committed to the RAN market with a broad portfolio of optimized solutions for all nodes in an end-to-end access network," said Cristina Rodriguez, Intel VP and general manager of Data Center Group, Wireless Access Networking Division. "Intel is collaborating with O-RAN Alliance members to specify hardware and software reference architectures for virtualized RAN with standardized interfaces. This demonstration of wireless protocol stack layers from Intel and Radisys running on Intel Xeon based general purpose servers is an important step in getting broader acceptance of open RAN architecture, expanding the ecosystem, and ultimately enabling service providers all over the world to speed up RAN deployments."

"The RAN is the last part of the network to undergo disaggregation, and open ecosystem efforts such as the O-RAN Alliance are key to delivering a unified reference architecture for open RAN deployments," said Neeraj Patel, vice president and general manager, Software and Services, Radisys. "We're pleased to team with Intel and China Mobile to showcase the benefits of this SDN-ization of 5G NR access, a critical and hitherto costly piece of the RAN jigsaw, with the use of open software, open APIs, open architecture and standard hardware components enabling seamless interoperability across Radio layers from different RAN vendors paving the way for accelerated innovation. Enabling enterprise use cases and deployment scenarios such as the ones being showcased leveraging the Radisys high performance Radio Stack are really driving this forward-looking architecture that can meet the demands of 5G and IoT."

### 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](http://www.Radisys.com).



# Euro Media Group Standardizes on Selenio Network Processor for Unique, Large-Scale Modular Live Production Architecture

*Flexible platform provides software-defined video processing, timing and SDR/HDR and SDI/IP conversion*



THAMES DITTON, England, September 9, 2020 – Euro Media Group S.A (EMG), Europe’s leading provider of media facilities and services, has taken a unique, modular approach to implementing standardized IP technology across its organization with the development of diPloy (formerly Objective 2020). Designed with the largest sports events in mind, diPloy allows EMG to quickly create powerful, scalable live production architectures from preconfigured IP modules.



Central to the design of the EMG platform is the [Selenio™ Network Processor](#) (SNP) from Imagine Communications, widely recognized as the most flexible standards-based IP media processing platform available today. Each SNP provides four independent processing blocks that can be software-reconfigured in each deployment — all in a space-saving 1RU chassis with a consolidated 100GBE network interface. In some diPloy modules, SNP works as a gateway to bridge EMG’s legacy SDI equipment to the SMPTE ST 2110 network on which diPloy depends.

“Our operations have grown rapidly, not least through acquisition,” said Timo Koch, Director of Operations of Euro Media Group (EMG). “The Group owns a vast amount of legacy equipment that still needs to be integrated in a future-proof system. In 2017, we started on our internal initiative to develop our transition to IP in a managed way, respecting our investment in legacy equipment like cameras and replay servers, but seizing on the flexibility and scalability of software-defined technology.

“The diPloy project is fully 4K and HDR Ultra HD enabled,” Koch added. “Ultimately, the vast array of these preconfigured IP modules enables us to build facilities for the biggest productions with much reduced engineering time, advanced functionality and very high reliability. Imagine’s SNP is a key building block in our architecture. It offers the perfect performance capabilities for the live market in a compact, powerful and agile device.”

The EMG platform uses multi-level, high-speed networking to provide fully redundant connectivity and a controlled network for video and audio signals, as well as for system timing, leveraging Precision Time Protocol (PTP). Onto the network, different functionality modules are attached as required, providing specific functionality from stage boxes to replay. Each module is contained in standardized rack unit — many of just 9RU — with some demanding very high processing density.

The 1RU Selenio Network Processor (SNP) provides this high density. A single SNP can, for example, provide 32 channels of conversion between 3G-SDI and IP, including synchronization, audio management, and color processing on every signal path. In a different production, the same SNP can process 8 channels at 4K resolution.

In diPloy, the SNP also provides up/down/cross conversion between HD and Ultra HD in HLG, PQ, and S-Log3 through its own sophisticated color processing pipeline with dozens of user adjustments. In productions that require matching to a specific LUT, the SNP will allow customer-uploaded LUTs, including dynamic adjustments in tandem with the LUT and dynamic contextual switching between the LUT and the pipeline, choosing the appropriate conversion on-the-fly. Other SNPs provide all frame synchronization outputs back to SDI, with full phasing and delay adjustment from the network PTP feed, and audio processing including MAD1 and AES67 audio integration.

“Building an IP infrastructure from preconfigured modules is a unique concept, and EMG is leading the industry,” said Mathias Eckert, SVP & GM EMEA/APAC from Imagine Communications. “The systems architects at EMG have brought together the very best of breed in IP connectivity and video production.

The diPloy platform was developed and built for use in major international sporting events originally planned for the summer of 2020. After the initial programme, now slated for summer 2021, diPloy will be retained as a modular flight-case solution for other remote productions and will form the basis of upgrades to EMG’s fleet of outside broadcast trucks and fixed production facilities, both on-site or at remote operations centers.

## **About Imagine Communications**

Imagine Communications empowers the media and entertainment industry through transformative innovation. Broadcasters, networks, video service providers and enterprises around the world rely on our optimized, futureproof, multiscreen video and revenue enablement solutions every day to support their mission-critical operations. Today, nearly half of the world’s video channels traverse our products, and our software solutions drive close to a third of global ad revenue. Through continuous innovation, we are delivering the most advanced IP, cloud-enabled, software-defined network and workflow solutions in the industry. Visit [www.imaginecommunications.com](http://www.imaginecommunications.com) for more information.

## **About Euro Media Group**

Euro Media Group (EMG) is Europe’s leading provider of broadcast facilities and services, active in 8 countries: France, Belgium, Netherlands, Germany, United Kingdom, Switzerland, Italy and Luxembourg. New-media driven, EMG is a valued partner for major international events, including sport (Tour de France, Football World Cup and Formula One...) live shows (Eurovision, Royal Weddings, Concerts...) and entertainment (The Voice, Masterchef, the X-Factor...).

[www.euromediagroup.com](http://www.euromediagroup.com)

# EVS TO INTRODUCE NEW SOLUTIONS THAT ENABLE LIVE PRODUCTION ANYWHERE



Liège, Belgium, September 10, 2020 -- Flexible production initiative to be presented through a comprehensive program of physical and virtual product demos culminating in a live web show



EVS will present its [Live Production Anywhere](#) vision and its latest solutions through a series of customer events that will take place both in-person and online. The comprehensive educational program kicks off the week of September 21st and will consist of physical and remote product demonstrations for customers. The program will culminate in a live web show where content creators can learn more about the wide range of flexible and efficient workflow possibilities that EVS solutions can offer for coverage of live events in this challenging climate.

Launched at the beginning of the Covid-19 outbreak as a way to highlight the best practices in the industry, EVS' Live Production Anywhere initiative brings together a series of recommendations designed to transform existing production systems into more flexible production environments that are better adapted to meet the demands of today and tomorrow. It reflects EVS' ongoing effort to provide a future of live production that removes the constraint of location, giving production crews the flexibility to operate from anywhere.

## A new way to introduce the future

With this year's IBC cancelled, EVS will instead apply this Live Production Anywhere vision itself by bringing demonstrations of its latest products and solutions to customers no matter their location.

This will be achieved through online video conferencing with product specialists and through the on-demand deployment of demonstration vehicles to sites in Europe and North America.

While the product demonstrations are designed to provide awareness of the latest technical features that EVS has developed, the live web show on Wednesday, October 14 at 10:00 CEST / 16:00 HKT and 18:00 CEST / 12:00 ET will focus more on the creative, business and economic benefits that Live Production Anywhere can generate. It will feature essential insight from EVS' industry and technology experts, as well as a virtual tour of its state-of-the-art Liège headquarters and exclusive behind the scenes footage showing how EVS serves its customers to the highest standards. The latest products and solutions will be showcased, along with an update on the Axon integration, following the [acquisition of the company](#) in May. There will also be an additional focus on how EVS is strengthening its broadcast and IP infrastructure solutions.

The web show will be produced using some of EVS' latest tools, including the [XT-VIA](#) live video production server and [LSM-VIA](#) live slow motion replay system by EVS' partners [CK Productions](#) and [NEP Belgium](#).

"With IBC no longer taking place this year, and our chance to catch up with friends and colleagues in Amsterdam gone, we wanted to find an innovative way of continuing the intimacy with customers that we at EVS pride ourselves on. This program gives us the opportunity to engage with the industry and present our latest thinking as best as the current situation allows," said Nicolas Bourdon, CMO at EVS. "Our theme for IBC2020 was Live Production Anywhere, and as recent events have highlighted, it's now more important than ever & therefore imperative that our customers are able to deliver on this message. This is where we can help, we look forward to discussing with them how."

More information on our upcoming live web show, latest product demos and the Live Production Anywhere vision can be found at [evs.com/live-production-anywhere-program](https://www.evs.com/live-production-anywhere-program).



# BBright and Technicolor enable easy HDR live production and playout

Rennes, France Sept 1st, 2020

BBright, the specialist in advanced media processing and technologies, has been working with Technicolor, a worldwide leader in the media and entertainment sector, to integrate Technicolor’s HDR technologies into their playout and live production solutions.

Bbright Live Production and Playout solutions now support both [Technicolor HDR](#) (SL-HDR1 and SL-HDR2 versions) and [Technicolor ITM](#) (Intelligent Tone Management) to enable live SDR / HDR cross conversion and facilitate HDR deployments. Guillaume Arthuis, BBright CEO, explained: “HDR adoption is still slowed down by the amount of existing heterogeneous formats, especially in live production. Thanks to Technicolor’s technology, we now have the ability to provide high quality live SDR/HDR cross conversions (up to Ultra HD) to our customers and help them simplify their production workflows.



Bbright Live Production (BMedia) and Playout (UHD-Channel) support SDI and ST2110 inputs/outputs, and a large portfolio of codecs and file wrappers. Adding Technicolor live HDR tone management technology makes BBright solutions unique and the most flexible and interoperable on the market.

“The collaboration with BBright is yet another example that Technicolor’s HDR technologies are the most suited for Broadcasters that want to easily and cost efficiently produce HDR live content”, says Thomas Bohan, Technicolor’s HDR Program President.

## About Bbright:

Bbright develops high-end software-based technologies, and focuses on latest media innovations such as UHD, HDR, 8K, NGA and HFR. Advanced Media processing solutions are available for Live Ingest and baseband Playout, TS-based/Compressed Playout, professional Contribution and Monitoring Decoders and reference Test and QC systems. Bbright serves various Tier #1 customers worldwide such as broadcast equipment manufacturers, UHD / 4K / 8K content vendors, video network operators (Satellite, Terrestrial, Cable), Telco operators (IPTV) and public or private TV channels. **MORE:** <https://www.bbright.com/>

## BBRIGHT Product Overview

Create, Transport, and Play the best quality content

[Click on the Boxes](#)

Create	Transport	Play
<p><b>Live Production, up to 4K HDR</b></p> <p>Produce the best quality content for live sport, live events and much more, up to Ultra HD!</p>	<p><b>Contribution &amp; Ingest</b></p> <p>Transport your content, decode, and ingest it. High density, multi codec, and up to 8K!</p>	<p><b>Playout and Channel in a Box</b></p> <p>Find the smart way to play your content, from high density transport stream playout to advanced UHD Channel in a Box!</p>

# Harmonic Introduces Groundbreaking Gigabit Upstream Solution for Cable Operators

## *Comcast Trialing New Technology — A Key 10G Milestone.*

October 12, 2020 | 2-Minute Read

SAN JOSE, Calif. — Oct. 12, 2020 — Harmonic (NASDAQ: HLIT) today announced groundbreaking new technology that enables cable operators to provide compelling new two-way gigabit services. Harmonic's unique upstream gigabit solution is full spectrum and compatible with already-deployed cable modems and set-top boxes (STBs). This new technology has been integrated into Harmonic's CableOS® core software and its new Ripple+ network edge platform. The company also announced that Comcast is the first operator to conduct a field trial of this new technology.

"Upstream bandwidth demand continues to intensify, as more people work from home and participate in distance learning," said Nimrod Ben-Natan, Senior Vice President and General Manager, Cable Access Business at Harmonic. "Leveraging our latest CableOS cloud-native and distributed network edge platforms, the cable industry now has the tools to meet growing bandwidth demand and offer market-leading symmetric gigabit services today, without costly cable modem or set-top box replacement."

"We're excited to continue our work to evolve 10G technologies as we begin our efforts to extend those benefits to customers, and we value the important work Harmonic has done to support those efforts," said Elad Nafshi, Senior Vice President of Next-Generation Access Networks at Comcast Cable.

### **With Harmonic's new CableOS Ripple+ network edge platform, cable operators can:**

- Deliver upstream and downstream bandwidth up to full spectrum without changing installed DOCSIS 3.1 cable modems or STBs;
- Implement any HFC spectrum split and node configuration, including 2x4 segmentation, spanning traditional node placement to fiber deep, with unified network edge hardware;
- Seamlessly evolve from traditional HFC architectures to fiber-deep to fiber-to-the-home (FTTH) PON deployments through simple module reconfigurations of the unified edge platform;
- Ensure uninterrupted distributed edge platform operation during power outages;
- Solve backbone capacity bottlenecks and address time sensitive applications with new deep edge compute capability.

Harmonic will showcase its expanding CableOS solution at the virtual SCTE•ISBE Cable-Tec Expo, Oct. 12-15. To learn more about Harmonic's presence at the Cable-Tec Expo and to schedule a meeting, visit <https://info.harmonicinc.com/scte-cable-tec-expo-showcase-2020/>.

Harmonic's market-leading CableOS solution powers more than 2 million cable modems for a growing number of innovative cable operators worldwide. Further information about Harmonic and the company's solutions is available at [www.harmonicinc.com](http://www.harmonicinc.com).

### **About Harmonic**

Harmonic (NASDAQ: HLIT), the worldwide leader in virtualized cable access and video delivery solutions, enables media companies and service providers to deliver ultra-high-quality video streaming and broadcast services to consumers globally. The company revolutionized cable access networking via the industry's first virtualized cable access solution, enabling cable operators to more flexibly deploy gigabit internet service to consumers' homes and mobile devices. Whether simplifying OTT video delivery via innovative cloud and software platforms, or powering the delivery of gigabit internet cable services, Harmonic is changing the way media companies and service providers monetize live and on-demand content on every screen.

More information is available at [www.harmonicinc.com](http://www.harmonicinc.com).

# 20+ Top Cloud Computing Service Provider Companies

Last Updated: June 30, 2020 | Source: <https://www.softwaretestinghelp.com/cloud-computing-service-providers/>

## Introduction to Cloud Computing Services:

Earlier we used to store our data in hard drives on a computer. Cloud Computing services have replaced such hard drive technology. Cloud Computing service is nothing but providing services like Storage, Databases, Servers, networking and the software through the Internet.

Few Companies offer such computing services, hence named as "Cloud Computing Providers/ Companies". They charge its users for utilizing such services and the charges are based on their usage of services.

In our daily routine, we use this cloud service without our notice like web-based email service, watching movies through the internet, editing documents and storing pictures uses cloud computing on the back-end.

Using such cloud technology we can design and create new applications, store and recover data and hosting the website.

## Generally, cloud computing services are categorized into three types.

**1) Infrastructure as a Service (IaaS):** This service provides the infrastructure like Servers, Operating Systems, Virtual Machines, Networks, and Storage on rent basis.

**E.g:** Amazon Web Service, Microsoft Azure

**2) Platform as a Service (PaaS):** This service is used in developing, testing and maintaining of software. PaaS is same as IaaS but also provides additional tools like DBMS and BI service.

**E.g:** Apprenda, Red Hat OpenShift

**3) Software as a Service (SaaS):** This service makes the users connect to the applications through the Internet on a subscription basis.

**E.g:** Google Applications, Salesforce

## Top Cloud Computing Companies

Kamatera	Amazon Web Services	Rackspace	Navisite
Softchoice	Microsoft Azure	Red Hat	Dropbox
Prolifics	Google Cloud Platform	Salesforce	Egnyte
phoenixNAP	Adobe	Oracle Cloud	
Cloudways	Vmware	SAP	
pCloud	IBM Cloud	Verizon Cloud	

### #1 - Kamatera

Kamatera provides very low-maintenance and high-performance cloud infrastructure services. The cost is also very low for its cloud services (**yes, you can set a server as low as \$4**).

#### Kamatera Core features:

- Customized and Tailored Made VPS Hosting. They charge only according to what you use. E.g when you add 1 GB
- RAM you will pay for this only and no need to add extra server resources unnecessary.
- Add or remove servers without any penalty.
- 99.95% Uptime Guaranteed.
- Try 100% free for the 30-days. No hidden fees or any commitment Access all cloud Management Platform features in the trial period as well.
- 24/7/365 Tech Human Support.
- 14 Global Data Centers across 4 continents.

=> Visit [Kamatera Cloud Services](#)

### #2 - Softchoice

Softchoice is a global leader in Azure deployment, an Advanced Consulting Partner for AWS, & a Google Cloud Partner.

#### Core Services:

- **Cloud Workload Assessment:** Softchoice's Cloud Workload Assessment helps you define the costs, risks, and readiness for migrating workloads to the cloud. They provide their clients with a road map to adopting a Hybrid IT strategy that includes adopting and migrating Public Cloud services such as AWS and Azure.
- **Cloud Accelerator:** Cloud migration services include the migration of a workload along with formal staff training. They also provide cloud management tools and ongoing support you need for long-term success.
- **Cloud Migration Services:** They offer end-to-end cloud services, including design, proof of concept, and testing to deliver an effective cloud migration. At every step, they work with your team to provide the mentorship and knowledge transfer to realize the benefits of the cloud well after your migration is complete.
- **Cloud Managed Services:** Softchoice provides the operational support you need to transform the way you deliver IT services to the business. Benefit from 24X7 monitoring, expert support, and unlimited mentorship. They'll help you to manage cloud costs, resolve issues faster, and set a secure, stable foundation for long-term success.

=> Visit [Softchoice Website](#)

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## #3 - Prolifics

Prolifics provides digital consulting, engineering, and managed services that include, Cloud, Data & Analytics, Digital Business, Quality Assurance, and DevOps. It offers services for various industries, Banking & Finance, Retail & Distribution, Healthcare, Insurance, Mortgage, and Public sector.

It provides solutions faster. Accelerators and the solutions for any point in your digital roadmap or for the entire transformation journey are available.

### Features:

- Prolifics can give the services of Cloud Architecture, Cloud Migration, and Cloud-Native Dev.
- It can provide the solutions for Continuous Integration and Continuous Delivery/Deployment, Infrastructure as Code, and Toolchains.
- Services like AI & Machine Learning, Business Analytics, and Data Management are available with Prolifics.
- For Quality Assurance, the available services are Business Assurance & Functional Testing, Performance Testing, and Testing Lifecycle Automation.

=> Visit [Prolifics Website](#)

## #4 - ScienceSoft

ScienceSoft is a renowned US-based provider of cloud infrastructure services.

### Core Features:

- 11 years of experience in IT service management.
- Managed cloud services to non-IT companies using AWS / Azure and to providers of SaaS applications running on AWS / Azure.
- End-to-end cloud managed services, including cloud infrastructure consulting, administration and troubleshooting, management, monitoring, and security; cloud migration; cloud infrastructure optimization and evolution.
- Subscription price advantage (thanks to the official status of Cloud Service Provider), consolidated billing, and a dedicated manager to handle subscription-related requests.
- Established partnerships with AWS and Azure in IoT and Big Data.
- 24 / 7 / 365 support.

=> Visit [ScienceSoft Website](#)

## #5 - phoenixNAP

### Core Features:

- phoenixNAP is a global IT services provider offering secure and scalable Infrastructure-as-a-Service solutions, including private, public, and managed cloud services.
- phoenixNAP's Data Security Cloud, Virtual Private Data Center, Managed Private Cloud, and Public Cloud use cutting-edge hardware and software technologies to support evolving business needs.
- In addition to the high-performance cloud platform, phoenixNAP also offers advanced backup, disaster recovery, and availability solutions.
- Delivered on an opex-friendly model, phoenixNAP's services provide access to enterprise-grade technology at an affordable price.
- phoenixNAP's cloud computing solutions can help you meet compliance, security, and business continuity goals.

=> Visit [phoenixNAP Website](#)

## #6 - Cloudways

Cloudways is a managed hosting provider ideal for agencies, SMB, and developers who require a hassle-free managed hosting platform that simplifies their business processes.

Cloudways is a PaaS product with the choice of five IaaS including AWS, Google Cloud, DigitalOcean, Linode and Vultr. Deploy unlimited PHP applications such as WordPress, Custom PHP, Magento, and WooCommerce on Cloudways managed servers.

The Cloudways Hosting Stack comprises of Apache, NGINX, Varnish, Redis, Memcached, and MariaDB. Secure managed hosting platform protected by firewalls, TFA, IP Whitelisting and similar security components.

Experience application and server backups, both on-demand and scheduled at a very nominal cost. Choose your own values for backup frequency and retention.

=> Visit [Cloudways Website](#)

## #7 - pCloud

pCloud is the secure encrypted cloud storage that can be used for storing, sharing, and working on all your files. It is accessible from anywhere and on any device. It offers various facilities like Teams & access levels, Shared folders, Comments to files & folders, and Activity Monitoring.

With pCloud, you will get increased storage space, unbeatable security, enhanced search, and scalable system.

### Features:

- pCloud will let you do the file management from the web, desktop, or mobiles.
- Multiple file-sharing options are available.
- It can save versions of the file for a specific period.
- It provides the facility to backup your photos from social media like Facebook, Instagram, and Picasa.
- It provides data security through TLS/SSL encryption.

=> Visit [pCloud Website](#)

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## #8 - Amazon Web Service (AWS)

- AWS is the safest and protected platform of cloud service which offers a wide set of infrastructure services like database storage, computing power, networking.
  - Using this AWS one can host the static websites.
  - By using such services, users are able to build complicated applications that are trustworthy, scalable and flexible.
  - One can have the hands-on experience of AWS for free.
- => Explore the site for more features on [Amazon Web Services](#).

## #9 - Microsoft Azure

- Microsoft Azure is used for deploying, designing and managing the applications through a worldwide network.
  - Previously Microsoft Azure was known as Windows Azure.
  - This Cloud computing service supports various operating systems, databases, tools, programming languages and frameworks.
  - A free trial version of Microsoft Azure is available for 30 days.
- => You can visit [this website](#) for further information.

## #10 - Google Cloud Platform

- Google Cloud Platform uses resources such as computers, virtual machines, hard disks, etc. located at Google data centers.
  - Google Cloud Platform is an integrated storage used by developers and enterprises for live data.
  - Apart from the free trial, this service is available at various flexible payment plans based on Pay-As-You-Go (PAYG).
- => Visit [Google Cloud Platform](#) for more details.

## #11 - Adobe

- Adobe offers many products that provide cloud services. Few among them are Adobe Creative Cloud, Adobe Experience Cloud, and Adobe Document Cloud.
  - Adobe Creative Cloud service is a SaaS, that offers its users to access the tools offered by Adobe like editing the videos, photography, graphic designing.
  - Adobe Experience Cloud offers its users to access a broad set of solutions for advertising, building campaigns and gaining intelligence on business.
  - Adobe Document Cloud is a complete solution for digital documentation.
- => For more information on this service, visit [Adobe website](#).

## #12 - VMware

- VMware is a universal leader in virtualization and Cloud Infrastructure.
  - VMware's cloud computing is exclusive and helps in reducing the IT intricacy, lower the expenses, provides flexible agile services.
  - VMware vCloud Air is a safe and protected public cloud platform that offers networking, storage, disaster recovery, and computing.
  - VMware's Cloud solutions facilitate to maximize your organization's profits of cloud computing by combining the services, technologies, guidance needed to operate and manage the staff.
- => Visit this website for further details on [VMware Cloud service](#).

## #13 - IBM Cloud

- IBM Cloud offers IaaS, PaaS, and SaaS through all the available cloud delivery models.
  - Using IBM Cloud one can have the freedom to select and unite your desired tools, data models and delivery model in designing/creating your next-generation services or applications.
  - IBM Cloud is used to build pioneering way outs that can gain value for your businesses and industry.
  - With the IBM Bluemix Cloud platform, one can incorporate highly performing cloud communications and services into your IT environment.
- => For more information on IBM, access [IBM Cloud](#).

## #14 - Rackspace

- Rackspace Cloud offers a set of cloud computing services like hosting web applications, Cloud Files, Cloud Block Storage, Cloud Backup, Databases and Cloud Servers.
  - Rackspace Cloud Block Storage uses a combination of solid-state drives and hard drives to deliver high performance.
  - Rackspace Cloud Backup uses compression and encryption techniques and provides file-level backups with low cost.
  - Customers using Rackspace Cloud services are charged based on their usage.
- => For more details visit [Rackspace Cloud](#).

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## #15 - Red Hat

- Red Hat is an Open Cloud technology used by IT organizations to deliver agile and flexible solutions.
  - Using Red Hat Cloud we can modernize the apps, update and manage them from a single place and integrate all the desired parts into a single solution.
  - Red Hat Cloud Infrastructure helps us to build and manage an open cum private cloud at a low cost.
  - Red Hat Open Shift is an open and hybrid service used by developers to develop, deploy, host and delivers the applications quickly.
- => You can visit the [Red Hat](#) website and browse for more information regarding cloud computing.

## #16 - Salesforce

- Salesforce Cloud Computing offers all the applications required by businesses like CRM, ERP, customer service, sales, mobile applications, and marketing.
  - Salesforce cloud computing comprises multiple cloud services like Sales Cloud, Service Cloud, Marketing Cloud.
  - Salesforce Sales Cloud helps in managing the customer's contact information and automating the business processes.
  - Salesforce Service Cloud helps to support customers anywhere at any time.
- => To learn more about [Salesforce](#), you can visit [here](#).

## #17 - Oracle Cloud

- Oracle Cloud is available as SaaS, PaaS, and IaaS. Oracle Cloud helps the companies in transforming their business quickness and reducing the IT Complexity.
  - Oracle Cloud SaaS provides a complete data-driven and secure cloud environment.
  - Oracle Cloud PaaS helps IT Enterprises and Independent developers to develop, connect, secure and share data across the applications.
  - Oracle Cloud IaaS is a broad set of subscription-based and integrated services that help to run any kind of workload of an Enterprise.
- => Visit the website for a free trial version and further details on [Oracle Cloud](#).

## #18 - SAP

- SAP Cloud Platform is an enterprise service with wide-ranging services required for application development.
  - SAP is considered as the best cloud provider as it has powerful business networks, cloud collaboration, and advanced IT security.
  - SAP has a **universal foundation named SAP HANA for all its cloud services**.
  - SAP Cloud Platform is modernizing the working style of enterprises on the iPhone and iPad.
- => For further queries or information regarding pricing visit [SAP Cloud](#).

## #19 - Verizon Cloud

- Verizon Cloud is built to maintain enterprise workloads with strong security and trustworthy performance.
  - With Verizon Cloud, we can choose the flexible services required for our enterprise and secure our data in a personalized environment.
  - Using Verizon Cloud, one can trim down the risk and retain the data integrity across the apps.
  - Verizon Cloud helps to familiarize you to the varying business circumstances by gaining speed and reliability.
- => Visit the [Verizon Cloud website](#) for more details.

## #20 - Navisite

- Navisite provides cloud services for enterprises and mid-sized businesses using sophisticated IT technologies.
  - Navisite offers a wide range of cloud service solutions like Cloud Infrastructure services, Cloud desktop solutions, and Cloud hosting services and application services.
  - Navisite Cloud solutions facilitate its users in improving disaster recovery and reliability.
- => A free trial version of Navisite desktop service is available [here](#).

## #21 - Dropbox

- Dropbox is a refined cloud storage service used by small businesses and customers to store files or documents virtually on remote cloud servers.
  - Generally, Dropbox serves as an online or cloud personal hard drive.
  - Dropbox allows its users to access any saved data or content from any device through an internet connection.
  - Dropbox is available as a desktop app, where users can download it and save the files directly in the Dropbox folder located on your desktop.
- => 30 days free trial version of Dropbox can be accessed [here](#).

## #22 - Egnyte

- Egnyte provides a hybrid cloud way out that combines the cloud storage along with local storage infrastructure.
- Using Egnyte one can upload the file of any size and any type.
- One can customize their unique Egnyte domain to replicate their brand by implementing their personal logo on the interface and note headers of Egnyte.
- Egnyte's Cloud service provides an automatic syncing feature that guarantees that one can access the inaccessible data from any internet connection. => For additional information visit [Egnyte](#).