

AMD EPYC™ solution upgrades Telecommunication service in a Flash

Objective

Improve IT infrastructure performance to handle data growth; create a fast, cost-effective, future-proof platform for Big Data analytics

Approach

Partner with Comarch and HPE to deploy scalable platform based on cutting-edge technologies

IT Matters

- Create highly available, secure, cloud-ready environment
- Improve manageability
- Increase scalability

Business Matters

- Faster time to market
- Increase agility
- Cost-saving solutions

Technology at a glance

HPE ProLiant DL385 Gen10 server with
AMD EPYC™ 7601 processor (32 cores)
1024 GB RAM up to 4 TB



Comarch is one of the largest IT companies in Poland and Europe. It has 25 years of industry experience and references from across the globe. Its Telco Business Unit delivers IT solutions and services for the biggest telecom operators in the world.

One of its customers is an international telecommunications company providing a wide range of services, including mobile, fixed, and TV, to consumer and enterprise customers in several European countries.

The telecom industry is a hypercompetitive environment. In the era of digital disruption, success depends on the ability to move faster than the competition. To succeed and differentiate themselves, the operators need to fully exploit their data, their most valuable business asset.

The Challenge

Telecom operators face tough times as new digital technologies – Cloud, Big Data, IoT, AI – reshape the industry. Digitization is enabling operators to transform their businesses and create innovative offerings. Big Data analytics enables quick informed key business decisions to get ideas to market faster. However, new technologies are putting their IT infrastructure and IT departments under unrelenting pressure. The incredible growth of data is exceeding the capacity of traditional IT infrastructures.

Tough questions need to be answered: How to store and process increasing amounts of data effectively? How to minimize cost and maximize value? The companies need faster computing in the data center to take full advantage of data explosion. Therefore, telecom operators look for a new generation of fast, flexible and secure solutions that can scale with them as business grows and needs change. They need a cost-effective and future-proof IT infrastructure.

Like most telecommunications companies, the customer's IT must deal with increasing pressure from data outburst and growing analytic needs. With those requirements in mind, the company turned to its trusted technology partner, Comarch, to provide a modern and proven technology solution developed and optimized for telecom digital service providers.

"In order to accelerate innovation and transformation in the fast-paced industry the customer needed a flexible, fast and secure platform that would provide a better way to deliver business outcomes, to protect data and to easily scale with the changing needs." - Piotr Piątkowski, Senior Architect Comarch SA.

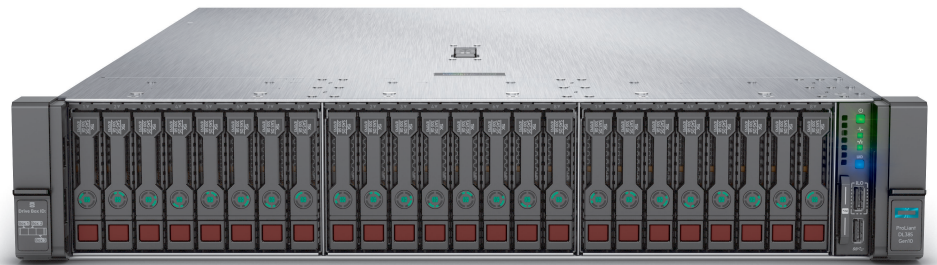
The Solution

Comarch partnered with Hewlett Packard Enterprise (HPE) to provide an innovative solution to securely accelerate customer's Big Data analytics workloads.

"Hewlett Packard Enterprise has a proven track record in supplying infrastructure solutions optimized for telecom operators. They provided the industry expertise and state of the art technology that enabled us to develop a transformative solution."

- Piotr Piątkowski, Senior Architect Comarch SA.

Comarch's engineers, together with assistance from HPE, replicated the customer's IT environment in which several comparative tests were conducted. The goal



was to achieve maximum performance in a rack dense chassis. Tests have proven that the HPE ProLiant DL385 Gen10 servers with AMD EPYC 7601 processors and 1024 GB of RAM offered an unmatched performance. It is the first AMD based NEBS/ETSI certified server for Telco.

HPE ProLiant servers provide converged, balanced architecture and a flexible design that enables scaling data linearly and without limits, while answering challenges of space, energy, and cost.

"HPE ProLiant DL385 Gen10 can support up to 24 NVMe drives with 4 PCIe lanes to each SSD. That means storage subsystem provide high performance. Response time between drives and the processor was reduced by more than 25%!"

- Jacek Szoka, HPE OEM Sales Executive.

The tests showed linear speed scaling with the number of drives attached. External disk arrays were replaced with local SSDs. That enabled increased speed and the possibility of connecting multiple disks at the same time.

"The 2-socket HPE ProLiant DL385 Gen10 allows the customer to double the number of cores in the future. In this configuration, it is capable of supporting 128 threads simultaneously. With 64 cores and 4TB memory (maximum memory capacity), the server can support more virtual machines than any competitor."

- Jacek Szoka, HPE OEM Sales Executive.

Benefit

Selecting HPE ProLiant DL385 Gen10 servers powered by AMD EPYC processors seems logical when looking for the platform of the future. This allows continued innovation which can respond quickly to changing market dynamics.

"This solution provides high performance and fast access to storage. Our end users of Big Data analytics services noticed that response to complex queries on average were reduced from 6 minutes to 30 seconds. And the faster the insights, the faster time to market. Additionally, the virtual space separated from the resources plays the role of a private cloud intended for the client's internal operations." - Piotr Piątkowski, Senior Architect Comarch SA.

The HPE ProLiant DL385 Gen10 with AMD EPYC processors also offer unprecedented security. HPE industry standard servers are the only one in the market with major firmware anchored directly into the silicon. The AMD EPYC processor provides several security-related features that help enable key security functionality including Secure, Root of Trust, Secure Run, and Secure Move.

In addition to higher performance and efficiency, the HPE ProLiant DL385 Gen10 platform enabled the customer to implement Comarch Self Care and Comarch Customer Care systems to significantly improve the quality of customer service, which is increasingly important in today's world.

Leveraging this fast and scalable server technology, the customer can meet the requirements of today and tomorrow.

Learn more about
[the HPE ProLiant DL385 Gen10 server](#)



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