

# | Atman Data Center Services

# Quality

# & security

The quality of our services, as well as the security of the information entrusted to us and the high level of customer service are evidenced by certificates and dozens of regular recertification audits.

Moreover, at our clients' request, we often undergo audits by third parties, including audits necessary to obtain or maintain PCI-DSS certification by our clients from the financial sector.



Certificate No. FS 602564

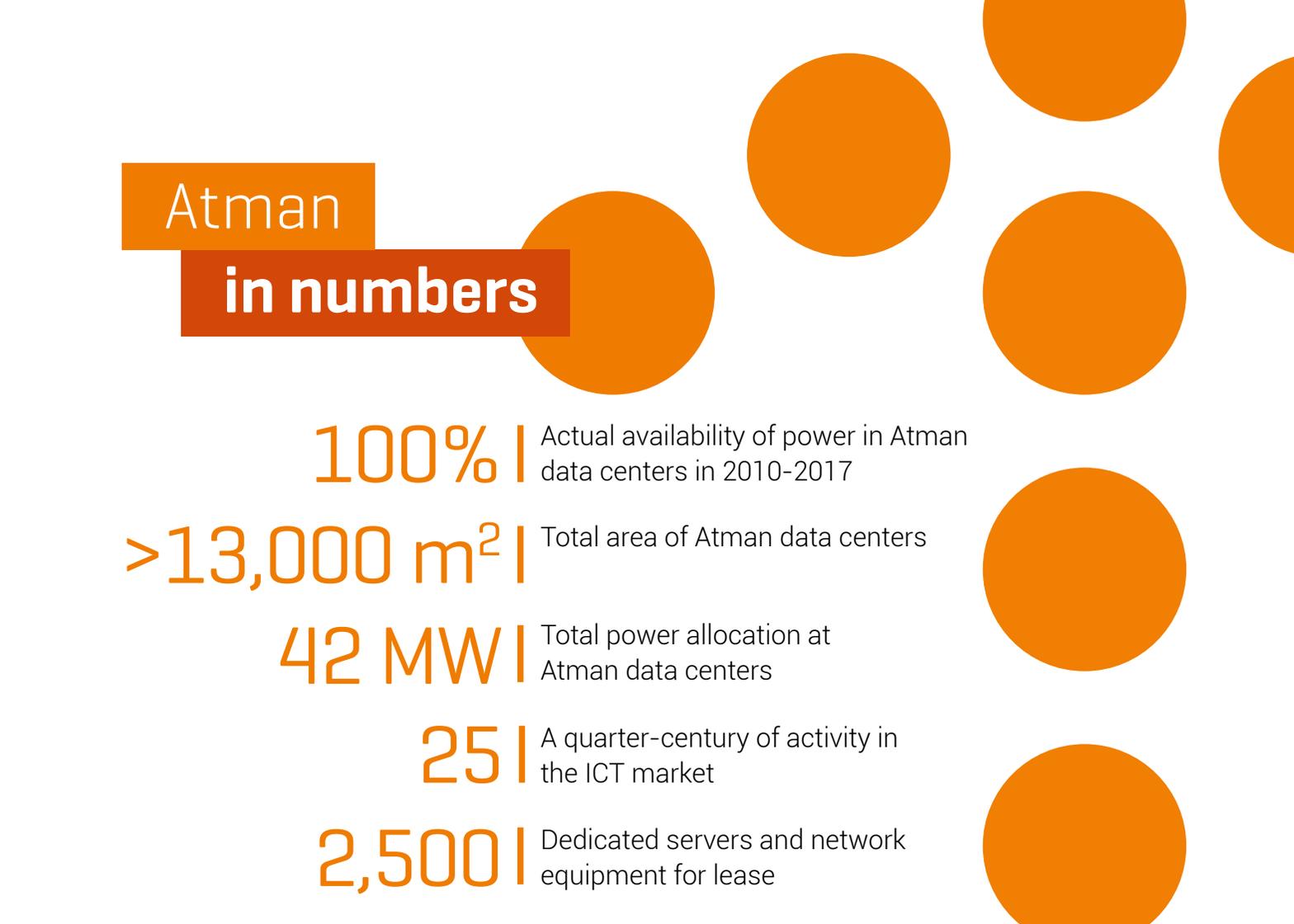


Certificate No. IS 524327



## European Code of Conduct for Energy Efficiency in Data Centre

Atman data centers adhere to the European Commission program: European Code of Conduct for Energy Efficiency in Data Centre, which main goal is to educate and stimulate enterprises to reduce energy consumption while maintaining cost effectiveness and not disturbing the critical functions of data centers, as well as to promote best practices in the field of effective energy use among data center clients.



Atman

## in numbers

**100% |** Actual availability of power in Atman data centers in 2010-2017

**>13,000 m<sup>2</sup> |** Total area of Atman data centers

**42 MW |** Total power allocation at Atman data centers

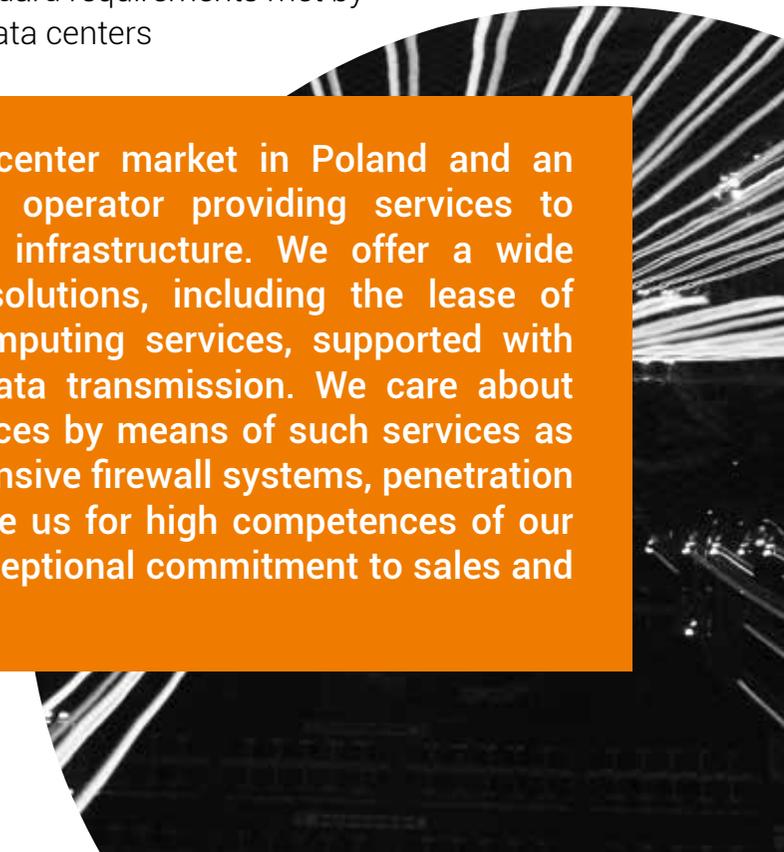
**25 |** A quarter-century of activity in the ICT market

**2,500 |** Dedicated servers and network equipment for lease

**4,000 |** Spare parts available in stock for IaaS

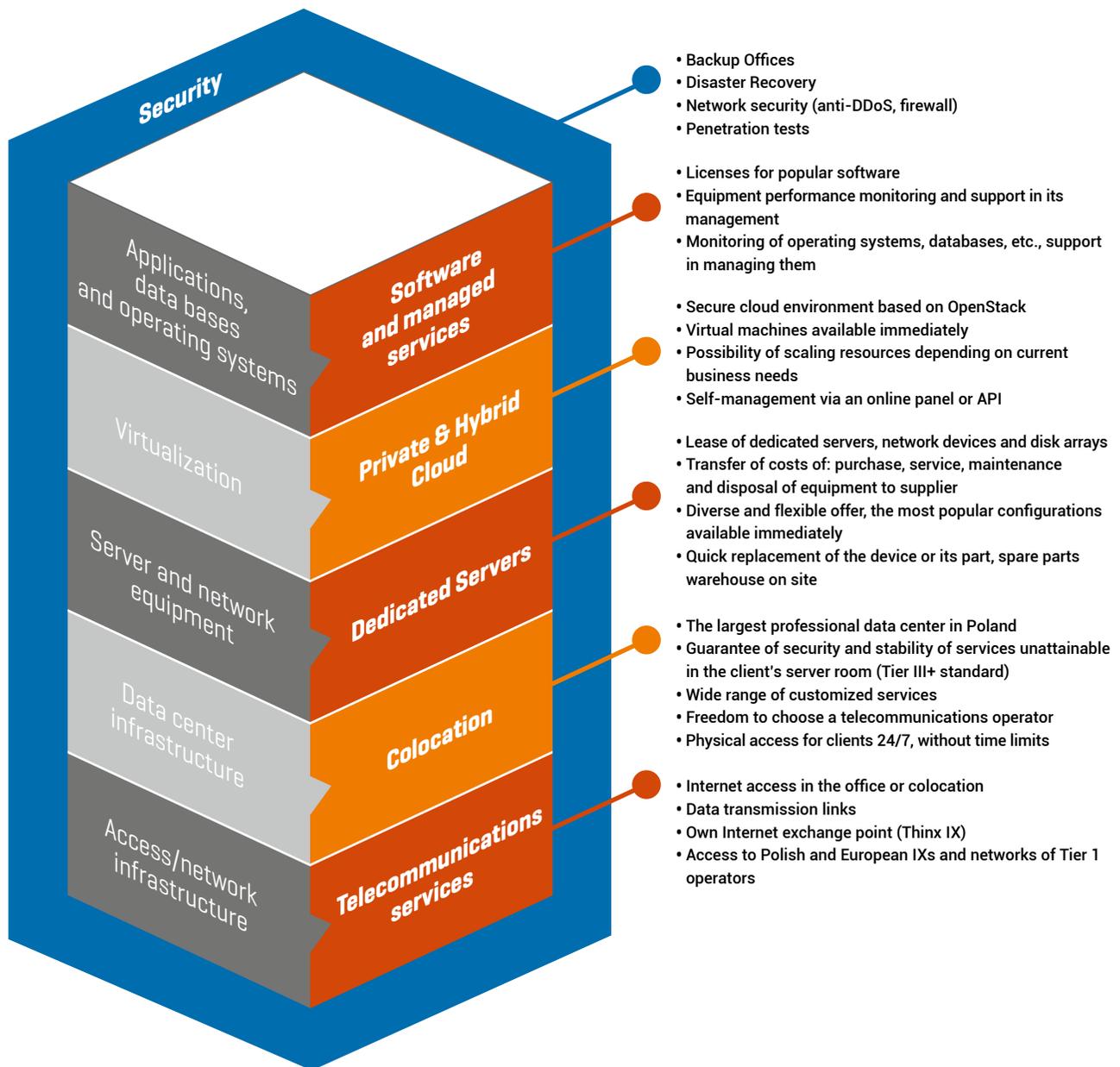
**30 |** Operators available at Atman's carrier neutral data centers

**TIER III+ |** The standard requirements met by Atman data centers



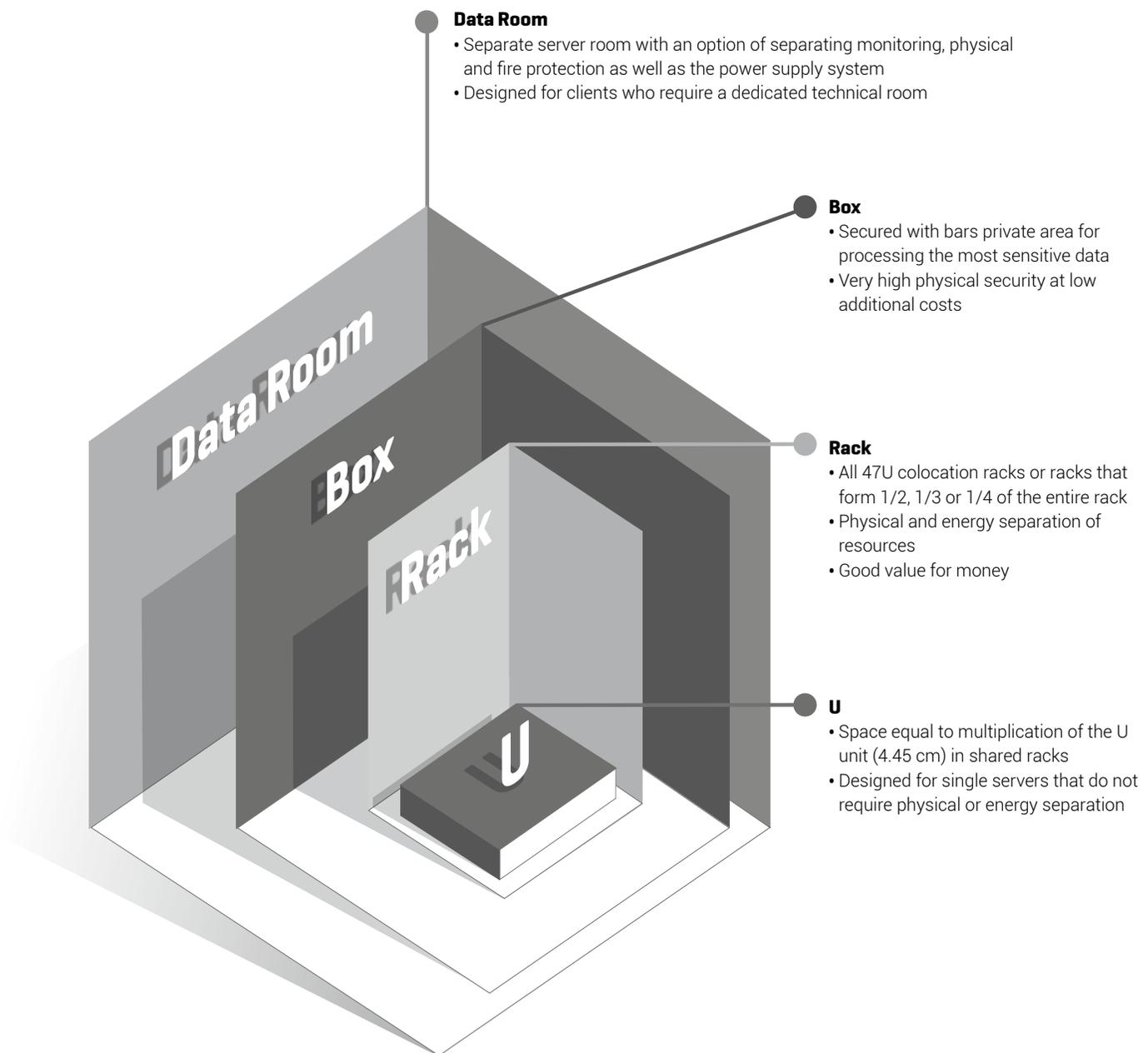
We are the leader of the data center market in Poland and an experienced telecommunications operator providing services to business clients based on own infrastructure. We offer a wide range of colocation and IaaS solutions, including the lease of dedicated servers and cloud computing services, supported with Internet access and high SLA data transmission. We care about the security of our clients' resources by means of such services as efficient anti-DDoS and comprehensive firewall systems, penetration tests and others. Our clients value us for high competences of our technical teams, as well as for exceptional commitment to sales and service.

# Atman's IT Solutions Stack



# Colocation Services

We are the leader in the data center market with the largest data center campus in Poland, which ensures stability of cooperation and virtually unlimited development possibilities. We support our clients' business by offering them high quality and a wide range of services.



Security personnel monitor data centers 24/7, and recordings from the CCTV system are retained for at least 90 days

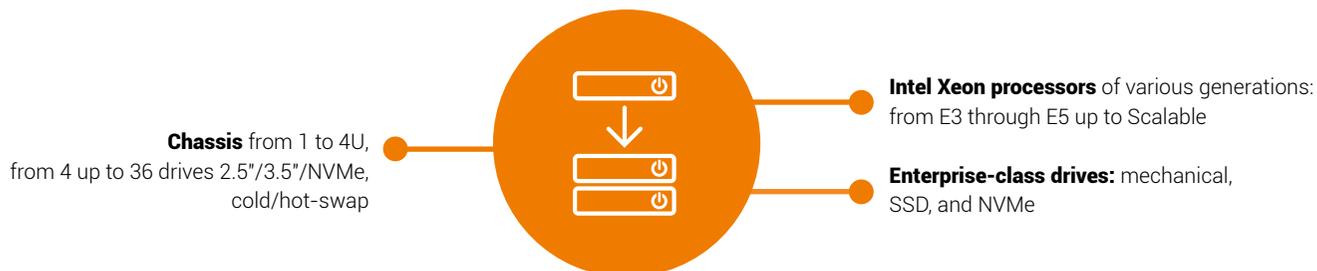
Over 30 telecommunications operators are available in Atman network



# Dedicated Servers & IT Infrastructure

We lease dedicated servers and other IT infrastructure elements, such as switches, firewalls and disc arrays. This service enables our clients to limit investments, costs related to maintenance and development of their own infrastructure, and to resign from costly service contracts.

- **Servers** – choose the needed solution from a dozen or so configurations that are available immediately, or compose a server by selecting from 250 different types of components:



- **Switches** from 1 to 100 Gbps Ethernet
- **Firewalls** – branded Fortinet and Cisco solutions
- **NetApp disk arrays** with different disk configurations

We have 250 different types of components in stock, in total over 4,000 spare parts

We are able to provide more than 200 servers in various configurations within a week

The largest order executed within one day involved 94 servers and other devices



# Private & Hybrid Cloud

Atman Cloud components  
are based on the  
OpenStack solution

The continuous traffic  
generated by IaaS clients  
is over 30 Gbps

One of the elements of our offer is **Atman Cloud**, which is a typical VPC (Virtual Private Cloud) service. Its basic components include:

- **Compute cluster**, i.e. servers which are responsible in the cloud for the computing power (CPU and RAM), on which virtual machines are run. We only use Intel® Xeon® E5 processors with a minimum frequency of 2 GHz.
- **Storage cluster**, i.e. servers that provide disk space. They form a cluster of machines for object storage, providing different levels of performance depending on the selected tier level – storage based on mechanical disks and enterprise-class SSD is available.
- Connectivity, namely an efficient **100 Gbps internal network and 1 Gbps Internet link**. The fully automated **Atman Anti-DDoS** system works on the edge of the network to protect against volumetric attacks.

All computing and storage nodes have a high availability configuration. As a result, Atman Cloud is resistant to a single point of failure and shows very high availability, guaranteed under an SLA (99.97%).

As part of the service, clients are provided with a virtual server room fully equipped with everything they need to effectively manage their IT environment, i.e. the ability to independently create internal networks, demilitarized zones, security groups, firewall rules and routing, as well as load balancing. In addition to a convenient online user panel, Atman Cloud clients get access to the API, thanks to which they can automate their administrative activities.

In contrast to large global players offering highly standardized products, we are able to provide clients with a broader spectrum of network and server services. We also propose modifications of the standard Atman Cloud service in the form of private and hybrid clouds – we efficiently combine into one solution: colocation with client's equipment, dedicated servers, cloud, additionally offering managed services for the client's entire IT infrastructure.

We have chosen ATM S.A. due to positive market opinions about the quality of Atman services as well as a flexible and client-oriented approach to the sales of the company's commercial representatives. We also highly assess the competencies of the Atman technical support departments working with us. Following our to-date cooperation, we may confirm the opinions about high quality of Atman services and reliable, timely implementation. We value smooth business relationships with this provider and recommend Atman services to other companies.

**Sanofi-Aventis**

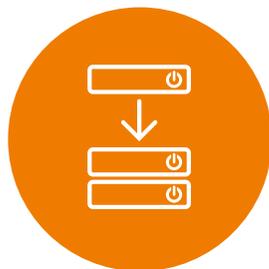
# Flexible Individual Solutions

Upon clients' request we prepare customized solutions. This applies to both of the above-mentioned services separately, as well as to projects which combine various projects architecturally. Examples are given below.



## Colocation

- Unusual power strips or circuits
- Dedicated cameras in a separate box built for the client and other additional security at the client's request
- Individual arrangement of a dedicated server room, equipment and security in accordance with the client's requirements



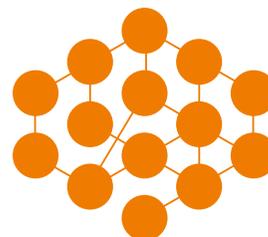
## Dedicated servers

- Servers with highly efficient CPU or GPU
- Storage solutions with large capacity
- Instant response to requests and change of equipment configuration at any time thanks to our spare parts warehouse on premises and qualified technical staff



## Cloud

- The amount of resources used can be dynamically changed depending on current needs
- Using the API or online panel, the client makes changes in the real-time mode
- The possibility of dividing the infrastructure into so-called availability zones, i.e. physically separated rack groups in which compute nodes are located



## Hybrid projects

- Server rooms cluster based on the services of two Atman data centers guaranteeing georedundance – the possibility of using any operating model (active-active, DRC, backup etc.) and any services (e.g. colocation + cloud)
- Using dedicated servers located in the client's colocation rack – full physical control over the equipment without any investment and operating costs



# Comparison of Solutions

	Server room on premises	Colocation of client equipment in Atman DC	Dedicated server	Cloud computing
<b>REAL PROPERTY</b> <ul style="list-style-type: none"> <li>Construction/lease and adaptation/equipment costs</li> <li>24-hour service and infrastructure maintenance</li> </ul>				
<b>SECURITY</b> <ul style="list-style-type: none"> <li>Protection physical and monitoring (CCTV)</li> <li>Fire, flooding protection, etc.</li> </ul>				
<b>COOLING</b> <ul style="list-style-type: none"> <li>Equipment purchase and maintenance equipment</li> <li>Air conditioning redundancy</li> </ul>				
<b>POWER SUPPLY</b> <ul style="list-style-type: none"> <li>Adequate power allocation</li> <li>Redundancy of power lines</li> <li>Emergency power supply (UPS, power generator)</li> <li>Cyclical tests, inspections and maintenance of infrastructure</li> </ul>				
<b>TELECOMMUNICATIONS</b> <ul style="list-style-type: none"> <li>Access links</li> <li>Link redundancy</li> </ul>	 Possibility of purchasing link from Atman, SLA 99.98% if redundant	 a) Redundant link from Atman with SLA 99.98% b) Available links from other operators	 * Redundant link from Atman with SLA 99.98%	 Redundant link from Atman with SLA 99.98%
<b>NETWORK INFRASTRUCTURE (INTERNAL)</b> <ul style="list-style-type: none"> <li>Purchase, service, replacement of equipment</li> <li>Network monitoring</li> <li>Scaling, internal network redundancy</li> </ul>			  **	
<b>SERVER INFRASTRUCTURE</b>				
<ul style="list-style-type: none"> <li>Purchase, service, replacement, disposal of equipment</li> </ul>				
<ul style="list-style-type: none"> <li>Automation of installation and management</li> <li>Network automation</li> </ul>				
<ul style="list-style-type: none"> <li>Equipment monitoring</li> <li>Provisioning automation</li> <li>HA solutions</li> <li>Load Balancer services</li> </ul>				
<ul style="list-style-type: none"> <li>Development of resources</li> </ul>	 Requires investment in equipment, possibly also expansion/reconstruction of the server room	 Requires from the client to invest in equipment, Atman guarantees space availability in DC	 Additional server even in 1 hour	 Immediate, through the client panel
<b>CYBERSECURITY</b> <ul style="list-style-type: none"> <li>Anti-DDoS protection</li> <li>Firewall aaS solutions</li> </ul>	 Possible as an additional service in the case of access link from Atman	 Possible as an additional service in the case of access link from Atman	 ***	

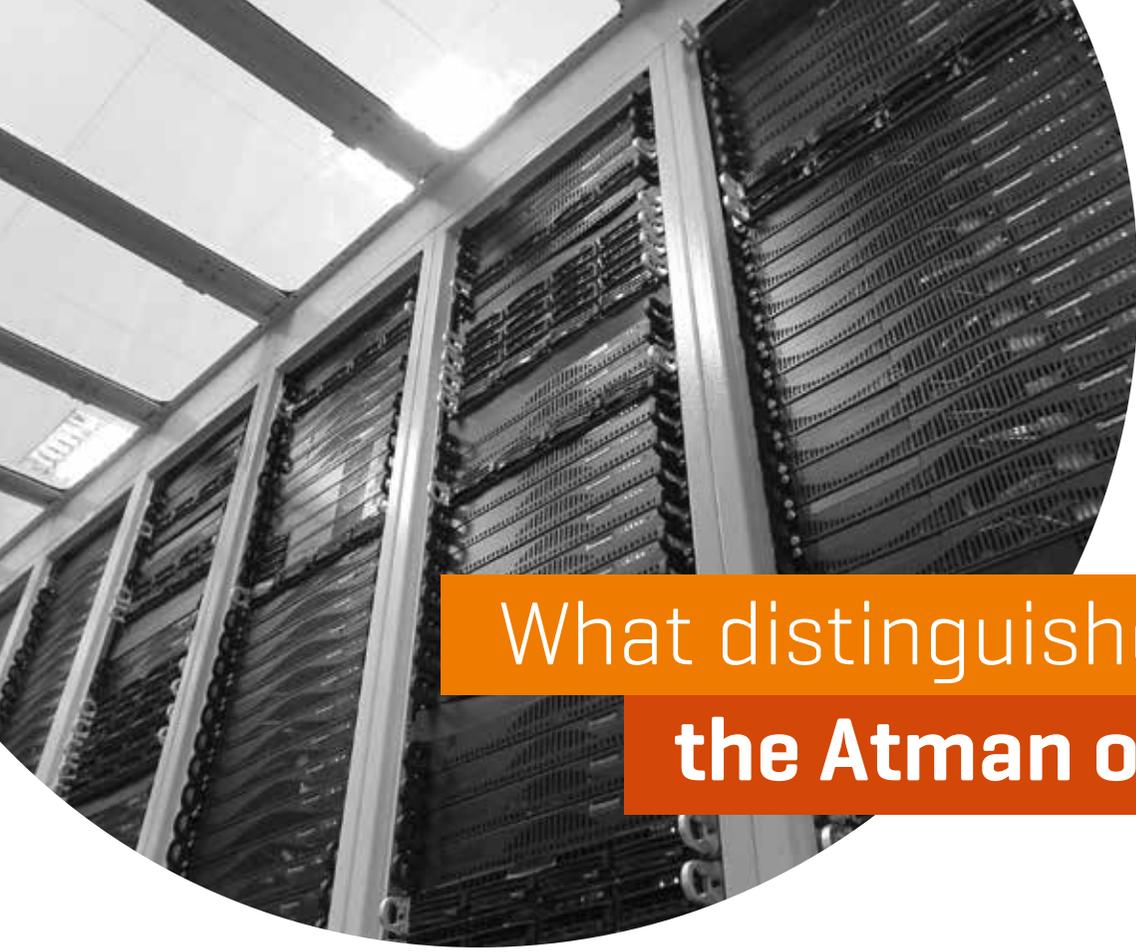
 on the client's side   
  on Atman's side

If a leased server and/or network device is placed in a rack with collocated equipment:

\* Available links from other operators

\*\* On the client's side

\*\*\* Possible as an additional service in the case of access link from Atman



# What distinguishes the Atman offer?

- 1 | Flexibility and potential**

Each of the services offered to clients is characterized by modularity allowing for precise adjustment of services to the client's individual requirements. Due to our vast experience and openness, we are eager to advise on choosing the solution best suited to the client's needs.
- 2 | Excellent connectivity**

Our carrier neutrality means instant availability of several telecommunications operators in the data center. Own Internet exchange point (ThinX) and access to the most significant European Internet exchanges. Direct connections with Tier 1 operators. Own network of long-distance links with a length of 4,500 km.
- 3 | 100% power supply availability**

Independently maintained medium voltage lines for each data center facility (building), UPS farm and regularly tested power generators. SLA for power supply in our data centers is 99.999%, but the real power availability documented in the last 8 years is 100%.
- 4 | Unlimited access**

Our clients can use Atman data center services as if it was their own server room on premises, i.e. without any limits: 24 hours a day, 7 days a week, all year round. Moreover, clients can manage their services online through the client panel.
- 5 | IT cost optimization**

As TCO (total cost of ownership) analysis shows, outsourcing of IT infrastructure in a professional data center allows to save up to half of the capital needed to build and maintain own server room, hardware or virtualized environment. Lease also has an advantage over investing in equipment in terms of the flexibility of the lease period (according to the pay-as-you-go principle) and expansion (pay-as-you-grow).

# Atman data centers

## in a nutshell



- 2 Warsaw-located, Tier III+ compliant data centers, with a total area of over 13,000 m<sup>2</sup>
- 42 kW total power allocation, 2N redundancy power supply, UPS systems and power generators with guaranteed fuel supply
- Carrier neutrality and telecommunications redundancy: availability of over 30 operators
- Air conditioning with N+1 redundancy
- Fire protection with early smoke detection, flood protection system
- Physical access security and CCTV monitoring outside and inside of the facilities – 24/7
- Visits of guests accompanied by the facility's services
- Zone access control systems and intruder alarm systems
- 24/7 control and recording of climatic conditions as well as opening/closing of rack doors, boxes, etc. (SCADA system)
- 24/7 support and Remote Hands

In September 2010, 3GNS and ATM S.A. signed a colocation agreement for the lease of a complete room in a new colocation center in Warsaw at 5 Konstruktorska St. This decision was based on the basic pillars: favorable price, high flexibility of the supplier in terms of occupied space, complete technical infrastructure and exceptional conditions of using the transmission network. Significantly, the location has great potential – the ease of expansion and launching of subsequent rooms is a clear advantage of this facility.

The colocation service determined according to the 3GNS's requirements is implemented using systems operating with multilevel security. The implementation of such solutions results in an exceptional stability of the service.

3GNS sincerely recommends ATM S.A. as a proven partner in the colocation area.



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ATM S.A. is the WSE listed Polish data center market leader as well as an expert in security of data transmission and processing. Under the Atman brand the company provides colocation, hosting and cloud computing services in its data centers with 13,600 sq m [146,400 sq ft] of the total space. Using own international links and fiber-optic networks in the largest Polish cities, Atman offers broadband IP services, including Internet access and data transmission. Major recipients of the services are telecommunications operators, traditional media, Internet portals, financial institutions, commercial and industrial companies. More information at [www.atman.pl](http://www.atman.pl).

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