

# Private Cloud Solutions

## Data Protection to Cloud Object Storage

### Reliable protection against data loss

Data is essential for businesses to run properly. Whether in terms of customer data, sensitive data, business-related data, production data, application data, or media data with copyright, their protection is paramount and their management is subject to regulations.

Recent attacks with ransomware have highlighted the reality of data loss risks and what that means for many companies when they can no longer run their business. Some have experienced business interruptions with revenue impacts, some other lost business data forever. These companies really thought they had safeguard plans in place which revealed to be inadequate as the troubles occurred.

### Our solution

With Private Cloud Solutions, Orange Business Services proposes managed backup and business continuity plans to protect enterprises against this risk.

Backups are validated and automated with round-the-clock service monitoring so they can be easily recovered.


A wide range of technical solutions are proposed depending on customer requirements (stored data, virtual machines, operational databases, etc.), quantity, retention time, destination (local, remote or cloud), partial or complete Recovery Time Objectives (RTOs), tolerable or intolerable Recovery Level Objectives (RLO), and the flexibility of the recovery process.

### Our partnership

Orange Business Services leverages NetApp AltaVault technology certified with Orange Business Services Flexible Engine public Object Storage and with Private Cloud Solutions Object Storage on CenH™

### Our ecosystem

The Data Protection to Cloud Object Storage allows the enterprise to preserve its backup solution which is integrated in the AltaVault gateway to cloud. Orange Business Services leverages backup solutions from the following partners in compatibility with AltaVault



**82%** of enterprises cannot meet their targeted availability SLA

**77%** of enterprises cannot protect their data in a reliable and frequent way

**30%** annual growth of critical business data. Data that will need protection.


### Cost efficiency & scalability benefits

As the quantity of business data grows perpetually, enterprises faces cost and scalability challenges for their storage.

The solution for Data Protection to Cloud Object Storage

- achieves cost reduction: up to 90% compared to traditional backup and storage solution
- enables large scaling, high availability and high durability of data
- offers choice of remote location for the backup whether on Public or Private Object Storage Service

while still enforcing demanding Recovery Time Objectives, and Recovery Level Objectives.

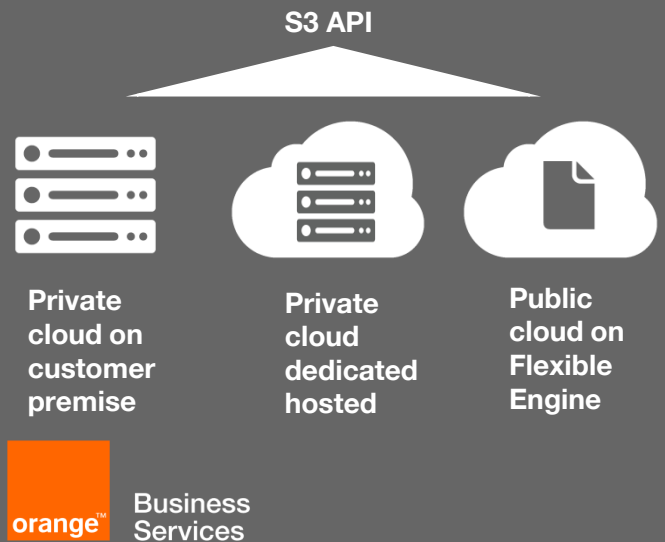



# Data Protection to Cloud Object Storage

## Details of the solution

- An AltaVault appliance is installed on customer premises or on the private cloud premises
- The AltaVault is integrated with the backup solution of choice in less than 30 minutes
- Flexible Engine public Object Store is used in region of choice or a Private Object Store operated by Orange Business Services based on CEPH
- Solution can be extended to other 3<sup>rd</sup> party public cloud object Store (Azure, GCE, AWS)
- Orange Cloud for Business takes care of operating the data protection system 24x7 on behalf of the customer
- High reliability and SLA commitments

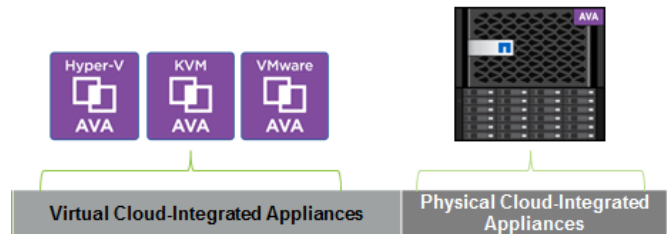
## About OBS Object Storage



## Benefits

- OBS can take End-to-End commitment about the service. Including availability, reliability, data storage privacy, data transfer privacy, recovery and reversibility thanks to full chain control: managed appliance, OBS BVPN networks, OCB Flexible Engine object storage cloud infrastructure service.
- AltaVault appliance is installed on customer or private cloud premises for optimal performance and reliability: in-flight encryption for safety, in-flight compression and deduplication for data transfer acceleration and recovery acceleration, up to 30:1 data-reduction ratio.
- Service possible in multiple regions of choice Europe, Asia, North America (soon), MEA ( soon)

## Both cloud-integrated and physical appliances available



## Solution architecture

