OMNICLOUD
SECURE AND FLEXIBLE USE OF CLOUD STORAGE SERVICES

With OmniCloud companies can use cloud storage services efficiently and securely. OmniCloud encrypts data before it is saved in the cloud and helps minimize its volume. Companies can reduce the amount of cloud storage space by 50% and in doing so save considerably. At the same time, OmniCloud offers a great deal of flexibility and makes it possible to outsource sensitive information, like personal data, in conformity with data protection standards. OmniCloud works like a fileserver in companies’ own networks. The data are transmitted via standard protocols that are directly supported by all major operating systems and applications.

Usability
For users, OmniCloud can be used like a fileserver in their company’s intranet. The difference is, though, that the data can be put in the cloud.

OmniCloud is the ideal solution for creating a back-up and making work within a dynamic team more efficient and secure. In the process, every application can use OmniCloud like a network drive. The software offers a series of features that make using cloud services secure and attractive.

Data Protection and Encryption
OmniCloud encrypts all data locally in the company’s network prior to its transmission into the cloud. The keys remain in the OmniCloud database and are only available to the company – not for the cloud provider. The contents of files as well as file names are encrypted. To ensure no information about the files stored is provided, OmniCloud masks the directory structures and in doing so makes any reference to the files impossible. Since the cryptographic key does not leave the company, third parties do not have any access to the data.

Reducing Storage Costs
When working as a team on a project, files can be saved twice. If this happens more often, such duplicates can take up a lot of storage capacity, creating more costs for the company. OmniCloud recognizes multiple copies of files and saves only one copy in the cloud. Further, OmniCloud compresses the data before it is encrypted. By minimizing the volume of data, OmniCloud also reduces...
the amount of storage space required, and the costs for using the cloud sink. Additionally, everything becomes faster, since files that are already in the cloud no longer involve transmission times. Tests have shown that using OmniCloud in typical application scenarios saves more than 50% of the storage space initially required.

**Reliable Data Availability**

In their terms of use and contract conditions, cloud providers set the modalities for the availability of data. What happens if this availability cannot be ensured is also precisely documented. Usually, part of the fee is refunded. The damage companies suffer as a result of their data being unavailable can be much greater, though. Therefore, OmniCloud uses a RAID mechanism to make sure this data is also available when not all of the clouds are working. Companies can configure OmniCloud so that four services are used simultaneously, and two of those services suffice to still be able to access the data completely.

**Using Market Diversity**

To be able to use the cloud effectively in companies, internal processes must be restructured and adapted to the respective cloud provider. Even services with moderate cancellation policies are a reason for many potential users to decide against using the cloud. A close and long-term connection to one provider can be a deterrent. OmniCloud supports several different cloud storage services. Should a company switch providers, it does not have to change any changes. OmniCloud abstracts the cloud services’ concrete interfaces and makes switching providers simple.

**Technical Data**

- RAM: min. 8 GB
- Hard Drive Space: 100MB + cache storage
- CPU performance: Intel Core i7 quad core processor or similar
- OS: Windows, Linux, FreeBSD
- Further Requirements: Java Runtime Environment (JRE) Version 8, OrientDB 2.1
- Cloud Storage Services Supported: Amazon S3, Dropbox, Box, Google Drive, and Microsoft OneDrive and OpenStack
- The protocols FTP(S) and WebDAV are supported
- Access to OmniCloud via CIFS, FTP(S), REST and web browser

<table>
<thead>
<tr>
<th>Storage space used</th>
<th>with OmniCloud</th>
<th>only compression</th>
<th>only deduplication</th>
<th>without OmniCloud</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>44%</td>
<td>62%</td>
<td>76%</td>
<td>100%</td>
</tr>
<tr>
<td></td>
<td>0%</td>
<td>100%</td>
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**Investments into your future**

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