

e3



**Centraya**

Cloud security without compromise



# Data protection scenarios in the **Cloud**

## No Cloud

### On-Premises

Data security is the foundation of any business. On-premises, companies have full control over their data as long as it is on the in-house servers. Here, encryption of data and emails brings additional security, e.g. against data theft, but this is optional.

## Private Cloud

### Local Cloud Technology

In the private cloud, companies have control over their data, but if they operate their systems in a third-party infrastructure, they run the risk of the provider gaining access to the data. Contracts help to avert the danger. However, only encryption provides the highest level of security against unauthorised access to business information.

## Hybrid Cloud

### Private & Public Cloud

As soon as either the applications or the data at least partially leave the company's own infrastructure, encryption becomes without alternative. If outsiders can manage or even view the data, data protection must be guaranteed. Ideally, business data should be completely encrypted. At the very least, however, anonymisation should be achieved.

## Public Cloud

### SaaS & Hyper Scaler

The public cloud also leaves no doubt about the need to encrypt all sensitive business data. This is because the provider has full control over the infrastructure. This means it also has access to the data - even if the company brochures say the opposite at best. Because US companies are ultimately subject to US law.

## Multi Cloud

### Multiple SaaS

The most challenging scenario for any data protectionist is multiple cloud solutions or environments that also exchange data with each other. Here (also) applies: Encryption is an absolute must! No single cloud provider is allowed to view unencrypted data, no matter what security promises they make.



## Encryption: from on-premises to multi-cloud

Contacts  
Recently Viewed

2 items • Updated a few seconds ago

<input type="checkbox"/>	Name	Account Name	Accou...	Phone	Email
1	<input type="checkbox"/> Lazy Loony	TheUltimateAccount	Zurich	+41 79 222 23 11	l.l@fhr.ch
2	<input type="checkbox"/> Demo Public	TheUltimateAccount	Zurich		ctschirky@e3.eu

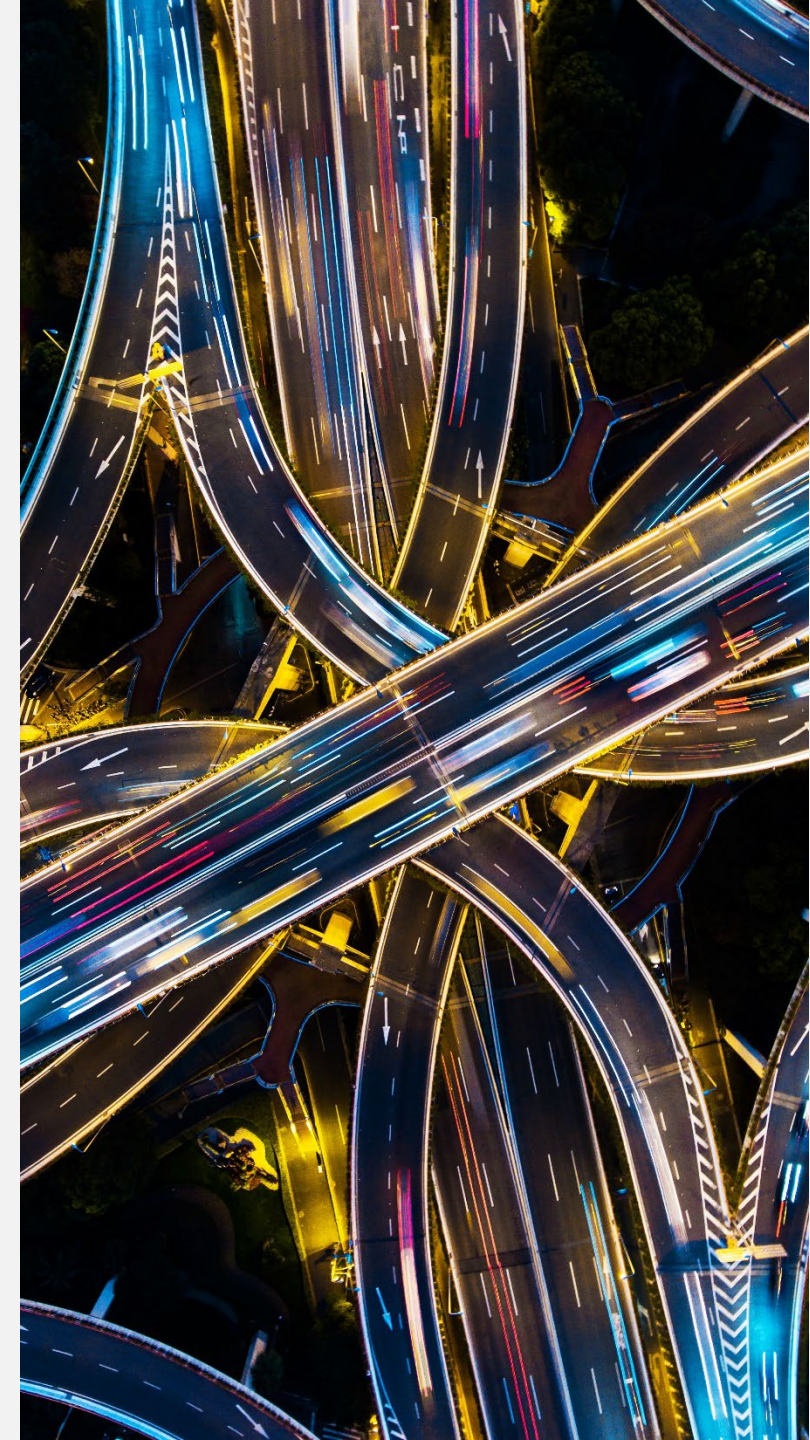
Contacts  
Recently Viewed

2 items • Updated a few seconds ago

<input type="checkbox"/>	Name	Account Name	Accou...	Phone	Email
1	<input type="checkbox"/> °¿f°CEAtC¿° °¿f°CEdQTN¿°	°¿f°ÁÑëW9ÿiüöç UóóYáqhW...	Zurich	°¿f°ÓC7ÇCiEçpÜ ÍcDìj7...	css_email32.g--qgk4qxnobpo...
2	<input type="checkbox"/> °¿f°KSóŽ¿° °¿f°SfgÇrò¿°	°¿f°ÁÑëW9ÿiüöç UóóYáqhW...	Zurich		css_email32.g--42zm2xqg7ip...




**Centraya** offers field-based encryption. This enables the data protection-compliant and secure use of cloud solutions without sacrificing functionality.

encrypts data on-premises, in the private, hybrid, public and multi-cloud. With a single application, your data is ready for any possible cloud scenarios of the future. With security.





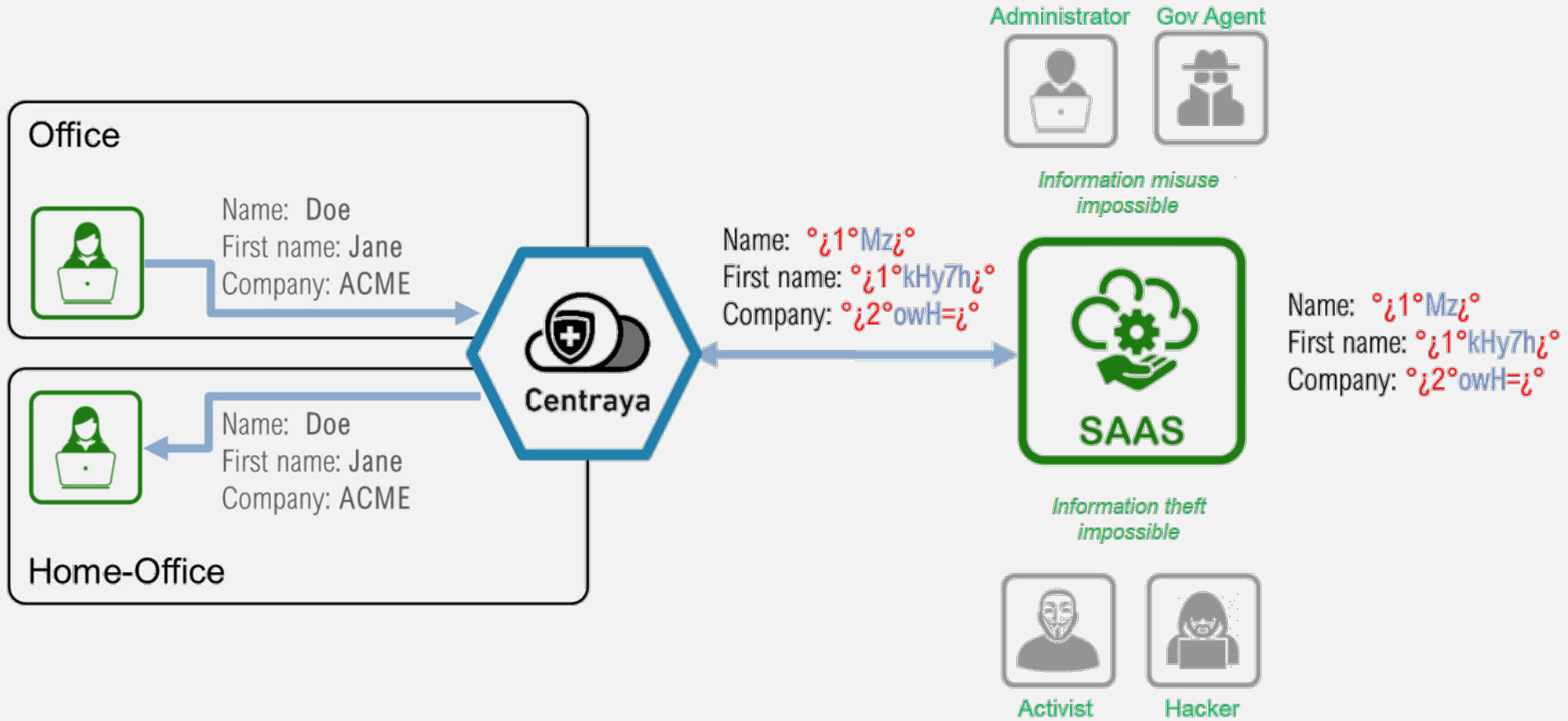
## Centraya: Key control and encryption

	<b>Key</b> 	<b>Mechanism</b> 	<b>Location</b> 
Encryption management: Owner of the key and the Encryption	Who controls the key?	Who defines or implements the mechanism?	Who controls the location of the encryption?
<b>Provider Key</b>	No control	No control	No control
<b>Provider Managed Key</b>	No control	No control	No control
<b>Bring your own Key</b>	Partial control	No control	No control
<b>Hold your own Key</b>	Full control	No control	No control
<b>Local Encryption</b>	Full control	No control	Full control
<b>Bring your own Encryption</b>	Full control	Full control	Full control

**Centraya** the user controls the keys, the encryption and the location of the encryption itself.

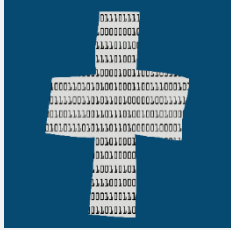


# Centraya = "bring your own encryption".



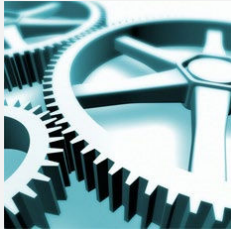


## Centraya: ultimate protection for your business data



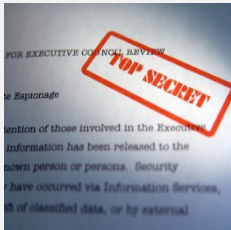
### Swiss data protection

Data encrypted by **Centraya** is safe from unauthorised access. Companies that process personal data can ensure that legal requirements are met.



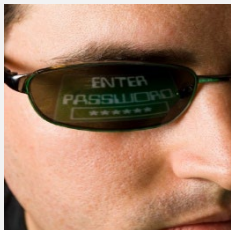
### Compliance and regulation

The regulations of supervisory authorities such as FINMA, EBA, CFTC etc. with regard to the processing and storage of business data can be met. **Centraya** ensures that compliance and regulatory requirements are met at all times, regardless of where the data is stored.



### IP and trade secrets

Your own developments and data on prototypes must not fall into the wrong hands? Then secure the documents and information by encrypting the data with **Centraya**. From now on, you no longer need separate networks and systems to ensure confidentiality.



### Ransomware and hackers

Malicious hacker and ransomware attacks are useless on encrypted data. An attacker would still have to crack **Centraya** to be able to steal the encoded content for criminal purposes. Due to the algorithms defined according to the strictest industry standards, the data is and remains protected.





stands for IT security - for over 20 years. Our strength is future-proof software solutions to protect against cyber attacks and data loss. We make companies fit for the digital transformation and help them to protect and manage their data based on the applicable regulations.

realising forward-looking business models by creating opportunities and reducing risks. In all of this, we always keep an eye on social and technical developments so that our solutions are also prepared for the challenges of tomorrow.

To this end, we support companies in

**e3 AG Switzerland -  
Zurich**

Binzstrasse 24  
CH-8045 Zurich

[" engage@e3ag.ch](mailto:engage@e3ag.ch)  
" +41 44 400 46 56

**e3 AG Switzerland - Bern**

Falkenplatz 3  
CH-3012 Bern

[" engage@e3ag.ch](mailto:engage@e3ag.ch)  
" +41 31 305 46 56

**International locations:**

- » Brazil
- » Germany
- » Netherlands



[e3ag.ch](https://e3ag.ch)



[LinkedIn](#)

