

## SafeSpace

Integrate Anonymous Data Sharing  
into Your Digital Services

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it-sa 2022  
October 25, 2022





## Company

- **Austrian cybersecurity start-up** specialized in advanced cryptography, founded in 2018 and received seed funding from Federal Ministry and aws (Austria Wirtschaftsservice), as well as research funding from FFG (Forschungsförderungsgesellschaft)
- **Our product *SafeSpace*** protects data stored and shared via untrusted environments like the public cloud. Our technology ensures anonymity of users and provides data owners with full control over the access permissions to their data.

## Drivers

**Our vision:** A safe space for sensitive data in the public cloud.

**Our mission:** To protect data and user privacy.

**Unique selling propositions:**

- adaptable for a variety of data structures
- encryption combined with anonymous access
- support for several cloud infrastructures / providers

## Strengths

- **Innovative technology** secured by patent.
- **Experienced management**, enthusiastic team of experts
- **Excellent network** of C-level contacts in international companies.

## Opportunities

**Ongoing adoption and lasting vulnerability of cloud services:**

- Enterprises strive to migrate data and applications to the cloud
- Legislators require them to ensure privacy and data protection
- They cannot trust cloud service providers to protect their users
- Consumers develop awareness of security threats and demand protection of their data and privacy

*„It's time to stand up for the right to privacy — yours, mine, all of ours.“<sup>2</sup>*



“

## *You Deserve Privacy Online<sup>2</sup>*

*... privacy is "one of the top issues of the century" and it's important to put "deep thinking" into that to figure out how to "leave something for the next-generation that is a lot better than the current situation".<sup>1</sup>*

“

Tim Cook - CEO of Apple

<sup>1</sup> <https://appleinsider.com/articles/21/01/29/tim-cook-says-privacy-one-of-the-top-issues-of-the-century>, May/2022

<sup>2</sup> <https://time.com/collection/davos-2019/5502591/tim-cook-data-privacy/>, May/2022

# What is privacy?



“

*Privacy is the state of not being observed or **disturbed** by others.*<sup>1</sup>

“

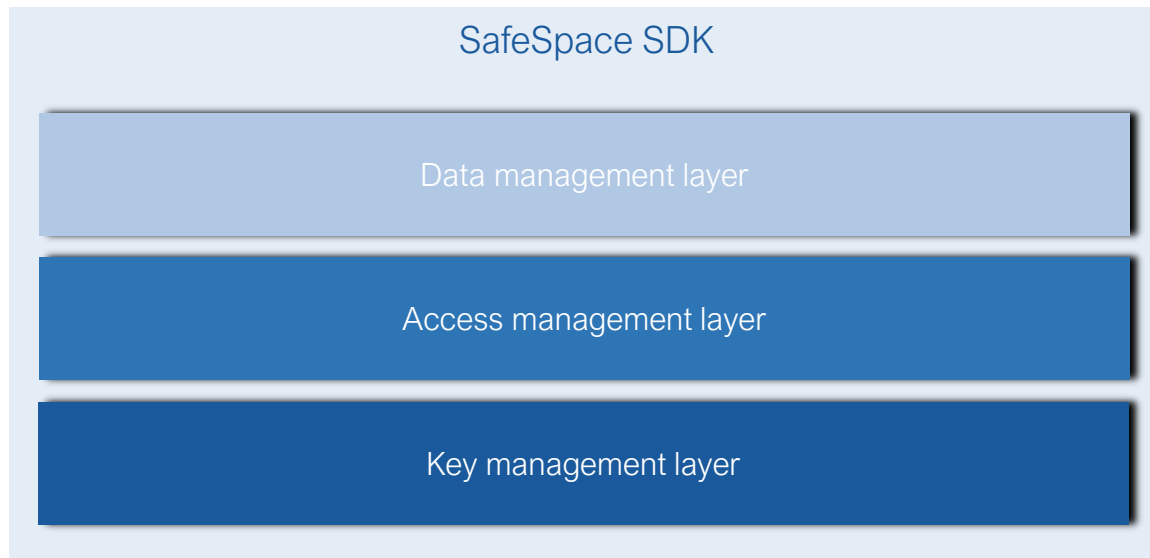
Privacy



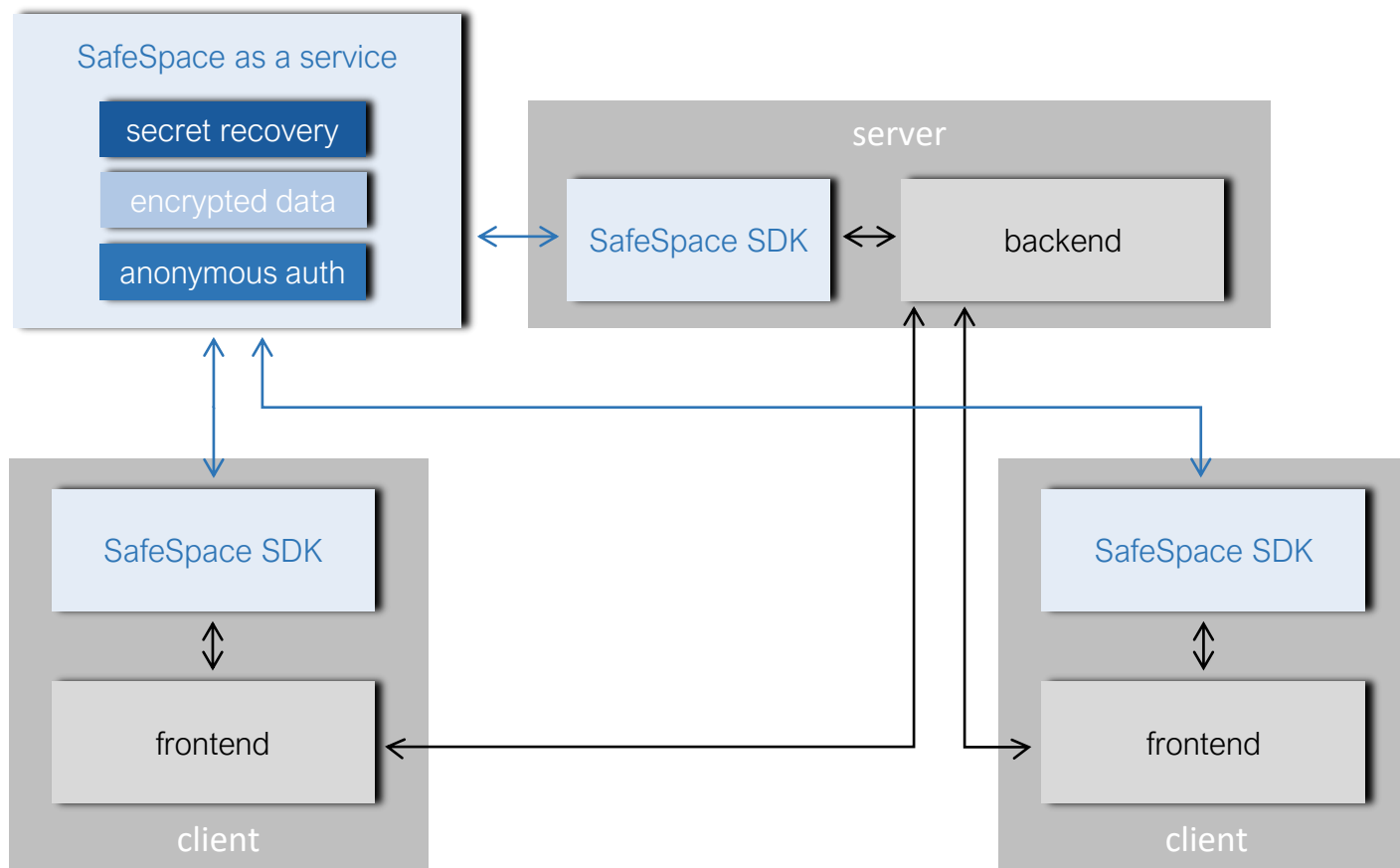
<sup>1</sup> <https://www.oxfordlearnersdictionaries.com/definition/english/privacy?q=privacy>, May/2022



- structure obfuscation
- end-to-end encryption
- anonymous credentials
- decentralized access mgmt
- verifiable secret sharing
- trusted execution environment



# SafeSpace CORE



# SafeSpace SHARE



Anonymous & E2E encrypted



E2E encrypted



Insecure



Google Drive





**SafeSpace CORE** for integration into third-party solutions.



**SafeSpace SHARE** for secure file transfer and sharing.



Future products based on common core components.

**SafeSpace** is universally applicable to protect data from unauthorized access and prevent analysis of user activity. Modern cryptography enables anonymity of users, obfuscation of relationships as well as decentralized permission management.





- Online platform & service providers
- Software vendors as integration partners
- System integrators as channel partners
- Cloud providers as hosting partners



- PATENT PENDING: <https://patents.justia.com/patent/20210141921>

## Method for Generating Metadata-Free Trees

A method for storing hierarchical data protected by access data in an untrustworthy environment, wherein unique identification values of child nodes of at least one associated tree are determined for the data and are stored together with the data. The root node entry point is calculated based on the access data by means of a predeterminable calculation function in a volatile way, and the root node entry point represents a secret node entry point from which the identification value of a root node of the tree is subsequently calculated. The root node represents one of the child nodes in this tree, as a child node generation step is applied to generate the identification values of the child nodes based on one of the secret node entry points. A child node numbering set contains at least as many different elements as the number of child nodes to be generated is created or used.



# Public Sponsors



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funded by seed financing  
of BMDW respectively BMK,  
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Innovation and Technology



## DATA EXCHANGE WITH PREMIUM PROTECTION



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