



MIMOS Infrastructure Security Platform (Mi-Scramble)

The success of a social science research enterprise relies on the ability to assure research participants of low to non-existent disclosure risk. As more datasets have become available online, concerns about disclosure risk have grown. With MIMOS Mi-Scramble, organisations can reliably protect confidential personal information without compromising the data used for research.

Overview

MIMOS Mi-Scramble is an infrastructure security platform that creates a secure system with a complete framework to protect the confidentiality of personal information when processed by a third party. It also provides a secure infrastructure via network connection and information security technology such as single sign-on and encryption module.

Features

Mi-Scramble comprises the following features:

■ Authentication Mechanism

All data processes are authenticated to ensure maximum data protection.

■ Secure Data Encryption

Encryption keys are generated from a virtual Trusted Platform Module and the process is enhanced with GPGPU-based encryption services. Mi-Scramble also supports multiple data fields encryption processing.

■ Dedicated Dashboards

All data processes are easily accessible via dedicated dashboards.

Technology Benefits

The main impacts of Mi-Scramble are:

■ Minimum Disclosure Risk

Mi-Scramble allows focus on important data for research while retaining the highest protection for participants' personal information.

■ Increased Productivity

Enhanced encryption from GPGPU helps drive productivity through faster processes thus saving organisations time and manpower.

■ Scalable and Centralised Management

A scalable and centralised management system allows easy deployment, administration, and access to Mi-Scramble anywhere and anytime.

Technology Summary

Mi-Scramble

A secure system with a complete framework to protect the confidentiality of personal information when processed by third parties. It also provides a secure interface using a normal web browser as client.

Industries: Enterprise, Government

Features

- Authentication mechanism
- Secure data encryption
- Dedicated dashboards

Technology Benefits

- Minimum disclosure risk
- Increased productivity
- Scalable and centralised management



MIMOS Mi-Scramble system architecture

System Requirements

Mi-Scramble	
Minimum Hardware Requirements	
Processor	X86-64 Dual-Core Processor
Memory	4GB RAM
Disk Storage	30GB
Other (optional)	Infineon SLB 9635
Minimum Software Requirements	
Operating System	GNU/Linux
Application Platform	PHP 5
Application Server	Apache Web Server 2.2
Database	PostgreSQL 9

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