MAKE IN INDIA

Q→N U

Quantum Secure Messenger

World's first Quantum Secured

Messaging Application

SECRET *Forward Secrecy*
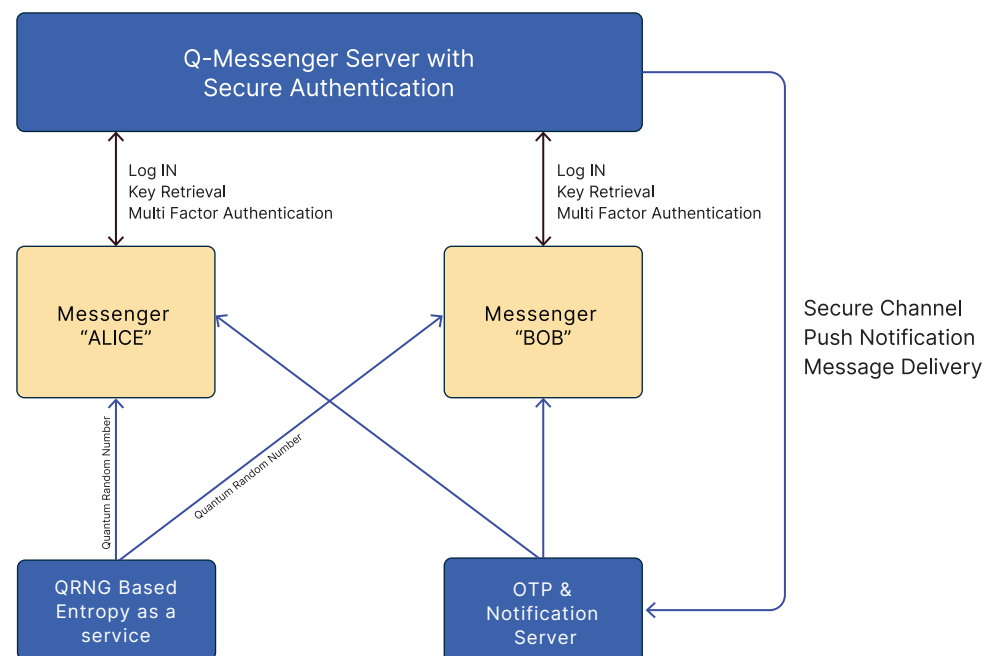
Complete Confidentiality

Utmost Privacy

── INTRODUCTION

The world's first, true, end-to-end quantum secured encryption messaging solution that guarantees that only the two communicating parties have the knowhow to decipher the contents of the communications between them. Now communicate with confidence, in complete privacy and with zero trust in all intermediaries i.e. the telco providers, the servers, or the systems used that enable messaging in today's world. End-to-end encryption solutions allow users to communicate securely across international boundaries and even in hostile security environments.

QNu Labs has developed a Quantum Secure Messaging Application for enterprises that uses quantum-secure cryptographic primitives while maintaining the ease of use and highest security properties for messaging. Additionally, it provides forward security against quantum adversaries.

── PRODUCT ARCHITECTURE

Q-Messenger Server with Secure Authentication

Log IN
Key Retrieval
Multi Factor Authentication

Log IN
Key Retrieval
Multi Factor Authentication

Messenger "ALICE"

Messenger "BOB"

Secure Channel
Push Notification
Message Delivery

Quantum Random Number

Quantum Random Number

QRNG Based Entropy as a service

OTP & Notification Server

___ PRODUCT FEATURES

TRUE END-TO-END QUANTUM ENCRYPTION

Messages shared between the communicating parties are not accessible by any intermediaries (systems, servers, infra) or by the developers/administrators of the system.

QUANTUM ENHANCED ENCRYPTION

Communication is secured by high-end security provided by the post Quantum Cryptographic Protocols, using the Quantum Random Numbers generation process, to ensure unbreakable Quantum Security.

ENCRYPTED GROUP CHAT

Post Quantum Cryptography enhanced encrypted sessions unique for each group.

ENABLED FORWARD SECURITY

Using quantum-keys, the conversation is encrypted at the highest level of security.

DISABLE HISTORY

A user configurable auto-deletion of the information, which ensures no information leakage after use.

TWO-STAGE AUTHENTICATION

Two-step authentication from the user and the server ensures the authenticity of the communication parties.

ACCESS LOGIN CREDENTIALS

Users need a unique access credential to log in to the application to start communication.

AUTO-SESSION TIME-OUT

After a user configured Inactivity time, the login expires requiring the users to re-login using their credentials.

QUANTUM-SECURED HD QUALITY VOICE

Audio Calls use a quantum secured channel so that users can enjoy Secure High-Definition audio calls that are completely private.

QUANTUM-SECURED VIDEO CALLING

Quantum secured channels ensure that users can engage in Secure HD video calls that are completely private.

SECURITY ALERT

In case of an unauthorized access attempt to the user's account from unregistered device, the user will receive security threat notifications via application indicating the model of the device used for unauthorized access. This feature provides a high level of account security.

CONFERENCE CALLING

Quantum secured channel ensures all group calls are secured with complete privacy

NO GEO TRACKING

This application never tracks the location of users, so no one can cyber stalk or track their whereabouts

TECH SUPPORT

Support from QNu's tech team is available whenever you need it.

___ USER BENEFITS

— Secure quantum end-to-end encryption for single and group chats

— Secure file transfer

— Messages and media files shared confidentially

— Completely private voice and video calls

___ SPECIFICATIONS

COMPONENTS	DESCRIPTION
MOBILE PHONE	
Operating System (OS)	Android 10 and up ↑
Memory	4 GB RAM
Storage	8 GB Internal Storage
ON-PREM SERVER	
Operating System (OS)	Ubuntu 18 or higher ↑
Memory	8 GB RAM (Minimum)
Storage	500 GB (Minimum)
Ethernet Port	Gigabit or higher ↑
QOSMOS SERVICE	
Active License	

Q→NU

qnulabs.com

---

qnulabs.com/schedule-a-demo/