



# Technical Research References

## Conceptual and Independent Research Overview

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**Document Type:**

Informational Research Appendix

**Purpose:**

This document provides references to independent research initiatives that conceptually explore advanced authorization and security models.

**Scope:** Research awareness only – no operational, financial, or transactional functionality.

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**Referenced Research Initiative:** (Patent-pending, independent research)

LIPAS – Liveness-based Personalized Authorization System

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**Official Research Link:** <https://lipas-research.vercel.app/>

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**Disclaimer:** This document does not constitute a product description, integration plan, or commitment of future functionality within the QUNET ecosystem.

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# **QUNET – Technical Research References**

## **Conceptual and Independent Research Overview**

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### **1. Purpose of This Document**

This document provides references to independent research initiatives that conceptually explore advanced authorization, security, and identity verification models.

The purpose of this document is informational only.

The referenced research initiatives are not integrated, not operational components, and not dependencies of the QUNET ecosystem.

This document does not introduce any financial product, token functionality, transaction mechanism, or payment authorization process.

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### **2. Research Context**

Modern digital systems increasingly require authorization mechanisms that are resistant to transfer, duplication, coercion, and unauthorized use.

As part of long-term research awareness, QUNET acknowledges independent conceptual work exploring biologically bound authorization approaches.

These research efforts are cited solely to illustrate emerging ideas in the broader security and authorization landscape.

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### **3. Referenced Research Initiative: LIPAS**

One such independent research initiative is:

## **LIPAS – Liveness-based Personalized Authorization System**

LIPAS is a patent-pending, independent research project that investigates authorization concepts based on biological liveness and personalized physiological conditions.

The research focuses on theoretical models in which authorization may depend on:

- verification of biological liveness,
- evaluation of physiological signal patterns,
- optional consideration of genetic markers for identity confirmation,
- resistance to transfer, duplication, or external manipulation.

LIPAS is designed as a conceptual and research-oriented framework and does not represent a deployed product or service.

Public research information related to LIPAS is available at:

<https://lipas-research.vercel.app/>

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## **4. Explicit Non-Integration Statement**

LIPAS is not:

- an operational component of QUNET,
- a payment authorization mechanism,
- a transaction validation system,
- a cryptographic key management service,
- a financial service, product, or protocol.

No part of the QUNET ecosystem currently relies on, integrates with, or depends upon LIPAS for functionality.

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Any reference to LIPAS is provided strictly for research awareness and conceptual exploration purposes.

## **5. Legal and Informational Disclaimer**

This document does not constitute an offer, solicitation, or representation of future product features.

References to independent research initiatives do not imply endorsement, partnership, implementation, or roadmap commitment.

All technical descriptions are conceptual in nature and are subject to independent research development paths.