

Unified Identification Protocol (UIP) for Cross-border Healthcare

Slide 1: Personal Introduction and Context

Hello everyone, and thank you for being here today. My name is Fernando Latorre, and over the last 8 years, I have dedicated my career to addressing the pressing issue of technological and border barriers in healthcare. My goal has been to enable a unified and cross-border identity for patients, healthcare services, and medical professionals. I serve as the Vice President of UNID Foundation, and I'm also the Chief Technology Officer at two small companies I co-founded with my wife, ConnectHealth and Connectech, located in Europe and North America.

Over these years, we have innovated and patented various solutions for the unified registration and identification of digital identities, as well as clinical and legal documents within the healthcare sector. Today, I am excited to talk to you about one of our patented innovations, the Unified Identification Protocol in Training and Health, or UIP for short, which we are currently developing and testing within the UNID Network.

Slide 2: Cross-Border Healthcare and UIP Context

The Unified Identification Protocol is a pioneering solution for cross-border healthcare. It addresses the previously unsolved challenge of securely identifying individuals and medical professionals across borders, and it facilitates the secure transmission and reception of health data in real time using international standards and encrypted data.

The introduction of a unified health identifier through this protocol represents a groundbreaking innovation, eliminating barriers to effective and efficient healthcare delivery. It bridges the gaps between diverse healthcare systems and regions, ensuring that patients, regardless of their location, can be globally identified and can securely access and share their health data. Moreover, this protocol enables the online verification of credentials for patients, legal guardians, healthcare services, and medical professionals, all facilitated through a unified health identifier. This represents a major leap forward towards a more interconnected and reliable healthcare ecosystem.

Slide 3: UIP: Bridging Territories and Organizations

The Unified Identification Protocol represents not just a technological advancement, but a paradigm shift in how we approach healthcare across borders. By creating a seamless bridge across territories and organizations, it transforms the landscape of telehealth, enabling a unified digital identity for both emergencies and regular healthcare services. This is pivotal, especially for patients requiring immediate attention, whether in person or virtually, as it ensures their health data is readily available and verifiable, regardless of their location.

To help visualize this, consider the following analogy: Just as you can locate someone's phone number in a database using a known identifier for sending a SMS, this protocol enables the secure transmission of encrypted health data directly to a personal or professional digital identity, located using a known identifier linked to the digital identity and registered in the UNID Network, ensuring accurate delivery to the intended person or entity. In this manner, the protocol ensures that healthcare data is both accessible and secure, thereby breaking down barriers and building trust in cross-border healthcare.

Slide 4: Data Control and Security

Empowering patients to take control of their health data lies at the heart of this protocol. It empowers individuals to determine who can access their data, and under what conditions. The integration of blockchain technology fortifies this system, adding an additional layer of security and providing a robust solution for seamless identity verification. This advancement not only strengthens the security of patient data but also addresses the longstanding challenge of ensuring data integrity and trust within the healthcare sector.

With this protocol, we are setting a new standard for patient data security. Specialists can request access to patient data, while users maintain control, granting permissions based on predefined rules and consents they have established. This ensures that personal health information is always protected, and encrypted data is only shared when it matches the patient's terms. The integration of this protocol in cross-border healthcare marks a monumental step forward, representing a significant milestone in our journey toward a more integrated, secure, and patient-centric healthcare system.

Slide 5: International Patient Summary and UIP Benefits

The International Patient Summary (or IPS) plays a crucial role in cross-border healthcare, serving as a standardized document that encapsulates a summary of a patient's health data. The Unified Identification Protocol significantly amplifies its utility. To illustrate this with a real-life scenario, imagine Maria, who resides in a remote area and is caring for her son David, a patient with a rare medical condition. By integrating this protocol, Maria becomes a secure hub for David's medical data. She receives encrypted health information about David on her phone, which is linked to her unified identifier as well as to other identifiers within the UNID Network.

As the mother integrates the newly received data into the IPS document, she can securely manage and share David's medical history with ease. Healthcare professionals from around the globe can request access during physical or virtual consultations, but only those verified and approved by Maria will be granted access to specific data about David.

Furthermore, Maria contributes to research studies and offers hope to other patients by creating an anonymized digital twin of David. In this way, there are no barriers and patients like Maria and David genuinely benefit from technological advancements.

Slide 6: UIP: Identity Verification and Evidence Registration

Identity verification plays a pivotal role. The UNID Foundation takes on the critical responsibility of verifying the identity of organizations within the UNID Network. Subsequently, each organization is tasked with registering the data of their departments, health services, and employees, including details such as web addresses, professional roles, phone numbers, and email addresses, all in the spirit of maintaining transparency.

Patients, or their legal guardians, independently create their own identities and cryptographic information in a decentralized manner. In this capacity, they act as hubs of health data, holding the authority to approve access to their health data and ensuring the secure and encrypted transmission of this data exclusively to approved recipients. The Unified Identification Protocol facilitates the integration of various identifiers, such as passports, driver's licenses, residence permits, medical licenses, and more, all of which can be linked back to the unified health identifier. The evidence of these identities is then securely registered on the blockchain network by organizations and their employees, creating an interconnected system that ensures robust identity verification.

Slide 7: UIP and Blockchain Integration

The integration of blockchain technology in the Unified Identification Protocol ensures unparalleled transparency and security in data sharing. Users define their own rules for data access, while the blockchain acts as a protective shield. It certifies employee roles and professional qualifications, permissions granted, clinical and legal documents generated, insurance coverages, and more. This integration enables the secure verification of digital identities, consents, documents and insurance. It ensures that every aspect of health data management and identity verification is secure, transparent, and under the user's control.

Slide 8: Benefits of UIP

The Unified Identification Protocol brings a plethora of benefits to cross-border telehealth. It fortifies security and streamlines verification processes through Unified Identifiers, empowering patients like never before. The unprecedented control over digital data ensures that patients are no longer passive participants but active controllers of their health information. This empowerment is crucial, especially in telehealth scenarios, where seamless and secure access to health data can significantly impact patient care and outcomes.

Slide 9: Diminishing Barriers in Cross-Border Healthcare

The Unified Identification protocol is a game-changer. It ensures health data access through Unified Identifiers, improving trust in cross-border telehealth. Data security is paramount, and with this protocol, consents and identity verification are secure, with encrypted

messages being sent only to approved recipients. This revolutionizes telehealth, making it more secure, efficient, and patient-centric.

Slide 10: Contact and Thanks

For any inquiries or further information, feel free to contact us. We are excited about the potential of this protocol to transform cross-border healthcare and are looking forward to making a positive impact in the lives of patients worldwide.

Thank you.