ENTRUST

ENsuring Secure and Safe CMD Design with Zero TRUST Principles

ENTRUST Newsletter
Issue 2 | November 2023

ENTRUST is up & running!

In this newsletter, you'll find a rich blend of content that delves into the heart of our mission. We're excited to share news about our recent **invitation to the ENTRUST Advisory Board**, a testament to the growing recognition of our project's impact and potential. Our participation in **PQCrypto 2023** highlights our groundbreaking advancements.

Additionally, our blog posts explore key areas of our research and innovation. **"ENTRUST and Digital Twins: Navigating Security Challenges in Digital Twins"** explores the critical role of security in the world of digital twins. **"Trust-aware Authentication and Authorization Cryptographic Solutions"** delves into our innovative approaches to safeguard trust in authentication and authorization processes. Lastly, don't miss **"ENTRUST Manufacturer Usage Description (MUD) Protection Profiles"** providing valuable insights into protecting connected devices and networks.
Join us on this journey through the realms of security, innovation, and cutting-edge technology.

ENTRUST Latest News

ENTRUST Advisory Board Invitation

ENTRUST is excited to announce a public call for experts to join its Advisory Board, which will provide scientific, technology, and innovation consultation to our research. Overall, aligned with the guidelines of the EU Cybersecurity Act and the existing guidance on cybersecurity for medical devices, ENTRUST envisions a Trust Management Architecture intended to dynamically and holistically manage the lifecycle of connected medical devices, strengthening trust and privacy in the entire medical ecosystem

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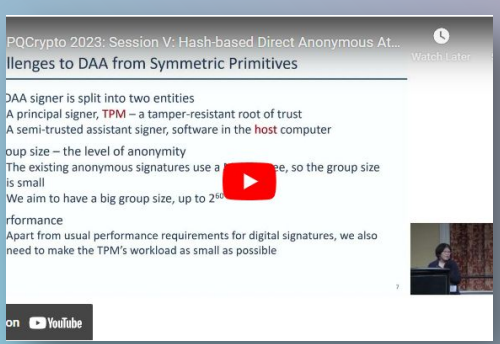
ENTRUST @ PQCrypto 2023

ENTRUST, through its partner SURREY, participated in the PQCrypto 2023, the 14th International Conference on Post-Quantum Cryptography. We introduced a pioneering post-quantum Direct Anonymous Attestation (DAA) scheme. Unlike traditional DAA methods vulnerable to quantum attacks, this innovation leverages symmetric primitives, ensuring security and scalability for the growing TPM applications.



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ENTRUST BLOG POSTS

ENTRUST and Digital Twins: Navigating Security Challenges in Digital Twins

The ENTRUST project aims to enhance trust management in medical devices to protect against cybersecurity threats. Digital twins play a crucial role, simulating interconnected device behavior, particularly in attack scenarios. However, it's vital to recognize that digital twins may have security vulnerabilities. This blog offers a brief insight into these challenges and proposes scientifically sound solutions..

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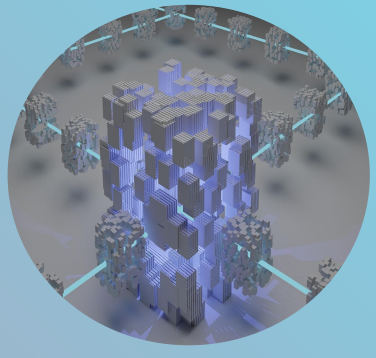
Trust-aware Authentication and Authorization Cryptographic Solutions

In recent years, technological advancements have reshaped our world, particularly through medical devices (MDs) that revolutionize patient care. The digital transformation in healthcare introduces high-tech MDs facilitating bi-directional communication, remote access, and data analysis. While enhancing patient care and scientific knowledge, it poses security challenges.

Learn More



ENTRUST Manufacturer Usage Description (MUD) Protection Profiles

In the IoT era, securing connected devices is vital. MUD (Manufacturer Usage Description), an IETF-defined software standard, helps IoT manufacturers communicate device behavior on networks. This blog delves into MUD profiles, their users, and their role in the ENTRUST project's mission.

Learn More

ENTRUST and Threat Modeling: Understanding Risks Using Threat Modelling

ENTRUST focuses on securing Connected Medical Devices (CMDs). Understanding threats and risks is essential. This blog explains threat modeling's role in developing defense strategies against cyber threats.

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Project Started: January 2023
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