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MOOC Security Part 6:

STM32 security ecosystem, from theory to practice

Agenda and Introduction

Purpose

- Introduce the STM32Trust security ecosystem and its benefits
- Discover SBSFU principles as one of the main pillars addressing security needs in embedded applications
- Practically experience SBSFU mechanism with hands-on examples(s) on STM32L4 platform
- Introduce TrustZone isolation principle and application on STM32L5
- Discover ARM PSA framework and TFM implementation on STM32L5
- Practically experience TFM-SBSFU and STM32L5 security features with hands-on example(s) on STM32L5 platform

Agenda

1. Introduction & Agenda
2. Hands-on #1
   Building SBSFU
3. SBSFU presentation
4. Hands-on #2
   Experience SBSFU benefits
5. Hands-on #3
   Adding protections
6. STM32Trust introduction
7. Trust Zone presentation
8. TFM implementation on L5
9. Hands-on #4
   Experience TFM on L5
10. Wrap-Up

STM32 embedded security learning program

https://www.st.com/content/st_com/en/support/learning/stm32-education/stm32-embedded-security-learning-journey.html

- **STM32Trust webinar**
  - Watch our latest webinar to get an introduction to STM32Trust security
- **Get started! 10 questions to know where you are up to**
  - Answer the questions to know what program sections you should follow, based on your knowledge
- **Security MOOC series**
  - There are several MOOC taking over security problematic from basics to practical implementation

Part 1: Introduction to security

Part 2: Basics of cryptography

Part 3: STM32 security features

Part 4: STM32 security in practice

Part 5: How to define your security needs

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Thank you

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