

Why (Control System) Cyber-Security such Dr. Stefan.Lueders@cern.ch CS2HEP, October 8th 2017, Barcelona (E)



New kids on the block: How to patch IoTs (RasPI, Arduino, ...)?

How to involve/force vendors?

...and how to counter their fantasy pricing?







... but embedded WLAN is becoming a pain!













A two-week-old campaign to steal developers' credentials using malicious code distributed through npm, the Node.js package management registry has been halted with the removal of 39 malicious npm packages.





CERN Single Sign-On Multi-Factor Authentication requested Sign in with second factor verification Reminder: you have agreed to comply with the CERN computing rules Select your Multi Factor system SMS Two factor authentication asking your CERN credentials, and a verification code will be sent by SMS to your CERN mobile phone. Google Authenticator Two factor authentication asking your CERN credentials, and a verification code using Google Authenticator Smartphone application. Two factor authentication asking your CERN credentials, and a verification code using your USB YubiKey device. Smartcards









Why (Control System) Cyber-Security sucks...



Why (Control System) Cyber-Security sucks...

Dr. Stefan.Lueders@cern.ch

CS2HEP, October 8th 2017, Barcelona (E)

	Palau de Congressos de Catalunya	09:00 - 09:05		
	Why Control System Cyber-Security Sucks		Dr. Stefan Lueders	
	Palau de Congressos de Catalunya		09:05 - 09:20	
	The Trickle Down Effect: Protecting SCADA systems at the high energy physics lab human error through phishing training policy and best practices			
	Control system network security issues and recommendations	14:00	Access Security of RHIC Con	itrol System
10:00	Palau de Congressos de Catalunya		Palau de Congressos de Catalunya	
	ontrol-system cyber-security operational practices at SOLEIL			
	Palau de Congressos de Catalunya		Secrets management in a control system environment using Vault	
	Coffee Break	Palau de Congressos de Ca		unya
	Palau de Congressos de Catalunya	15:00	1000 things you always want to know about SSO but you never dared to ask!	
11:00	Accelerator network safety at PSI		Palau de Congressos de Catalunya Coffee Break	
	Palau de Congressos de Catalunya			
	Security measures for ESS PSS software development	Palau de Congressos de Cat		unya
	Palau de Congressos de Catalunya	16:00	Discussion on AuthN & Auth	Z
	Rethinking Institution Security Approach			
12:00	Palau de Congressos de Catalunya			
	Internet of Things on Accelerator Control Networks		Palau de Congressos de Catalunya	
	Palau de Congressos de Catalunya		General Discussion	

16:45 - 17:30

Andrei Sukhanov

14:00 - 14:30

Anton Joubert. 14:30 - 15:00

15:00 - 15:30

Karen White

16:00 - 16:45

Dr. Stefan Lueders

Luis Rodriguez Fernandez

Palau de Congressos de Catalunya

Lunch Break

Why (Control System) Cyber-Security sucks...
Dr. Stefan.Lueders@cern.ch
CS2HEP, October 8th 2017, Barcelona (E)

17:00

Dr. Stefan Lueders



Palau de Congressos de Catalunya

Dealing with insecure and/or cyber espionage enabled COTS devices

09:00

Logistics of the 6th Control System Cyber-Security Workshop

The Agenda

Bye, Bill. Welcome RasPl & Arduino

Core-ICS apart, interconnections will grow

ICS and IoT will merge in some way

Wireless is already on the plant-floor

Internet & cloud access will become normal

Incentives for secure ICS lacks business case

