



Security mechanisms over R-GOOSE messages

Description:

CIGRE Tech Talks is an initiative of CIGRE-Brasil, through the D2 Study Committee - Information and Telecommunications Systems for Electrical Systems. Presentation of R-GOOSE cybersecurity options and requirements to enhance power grids protection provides an overview of the importance of cybersecurity in digitalized power grids, highlighting the fundamental role of the R-GOOSE (Routable GOOSE) protocol in protecting IEC 61850-based systems. It addresses key cybersecurity challenges faced by modern grids, including vulnerabilities to attacks such as malware and data interception. Next, it explores the operation of R-GOOSE and the necessity of securing communications through authentication, encryption, and the adoption of standards. The presentation proposes several cybersecurity options for implementing R-GOOSE.

[Register Here!](#)

Save the date:

- November 22, 2024
- 10:00 am (Brasília) |
- 1:00 pm (GMT)

Speakers:



Carlos Pimentel
CIGRE Sr. member Brazil

Carlos Pimentel holds a degree in Electrical Engineering from UTFPR, a postgraduate degree in Data Science & Analytics from USP/ESALQ, and is currently a master's student in the PPGEL program at UFPR. He has over ten years of experience in engineering, application, commissioning, and technical support in the areas of measurement, control, and automation for power system. He currently works as a Cyber Security Lead Engineer at GE Vernova.



Fabio Bruns
CIGRE member Brazil

Bachelor student of Telecommunications Engineering at *Universidade Federal Fluminense* (UFF), works as a researcher on substation automation projects and digitalization of electrical systems at FRIENDS laboratory. Fabio is a student member of CIGRE-Brazil and NGN member of the SC-D2.