IEEE PSCC S1 SG: <u>IEEE 1686 Standard for Intelligent Electronic Devices Cyber Security Capabilities</u>

Chair: Marc Lacroix
Vice Chair: Éric Thibodeau
Output: Revision of the standard
Established: Dec 2017

<u>**Summary Minutes for Subcommittee Report**</u>

The S1 WG meeting was held on Monday, September 10 with 23 attendees and chaired by Éric Thibodeau.
The goal of this meeting was to continue working on the revision of IEEE 1686 standard.

<u>**Purpose of S1 SG:**</u>
The task force will revise the existing IEEE 1686 standard to integrate the latest cybersecurity technologies in order to defines the functions and features to be provided in IEDs to support cybersecurity programs.

<u>**Request for Jan 2019**</u> S1 plans to meet as a Working Group in a single session for 40 people and a computer projector.

References to NERC CIP recommended for removal, or revision to include clarifying information

Steve - may look at C37.240 to see how things have been scoped there for voltage-level-independent application of cybersecurity standards to generalize beyond NERC-CIP applications

More focus on non-password related user authentication

Recast usernames/passwords as cyber credentials (certs, smart cards, etc.)

Proposing requirements that passwords SHALL not be reusable and SHALL expire

Proposing requirements to require 12 characters passwords instead of 8.

ICAP should be pulled in now so that conformity with 1686 can be certified.

Need a way to detect/disrupt brute force/dictionary attacks on password-based logins.

Account lockout needs to consider other links that have not had attacks on them.

Issues with the "Audit Trail" in the device. It doesn't have enough security requirements around the data integrity to ensure it could be admissible for a real-world security audit.

Need to include provisions to limit log entries during DoS/brute force attack type events to limit purposeful cycling of the Audit Trail log.

Need to look at the membership and maybe prune some members to get down to a manageable quorum level.

Actions items

1)