



USAID
FROM THE AMERICAN PEOPLE



**SCHWEITZER
ENGINEERING
LABORATORIES**



USEEA
United States Energy Association

Reducing Threats and Increasing Detection with SEL OT SDN

Tim Watkins
tim_watkins@selinc.com



Less Than
100 μs
Failover Times

Simplified
**DESIGNING
& TESTING**

Centralized Network
**VISIBILITY &
DIAGNOSTICS**

**DENY-BY-
DEFAULT**
Access Control

Less Than
100 μs
Failover Times

Simplified
**DESIGNING
& TESTING**

**DENY-BY-
DEFAULT**
Access Control

Centralized Network
**VISIBILITY &
DIAGNOSTICS**

What is OT SDN?

1. Developed by SEL for Ethernet in an Energy Control System
2. Pre planned responses to link or switch failure
3. Deny by Default
4. Must traffic engineer communication between devices



Itaipu Dam uses OT SDN
Whitepaper - <https://selinc.com/mktg/122222/>

OT SDN integrated into IDS

Baseline plan equals network reality

Unauthorized Devices Instantly Detected

Insider Threat or Malware Limited

Integration into Intrusion Detection System or Security Information Event Management

