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Prototype Resilient Command and Control (C2) of C2 Architecture for Power Outage Mitigation

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Abstract

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- I. Introduction
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- III. Inefficacy of conventional c2 architectures amidst exigency circumstances
- IV. The need for a new c2 architecture to mitigate the impact of exigency circumstances
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Abstract:

Distribution utilities within the energy ecosystem have struggled with implementing more resilient architectures amidst new resilience compliance mandates. Their traditional command and control (C2) architectures are hierarchical in nature, so the challenge is to transition to more resilient architectures, which will continue to provide requisite capabilities amidst system failures, anthropogenically-induced failures, and nature-induced failures. This paper presents a pilot case study of a mission-critical system, which utilizes a unique C2 of C2 architecture to successfully incorporate certain resiliency qualities. Accordingly, it is found that an elastic architecture, with concomitant elastic continuous function underpinnings, can prove invaluable for resilient C2 of C2 architectures.

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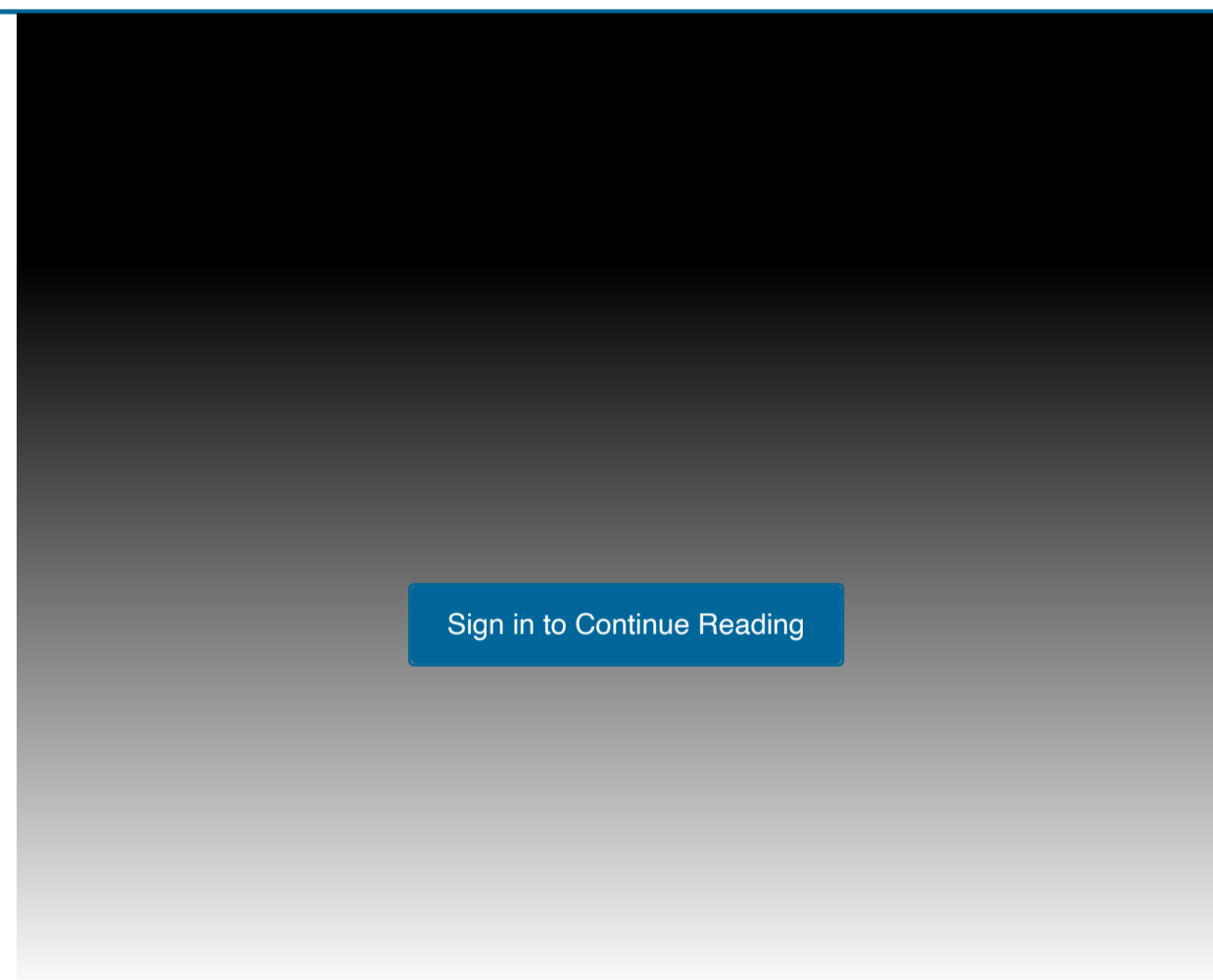
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