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Project Title: Secure Time for Cyberinfrastructure Security

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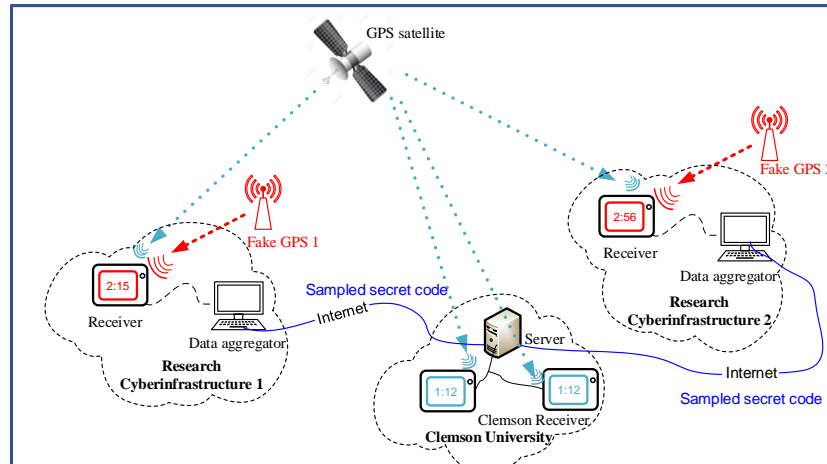*cpost@exchange.clemson.edu*

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Quad Chart for: Secure Time for Cyberinfrastructure Security

Challenges:

- Encryption not applicable
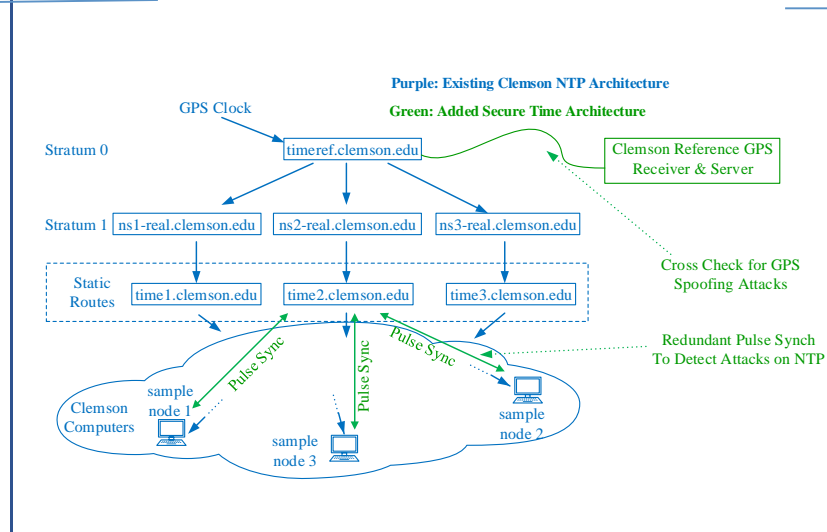- Easy to deploy
- No specialized hardware

Broader Impact:

- Easily deployable with no specialized hardware, applicable to any infrastructure requiring GPS time sync such as smart grid
- Applicable to GPS based positioning scenarios

Solutions

- Leverage physical signature of GPS signals
- Employ simple pulse sync redundancy

Metadata tag:

- *IEEE Transactions on Instrumentation & Measurement*
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- *IEEE Conference on Communications and Network Security 2018*
- *CBS –WSPA*; *IEEE Spectrum*