



Homeland Security

**TIME AND MONEY:
WORKSHOP ON TIME SYNC IN FINANCIAL MARKETS**

*“Increasing Resilience for Positioning,
Navigation and Timing”*

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Our Economy Depends on Critical Infrastructure. Our Infrastructure Depends on GPS...Especially Timing.



With Dependence Comes Risk

- GPS is vulnerable to disruption
 - Intentional
 - Unintentional
- The loss or corruption of the GPS signal will have impacts beyond the ability to validate financial transactions.
- Lifeline sectors such as Communications, Energy and Emergency Services may also be impacted



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Take Steps to Mitigate Risk

- Review, and implement as appropriate, the best practices published by DHS on Jan 5th (see link on last page)
- Assess how you will manage the loss of precision timing and develop contingency plans
- Partner with DHS Science and Technology Office as they conduct test to understand vulnerabilities
 - tests scheduled for April and June
- GPS.gov is the official U.S. Government information about the Global Positioning System (GPS) and related topics



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Congressional Interests: Backup to GPS

- Congress is addressing the GPS risk issue through the 2017 National Defense Authorization Act (NDAA) DoD, DoT and DHS required to:
 - Validate PNT requirements and assess alternative capabilities
 - Submit reports to congress by December 23, 2017
- DHS conducting studies, with assistance from Johns Hopkins, to validate precision timing requirements for the Financial Services and Emergency Services Sectors
- The results of these efforts will inform a national level decision regarding a backup to GPS

We need your assistance to ensure we properly identify requirements



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Best Practices

[https://ics-cert.us-cert.gov/sites/default/files/documents/Improving the Operation and Development of Global Positioning System %28GPS%29 Equipment Used by Critical Infrastructure S508C.pdf](https://ics-cert.us-cert.gov/sites/default/files/documents/Improving%20the%20Operation%20and%20Development%20of%20GPS%29%20Equipment%20Used%20by%20Critical%20Infrastructure%20S508C.pdf)

For more information, visit:

www.dhs.gov/critical-infrastructure

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