



# 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 5<sup>th</sup> (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_the_Operation_and_Development_of_Global_Positioning_System_%28GPS%29_Equipment_Used_by_Critical_Infrastructure_S508C.pdf)

For more information, visit:  
[www.dhs.gov/critical-infrastructure](http://www.dhs.gov/critical-infrastructure)

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