

Adtran

ΑΣΦΑΛΗΣ ΣΥΓΧΡΟΝΙΣΜΟΣ ΓΙΑ ΤΙΣ ΥΠΟΔΟΜΕΣ

16/10/2024

ΘΑΝΑΣΗΣ ΚΑΡΑΝΑΣΗΣ, Δ/ΝΤΗΣ ΠΩΛΗΣΕΩΝ ADTRAN

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Adtran – ΠΟΙΟΙ ΕΙΜΑΣΤΕ?

WHO IS ADTRAN?

ΕΠΙΣΚΟΠΗΣΗ

\$1.15B



Preliminary
FY23 revenue

50



Worldwide locations
HQ = Huntsville, AL

3.300+



Employees
worldwide

A – Ω



End-to-end
solutions portfolio

1.000+



Global technology
patents

35+



Years of
experience

Key differentiators

- Open, disaggregated platforms with vendor-neutral capability
- Extensive global design support and supply orchestration capabilities (Supply chain)
- Customers = NSPs, RSPs, ASPs, SMBs, enterprises, tribal communities, governments and agencies: local, state, federal
- Simplified pricing structure



“Adtran is focused on customer usability, service and support.”

Tom Stanton, CEO, Adtran

ΠΑΓΚΟΣΜΙΑ ΠΑΡΟΥΣΙΑ

Americas:

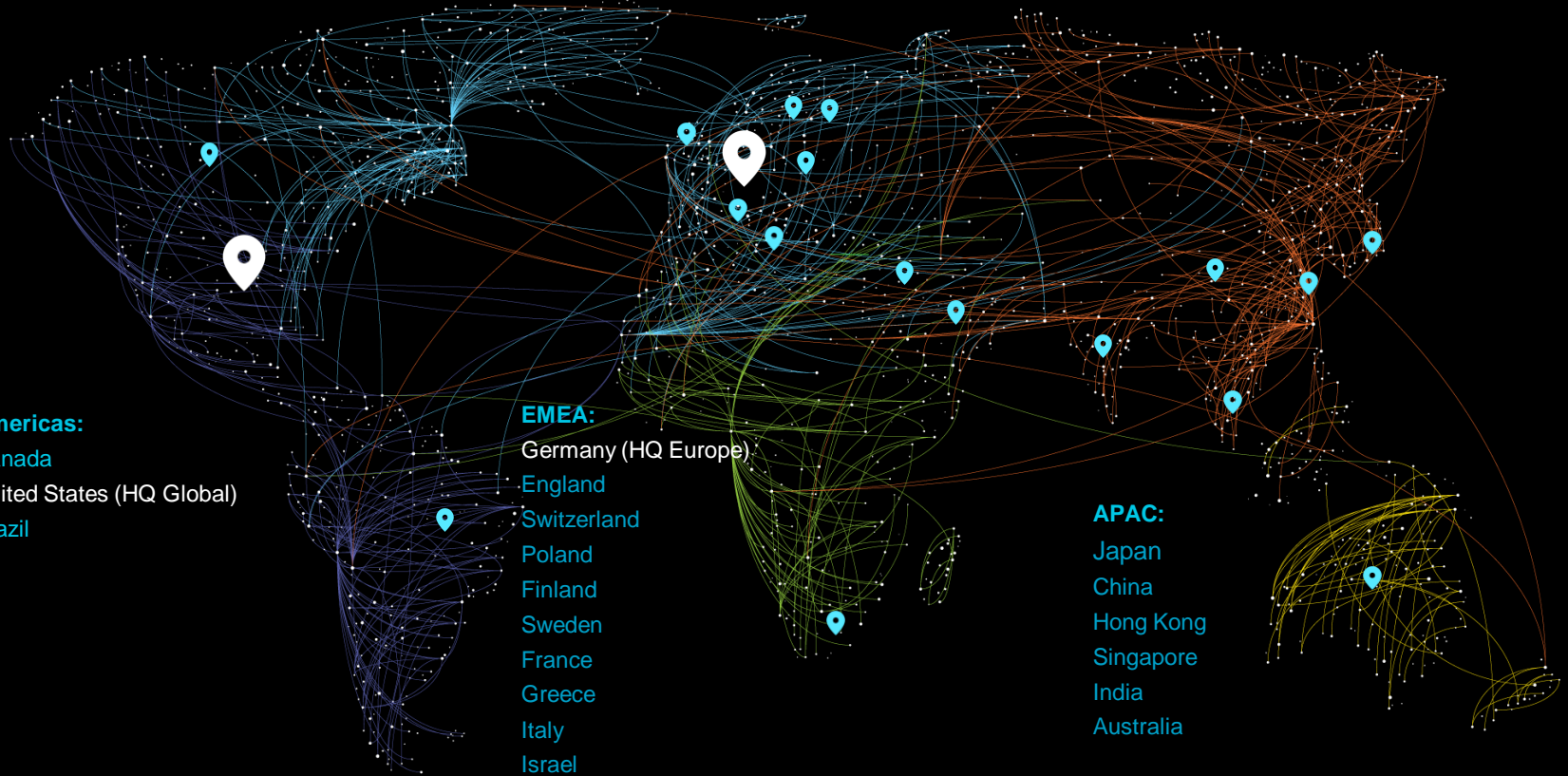
Canada
United States (HQ Global)
Brazil

EMEA:

Germany (HQ Europe)
England
Switzerland
Poland
Finland
Sweden
France
Greece
Italy
Israel
South Africa
Saudi Arabia

APAC:

Japan
China
Hong Kong
Singapore
India
Australia



ΠΡΟΙΟΝΤΙΚΟ ΧΑΡΤΟΦΥΛΑΚΙΟ



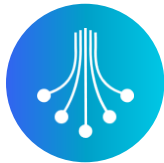
Subscriber and enterprise solutions

Open multi-gig PON systems, Carrier Ethernet access, Wi-Fi, routers, switches and more



Access and aggregation solutions

Fiber access platforms, 1/10/25/100G Ethernet aggregation, network timing and synchronization



Optical Networking Solutions

Optical access and transport, data center interconnect, advanced pluggable optics, assurance and monitoring, encryption and security



Software platforms

Open, cloud-centric management and orchestration



Professional services

Scalable in-region services, including planning, deployment, and maintenance

ΟΙ ΠΕΛΑΤΕΣ ΜΑΣ

Communication service providers

- **National service providers**
- **Regional service providers**
 - Telcos
 - Cable MSOs
- **Alternate service providers**
 - Electric coops / Utilities
 - Municipalities
 - Tribals
 - WISPs

Businesses

- Large enterprises
- Internet content providers
- Federal agencies
- Public and private organizations
- Small-medium businesses

ΟΙ ΠΕΛΑΤΕΣ ΜΑΣ / ΚΑΘΕΤΕΣ ΑΓΟΡΕΣ

ΠΑΡΟΧΟΙ ΕΥΡΥΖΩΝΙΚΩΝ ΥΠΗΡΕΣΙΩΝ

- (ΠΟΛΥ-) ΕΘΝΙΚΟΙ ΠΑΡΟΧΟΙ
- ΠΕΡΙΦΕΡΕΙΑΚΟΙ
- ΕΤΑΙΡΕΙΕΣ ΕΝΕΡΓΕΙΑΣ
- ΔΗΜΟΣΙΟΙ ΦΟΡΕΙΣ

ΕΤΑΙΡΙΚΟΙ ΠΕΛΑΤΕΣ

- ΜΕΓΑΛΕΣ ΕΤΑΙΡΕΙΕΣ
- ΜΜΕ
- ΔΗΜΟΙ / ΟΤΑ
- ΔΗΜΟΣΙΟΙ ΦΟΡΕΙΣ



ΤΗΛΕΠΙΚΟΙΝΩΝΙΕΣ

ΧΡΗΜΑΤΟΠΙΣΤΩΤΙΚΟΣ ΤΟΜΕΑΣ



ΜΕΤΑΦΟΡΕΣ

ΕΤΑΙΡΕΙΕΣ ΚΟΙΝΗΣ ΩΦΕΛΕΙΑΣ



ΕΚΠΑΙΔΕΥΣΗ

ΥΓΕΙΑ

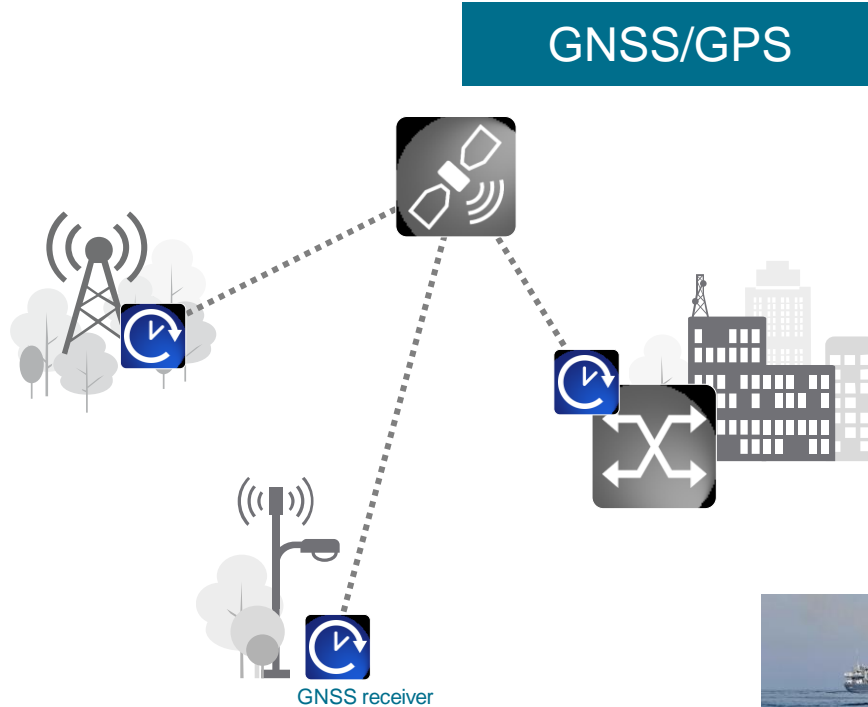


ΠΑΡΑΓΩΓΗ

ΑΣΦΑΛΕΙΑ ΔΙΚΤΥΩΝ

ΣΥΓΧΡΟΝΙΣΜΟΣ

ΣΥΓΧΡΟΝΙΣΜΟΣ – ΤΙ ΕΙΝΑΙ ΚΑΙ ΠΩΣ ΕΠΙΤΥΓΧΑΝΕΤΑΙ?



ΣΥΓΧΡΟΝΙΣΜΟΣ ΔΙΚΤΥΟΥ:

Η ΔΙΑΔΙΚΑΣΙΑ ΠΟΥ ΔΙΑΣΦΑΛΙΖΕΙ ΟΤΙ ΤΑ ΣΤΟΙΧΕΙΑ ΕΝΟΣ ΔΙΚΤΟΥ ΕΙΝΑΙ ΣΥΝΤΟΝΙΣΜΕΝΑ ΣΤΟΝ ΙΔΙΟ ΧΡΟΝΟ, ΩΣΤΕ ΝΑ ΕΠΙΚΟΙΝΩΝΟΥΝ ΑΠΟΤΕΛΕΣΜΑΤΙΚΑ ΚΑΙ ΑΠΡΟΣΚΟΠΤΑ



ΣΥΓΧΡΟΝΙΣΜΟΣ – ΠΟΥ ΧΡΕΙΑΖΕΤΑΙ?



ΜΕΤΑΦΟΡΕΣ

Tracking goods and navigation of vehicles on ground, water or in the air



Precise timing of radio access networks



ΤΗΛΕΠΙΚΟΙΝΩΝΙΕΣ



Position
Navigation
Timing

ΕΝΕΡΓΕΙΑ

Detecting and accurately localizing failures; synchronizing control

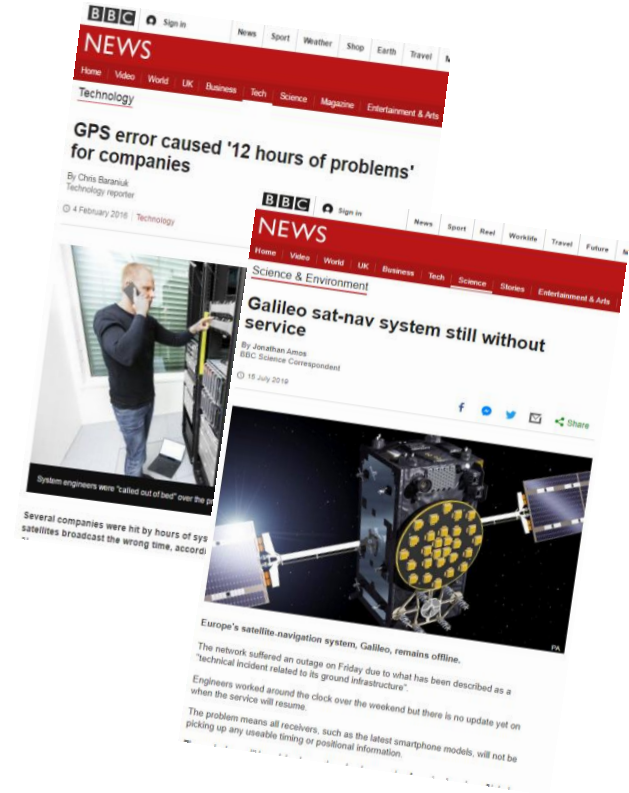
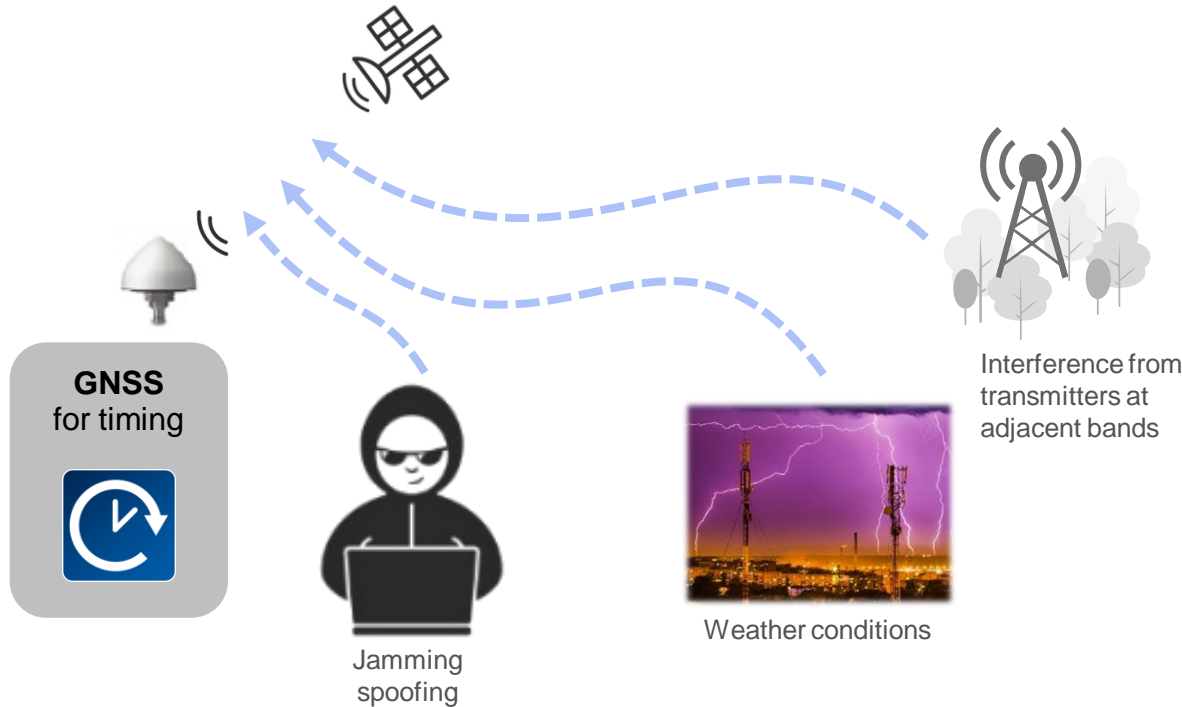


Synchronizing data backup and distributed compute processes



DATA CENTERS

ΚΙΝΔΥΝΟΙ ΓΙΑ ΤΟΝ ΣΥΓΧΡΟΝΙΣΜΟ ΜΕΣΩ GNSS...



GNSS/GPS is a **single point of failure** for many mission critical applications

ΚΙΝΔΥΝΟΙ ΓΙΑ ΤΟΝ ΣΥΓΧΡΟΝΙΣΜΟ ΜΕΣΩ GNSS +



THE TIMES OF ISRAEL ISRAEL AT WAR - DAY 367

GPS jamming amid wars playing havoc with airline navigation – report

Around 1,000 flights a day suffer GPS interference as they pass near Israel or Ukraine, experts tell UK's Times; in some cases, errors continue even after planes leave region

By TOI STAFF
6 October 2024, 3:05 pm



AIR & SPACE FORCES MAGAZINE

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Russian Jamming Is Wreaking Havoc on GPS in Eastern Europe. But Is It Hybrid Warfare?

July 10, 2024 | By Shaun Waterman



Russia holds biggest military exercise since Cold War

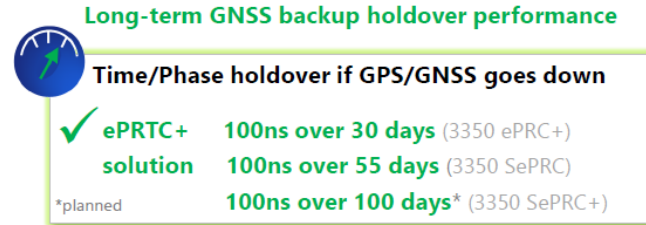
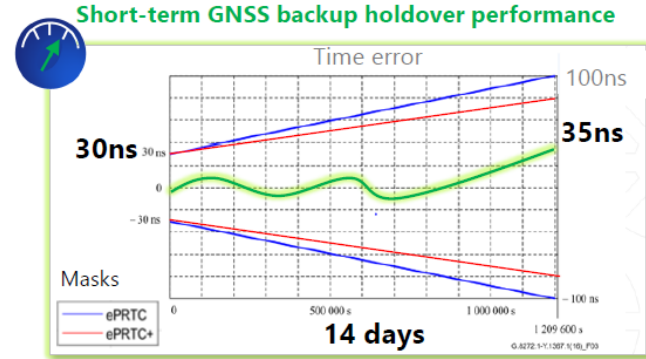
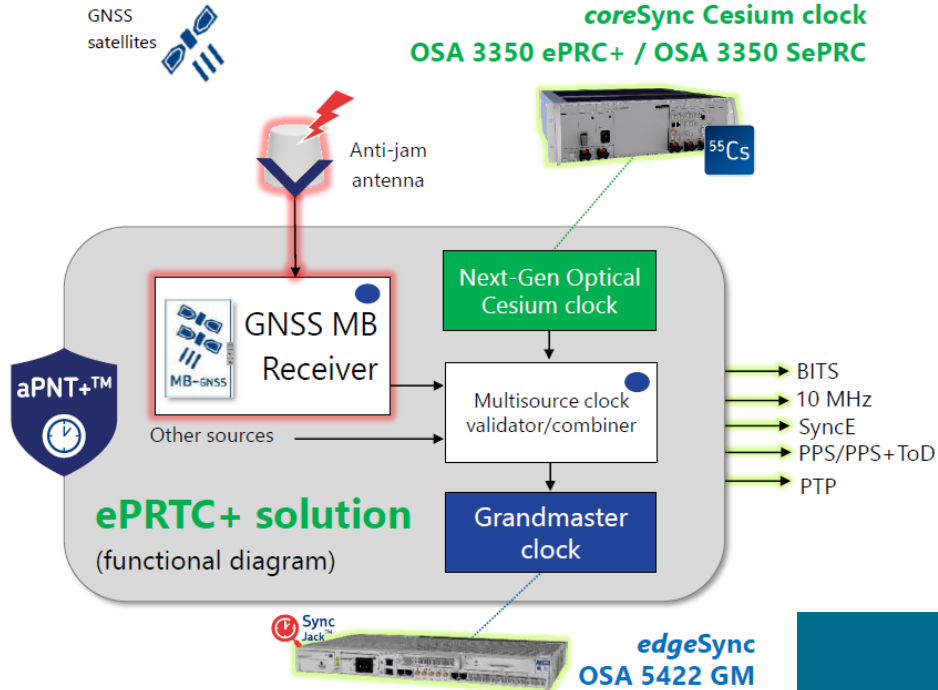


Russia has denied Israeli suggestions that it is behind disruption of GPS signals at Israel's Ben Gurion airport.

Since early June, GPS signals at the airport have been unreliable for pilots and planes using the location.

The missing navigational data has had a "significant impact" on airport operations, said Israel's airports authority.

...ΚΑΙ ΠΩΣ ΑΝΤΙΜΕΤΩΠΙΖΟΝΤΑΙ



ePRTC+
Enhanced Primary Reference Time Clock

...ΚΑΙ ΠΩΣ ΑΝΤΙΜΕΤΩΠΙΖΟΝΤΑΙ

OSCILLOQUARTZ

A division of Adtran

accessSync™

 OSA 5401
(SFP SyncPlug)

 Sync Jack™

OSA 5405-I/O/MB/P



OSAinside™*

 OSA 5400

 Sync Jack™

(SyncModule M2)

OSA SoftSync
Linux



edgeSync™

 OSA 541x

 Sync Jack™

OSA 5412



edgeSync+™

 OSA 5420/21

 Sync Jack™

OSA 5422



coreSync™

 OSA 5430 NG GM/SSU

 Sync Jack™

OSA 5440 NG GM/SSU



coreSync™

 Cesium Clocks

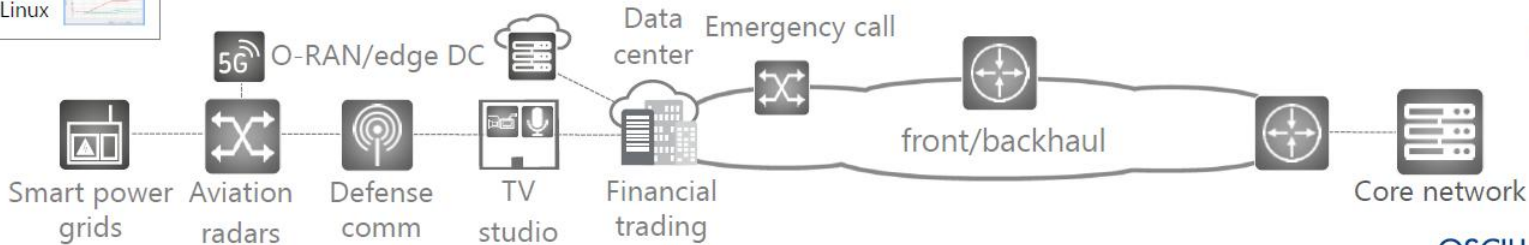
OSA3350 (optical) ePRC+

OSA3230B (magnetic) PRC/ePRC

OSA3300 HP (optical) Cs Clock




PNT cyber threats

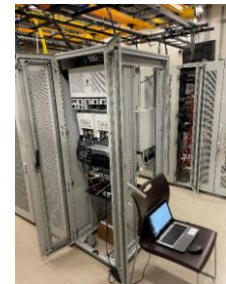
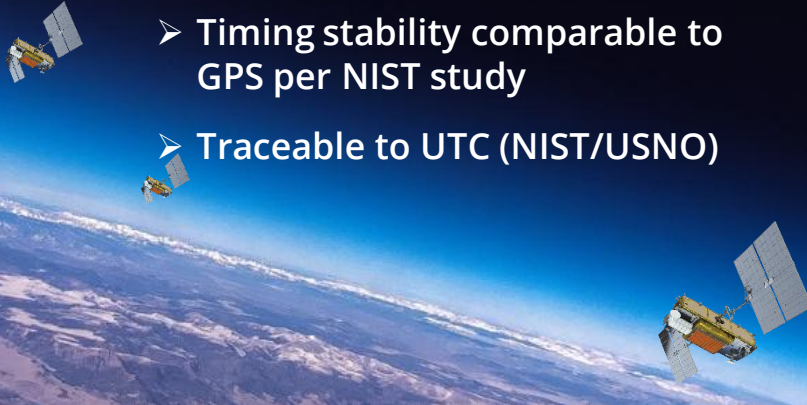


 Sync Jack™
device/network Monitor

OSCILLOQUARTZ

STL: Alternative PNT from Space (LEO Iridium)

- ✓ Powerful signals
 - ✓ Secure service
 - ✓ Global availability
 - ✓ Independent of GPS
- Stratum 0 signal for Stratum 1 clock, meets ITU-G.8272 PRTC-A
 - Timing stability of 20-100 nS 1-sigma (oscillator dependent)
 - Timing stability comparable to GPS per NIST study
 - Traceable to UTC (NIST/USNO)



ΣΥΝΟΨΙΖΟΝΤΑΣ...

ΚΑΜΙΑ ΥΠΟΔΟΜΗ

ΔΕΝ ΕΙΝΑΙ ΑΣΦΑΛΗΣ

ΧΩΡΙΣ **ΑΣΦΑΛΗ ΣΥΓΧΡΟΝΙΣΜΟ**



ΕΥΧΑΡΙΣΤΩ!

