Introduction to OPNT Global Terrestrial Timing Service \textsuperscript{SM} ... GTTS \textsuperscript{SM}

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Monty Johnson, CEO
m.johnson@opnt.nl
OPNT Global Terrestrial Timing Service (GTTS)

- Timing is critical yet GPS is not enough ... terrestrial-based solution is the right technical answer
  - “The World’s Economy Runs on GPS. It Needs a Backup Plan”*

- A robust Time as a Service (TaaS) offering on a global scale is the right market/business answer
  - “Time-as-a-Service: How is time revolutionising business?”**

- OPNT is ready to meet this world-wide need
  - Resiliency, Affordability, Accuracy, Traceability are Key
  - Incorporation of Both Wired and Wireless to Cost-Effectively Satisfy Use Cases
  - Global Parallel to GPS Supporting Both Legacy and Emerging Needs

** IDG Connect https://www.idgconnect.com/opinion/1501183/-service-revolutionising-business
OPNT’s GTTS™:
Resiliency, Affordability, Accuracy, Traceability, Wired plus Wireless

**OPNT Precise Time Complex (OPTC)**

- National UTC Time Source #1
- GPS, as further UTC monitoring and resiliency
- Representing the 3-link configuration, or 2-link plus other voting support

**Wireless Monitoring, plus Correction**

- MNO Small Cell
- MNO Tower
- OPNT “Reverse Beacon”
- RSTU**
- **Radio Signal Timestamp Unit (RSTU)**

To customers or other network OPTCs

*OPNT Precise Time Complex (OPTC)*

**National UTC Time Source #2, #3, ...**

Metro/DC OPTC

**Standard Network, or Bi-directional Single Fiber in Core**

GM BC

Data Center

**Data Center**

BC BC

BC BC

MNO Towers

GM

Compare
Summary

- The world needs a terrestrial-based TaaS utility as a parallel to GPS
  - Combination of fiber networks plus terrestrial-based wireless enables cost-effective delivery to meet full range of performance needs
  - Redundancy plus “dual-direction” attributes enable resiliency and traceability

- OPNT is ready to meet this world-wide need
  - Application of advanced technology to harness the performance benefits available through a terrestrial-based offering
  - With standard timing interfaces that customers are accustomed to
  - At a solution cost structure that supports win-win business propositions with both customers and partners
  - To achieve their Key Requirements of Resiliency, Affordability, Accuracy, and Traceability

- We look forward to working with you
Contact Information

OPNT B.V.
De Boelelaan 1081
1081 HV Amsterdam
The Netherlands

Monty Johnson
m.johnson@opnt.nl
+1 706 206 1963

WWW.OPNT.NL
LinkedIn Follow us
info@opnt.nl