EXECUTIVE SUMMARY

Technology:

The SCPTime® (Secured Certified Precise and Traceable Time) is a terrestrial alternative timing system, based on the outcomes of a French 5-year research and development project by bringing together knowhow and expertise of the French Time/Frequency ecosystem.

The system allows to disseminate UTC *Time as a Service* (TaaS) to users via computer networks mainly, backed by a centralized, secure and resilient timing infrastructure that is connected upstream to a legal or official time source (UTC), while guaranteeing the time integrity and full traceability in the end-to-end transmission from the source to the end user device.

SCPTime® technology is completely independent from GNSS by connecting its infrastructure to the official time source of a country (established by its NMIs such as French Observatory of Paris) as its main reference time.

The time can be distributed to users over an IP network via secure patented time protocol NTP STS®, which ensures the integrity of the time information transmitted in an unsecure environment such as internet.

SCPTrace, the built-in management system in SCPTime®, keeps all records of time signal throughout the end-to-end transmission, therefore allows to provide full traceability and proof of evidence for cybersecurity, legal or regulatory compliance.

Challenges that our system already addresses:

- **Cybersecurity and Resilience**
    - Service continuity ensured by a centralized, resilient timing infrastructure
    - Robustness of time signal, independent and/or from GNSS
- **End-to-end traceability, a key enabler of trust time**
    - Traceability to official UTC
    - Traceability in end-to-end transmission from UTC(k) source to user devices
- **Wide-area coverage:** via terrestrial communication networks, including internet and local networks
- **Capacity of adaptation and expansion:** scalable timing infrastructure to meet the needs of coverage and of timing service performances. Interoperability with GNSS and other technologies (5G, Radiofrequency…)
- **Flexibility:** Time as a Service (TaaS) with a range of service packages to multiple sectors & users
- **Industrial performance:** cost-efficient comprehensive approach and full traceability

Business Model:

The system is operated on TaaS mode: a range of TaaS packages are offered to users to meet their needs of timing services in various applications.

Depending on the TaaS package, the solution on the customer end implies either a simple software, or a bundled package with on-premise hardware + Sofware agent to be installed on customer devices.

contact@scptime.com | www.scptime.com