

CORPORATE OVERVIEW

Orolia is a high-technology group specialized in precise timing, positioning and synchronization. Orolia provides electronics equipments and systems that help determine the 'where and when' of people, objects or events in large and growing markets such as Defense & Security, Space & Navigation and Telecom & Broadcasting.

High-precision timing, positioning and synchronization solutions are vital for satellites navigation systems, space exploration and military operations. They are also required for day life applications in public safety with synchronizing call taking, dispatching and operations between police, fire, and Emergency Medical Services, or in telecommunications for wireless telecom networks or Digital Broadcasting. In addition, the measurement and analysis of time and frequency signals is critical to organizations as diverse as telecom operators, metrology, laboratories, R&D centers or armies all around the world.

CUSTOMERS

AT&T, BAE Systems, DCNS, Deutsche Bank, EADS, Ericsson, European Space Agency, Foxconn, French Air Force, Harris, Huawei, Merrill Lynch, Moody's, Motorola, NDK, Raytheon, Rohde & Schwartz, Royal Air Force, TDF, Thales, Tyco Electronics, Verizon, US Air Force

OPERATING COMPANIES



- Leading supplier of space-borne atomic clocks for Global Navigation Satellite System (Galileo, IRNSS, Compass) and the most precise clock ever placed in orbit to date: the passive hydrogen maser



- US leader for timing systems for emergency call centers (911)
- World leader for digital broadcast synchronization equipments
- European leader for Time & Frequency test and measurement systems.



OUR ACTIVITIES

When extremely accurate timing is required, Orolia's atomic clocks are used to secure military telecommunications and to synchronize the different elements of modern warfare (military communications satellites, "drones", aircraft, missiles, submarines, navigation centers, electronic war systems, etc.). Distribution of precise time over today's IP-based networks enables true synchronization of field operations, including centralized command and control systems. **Synchronization is a vital requirement for military operations.**



Accurate time-of-day is vital in communication centers and Public Safety Answering Points (PSAPs) for time stamping events. Thanks to Orolia's timing technologies, call taking, dispatching and operations between Police, Fire, and Emergency Medical Services are synchronized for faster and better coordination. Timing technologies mean faster responses in case of disaster or heart attack by improving the precise location, the quality of care and process.

Locating people and Mastering time = Saving Lives.

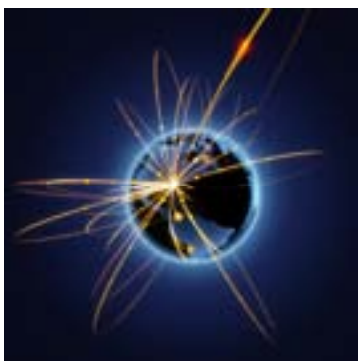
Global Satellite Navigation Systems are able to determine location within a few meters thanks to the use of ultra-precise time signals. Timing is the key element to determine precise location. Thanks to Orolia's atomic clocks, the most precise ever launched in space, new innovative services and applications are being developed for agriculture, environmental monitoring, transportation, logistics and leisure markets.

Precise and stable time = Precise location



Precision time signals from navigation satellites and ultra-stable oscillators are fundamental to the reliable operation of telecommunication networks and the internet. High-precision Timing and Synchronization systems are key operational requirements to ensure the reliable transport of voice, video, and data services.

As demand to deliver content over the next generation network increases, e.g. mobile TV, so does the requirement for precise timing and synchronization.



Each of these market segments requires high-precision time and frequency measurement systems included in Orolia's field of competence and services.



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