



PRESS RELEASE
For immediate release

Arqiva to Trial eLoran Timing for Broadcast and Telecommunications Infrastructure

Lydbrook, Gloucestershire, UK 10 June 2016, Arqiva the communications infrastructure company, is trialling eLoran timing technology – which delivers precise UTC traceable time – from the Anthorn transmitter in Cumbria. Chronos Technology is running the trial through its Innovate UK – the UK’s Innovation Agency - grant supported research project “GAUL”.

As a provider of broadcast, satellite and telecommunications services, Arqiva is dependent on accurate time and frequency, so by trialling the eLoran technology alongside its existing Global Positioning System (GPS), it will be able to monitor any time and frequency inaccuracies that can occur as a result of external factors, such as local interference, jamming, spoofing and space weather events.

Prof Charles Curry, Managing Director of Chronos Technology said: “We are delighted to be working with Arqiva on this project to trial eLoran timing to complement the existing GPS derived time. The project will compare eLoran and GPS timing and their relative stability and accuracy to UTC. It will also demonstrate how eLoran timing signals can be continuously synchronised to UTC, using the Loran Data Channel, for indoor only reception locations.”

Simon Mason, RF Technology Director of Arqiva said: “We need precise time for our transmissions to ensure we deliver the best service that we can to our customers. During this trial we are aiming to achieve sub microsecond accuracy relative to common time scales, such as UTC.”

About Chronos Technology

Chronos Technology is a global leader in [GPS jamming and interference detection and geolocation products and solutions](#), providing both handheld jamming detectors and detection and geolocation systems to protect critical infrastructure such as airports, ports and financial institutions. A specialist technology company in the wider field of Resilient Position, Navigation and Timing solutions, Chronos supplies [GPS receivers](#), [eLoran receivers](#), [GPS simulators](#), and GNSS (GPS) [infrastructure](#) (antennas, splitters, [repeaters](#)) for the distribution of GNSS RF signals into indoor environments in military and civilian applications. Chronos has developed a range of bespoke [GPS timing products](#) for time and frequency synchronisation introducing one of the world’s first GPS disciplined Chip Scale Atomic clock products for OEM applications. Established in 1986, Chronos is also acknowledged as an expert in [time, timing, phase](#) and distribution systems for telecoms, energy/utilities and banking/financial institutions. For more information please visit www.chronos.co.uk

About Arqiva

Arqiva provides innovative and secure communications and broadcast technology. We’re extending the reach of mobile communications, shaping the future of broadcast, liberating WiFi for brand owners, safeguarding critical communications, and unlocking the potential of the Internet of Things. Customers include major UK and international broadcasters such as the BBC, ITV, Turner Broadcasting, BSkyB and the independent radio groups; major telco providers including the UK's four mobile network operators; retail, leisure, energy and water companies; and the emergency services. For more information, news and insights from Arqiva, please visit the website www.arqiva.com

About Innovate UK

Innovate UK is the UK’s innovation agency. We work with people, companies and partner organisations to find and drive the science and technology innovations that will grow the UK economy - delivering productivity, new jobs and exports and keeping the UK globally competitive in the race for future prosperity. For further information visit www.gov.uk/innovateuk