

IoT solution enabled by Gemalto helps optimize safety and efficiency in Latin America's busiest seaports

Amsterdam, June 25, 2015 – Gemalto (Euronext NL0000400653 GTO), the world leader in digital security, is enabling M2M connectivity for an innovative [Internet-of-Things](#) (IoT) solution that monitors dynamic ocean conditions to optimize safety and efficiency in Brazilian ports. Developed by HidroMares a leading oceanography consulting firm, the real time weather-oceanographic information system (SISMO®) monitors waves, currents, water depth, temperature and salinity to improve navigation safety, streamline ship traffic and increase port productivity.

The innovative SISMO® telemetry system leverages robust modems by Duodigit, a provider of telemetry and biometrics technology products, to collect various ocean data from sensors deployed on buoys, piers and the seabed in ports. The modems use Gemalto *Cinterion M2M Modules* with embedded Java to process and send data via wireless networks and the Internet to a backend server. Port workers sign on securely to an intuitive interface and use the data to improve real time decision-making and optimize port productivity. The solution is already deployed in Porto of Açú in Rio de Janeiro state, whose location near Campos Basin is strategic to the petrol industry.

"Sampling of oceanographic data is done in extremely hostile environments requiring rugged durability of system components during installation and maintenance. The transmission of real time data demands a robust system that is reliable continuously in all conditions, 365 days a year," says Alexandre De Caroli, Technical Director of HidroMares. *"Duodigit and Gemalto collaborated to provide a solution that meets these needs."*

"One of our biggest challenges was designing a cost efficient solution that could ensure reliable communication in the extreme environments of a seaport," said Luiz Henrique Correa Bernardes, Technical Director, Duodigit. *"Gemalto's Java embedded module provides the required durability along with the processing power needed to analyze and store information locally in the device. The solution allows efficient communication as needed, which is critical for cost efficiency and preserving battery power in hard-to-service locations such as seaports."*

"Optimizing supply chain logistics and improving productivity in distribution systems is key to the profitability of our increasingly global economy and it also improves fuel economy for positive environmental impact," added Rodrigo Serna, President for Latin America at Gemalto. *"Solutions such as those provided by HidroMares and Duodigit will be leading Brazil and Latin America forward and helping to increase the efficiency of seaport logistics."*

About Gemalto

Gemalto (Euronext NL0000400653 GTO) is the world leader in digital security, with 2014 annual revenues of €2.5 billion and blue-chip customers in over 180 countries.

Gemalto helps people trust one another in an increasingly connected digital world. Billions of people want better lifestyles, smarter living environments, and the freedom to communicate, shop, travel, bank, entertain and work – anytime, everywhere – in ways that are enjoyable and safe. In this fast moving mobile and digital environment, we enable companies and administrations to offer a wide range of trusted and convenient services by securing financial transactions, mobile services, public and private clouds, eHealthcare systems, access to eGovernment services, the Internet and internet-of-things and transport ticketing systems.

Gemalto's unique technology portfolio - from advanced cryptographic software embedded in a variety of familiar objects, to highly robust and scalable back-office platforms for authentication, encryption and digital credential management - is delivered by our world-class service teams. Our 14,000 employees operate out of 99 offices, 34 personalization and data centers, and 24 research and software development centers located in 46 countries.

For more information visit www.gemalto.com, www.justaskgemalto.com, blog.gemalto.com, or follow [@gemalto](https://twitter.com/gemalto) on Twitter.

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