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## TREDISEC project to enhance end-to-end security in untrusted cloud environments.

**Recent reports of outages, data theft, and surveillance scandals have shown the need to guarantee the confidentiality, availability and integrity of data in public clouds.**

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Numerous studies and reports document daily the impact of cloud computing in IT infrastructures across all sectors.

With the ever increasing amount of data produced worldwide, cloud storage offers a cheaper and a more reliable alternative to local storage. Existing cloud service providers and on-line backup service providers alike guarantee a good trade-off between quality of service and cost effectiveness, which in turn encourages individuals to outsource their data and data processing to the cloud.

While outsourcing data storage and processing to the cloud is very appealing from an economic standpoint, it is raising more and more concerns from a security perspective. Attacking outsourced data is very tempting for external attackers, malicious insiders, business competitors; this statement is largely supported by the numerous attacks on cloud data, and reflected in the reluctance of business, big and small, to move data to the cloud. In short, the cloud is not (yet) a safe place for data.

Atos leads the research and innovation project TREDISEC (Trust-aware, REliable and Distributed Information SEcurity in the Cloud), and collaborates with a consortium of European organizations to develop technology that balances security requirements and all the characteristics that are crucial for the cloud business and operations (efficiency, reliability and cost optimality).

TREDISEC will develop new systems and techniques which make the cloud a secure and efficient haven to store and process data. The objective is to step away from a myriad of disconnected security protocols or cryptographic algorithms, and to converge on a single framework where all objectives are met.

More specifically, TREDISEC addresses the confidentiality and integrity of outsourced data in the presence of a powerful attacker who controls the entire network. In so doing, TREDISEC shall deliver technology that will impact existing businesses and will generate new profitable business opportunities long after the project is concluded.

TREDISEC has received funding from the European Commission under the Information and Communication Technologies (ICT) theme of the Horizon 2020 framework programme (H2020-ICT-2014-1). The project started in April 2015, coordinated by Atos with partners NEC Europe (United Kingdom), IBM Research (Switzerland), ETH Zürich (Switzerland), Eurecom (France), Arsys (Spain), GRNET (Greece),

SAP (Germany) and Morpho (France). More information about the project is available at [www.tredisec.eu](http://www.tredisec.eu). For information, please contact the project coordinator, Ms. Beatriz Gallego-Nicasio at [beatriz.gallego-nicasio@atos.net](mailto:beatriz.gallego-nicasio@atos.net)