

PUBLIC SELECTION BASED ON QUALIFICATIONS AND INTERVIEW FOR THE AWARDING OF NO. 1 EARLY STAGE GRANT LASTING 12 MONTHS FOR CONDUCTING RESEARCH PURSUANT TO ART. 22 OF LAW NO. 240/2010 AT THE DEPARTMENT OF MANAGEMENT, INFORMATION AND PRODUCTION ENGINEERING A.R.F. 09/H1 - INFORMATION PROCESSING SYSTEMS A.D. ING-INF/05 - INFORMATION PROCESSING SYSTEMS (TYPE B)

announced with decree of the Chancellor Rep. no. 263/2019 of 14th of May 2019 and posted on the official registry of the University on 14th of May 2019

RESEARCH PROJECT

Development of secure solutions for data management

Research structure: Department of Management, information and production engineering

Duration of the grant: 12 months

Scientific Area: 09 - Industrial and information engineering

Academic recruitment field: 09/H1 - Information processing systems

Academic discipline: ING-INF/05 - Information processing systems

Scientific Director: Prof. Stefano Paraboschi

The objective of the project is to operate on two fronts. On the one hand we intend to develop a solution for the secure management of data within the Android operating system, adapting the security services offered by SELinux to the protection of the resources of the individual applications. In this way, each application can achieve high protection against any vulnerabilities in the system. Another line of research concerns the development of techniques for the management of high-level security policies that specify the preferences of the data owner with respect to how data can be transmitted and manipulated, in a scenario in which one wants to realize a market for access to digital data.