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ITEA 3 is a EUREKA strategic ICT cluster programme

Exploitable Results by Third Parties

12010 CAP

Project details

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Name: IoT Processing Engine		
Input(s):	Main feature(s)	Output(s):
▪ Sensor data from house peripherals of various kinds ▪ Publicly accessible web services	▪ Combines different type of data with timestamp ▪ Serves as source for dashboards ▪ Anonymizes data	▪ Dashboard enhanced rules ▪ Raw data for detailed analysis

Unique Selling Proposition(s):	▪ Dashboard displays anonymized data without any private information; hence it can be purchased by third parties
Integration constraint(s):	▪ Cassandra 2.1.11 ▪ Java 1.8 ▪ Tomcat 9.0 ▪ Spark 1.6.1 ▪ Kafka 0.10.0.0
Intended user(s):	▪ End user (Data analysts)
Provider:	▪
Contact point:	▪
Condition(s) for reuse:	▪ Licencing

Latest update: 26 September 2016

Name: — Multitenant analytics platform		
Input(s):	Main feature(s)	Output(s):
▪ Different input data from different users ▪ Resource quota information ▪ Cluster information	▪ Extended Hadoop architecture-based metadatabase for improving multitenancy and system management ▪ Different types of fine-grained resource management (CPU, Memory, Disk, BlockIO, Network Priority) ▪ Multitenant scheduler with resource quota support by tenant/user/application ▪ Database-based centralized metadata persistence and access on demand for Hadoop File Systems ▪ Common interfaces for metadata managements of service applications (workflow, portal, etc.) ▪ Gateway-based restful APIs interoperating with various services (tools, workspace, etc.) ▪ Cluster Monitoring at different levels: system/tenant/user/application ▪ Sandbox provisioning automation for self-algorithm development + testing ▪ Data analytic service building via analytic workflow engine supporting different systems (Hadoop, Python, Spark, etc.)	▪ Platform gateway ▪ Platform manager ▪ Multitenant service

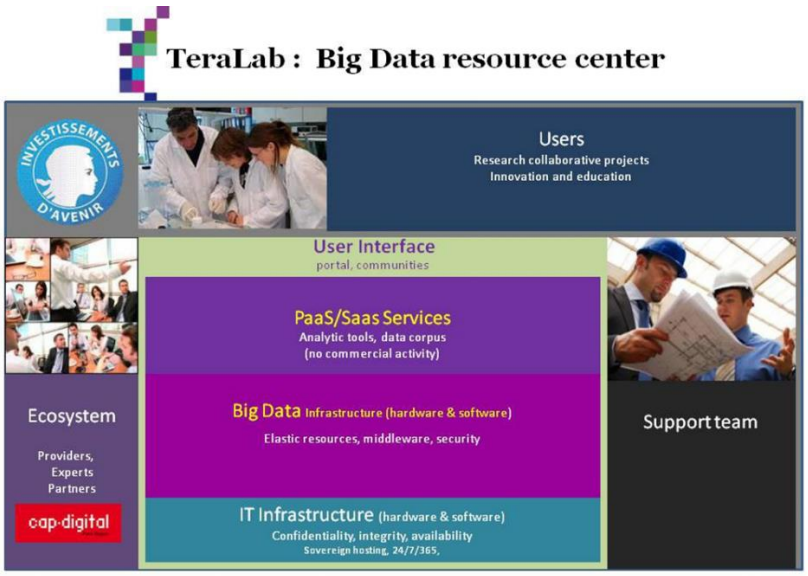
Unique Selling Proposition(s):	▪ A scalable, robust and high availability analytic platform for multitenant users
Integration constraint(s):	▪ A cluster of at least 7 linux servers for Advanced Multitenant Hadoop and extended or newly created software such as Spark, Kerberos, Analytic Workflow, Monitoring and Metadatabase. ▪ Java 1.7, Scala 2.10, Python 2.6, Tomcat 7.0, MariaDB 5.5
Intended user(s):	▪ Data owners, service developers, data scientists, and end users
Provider:	▪ Electronics and Telecommunications Research Institute (ETRI)
Contact point:	▪ hswon@etri.re.kr
Condition(s) for reuse:	▪ Licensing

Latest update: 4 October 2016

Name: Analytic workflow Tool		
Input(s):	Main feature(s)	Output(s):
▪ Analytic Algorithm Modules	▪ Provide a web-based intuitive workflow editor ▪ Automate modules executions on different big data systems ▪ Support multitenancy, authentication and authorization ▪ Offer restful analytic APIs ▪ Share/Reuse/Access Controls on analytic workflow components	▪ Analytic Results ▪ Analytic services ▪ Workflow Modules with customizable inputs/outputs

Unique Selling Proposition(s):	▪ Aggregatable and hierarchical analytic workflow and its execution engine for a variety of data analytics on different big data systems effortlessly
Integration constraint(s):	▪ A cluster of at least 5 linux servers for Advanced Multitenant Hadoop, and extended or newly created software such as Spark, Kerberos, Analytic Workflow, Metadata Managements. ▪ Java 1.7, Scala 2.10, Python 2.6, Tomcat 7.0, MariaDB 5.5
Intended user(s):	▪ Service Developer
Provider:	▪ Electronics and Telecommunications Research Institute (ETRI)
Contact point:	▪ hswon@etri.re.kr
Condition(s) for reuse:	▪ Licensing

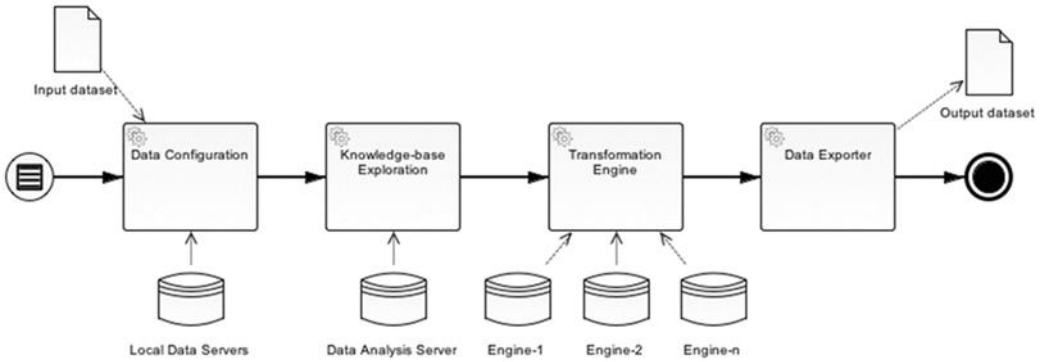
Latest update: 4 October 2016

Name: — TeraLab Multitenant Big Data Platform for Research Education and Innovation		
Input(s):	Main feature(s)	Output(s):
▪ **CAP Uses Cases in particular:** ▪ Geointelligence ▪ Sorting machine Logs ▪ Virtual Metrology		Promotion & Contribution to validation of platform technical architecture and service offer Accelerating take up of TeraLab platform in National and European R&I Data Innovation ecosystem
Unique Selling Proposition(s):	▪ Tera lab's mission is to provide research and innovation stakeholders with the technological resources needed to understand the implications of Big Data, develop analytic tools and solutions, and create value	
Integration constraint(s):	▪ The Infrastructure at TeraLab involves software, hardware and cutting-edge solutions dedicated to data analysis. It enables batch or real-time processing of hundreds of terabytes of usable data (excluding replication and compression).. TeraLab provides dedicated workspaces with a security level adapted to the sensitiveness of the data and the legal agreement of the data owner. The workspace is then ready to use for the partners preinstalled with a set of tools and the data of the project. This part is the big data sandbox, backbone of TeraLab. To complete the sandbox, TeraLab provides also services as analytics, access to an ecosystem of startups and SMEs, and of course data governance.	
Intended user(s):	▪ Data owners, service developers, data scientists, researchers, students	
Provider:	▪ Institut Mines Telecom	
Contact point:	▪ anne-sophie.taillandier@mines-telecom.fr	
Condition(s) for reuse:	▪ Pay per use , contacts based	

Name: Encryption by Fragmentation		
Input(s):	Main feature(s)	Output(s):
▪ Text still images video	▪ The encryption large datasets raise performance issues. Hence the idea of fragmenting in order to encrypt only the relevant part ▪ Versatility : Data can be of various types (text, image, sound, video) and from diverse backgrounds with diverse levels of security needs	**Publications ;** ▪ Fast selective encryption methods for bitmap images" H. Qiu and G. Memmi International Journal of Multimedia Data Engineering and Management 6(3), pp 52-70, July 2015. ▪ "Data Protection: Combining Fragmentation, Encryption, and Dispersion." G. Memmi, K. Kapusta, and H. Qiu, Key Notes at Int. Conf. on Security of Smart cities, Industrial Control System and Communications (SSIC 2015), IEEE, Shanghai, China, August 2015. ▪ "Data protection by means of fragmentation in distributed storage systems" K. Kapusta and G. Memmi, CFIP-Notere IEEE Conference, July 2015. ▪ "Fast Selective Encryption Method for Bitmaps based on GPU Acceleration." H. Qiu and G. Memmi IEEE ISM'14 Taipei, Taiwan, pp 155-158, December 2014.

Unique Selling Proposition(s):	Strong and massively scalable encryption method
Integration constraint(s):	TRL 4 development fragmentation solution needs industrialization
Intended user(s):	▪ All actors wanting to protect large volume of information with limited compute resources
Provider:	▪ Institut Mines Telecom
Contact point:	▪ Gerard.memmi@telecom-paristech.fr
Condition(s) for reuse:	▪ Patent pending
	Latest update: 4 October 2016

Name: Anonymization Solution: LAMANE Spinoff		
Input(s):	Main feature(s)	Output(s):
▪ Massive corpus of potentially privacy sensitive data	▪ The researchers developed a solution anonymization massive data-based software suite ADAPT (Advanced Data Anonymization & Privacy Tool) and dedicated to industrial. It allows them to quickly leverage their massive data from third parties, in a custom format, and in compliance with the criteria for protection of privacy ..	Data anonymized according to requirements

Unique Selling Proposition(s):	Anonymize personal data is to alter their content or structure so that it is very difficult or impossible to identify the users who they belong to. The challenge is to find the right compromise: do not remove too much information or data present more interest.
Workflow	
Intended user(s):	▪ All actors wanting to anonymize large volume of information according to owner and regulations requirement
Provider:	▪ Institut Mines Telecom spinoff LAMANE
Contact point:	▪ soulmakhzoune@gmail.com
Condition(s) for reuse:	▪ Goto market through LAMANE spinoff , in incorporation

Latest update: 4 October 2016

Name: LA POSTE		
Input(s):	Main feature(s)	Output(s):
▪ Raw set of data unanalyzed	▪ Different analyses operated on Teralab, multitenant big data infrastructure	▪ Ways to improve costs and quality for postal operations

Unique Selling Proposition(s):	▪ ▪
Integration constraint(s):	▪ Low integration constraints ▪
Intended user(s):	▪ Internal uses only
Provider:	▪
Contact point:	▪ alain.roset@laposte.fr
Condition(s) for reuse:	▪ ▪

Latest update: 4 October 2016

Name: geoIntelligence analytics platform		
Input(s):	Main feature(s)	Output(s):

▪ Twitter feeds
▪ Twitter crawling configurations (keywords and accounts to follow)
	▪ Real-time twitter analytics
	  ○ Topic clustering
	  ○ Community detection
	▪ A web portal for deep investigation of analytics results with GIS capabilities
		▪ Trending topics
		▪ Social media user communities
		▪ Various investigation dashboards with crisis mapping capabilities

Unique Selling Proposition(s):	▪ A scalable and elastic Big Data platform integrated unique analytics for geoInt applications ▪
Integration constraint(s):	▪ A cluster of at least 2 linux servers with HDP (Hortonworks Data Platform) installed + Spark, spark Streaming, Kafka, ElasticSearch ▪ Java 1.8 ▪ Scala 2.10
Intended user(s):	▪ PPDRs (Public Protection and Disaster Relief organisations)
Provider:	▪ Thales Communications & Security
Contact point:	▪ thomas.delavallade@thalesgroup.com
Condition(s) for reuse:	▪ To be discussed on a case by case basis
	Latest update: 4 October 2016

Name: Open Bouquet Analytics Framework		
Input(s):	Main feature(s)	Output(s):
▪ Relational Database System ▪ Next Generation SQL engines	▪ Scalable in-database analytics with smart cache & dynamic indexing, database vendor specific optimizations ▪ Zero-commute providing instantaneous data-source access ▪ Logical data modeling and meta-data management ▪ Restful Analytics API ready for application development and ad-hoc data exploration ▪ Multitenancy, authentication and advanced access control ▪ Ready to use generic analytics workbench and Javascript SDK for developing tailored business applications	▪ Restful Analytics API on top of data-sources ▪ Custom business model including rich data transformations ▪ Generic and custom analytics applications

Unique Selling Proposition(s):	▪ A unique Open Source Analytics API to access relational data-source without coding

Integration constraint(s):	▪ Server installation:
	  ○ Standalone edition: linux, macOS, Docker
	  ○ Platform edition: Teralab, AWS
	  ○ More details regarding installation: https://openbouquet.io/download/
	▪ Data-sources integration:
	  ○ Postgresql, MySQL, Oracle, SQLServer, Redshift, Greenplum
	  ○ Pivotal HAWQ, Hive, SparkSQL, Apache Drill

Intended user(s):	▪ Data Citizen, that is any person in an organization having to deal with analytics: application developers, business analysts, data scientist, business users.
Provider:	▪ Squid Solutions SA ▪ https://openbouquet.io & https://github.com/openbouquet
Contact point:	▪ serge@openbouquet.io
Condition(s) for reuse:	▪ GNU Affero General Public License ▪ Dual license for Enterprise edition

Latest update: 27 September 2016