



ITEA 3 is a EUREKA strategic ICT cluster programme

Exploitable Results by Third Parties

11009 FEDSS

Project details

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Website:	www.thales.com



Dynamic Process Integration Framework (DPIF)			
Input(s):	Main feature(s)	Output(s):	
 Sensor interfaces/cloud API Databases Arbitrarily complex algorithms (fusion, analytics) HMI 	 Automated information management/routing based on the needs and capabilities. Interoperability between heterogeneous services Processing in the cloud/edge 	 Composite analytics/fusion applications combining multiple, arbitrarily complex processes and data sources 	
Proposition(s):	awareness, planning and process automation. Simple and easy integration of existing/legacy systems. Open ended, Plug&Play service integration platforms Loose coupling between application and administration		
constraint(s):	ntegrated with MARTELLO (also available sta Currently requires AKKA middleware (can be p middleware, such as DDS, Enterprise bus, IOT	oorted to other	
- /i	System Integrators Application Developers (easy creation of interoperable interfaces for new apps) Component owners (enable a database as a service in a community of interest)		
Provider:	Thales Nederland B.V.		
Contact point:	Mike Balm <mike.balm@nl.thalesgroup.com< td=""><td></td></mike.balm@nl.thalesgroup.com<>		
Condition(s) for reuse:	Licensing: commercial use via agreed license	with Thales Nederland.	
		Latest update: 19.07.2016	





Martello Martello		
Input(s):	Main feature(s)	Output(s):
Data to be encrypted / decrypted	Key Management System	Encrypted DataDecrypted Data
Unique Selling Proposition(s):	Ease of Use. Simple and easy to integrate to provide content based security Loose coupling between application and	
Integration constraint(s):	Integrated with DPIF (also available star Needs an Access Control System (integ	
Intended user(s):	System Integrators Application Developers	
Provider:	Thales Nederland B.V.	
Contact point:	Mike Balm <mike.balm@nl.thalesgroup.< td=""><td>com</td></mike.balm@nl.thalesgroup.<>	com
Condition(s) for reuse:	Licensing: commercial use via agreed lic	cense with Thales Nederland.
		Latest update: 19.07.2016



Name: FEDSS Text Miner Component		
Input(s):	Main feature(s)	Output(s):
 Document collection containing unstructured textual data Large database with ship information Domain Ontology 	 Divides fully automatically document collection into document clusters with relevant keywords. Provides functionality to carry out refined search interactively for specific information and involved ships using compound search conditions. Focused on Naval Anti-Smuggling operations. 	 Produces document clusters related to different forms of smuggling operations. Overview of documents and involved ships matching the compound search conditions. Dynamic Word Cloud
Unique Selling Proposition(s):	 By changing the domain ontology other applications in the area of National Security, Anti-Cybercrime operations and Anti-Terrorism operations are possible. Fully parallel application based on the Matlab Parallel Toolbox. 	
Integration constraint(s):	 Matlab R2015a or higher for development purposes Matlab Runtime Environment when using the stand-alone application 	
Intended user(s):	End user Researcher	
Provider:	Thales Naval Nederland BV.	
Contact point:	Dr. Huub de Waard - huub.dewaard@nl.thale	sgroup.com
Condition(s) for reuse:	Licensing	
		Latest update: 20 July 2016



Name: LuciadRIA		
Input(s):	Main feature(s)	Output(s):
 Georeferenced vector and raster data Non-georeferenced vector data 	 JavaScript library for interactive 2D and 3D visualization of Geographical data in a web browser Visual analytics of data in a variety of interactive views 	 Interactive visualization component in any HTML web page
	most powerful geospatial visualization and analysis components for ML5 capable browsers. Interactive 2D and 3D visualization in a web browser without plugin technology (using 2D context and WebGL context of HTML5 canvas) Client side, geodetically accurate visualization of geographical data. Client side aggregation of multiple raster datasets and vector datasets in different geographical references. Support for interactive creation and editing of vector data. Rich styling API, support for labeling vector data with label decluttering Advanced visual analytics through heat maps and clustering. Out of the box support for OGC standards: WMS, WFS, OGC Filter, Symbology Encoding. Out of the box support for standardized vector data formats (GeoJSON, KML, GML) Possibility to visualize 100.000+ data points (WebGL rendering only). Support for live track feeds. Easily extensible because adheres to the Model-View-Controller	
Integration constraint(s):	HTML5 compliant Web browser (2D visualization Graphics card and up to date web browser for	•
Intended user(s):	Web developers looking to accurately visualize possibly dynamic data on an interactive map in	•
Provider:	Luciad	
Contact point:	tom.mahieu@luciad.com	
Condition(s) for reuse:	License	
		Latest update: 25/7/2016



Name: Secure Data Storage		
Input(s):	Main feature(s)	Output(s):
A byte array or string data containing sensitive information to be encrypted (Digital data, Dossier, etc.)	To aggregate the data in a privacy preserving way from data owner, secret sharing algorithms are used. The encrypted values are distributed among multiple stakeholders and individual storage nodes cannot read data. Multiple different data storage systems can be used, especially cloud-based systems.	A byte array or string data containing decrypted sensitive information (Digital data, Dossier, etc).
Unique Selling Proposition(s):	rogue cloud provider administrator, unforeseen implementation issues, etc).	
111091411011	 Max file size is 10mb to store. Need some work/collaboration for end user. Need Java API to integrate with the data storage systems. 	
Intended user(s):	Application Developers	
Provider:	Proline Bilişim Sistemleri ve Tic. A.S.	
Contact point:	Erdem Bozdag – erdem.bozdag@pro-line.com Banu Altay – banu.altay@pro-line.com.tr	n.tr
Condition(s) for reuse:	Commercial license to be negotiated; a free license research purposes.	cense can be provided for
		Latest update: 20/7/2016>



Name: Virtual Collaboration Environment		
Input(s):	Main feature(s)	Output(s):
People via a viewer installed on there PC or laptop to enter the virtual world to interact with others in the virtual world	 Collaboration between geographical dispersed group of people in a flexible virtual 3D environment Tool for support training activities and communication between trainees and instructors 3D audio for communication Support for desktop sharing, web browsing document display, interactive whiteboards, display of videos, and more complex 3D forms and behavior 	Collaboration/training on many fronts between people geographically dispersed in the world
Unique Selling Proposition(s):	Risk reduction in projects or activities that are geographical dispersed Multiple sources of information available at the same time	
Integration constraint(s):	of people using the tool simultaneously Servers for the VIP, documentation portal and other support tooling	
Intended user(s):	Users that want to collaborate or to be trained	
Provider:	Thales Nederland / Navel One	
Contact point:	■ Frank Rulof → frank.rulof@nl.thalesgroup.com	
Condition(s) for reuse:	 Most packages are Open Source however for instantiation, virtual world content, document portal and VOIP services a commercial license is to be negotiated 	
		Latest update25/07/2016



Name: Semantic Search		
Input(s):	Main feature(s)	Output(s):
 User queries expressed as fre text 	 Easy and powerful semantic search over big documents collections (intelligence reports, news, blog posts, social media data) 	 Documents semantically related with user query Main entities and concepts identified
Unique Selling Proposition(s):	 Easy and powerful semantic search over big (intelligence reports, news, blog posts, social Search about people, organizations, locations concept mentioned in a collection of document 	media data) s and any other semantic
Integration constraint(s):	 The service is exposed through a REST API. Any software platform able to interact with web services based on this technology can easily integrate semantic indexing capabilities. It must be combined with the Semantic Indexer 	
Intended user(s):	Organizations willing to take the most from their unstructured data. In many situations, manual intervention is needed to deal with unstructured data. This limits the amount of unstructured data that can be processed. Semantic indexing/searching technology allows for the automation of these processes, increasing the number of documents and reports that can be analyzed.	
Provider:	• s ngular	
Contact point:	jose.martinez@sngular.team	
Condition(s) for reuse:	On premise or SaaS Licensing	
		Latest update: 27 th July 2016



Name: SAFAX		
Input(s):	Main feature(s)	Output(s):
XACML policiesXACML request	 Evaluation of XACML policies Policy alignment Integration of credential-based and reputation-based policies within access control 	XACML response
Proposition(s):	SAFAX offers authorization as a flexible and exists a novel XACML-based architectural framework development of extensible authorization service collaborative systems. The key design principle that all components are loosely coupled service flexibility, extensibility and scalability needed to complex and distributed environments.	ork tailored to the les for distributed and e underlying SAFAX is es, thus providing the
constraint(s):	As SAFAX has been designed as a service, it of integrate in existing systems. SAFAX can be a programmatically using software clients.	·
Intended user(s):	application developers and researchers	
Provider:	Eindhoven University of Technology	
Contact point:	Nicola Zannone (n.zannone@tue.nl)	
` '	commercial license to be negotiated; a free lice research purposes.	ense can be provided for
	La	atest update: 02 August 2016





Name: Integrated Coastal Surveillance System			
Input(s):	Main feature(s)	Output(s):	
 Surveillance Sensors (Radar, AIS Base-station, EO Devices, othe surveillance systems Operation Center 	 Distributed processing, fault tolerant, redundancy Compliancy to related standards Service oriented architecture Extendable / scalable Effective use of middleware and high performance graphic libraries (GPU utilization) System Management Track management (2/3D) Compilation of White Picture and Recognized Maritime Picture Secure information exchange with external systems SAR support 	 Application software to meet the coastal surveillance task Turn-key solution if requested by customer including survey, system design, sensor and other hardware components. 	
Proposition(s):	 Designed and developed with utilization of COTS components Utilization of new technologies High performance low operational cost 		
Integration constraint(s):	No constraints if ICD is provided		
Intended user(s):	Port / Transportation Agencies Marine traffic control Government agencies (Navy, C/G, etc)		
Provider:	YALTES Electronic		
Contact point:	Fikrettin EMANET		
Condition(s) for reuse:	Licensing		





Name: Digital TV Video Distribution			
Input(s):	Main feature(s)	Output(s):	
EO SensorsOperation Center Hardware	 Real-time Video Stream over Ethernet Network Low latency (< 100 msec) GPU utilization 	 Application software to display the TV video on display 	
Proposition(s):	 Utilization of new technologies High performance low operational cost 		
Integration constraint(s):	No constraint for well-known video formats (PA	AL, NTSC etc)	
` '	Surveillance System / Marine Traffic Control C Command and Control Operators	Operators	
Provider:	ALTES Electronic		
Contact point:	Fikrettin EMANET		
Condition(s) for reuse:	icensing		





Name: Mission System			
Input(s):	Main feature(s)	Output(s):	
Surface Platform with sensors and weapons capable to meet operational requirements.	 System / Operator Management Local Track Management Identification and classification Exchange of Network Tracks on WAN Display of White Picture / RMP on display compliant to APP-6 and Milstd-2525 symbols, digital charts Structured / Unstructured text message exchange Gun Designation SAR operation 	 Application software Operator console with required hardware 	
Proposition(s):	 Utilization of new technologies High performance low operational cost 		
Integration constraint(s):	lo constraint		
Intended user(s):	Coast Guard and Navies		
Provider: Y	ALTES Electronic		
Contact point:	ikrettin EMANET		
Condition(s) for reuse:	icensing		



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Name: Gesture Library					
Input(s):		Main feature(s)	Output(s):		
■ Touch Panel PC		 Creation User Defined Gesture Library for naval application for harsh environment 	 Recognized gesture event 		
Unique Selling Proposition(s):	 Easy to use Developed using ECMAScript (JavaScript) Runs on known touch enabled devices 				
Integration constraint(s):	No constraint				
Intended user(s):	Application software developer for all moving platforms				
Provider:	YALTES Electronic				
Contact point:	• F	ikrettin EMANET			
Condition(s) for reuse:	• [icensing			



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Name: Message Handling System					
Input(s):	Main feature(s)	Output(s):			
Console hardwareIP network	 ADat-P3 compliant message creation / delivery Text Message Support Light-weight solution 	Application softwareOperator console with required hardware			
Unique Selling Proposition(s):	 Does not require a persistent communication medium. Task assignment, monitoring of asset status, 				
Integration constraint(s):	No constraint				
Intended user(s):	Coast Guard and Navies				
Provider:	YALTES Electronic				
Contact point:	Fikrettin EMANET				
Condition(s) for reuse:	Licensing				





Name: Environment Simulator					
Input(s):	Main feature(s)	Output(s):			
 Application Software Configuration Files 	 Developed over NASA Worldwind Capable to reflect realistic operational environment with support of elevation data, images etc. Capable to create random tactical object (air, surface, sub-surface and ground) with randomly assigned kinematics Each platform may be configured with set of sensors and weapons. Able to support 5000 objects with 1 hz update rate. 2/3D visualization Creation of navigation routes and assignment to created objects. Integration of external platform simulator to operational environment. 	Realistic operational environment which fulfills the well-known sensor simulator input data.			
Proposition(s):	easily Scenarios can be recorded and re-played High performance				
constraint(s):					
Intended user(s):	Surveillance System and Command and Control System developers				
Provider:	YALTES Electronic				
Contact point:	■ Fikrettin EMANET				
Condition(s) for reuse:	Licensing				

Latest update: <INSERT LATEST UPDATE DATE HERE>





Name: Kinematic Anomaly Detection Engine for Ship Tracking Applications					
Input(s):		Main feature(s)	Output(s):		
AIS or radar tracks of marine vessels.		Detects and marks the pre-defined behavioral anomalies on processed AIS or radar tracks with machine learning techniques.	Detected anomalies on marine vessel behaviors.		
Unique Selling Proposition(s):	Real time automatic detection and reporting of abnormal and suspicious behaviors of marine vessels tracked over a region, which may contain hundreds to thousands of vessels those cannot be tracked and evaluated by human operators. The system is designed as a distributed system and the capacity can be expanded as required.				
Integration constraint(s):	Apache Spark 1.6.0 – prebuilt for Hadoop 2.6				
Intended user(s):	Maritime traffic surveillance / tracking system developers				
Provider:	C2TECH				
Contact point:	Gokhan Nas – gokhan.nas@ctech.com.tr				
Condition(s) for reuse:	Licensing				
		Late	st update: <17 August 2016>		