

GERMAN GULF AVIATION SERVICES

Tool Control Management and RFID Solutions



Nexess

• References

Nexess develops and implements industrial RFID solutions for Supply Chain, Manufacturing and MRO (Maintenance, Repair and Overhaul) in the Aerospace, Energy (Nuclear) and Oil & Gas industries.

- Innovative company, French OSEO excellence.
- RFID Award 2013 for best RFID deployment in the Energy Industry.
- IoT Award 2015 for best industrial service.



Aerospace

AIRBUS
GROUP

ThalesAlenia
Space

SAFRAN
AEROSPACE-DEFENSE-SECURITY

sabena
technics
TAT GROUP

AIRFRANCE
INDUSTRIES

DASSAULT
GROUPE



Energy

cea

socodei
GROUPE EDF

EDF

SPIE

COFELY ENDEL
GDF SUEZ



Other industries

ARKEMA

sanofi aventis
Bioscience

TOTAL

SOCOTEC

INEOS

CAMERON

vallourec

Smart Industry

- New technologies

Internet of Things

- ④ Contactless identification of object and person
- ④ Network deployment, mobility
- **Real-time monitoring and automatic detection**

Data

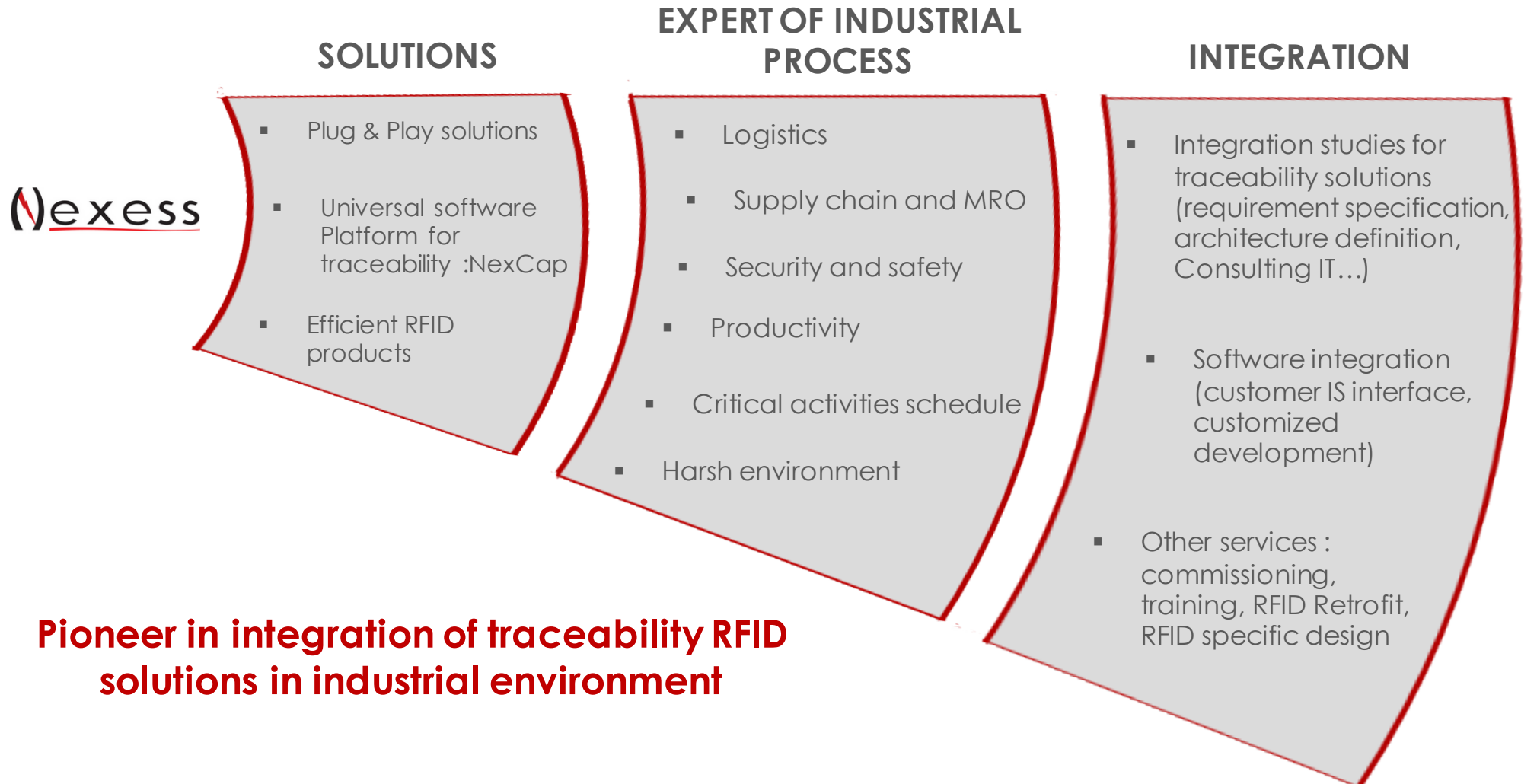
- ④ Field reality
- ④ Reliable information
- **Exploit new data**

People

- ④ Operator interaction – increase safety and security
- ④ Support to supervision and decision - Reporting, Dashboard
- **Reliable and continued assistance to people**



New technologies enable digitalization of process



Pioneer in integration of traceability RFID solutions in industrial environment

Added Value

- Final Assembly Line & MRO

Increase TCQ (Time, Cost, Quality)



- Reduced material search time
- Reduced material inventory time
- Optimized material and tools distribution
- Increased material and tools availability



- Reduced storage costs
- Reduced theft attempts
- Reduced maintenance costs



- Reduced FOD Risk
- Reduced TAT (Turn Around Time)
- Reduced non quality costs
- Traceability of operations



Traceability of assets

- FOD Risk

Foreign Object Damage is the risk of foreign body presence (tools, material, equipment, etc.) in the aircraft or on the tarmac.



DIRECT COSTS

- Repair costs caused by FOD can exceed **\$1Million**
- Damage costs caused by FOD can exceed **20% of original part price**

INDIRECT COSTS

- Production or maintenance delay
- Flight delay or cancellation (Casual charter of an aircraft, air-crew organization, etc.)
- Injury risk

Reduction of risk related to human error

Innovative Solution

- Automatic tools management

Nexess offers innovative solution for material traceability and management in the aeronautic industry

Material identification



RFID chip retrofitted on each material. Unique identification

RFID Infrastructures or mobile devices



These devices records automatically each tools movement.

Real-time monitoring



Administration and monitoring from a computer.

Nexess products

- Infrastructures and mobile devices

Smart Cabinets (RFID, weight)

XL & XL-Weigh

- ④ Automatic inventory
- ④ RFID or weight-sensing Technology
- ④ Plug and Play
- ④ Access control
- ④ Material Management
- ④ Maintenance and Calibration management
- ④ Visual and audio alerts
- ④ Borrow and return monitoring
- ④ Consumption and supply monitoring



AUTONOMOUS

Smart RFID Roller Cabinet

XD & XD-S

- ④ Automatic inventory
- ④ RFID Technology
- ④ Plug and Play
- ④ 4 to 8 drawers
- ④ Mobility
- ④ Access control
- ④ Material Management
- ④ Maintenance and Calibration management
- ④ Visual and audio alerts
- ④ Borrow and return monitoring



AUTONOMOUS

Smart RFID Counter

NexCap® RFID Counter

- ④ Automatic inventory
- ④ RFID Technology
- ④ Plug and Play
- ④ Maintenance and Calibration management
- ④ Store security



WITH STOREKEEPER

Mobile RFID Reader (Tablet, PDA)

NexCap® Mobile Assets Tracking

- ④ Automatic inventory
- ④ Monitoring of tools movements
- ④ Mobile RFID tracking
- ④ Regulatory control
- ④ Logistic
- ④ Plug and Play



MOBILE

Data reporting

- Dashboard

NexCap® IoT Platform : Intuitive and Visual IHM for data reporting



Real time information

- Current state of tools (borrowed /returned /Out of order ...)
- Alerts (calibration date...)
- Statistics
- Ratings



Characteristic

- Customizable (edit mode)
- Consultation mode
- Computer, laptop and tablet

Added value for Metrology

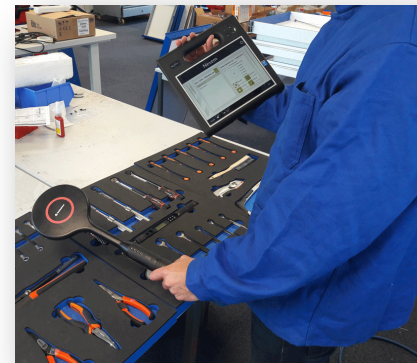
- Monitoring of metrology and measuring equipment

Added value for metrology

- Unique identification (type, reference, manufacturer, etc.)
- Equipment history file
- Monitoring of calibration date
- Monitoring of maintenance date
- Visual and audio alerts
- Use statistics
- Torque tester interface



Nexess solutions





**Solutions for your problems is our
business**



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