RFID & WIRELESS IOT TOMORROW 2018

PROGRAMME

Find the current programme and register at WWW.RFID-WIOT-TOMORROW.COM

RFID & WIRELESS IOT

User Day
Forum 1 + 2
Automotive Industrial IoT

User Day
Forum 3
Logistics & Supply Chain

User Day
Forum 4
Retail & Logistics

User Day
Forum 5
Healthcare

User Day
Forum 6
Consumer IoT & Smart City

Developer Day
Forum 1–4
Innovations Technology System Integration Markets
The focus of the User Day – Tuesday, October 30th – is technology user networking and the presentation of the latest wireless IoT use cases. Manufacturing, logistics, healthcare, retail and consumer IoT – RFID & Wireless IoT tomorrow offers the application of technology expertise in six forums.

On Developer Day – Wednesday, October 31st – the spotlight will be on developers, experts, consultants, and product managers. With talks and presentations in four forums, the Developer Day gives a stage to creative visions for wireless IoT technologies like RFID, BLE and LPWAN for current and future applications.
时间管理与分布

汽车工业

最新RFID硬件与物联网技术发展

高效过程在数字化的汽车工业

最近在无线物联网技术方面的开发在汽车工业中提供了清晰的背景和可能性，尤其是在对复杂过程的控制和跟踪方面。通过RFID和物联网技术，可以实时跟踪汽车零件在供应链中的位置，从而提高效率和精确度。RFID系统在汽车供应链中的应用可以实现100%的控制，确保装卸货物的精确性。RFID支持的出库物流在汽车制造商大众的生产和供应物流中也实现了显著的节约。RFID可以支持车辆物流在早期检测出装车错误，从而避免不必要的资金和资源的浪费。
**FOCUS TOPICS!**

- IoT strategies from the POVs of a medium-sized manufacturing company
- New market shares made available by digitalisation
- Standardised RFID and IoT usage in production at Bosch
- LPWAN in demanding environments
- OPC UA connectivity
- The oil and gas industry in Nigeria
- Digital twin
- RTLS for industrial production
- Sensor technology for maintenance

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**INDUSTRIAL IoT**

**Forum 2**

**Industrial IoT, USER DAY**

**October 30 2018**

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**BOSCH**

**DR. GERO SCHEYING**

Director Center of Competence RFID@Bosch / ROBERT BOSCH

**DIGITAL PRODUCTION & LOGISTICS**

Key aspects of digital transformation in industrial manufacturing & logistics

From the perspective of Bosch, an automotive supplier as well as manufacturer and developer of mobility solutions, industrial, energy, building and consumer goods technology, Dr. Gerd Scheying presents the main aspects and challenges of the digital transformation of industrial manufacturing and logistics towards the realisation of Industry 4.0.

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**RAPID PRODUCTION**

**DIETER HÖRST**

Head of Product Management

**Siemens**

**Rapid production**

Combining industrial identification and real-time tracking solutions to implement innovative concepts such as the digital twin

Within industry, RFID technologies are not a matter to prepare for – we are already far into the middle of digital transformation. Dieter Hörst gives an overview and outlook on technologies implemented in today’s industrial manufacturing process as well as innovations that will change tomorrow’s production processes.

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**RUGGED LPWAN COMMUNICATION**

**Ferdinand Kemeth**

Group Leader / Fraunhofer Institute

**Fraunhofer**

**MIOTY – The new LPWAN standard for industrial IoT in mining and more**

Research for the new, robust LPWAN standard started in 2011, and since 2016 the MIOTY applications have been tested in demanding fields like mining and the metal industry. Now, the standardisation process has been finished and the new standard is ready for operation. Ferdinand Kemeth introduces features, fields of application, and benefits of the new transmission format.

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**OPC UA is the global standard for the implementation of automated and innovative Smart Factory concepts**

In 2017 the OPC Foundation published multiple important developments like a publish/subscribe model. In 2018, the foundation introduced and adjusted a global interoperability standard for Industry 4.0 and the IoT with new publications and a new companion specification, which Stefan Hoppe will introduce in his speech.

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**PREDICTIVE MAINTENANCE**

**Dr. Andreas Weder**

Development Team Leader / Fraunhofer Institute

**Fraunhofer**

**Wireless monitoring of rotating parts avoids production downtimes**

Optimising processes with the help of RFID sensors ensuring the function of machines is a focus point for the team at the IPMS. Despite the challenges in complex environments, the use of RFID sensors enables the monitoring and maintenance of machines before malfunctions affect production.

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**RFID IoT Development Opportunities in Africa – Nigeria as a Case Study**

**Dr. Daniel Omofoman**

Founder RFID Center Nigeria / RFID African Foundation

**Mineral Oil Industry**

The Nigerian mineral oil industry is one of the biggest economic forces in Africa. The industry stakeholders invest in new RFID and IoT technologies to optimise the outcomes. Dr. Omofoman is not only leader of a delegation looking for business opportunities in Europe, but also helps foreign corporations to have a smooth business start in Nigeria.
AnDReW PRiCE
Morning Session
10:30 to 12:00
LOGISTICS & SUPPLY CHAIN
Forum 3
Logistics, USER DAY
October 30 2018

FOCUS TOPICS!
• Disruptive business models for the supply chain
• Container management with RFID
• The benefits of sensor data acquisition for the supply chain in the IIoT
• Digital logistics concepts with resilient tracking solutions
• Real-time asset management for ground support equipment
• The digital benefits of RFID and the IoT for cabin production
• Avoiding loading failures and loss of baggage with UHF RFID technology

EVA KOMENDER
Director Product and Development / TRAVEL SENTRY
BAGGAGE LOGISTICS WITH UHF
No more lost baggage! Is a permanent embedded RFID tag the key?
Reducing mishandled bags is a crucial topic for the air transportation industry. Permanent Rain RFID tags or dual Rain NFC tags on bags could provide benefits to airlines and airports as well as to customers. And not only flight-related processes can be optimised. Eva Komender will show how tag-based solutions by Travel Sentry can help to streamline luggage supply chain management from factory to retail store or enable at home baggage check-in.

OLAF POENICKE
Research Manager / FRAUNHOFER INSTITUTE For Factory Operation and Automation IFP
ASSET MANAGEMENT AT LEIPZIG AIRPORT
IoT-based Asset Management for Ground Support Equipment (GSE) for Blumenbecker Technik at Leipzig Airport
Thanks to efficient airport logistics, the infrastructure in place can be used effectively, instead of investing in cost-intensive extensions. By means of professional expertise acquired in the course of several years in the field of aviation, the Fraunhofer IFP implemented and tested an IoT-based solution for Asset Management at Leipzig Airport.

ANDREW PRICE
Head of Global Baggage Operations / IATA
BAGGAGE TRACKING STANDARDISATION
Global Implementation of the IATA Baggage Tracking Resolution 753
IATA Resolution 753 on baggage tracking is intended to encourage airlines to further reduce mishandling by implementing cross-industry tracking for every baggage journey. Since June 2018, the Association has been working on a deployment plan that sees IATA standard RFID Inlays in all baggage tags. Now IATA will align its partners in the value chain so that all involved parties can achieve the industry’s vision to begin rolling out this RFID-based baggage tracking from 2020 onwards.

www.rfid-wiot-tomorrow.com/forum-logistics-supply-chain
Morning Session
10:30 to 12:00

RETAIL & LOGISTICS

Forum 4
Retail, USER DAY
October 30 2018

FOCUS TOPICS!

• RFID usage in retail makes "unmanned stores" possible
• Will digital retail replace traditional retail?
• Service robots: the intersection of the store, the digital experience, and the customer
• Supply chain and store: Retail companies and chains employ RFID
• Dual frequency technology
• Digital business transformation: fast and effective
• NFC in sports

Afternoon Session
15:00 to 17:00

SMARTRAC
Connect things

PROF. DR. GEORG RAINE R HOFMANN
Information Management Institute / ASCHAFENBURG UNIVERSITY of Applied Sciences & Competence Group Leader E-Commerce – University of the Internet Industry

DIGITAL RETAIL
Acceptance factors for new technologies in stationary and digital retail trade

With the comprehensive introduction of the barcode in the 1980s the movement towards automation began. RFID is the consequent step forward from half to full automation. To permeate the market long term, new future stores require smooth technology processes and extensive trust in the technology by the customers. Only that which generates benefits for customers is going to stay long-term. Prof. Dr. Georg Rainer Hofmann from the Aschaffenburg University of Applied Sciences describes how offline and online retail profit together from the transformation.

FREDERIK THOMAS
CEO & COO, Digital Executive / INTERDISCOUNT

The use of RFID to enhance customer experience, reduce costs and achieve new levels of process optimisation in retail

Consumers increasingly look for items online and make at least a partial decision before going to a store. This change in consumer behaviour increases the importance of item availability. This lecture underlines the importance of RFID-assisted product visibility and inventory accuracy in retail today – and how they can produce tangible benefits for retailers and customers.

JORDI BAETA
Market Development Manager Information Solutions RFID – MBS EMEA / AVERY DENNISON

ANTICOUNTERFEIT & BRAND PROTECTION – Solutions and Innovations

How to create strong, secure connected products. Overview on cloud services for tag validation and authentication. Key features and selected RFID technologies will be presented with a special demo based on new ICs available in the market soon.

GIOVANNI CODEGONI
Sales Director / LAB-ID

Ralf Kodoritsch
Director global Segment Manager RFID Solutions / NXP SEMICONDUCTORS

THE FUTURE OF RETAIL
Unmanned Stores – a completely new experience in retail enabled by RFID

More than a mere vision of the future – the first unmanned stores are already open for business. But is it a concept that will displace traditional retail in the future? Thanks to RFID technology, there is nothing standing in the way from a technical standpoint. Ralf Kodoritsch from NXP explains how recent innovations in the stores of tomorrow can be realised.
DIGITISATION AT ASKLEPIOS
RFID is set in sterile goods supply – and a first step in the digitisation and automation of the sterile goods departments in the Asklepios Group.

Tagging assets in need of sterilisation is a special challenge in harsh environments for the hardware.

Asklepios, one of the biggest hospital providers in Germany, comprehensively introduces the technology. Sadmir Osmancevic reports on his experience on a small and a large scale – for guaranteed safety for health care providers and patients.

THORSTEN BRAAS
Director Sales EMEA / Industry Region
DACH / SMARTRAC TECHNOLOGY GROUP

STORAGE TECH
MINI PNEUMATIC DELIVERY + MINI AGV

Increasing inventory availability and delivering accuracy while enhancing patient safety – the Pharma industry is a business with high-priced goods with extraordinary demands for a perfect cool chain. Introducing RFID to the pharmaceutical industry brings benefits to patients as well as producers.

TAXI

Transportation is done in a safe and efficient way. The use of Gas Taxis can reduce costs while ensuring the safety and satisfaction of the patient.

DOK - GERMANY

A mini pneumatic delivery system for pharmaceuticals and medical supplies.

Smart Logistics

A new logistics solution for the healthcare industry, providing innovative ways to handle workwear.

ANDERS BERGFELDT
CEO / TEXI

TEXI MISSION
Efficient textile logistics in the clinical environment under high hygienic conditions

TEXI provides innovative ways to handle workwear with technologies providing a complete overview of the flow of personnel clothing. With its specialised solutions in the field of high hygienic environments, more efficient logistics and a reduction in costs can be achieved.

LAVANDA AMBULANCE

AMBULANCE WASHING & DRYING

The use of modern textile logistics and washing technology can improve operational efficiency, reduce costs, and increase patient satisfaction.

THOMAS KRAMER
General Manager

LAVANDA AMBULANCE

UPGRADE

A new system for the ambulances with the latest technology.

SMARTRAC

CONNECT THINGS

INNOVATIVE RFID APPLICATIONS IN THE PHARMACEUTICAL INDUSTRY TO IMPROVE PATIENT EXPERIENCE AND COLD CHAIN MONITORING

Innovative RFID applications in the pharmaceutical industry to improve patient experience and cold chain monitoring.

SMARTRAC

THORSTEN BRAAS

Director Sales EMEA / Industry Region
DACH / SMARTRAC TECHNOLOGY GROUP

RFID ACCELERATES WORKFLOW FOR BETTER HEALTHCARE

Khaled Mohamed Ezz El Din reports on the state of introducing RFID and successful implementation for healthcare in MENA with special emphasis on the Gulf countries, to improve the workflow by optimising integrated applications.

WORK OPTIMISATION

KHALED MOHAMED EZZ EL DIN
Regional Manager / INVEOX FOR SYSTEMS & IT

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PHARMACEUTICAL COLD CHAIN

Innovative RFID applications in the pharmaceutical industry to improve patient experience and cold chain monitoring.

CARDINAL HEALTH

SPECIAL澤

Specialed products for healthcare providers.

SMARTRAC

THORSTEN BRAAS

Director Sales EMEA / Industry Region
DACH / SMARTRAC TECHNOLOGY GROUP

Innovative RFID applications in the pharmaceutical industry to improve patient experience and cold chain monitoring.

CARDINAL HEALTH

SPECIAL泽

Specialed products for healthcare providers.
The City of Martinfeld equips intelligent street lighting with a LoRaWAN network - the SMART-infel project shows how it works.

The ambitious goal: to create the highest density of IoT applications in a municipality in Germany. As a first step on the way to a Smart City, the municipality of Martinfeld is converting its street lighting to intelligent LED luminaires, but other digital citizen services such as waste management are also planned. The technical basis for this and other planned projects is a LoRaWAN network.

**Programm rfid & Wireless iot tomorrow 2018**

**Morning Session**
10:30 to 12:00

**Focus Topics!**
- Disrupting the mobile ticket market: Access and security features of the new ticketing process
- LoRaWAN solutions
- Smart campus solutions with RFID in Brazil
- The IoT in waste management: how to save costs and time with network applications
- RFID document management
- Digital cars: Wireless applications to enable stress-free parking

**Smart Campus FACENS**

**Student Life on the Smart Campus**

**Facens**

**Professor Dr. Regiane Relva Romano**
Head of informatics / Head of research & development

On the smart FACENS campus, young engineers develop the technology for tomorrow’s smart cities - and try it out for themselves on their own campuses. Prof. Dr. Regiane Relva Romano explains the eight pillars of smart coexistence in the city and presents selected student projects that inspire living research in educational institutions all over the world.

**DISRUPTING THE MOBILE TICKET MARKET: ACCESS AND SECURITY FEATURES OF THE NEW TICKETING PROCESS**

**Philipp Hoyer**
CTO / Verteilnetzwerktechnik / Head of Research & Development

Using Bluetooth and RFID, Philipp Hoyer and HID Global present an application for Electronic Trusted Ticketing. Whether at large events or for hotel guests, it can open up new experiences and business opportunities. Thanks to a combination of access control, Bluvision, and mobile wallet technology, a new way of purchasing and using tickets is established.

**DOCUMENT MANAGEMENT**

**RFID reduces service time for a better customer experience**

The world’s largest installation of an RFID document tracking system: OCGTech has integrated a system with 1,006 reading points for the public prosecutor’s office in Qatar to be the foundation of different integrated applications utilized in different phases. With modern hardware and adaptable software, authorisation verification, accurate location information, and print modules can be realised across the smart campus of the Public Prosecution. Bureaucratic delays can thus be reduced and costs and time saved.

**PROF. DR. RüDIGER KERN**
Professor of Building Materials Science / University of Applied Sciences Mittelhessen (THM)

**MOBILITY ASSISTANCE**

**RFID-supported electronic guidance system for the blind**

In a publicly funded cooperation project, the Technical University Mittelhessen – represented by the Centre for Blind and Visually Impaired Students (BiZ), the Faculty of Construction – together with the company Papenmeier, has developed a UHF RFID-supported guidance system for the visually impaired. This system should help partially sighted people to better find their way in life, especially with regard to orientation and information procurement in busy inner-city places.

**KHALED MOHAMED EZZ EL DIN**
Regional Manager / OCGTech for ID Systems & IT Solutions

**UNIVERSITY OF APPLIED SCIENCES MITTELHESSEN (THM)**

**SMART PARKING**

**Intelligent parking: The car park becomes digital**

Parking without tickets, without cash, without stress - easier, faster, more convenient. The APCOA FLOW platform already enables smart parking in 200 car parks. Thanks to RFID chips, cars and garages can be linked together. Andreas Henninger, IT Program Officer at APCOA Holding, presents smart parking concepts that already cover 100,000 parking spaces throughout Germany.

**PROF. DR. REGIANE RELVA ROMANO**
Head of Research & Development / Head of Informatics

**INTERNATIONAL BUSINESS DEVELOPER / COMPTA EMERGING BUSINESS**

**WASTE MANAGEMENT**

**IoT is the key to the efficient waste management of more than 40 cities**

With BEEZWASTE, Compta Emerging Business introduces cloud management software that optimises urban waste management in 40 cities in Europe and South America. By interacting with a wide range of IoT sensors, the appropriate methods can be adapted to each city.

**VASCO CORREIA**
International Business Developer / Compta Emerging Business

**THE IoT IN WASTE MANAGEMENT: HOW TO SAVE COSTS AND TIME WITH NETWORK APPLICATIONS**

**Andreas Henninger**
Program Officer / APCOA Parking Holding

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Innovations today’s RFID systems are naturally designed for rather low data rates and therefore occupy low bandwidth, if the RFID tag is surrounded by local scatterers being quite common for typical environments. Precision localisation with centimeter or even down to (sub-)millimeter accuracy may require enormous bandwidth, if the RFID tag is surrounded by local scatterers being quite common for typical environments.

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Current research topics of „Selective RFID Read-out“ – direction and movement estimation, localization of RFID Tags

In safety-critical applications, maximum reliability is indispensable – for example in production or logistics. It is therefore crucial to know where people and objects are and where they are going. Localisation systems can increase safety in sometimes life-threatening situations, such as those of rescue services.

How to accelerate app development, accuracy and integration to achieve successful RFID & IoT solutions.

A guide to developing intelligent edge solutions

Software is the beating heart of any intelligent solution. Together, hardware and software shape the performance of RFID systems. VTT has taken a wide R&D approach to RFID and wireless sensing which is supported by extensive interdisciplinary know-how and in-house technology platforms. Our activities cover RFID and wireless systems from low frequency to mm-waves. VTT develops novel solutions to improve the performance of RFID systems.

The latest UHF RFID reader and transponder chip developments support large-scale bag tracking applications

The air travel industry has recently agreed to the transition of airlines and airports from barcode-based baggage tags to RFID-enabled tags. Carl Brasek highlights the importance of this shift in the worldwide aviation industry. He also presents an upcoming baggage tag technology announcement, which allows for saving 3 billion US dollars in the air travel industry by 2023.

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FOCUS TOPICS!

- The latest chip developments focus on resilience, intelligence, and security
- Increased reading and writing performance of readers and transponders
- Application-specific RFID tag development
- Advantages and disadvantages of customisation: Custom-built UHF labels as an example
- Product protection with electronic seals
- Multi-frequency reader modules for secure authentication
- Hybrid solutions: UHF & NFC in one chip – nice-to-have or a crucial development?
- RFID printers

RICHARD AUFRÉITE
Director Product Management / Identification Technologies / HID GLOBAL

TRANSPOUNDER VERSUS MANIPULATION
Tamper Evident RFID – when security matters

As RFID and BLE technology becomes adopted in an increasing number of scenarios, it turns out that for some of these use cases it is very important that tags and items are affixed to stay together and that tags cannot be cloned. This session will describe several physical, cryptographic and RFID aspects of implementing tamper evidence in RFID tags and describe related real-life implementations.

RICHARD AUFRÉITER
Director Product Management / Identification Technologies / HID GLOBAL

CUSTOM-TAG DEVELOPMENT
The path from development to the first custom RFID tag for sports timing

The unique challenges in the field of sports timing made Nikias Klohr from Race Result and technology partners develop their own custom tags. Despite industry reservations, Klohr encourages other stakeholders to follow his lead and he asks reader developers to optimise their business.

NIKIAS KLOHR
CTO / RACE RESULT

ELATEC

BURHAN GÜNDÜZ
Global Account Director, Secure Printing Applications / ELATEC

NFC, BIOMETRICS AND SMART CARDS
User ID authentication via RFID/NFC/BLE

Similar to RFID badges, BLE can be used for identification thanks to hybrid cards that are able to read RFID as well as BLE transponders. In cases like opening restricted access doors to emergency rooms or similar fields of application, where distances of multiple meters have to be taken into account, the correct technology or a combination thereof has to be chosen.

STEVEN R. SCHAUER
Product Marketing Manager / ALIEN TECHNOLOGY

UHF CHIPS AND READER
Passive RFID: The Essential Data Collection Backbone of IoT

Alien Technology has over 15 years of experience designing UHF passive RFID inlays and the semiconductor chips on them, as well as the readers that facilitate the combination. For the first time at the RFID & Wiot tomorrow, the Director and Product Marketing Manager will introduce realised products and applications by Alien Technology.

ALEXANDER ABELEN
Sales Director / Smart Industries / CONFIDEX

LATEST ROBUST RFID TAGS
RFID tags and labels are intelligent power packs: high temperatures and pressures, complete environment, chemicals – no hurdle is too high

With advancing experience and new innovations, more extreme environments for the use of RFID tags can be overcome. No matter whether high temperature or pressures, chemicals, or metal environments, there are specific solutions to basically all customer demands.

STEVEN R. SCHAUER
Product Marketing Manager / ALIEN TECHNOLOGY

LEXMARK

PETER ALBRECHT
Industry Consultant Manufacturing / Global Marketing / LEXMARK

RFID AND MULTIFUNCTION PRINTER
Maximise your RFID processes with a single do-it-all device

RFID is changing the landscape of production and shipping worldwide. But with printing one’s own labels with a colour laser printer, a whole new level of process maximisation in organisation can be reached.
AEG ID

SIMON ARCH
Marketing and Sales Director / AEG ID

RECOMMENDATIONS FOR EFFICIENT RFID INTEGRATION
‘Making ID easy’ – or: how to optimally integrate RFID into your processes

The RFID manufacturer AEG ID develops and produces customized transponders and readers for end users and system integrators globally. With 30 years of experience, AEG ID is working in multiple branches and supported many RFID launches. Simon Arch explains in this speech, how you can make sure that your RFID integration will be successful.

DEBANGANA MUKHERJEE
Director of Business Development & Sales / CISC SEMICONDUCTOR

READER TEST TOOLS WORLDWIDE
Understanding the sensitivity of RAIN RFID readers

Every RAIN RFID reader needs to be accurate and efficient and must have good sensitivity in order for it to detect the tag signal in background noise. But sensitivity of the reader is limited by different factors. But what is meant by term sensitivity? What is the performance expected from readers at this point in time? What are the factors affecting the sensitivity? Through this presentation let us understand the term “sensitivity of the reader” and look into factors affecting sensitivity.

STEVEN BERTHMANN
Regional Sales Manager / IMPINJ

HARDWARE DEPLOYMENT FOR SUPPLY CHAIN
How does RFID optimise your supply chain processes?

Supply chains with multiple business partners have various possibilities to improve efficiency and productivity. Enhancing and accelerating communication between the stakeholders is just one of these possibilities that Stefan Berthmann will detail.

IMPINJ

JESSICA HAZELRIGG
Marketing & Partner Relations / Wiliot

BLE TAGS: APPLICATIONS & DEVELOPMENT
Applications for battery-free Bluetooth tags – findings from the development of the first passive Bluetooth tags

Bluetooth chips with unlimited battery life, a small tag with processing power and sensors, for a fraction of the price – applications for the newest Bluetooth solution requiring no batteries in smart clothing, smart packaging, logistics, and asset tracking by Jessica Hazelrigg of Wiliot.

PROF. DR. REGIANE RELVA ROMANO
CEO / Vip-Systeme Informatika / Head of Research FACENS

BUSINESS FACTS BRAZIL
RFID applications in the Brazilian fashion & retail sector

With her own system integration company, Prof. Dr. Regiane Relva Romano developed the first smart fashion store in Brazil. With the government’s advances in strengthening RFID and IoT technologies in all fields, she is one of the pioneers.

OPENMATERIALS

SIMON ARCH
Marketing and Sales Director / AEG ID

SYSTEM INTEGRATION

FACENS

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FOCUS TOPICS!

- AIDC in Europe
- AIDC from a global perspective
- The latest NFC developments
- RAIN RFID
- Long range sensing
- Business facts Nigeria
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