

RAIN Drives Industry 4.0

**Welcome to the RAIN RFID
Alliance**

**Steve Halliday
President, RAIN RFID Alliance**



RAIN[®]
R F I D

An Introduction – June 2018



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- **RAIN RFID Alliance was founded in 2014**
 - Increase awareness and understanding of passive UHF RFID (GS1's EPC Gen2 protocol and ISO's 18000-63 standard)
- **Over 160 global members and annual meetings in Americas, Asia and Europe**
 - Alliance members include hardware and software companies, solution providers, academics, and end-users



What is RAIN RFID?

- RAIN RFID is a wireless technology that connects billions of everyday items to the internet, enabling businesses and consumers to **identify, locate, authenticate, and engage** each item.
- RAIN RFID makes it possible to network *things* without power.
 - >12 billion things tagged in 2017
 - 20 billion annually by 2020

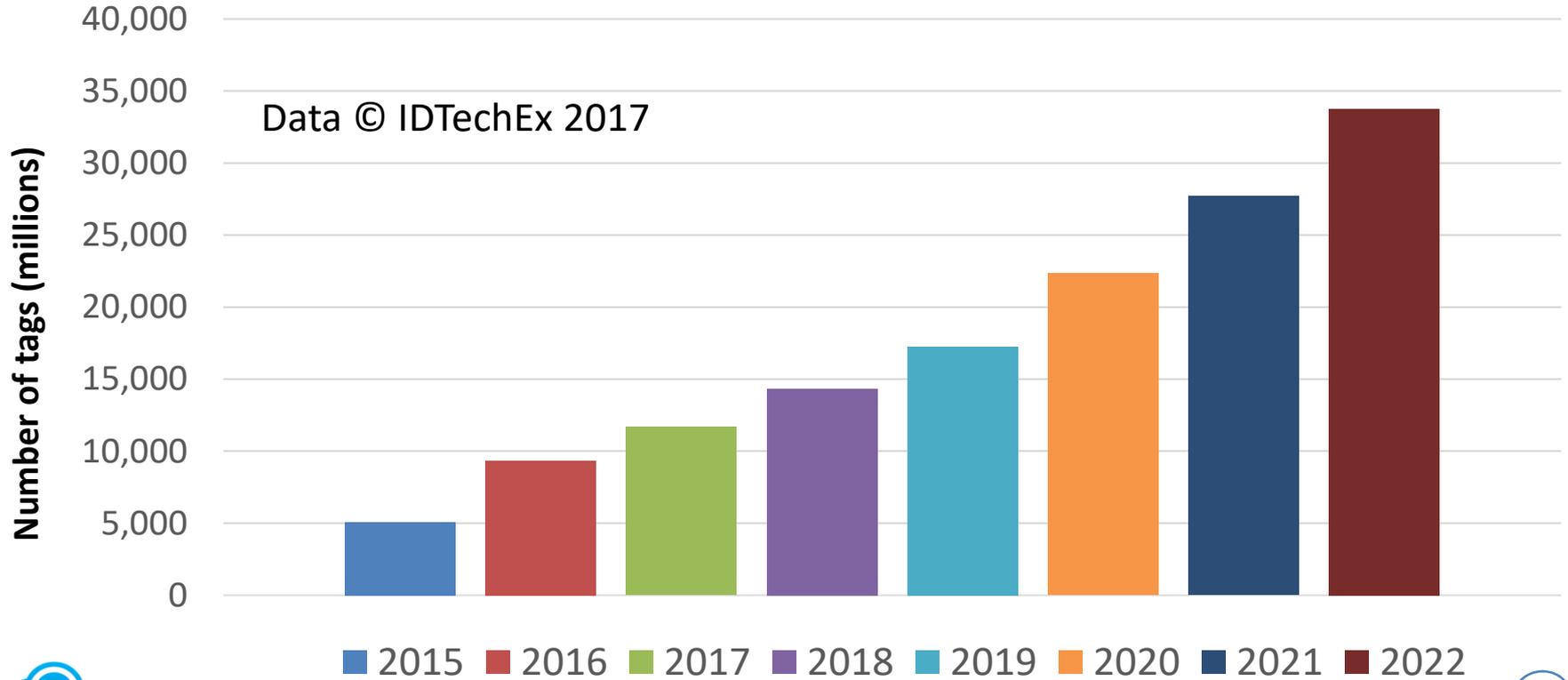


RAIN Brand

- **RFID** is a generic acronym to describe different types of wireless technologies – different frequencies, different standards, passive vs. active, etc. ***This creates confusion.***
- **RAIN** is a brand for a specific passive UHF RFID wireless technology
 - GS1's UHF Gen2 protocol
 - ISO/IEC's 18000-63 standard
- The ultimate goal is for "**RAIN**" to be **THE** UHF RFID brand
 - To transition companies and consumers to the RAIN brand, "**RAIN RFID**" is currently being used
- Other wireless technology brands, easier for end-users to understand:
 - **WiFi**, instead of IEEE's 802.11 versions
 - **NFC**, instead of HF RFID or ISO/IEC's 14443
 - **Bluetooth**, instead of IEEE's 802.15.1



Tag Sales by Year





RAIN RFID DELIVERS INTERNET
CONNECTIVITY TO BILLIONS
OF EVERYDAY THINGS

LIKE
RAINDROPS
TO THE SEA

WELCOME TO RAIN RFID

A wireless technology
that connects billions
of everyday items to
the internet



BECOME A MEMBER

Join hundreds of other companies in being a member of the RAIN RFID Alliance and have access to information, meetings and more.



WHAT IS RAIN RFID

The RAIN RFID Alliance is a global organization promoting the universal adoption of RAIN technology solutions across many different vertical markets.



RAIN DOCUMENTS

Here you can view and download RAIN Alliance and Member documents, as well as White Papers, E-Books and more.



RAIN RFID ALLIANCE - EUROPE MEETING

NH DANUBE CITY | Wagramer Strasse 21 1220 Vienna, Austria
26-28 June 2015



[Overview](#) | [Registration](#) | [Agenda](#) | [Hotel & Travel](#)

REGISTRATION IS NOW OPEN

Meeting will be held at the NH DANUBE CITY hotel in Vienna, Austria.



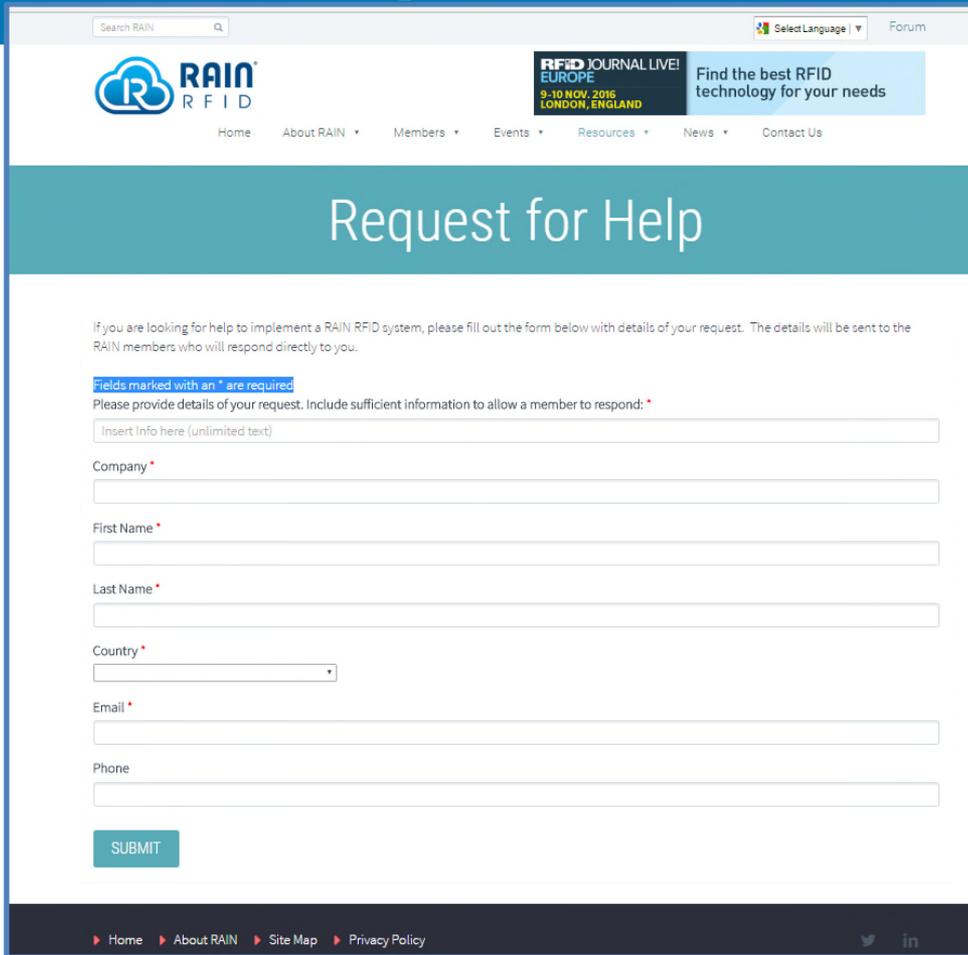
NEW CONTENT ADDED

Thursday (28 June) is NOW open to everyone. Exciting opportunities for networking. Visit the agenda page for details.

Speakers



Request for Help Section



The screenshot shows the RAIN RFID website's 'Request for Help' page. At the top, there is a search bar, a language selection dropdown, and a 'Forum' link. The RAIN RFID logo is on the left, and a banner for 'RFID JOURNAL LIVE! EUROPE 9-10 NOV. 2016 LONDON, ENGLAND' is on the right. Below the navigation menu, the page title 'Request for Help' is displayed in a teal header. The main content area contains instructions for users to fill out a form to request help. The form includes fields for 'Company', 'First Name', 'Last Name', 'Country' (a dropdown menu), 'Email', and 'Phone'. A 'SUBMIT' button is located at the bottom of the form. The footer contains navigation links for Home, About RAIN, Site Map, and Privacy Policy, along with social media icons for Twitter and LinkedIn.

Search RAIN

Select Language | Forum

RAIN
RFID

RFID JOURNAL LIVE!
EUROPE
9-10 NOV. 2016
LONDON, ENGLAND

Find the best RFID technology for your needs

Home About RAIN Members Events Resources News Contact Us

Request for Help

If you are looking for help to implement a RAIN RFID system, please fill out the form below with details of your request. The details will be sent to the RAIN members who will respond directly to you.

Fields marked with an * are required.

Please provide details of your request. Include sufficient information to allow a member to respond: *

Insert info here (unlimited text)

Company *

First Name *

Last Name *

Country *

Email *

Phone

SUBMIT

Home About RAIN Site Map Privacy Policy

Post your requests for help with your project

<http://rainrfid.org/resources/request-for-help/>



Workgroups

- Workgroups projects help grow the RAIN RFID technology market
 - Increase awareness & understanding of RAIN RFID
 - Members collaborate to remove barriers to growth
- Currently seven workgroups:
 - Aviation
 - Developers
 - Healthcare
 - IoT
 - Retail
 - Smart Products and Packaging
 - Technical



- New regulations in Europe (915-921 MHz) not adopted by countries
- Questions raised about compatibility with Military and Rail use
- Working with GS1 and others to resolve questions
- Eu vote on 11 July to ratify compromise solution



Agenda

9:00 AM	WELCOME TO RAIN	Steve Halliday President, RAIN RFID Alliance
9:20 AM	IT SECURITY IN THE SUPPLY CHAIN WITH BLOCKCHAIN TECHNOLOGY	Christopher Nigischer Project Manager Industrial Competence Center, NXP Semiconductors
10:00 AM	THE AIRLINE BAGGAGE TRACKING CHALLENGE	Helena Marruecos Project Coordinator, End to End Baggage, International Air Transport Association
10:30 AM	BREAK	



Agenda

11:00 AM	THE FUTURE OF RAIN IN THE AIRLINE INDUSTRY	Florent Perrichon CEO, Travel Sentry
11:30 AM	CAN WE IMPROVE PASSENGER EXPERIENCE IN HEATHROW BY USING RFID	Kim Laursen Head of Baggage Design, Heathrow Airport
12:00 PM	DEVELOPING AN APPLICATION SPECIFIC SOLUTIONS FOR RAIN RFID IN SPORTS TIMING	Nikias Klohr Head of R&D and CTO, Race Result AG
12:30 PM	LUNCH	



Agenda

2:00 PM	... AND ACTION! 12 OUTSTANDING AND INNOVATIVE RAIN RFID PROJECTS FROM AROUND THE GLOBE CINEMATICALLY PRESENTED.	Anja Van Bocxlaer Founder and Managing Director, RFID im Blick and RFID & Wireless IoT Global
2:30 PM	RFID @ BOSCH 2018: OPPORTUNITIES AND CHALLENGES FOR A MANUFACTURING COMPANY	Dr. Gerd Scheying Head of the Robert Bosch-Center of Competence RFID@BOSCH , BOSCH
3:00 PM	BREAK	



Agenda

3:30 PM	MICHELIN R&D – CONNECTED TIRE, RFID INTEGRATION & DESIGN	Julien Destraves MICHELIN
4:00 PM	TAMPER EVIDENT RFID – RAIN RFID TAGS FOR SECURITY CRITICAL APPLICATIONS	Christian Mirus Business Development Manager IOT, Identification Technologies, HID Global
4:30 PM	CONCEPT 2020 – ROADMAP FOR HIGH VOLUME RAIN TAG MANUFACTURING & PERSONALIZATION	Thomas Betz Managing Director, Mühlbauer
5:00 PM	CONCLUSION	
6:00 PM	SIGHTSEEING AND DINNER	



RAIN – Enabling the IoT

- Unique item identification
- Low cost
- Batteries not required
- Line-of-sight not needed
- Long or short range
- Security availability
- Connects to sensors

RAIN
IS EVERYWHERE

JOIN NOW
TO GROW THE TECHNOLOGY
IN YOUR MARKET

HEALTHCARE

RETAIL

LOGISTICS

PHARMACEUTICAL

INDUSTRIAL
MANUFACTURING

CONSUMER
SERVICE

IoT

PACKAGING

ELECTRONICS





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R F I D

www.RAINRFID.org