ADDING TRUST
IN A CONNECTED WORLD
CISC.AT



RAIN Xplorer Reader Checker

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RAIN RFID XPLORER



RAIN RFID
test
instrument to
measure the
performance
of RFID
devices and
application
setups. and
chips.

READER CHECKER



Battery supp.
RAIN RFID
device for quick
reader transmit
power/receiver
sensitivity
check in the
field.



RAIN XPLORER SPY



Comprehensive RAIN air interface spy for effortless reader-tag-communication analysis.

RAIN XPLORER INLINE



High speed performance testing and encoding of RAIN RFID inlays and tags during production process.

RAIN XPLORER REEL2REEL



Automatic
testing of both
RAIN RFID
and/or NFC
tags on reels at
high speed.
Compact
hardware and
industrial
grade machine.

NFC XPLORER INLINE



High speed performance testing and encoding of NFC inlays and tags during production process. Integration into any production machine.





NFC XPLORER



NFC test instrument to measure the performance of NFC tags. Reader testing through sniffer functionality.

NFC INTEROP TEST



Evaluate
interoperability
between NFC
and/or EMVCo
capable devices
and
corresponding
readers (like
POS terminals),
mobiles and
smart cards

NFC WLC TECHNOLOGY ELEMENTS



Boost design of NFC based WLC solutions with power and data transfer over the same interface Antenna, hardware, and firmware IP blocks for design integration

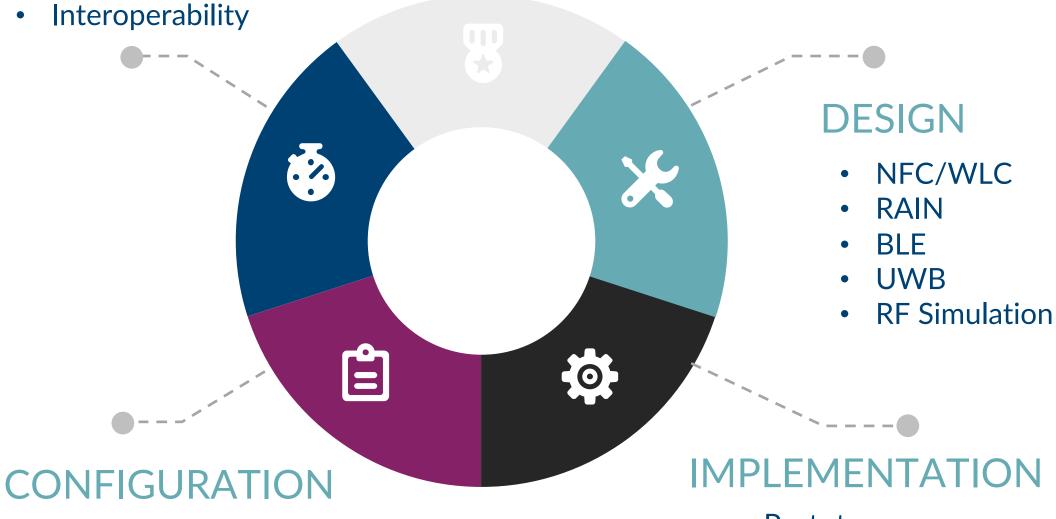
VERIFICIATION

Conformance

Performance

CONCEPT

- Standardisation
- Interface Development
- Emerging RF Technologies



- Firmware
- Software
- Apps

OEM Modules



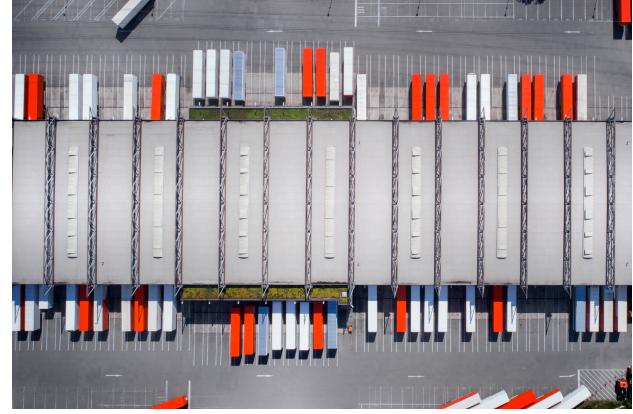
RACE TIMING



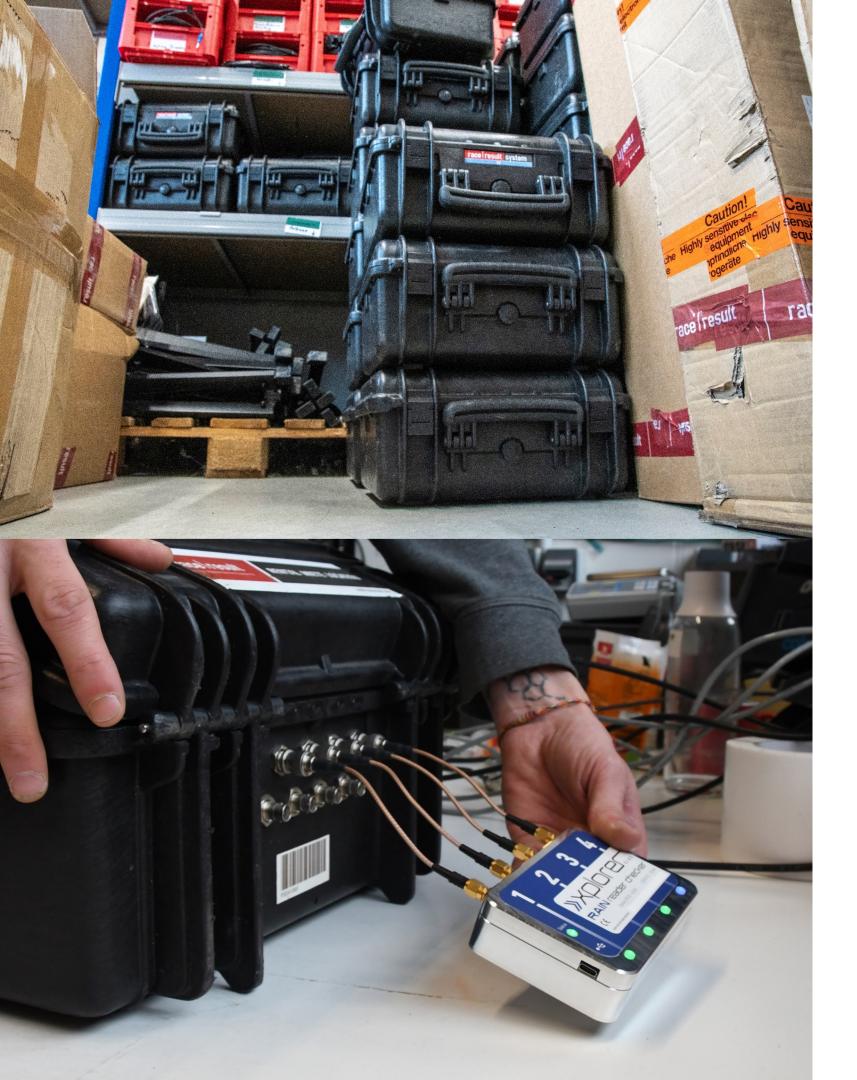
PRODUCTION







LOGISTICS



RACE RESULT story



CHALLENGE

- Timing systems for rent, shipped from 7 global locations
- Test procedure upon rental return
- Become independent from HQ located test lab
- Making frequent reader testing possible in daily workflow
- Less shipping of suspicious decoders from distis to HQ

SOLUTION

- Readers checked within seconds on rental return
- Closer investigation, if test fails
- Reader Checker for each distributor & large customers

ACHIVEMENTS

- Time saving, less shipping costs, less Decoder downtime
- More reliability for customers & RACE RESULT
- Find a problem, before it gets critical



RAIN Reader Checker



Discover RFID reader performance issues in seconds

KEY BENEFITS

- Immediate on-site performance check of any reader
- Portable battery device with pass/fail result indicator
- Selection of pass criteria for typical RFID applications
- Easy to use. No deep RFID expertize required
- Laptop UI for additional config, tests and analyzes

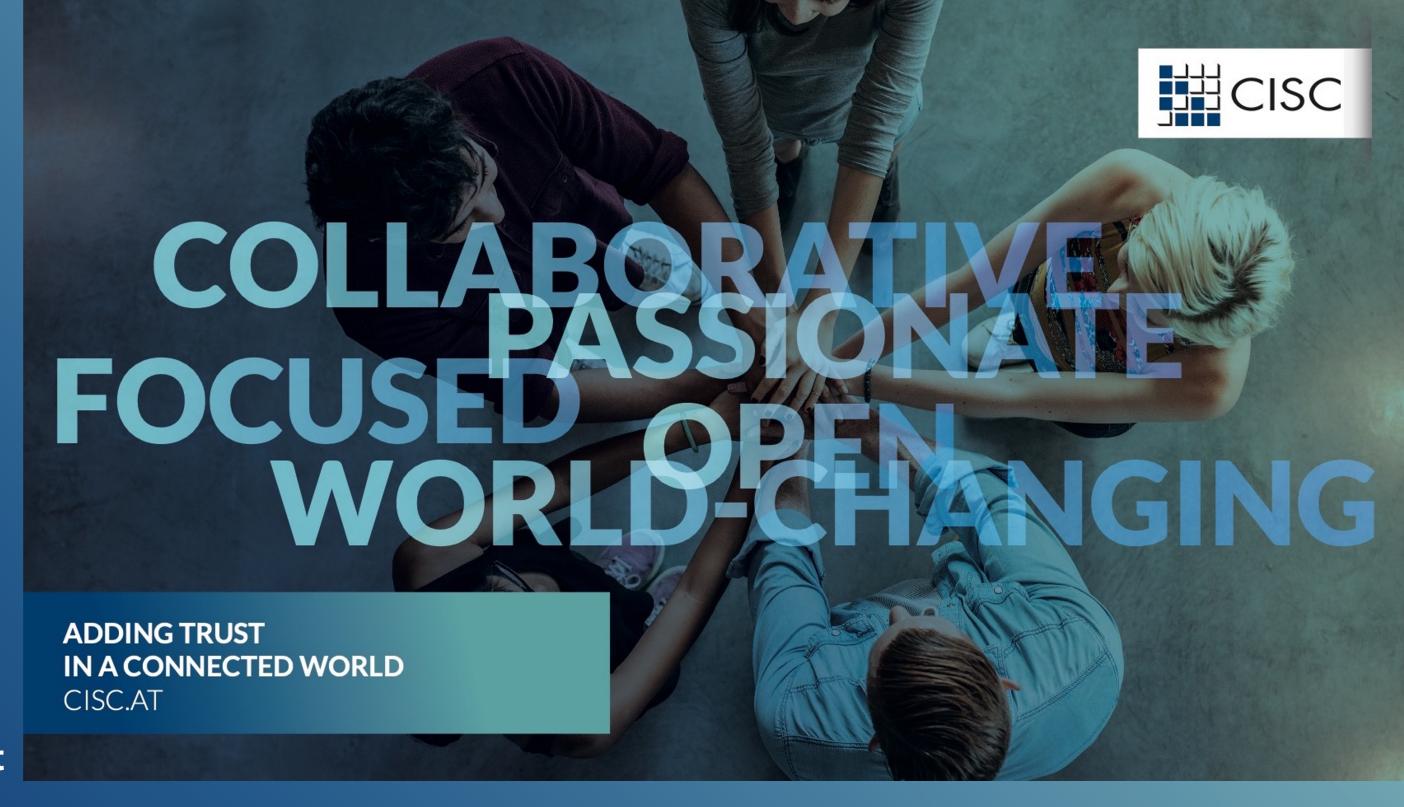
TESTING RAIN AIR INTERFACE PARAMETERS

- Check of transmit power
- Check of receiver sensitivity
- Check of used transmit frequencies and channels
- Reporting on protocol parameters
- Radio regulation regions specific checks



QUESTIONS?

.... ask me at j.preishuber-pfluegl@cisc.at







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WIRELESS TESTING USPs

- #1 in NFC / RAIN RFID measurement solutions and test equipment
 - Only company offering advanced reader performance testing
 - Only company offering GS1 Gen2 / ISO/IEC 18000-63 conformance test tool
 - Solutions for tags, readers and applications
- Measurement solutions in accordance with international standards
- Shaping RFID standardization
- Consulting services and an own NFC and RAIN RFID test lab
 Global leader in NFC interoperability testing