

# Einführung von Cybersecurity Anforderungen für Leuchten mit Funk 2022/30/EU

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Offenbach: 2023-09-26

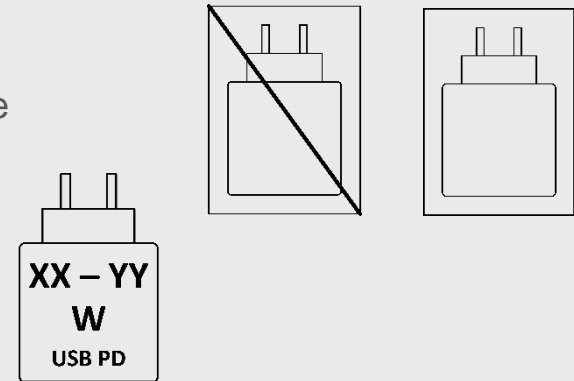


**VDE** INSTITUTE

# The directive 2014/53/EU has been amended!



- **Directive (EU) 2022/2380** amending the Radio Equipment Directive 2014/53/EU
- Introduction of a “**common charging**” solution (USB-C)
  - Applies to all **handheld** mobile phones, tablets, digital cameras, headphones, headsets, portable speakers, handheld videogame consoles, e-readers, earbuds, keyboards, mice, and portable navigation systems as of 2024
  - Applies to laptops as of 2026
  - Unbundling sale of charger from sale of electronic device
  - Improved visual and written information to the customer





Requirements

Source: Canva

## Essential Requirements - Article 3

# The essential requirements (ESR) of the RED (Overview)



## Article 3, 1. (a)

Protection of health and safety of persons and of domestic animals and the protection of property as in 2014/35/EU

## Article 3, 1. (b)

Adequate level of electro-magnetic compatibility as in 2014/30/EU

## Article 3, 2.

Effective use and support efficient use of radio spectrum to avoid harmful interference

## Article 3, 3.

Only for **special classes or categories of equipment**

Important: (d), (e) and (f)

## Article 3, 4.

Only for mobile and re-chargeable equipment.

Laptops  
Phones ...  
(List of equipment)

# Delegated regulation 2022/30/EU (DR)\*



\* Will be updated soon!

Published in the OJEU L 7/6,  
12.01.2022

L 7/6 DE Amtsblatt der Europäischen Union 12.1.2022

## DELEGIERTE VERORDNUNG (EU) 2022/30 DER KOMMISSION

vom 29. Oktober 2021

zur Ergänzung der Richtlinie 2014/53/EU des Europäischen Parlaments und des Rates im Hinblick auf die Anwendung der grundlegenden Anforderungen, auf die in Artikel 3 Absatz 3 Buchstaben d, e und f der Richtlinie Bezug genommen wird

(Text von Bedeutung für den EWR)

L 7/6 EN Official Journal of the European Union 12.1.2022

## COMMISSION DELEGATED REGULATION (EU) 2022/30

of 29 October 2021

supplementing Directive 2014/53/EU of the European Parliament and of the Council with regard to the application of the essential requirements referred to in Article 3(3), points (d), (e) and (f), of that Directive

(Text with EEA relevance)

Source:Canva

# New delegated regulation (amend EU 2022/30) is in preparation



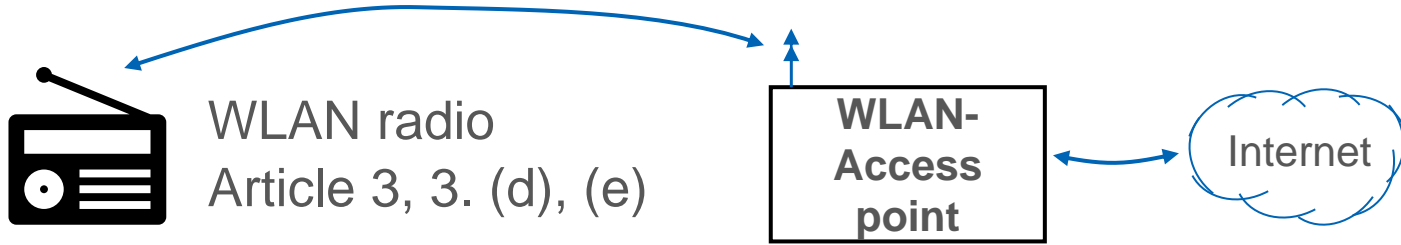
- **New amendment** to delegated regulation (EU) 2022/30 is proposed ([C/2023/4823 final](#))
- Not yet (2023-09-13) published in the OJEU
- Reason for the amendment: The **harmonised standards (EN 18031-1, 18031-2, 18031-3)** – developed by CEN/CENELEC - for article 3, 3. (d), (e) and (f) **will not be ready** early enough before the target date (01.08.2024).
- Changes:
  - **Application date** old: 2024-08-01 – **New: 2025-08-01**
  - **Correction of text** in Article 1(2) of the delegated regulation (EU) 2022/30
  - “and” → “or” in clause 2:  
“... (EU) 2016/679, or traffic data **and or** location data, as defined in Article ... “

# The essential requirements in Article 3, 3. (d), (e) and (f)



- Article 3, 3. (d): radio equipment **does not harm the network or its functioning nor misuse network resources**, thereby causing an unacceptable degradation of service;
- Article 3, 3. (e): radio equipment incorporates **safeguards to ensure that the personal data and privacy of the user** and of the subscriber are protected;
- Article 3, 3. (f): radio equipment supports certain features ensuring **protection from fraud**

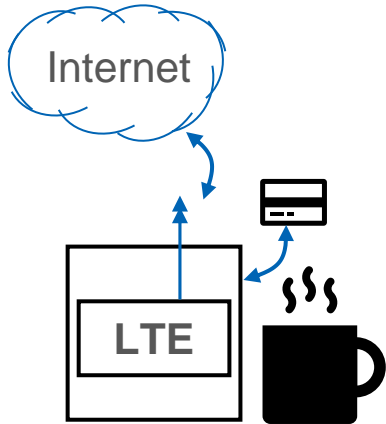
# Examples for radio equipment in the scope of (EU) 2022/30



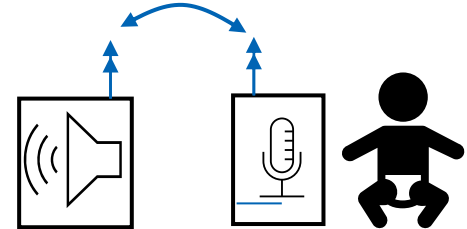
WLAN radio  
Article 3, 3. (d), (e)

WLAN-  
Access  
point

Internet



Coffee machine  
with LTE modem  
+ payment by credit card (RFID)  
Article 3, 3. (d), (e), (f)



Babyphone  
Article 3, 3. (e)  
DR: Article 1, 2. (b)

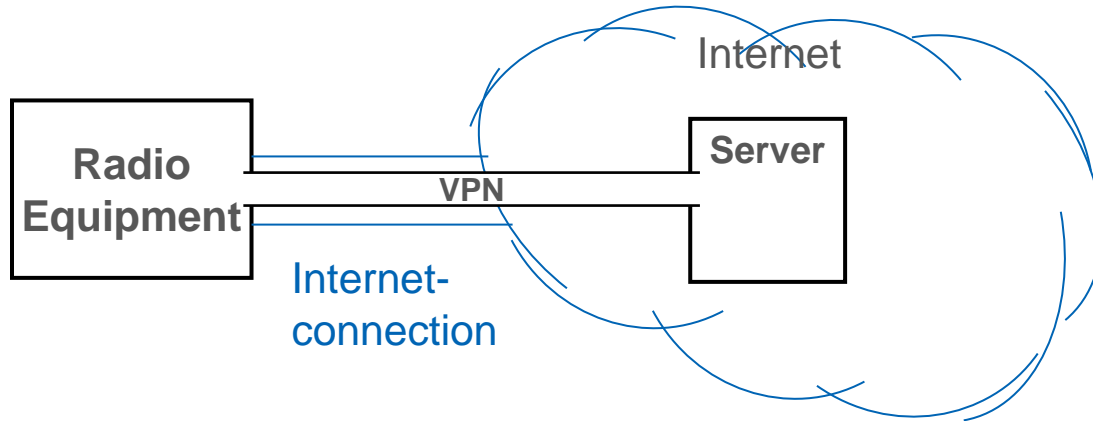


# What is or is not in the scope of the delegated regulation?



In the scope

VPN (Virtual Private Network) tunnels



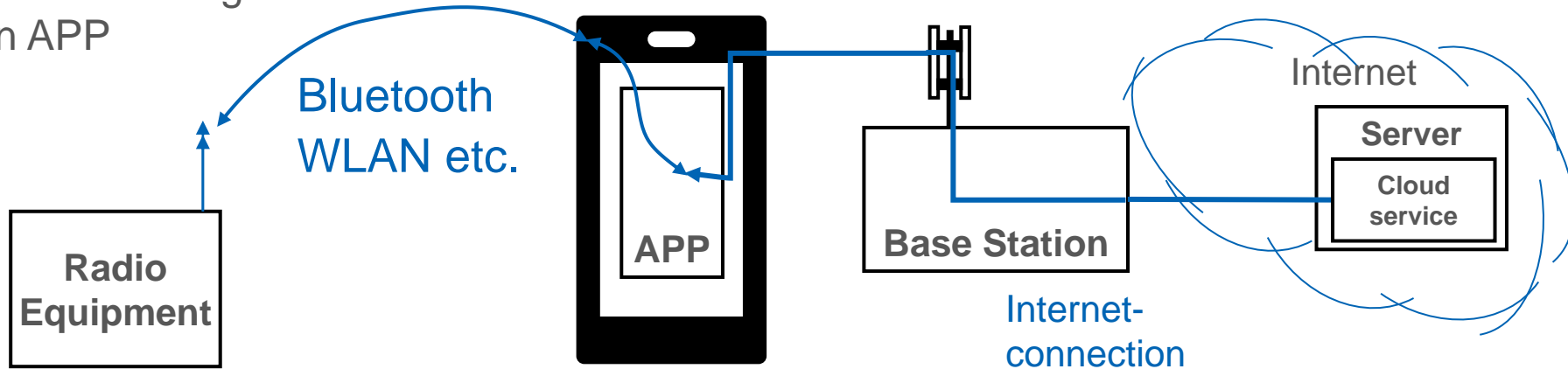
→ The Radio Equipment is Internet-connected radio equipment

# What is or is not in the scope of the delegated regulation?



In the scope

Internet through  
an APP



The Radio Equipment **is capable to connect itself** to the internet (Server)!

# What is or is not in the scope of the delegated regulation?

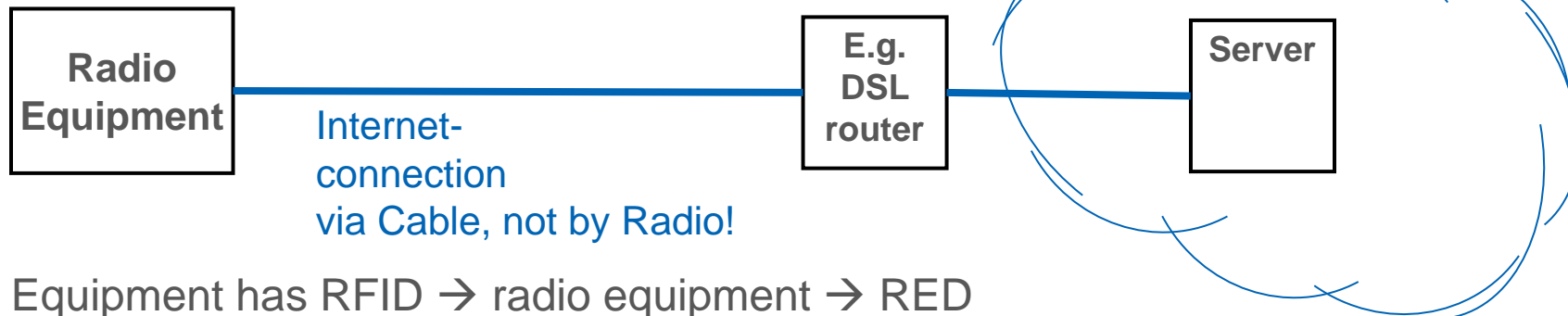


In the scope

Internet connection via cable/fibre optics and **not by radio**



RFID/NFC REader



Equipment has RFID → radio equipment → RED

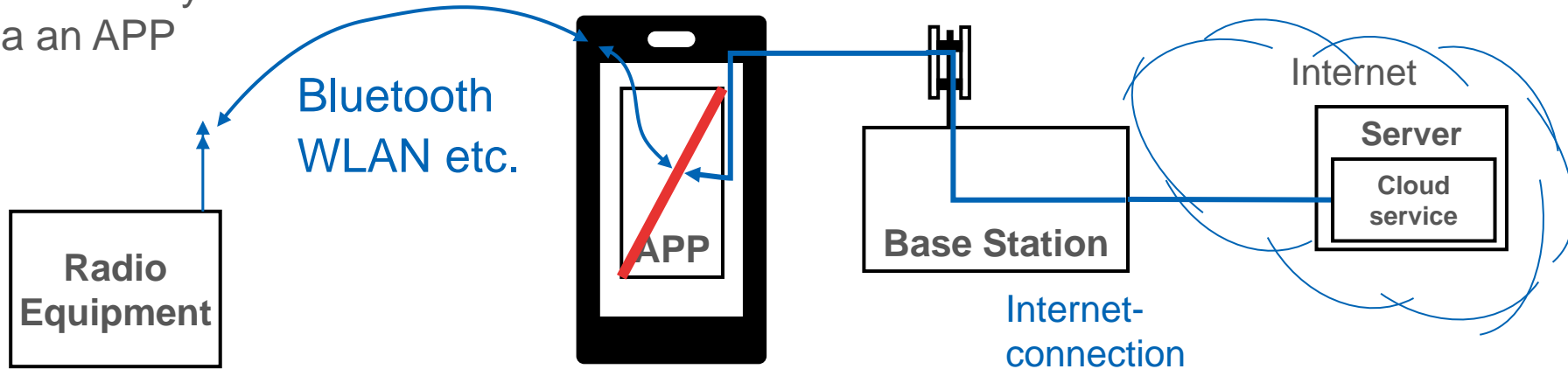
Delegated regulation **is applicable**, even if the **internet connection is done by Cable/Fibre optics only**

# What is or is not in the scope of the delegated regulation?



NOT in the scope

Internet only  
via an APP



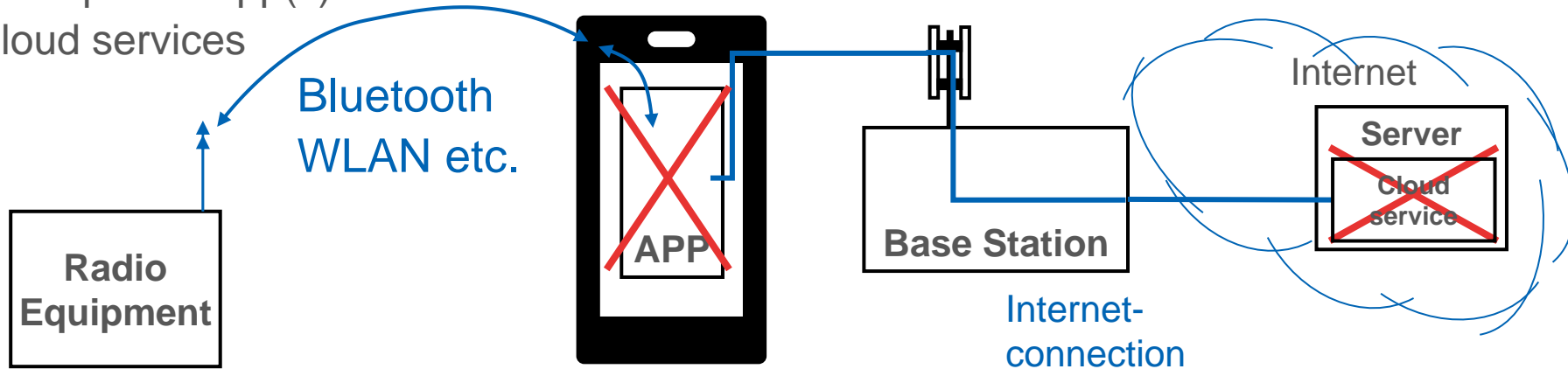
The Radio Equipment is **not capable to connect itself** to the internet!

# What is or is not in the scope of the delegated regulation?



**NOT in the scope**

Smartphone App(s)  
Cloud services



# Article 2 of DR: “Excluded or partially excluded products”



| Directive      | Equipment               | 3, 3. (d) | 3, 3. (e) | 3, 3. (f) |
|----------------|-------------------------|-----------|-----------|-----------|
| (EU) 2017/745  | Medical                 | No        | No        | No        |
| (EU) 2017/746  | In-Vitro Diagnostics    | No        | No        | No        |
| (EU) 2019/2144 | Type approved vehicles  | Yes       | No        | No        |
| (EU) 2018/1139 | Civil aviation          | Yes       | No        | No        |
| (EU) 2019/520  | Electronic toll systems | Yes       | No        | No        |

# Article 3 of DR: “Entry into force”



Introduction, preamble (18): “Economic operators should be provided with a sufficient time to adapt to the requirements of this Regulation.”

Entry into force: 12.01.2022 + 20 days = 01.02.2022

Apply from: 01.08.2024 (01.08.2025) (+ 30 Month from entry into force)  
→ **Mandatory** application from 01.08.2024 (will be 01.08.2025 with amendment to (EU) 2022/30) on!

A Delegated Regulation is **directly applicable and mandatory** in all member states! No special law in each member state is required!



Source: Canva

## Conformity assessment procedure – Article 17 of 2014/53/EU



# Consequences for the conformity assessment of manufacturers under 2014/53/EU (RED)



## Article 17

### Conformity assessment procedures

4. Where, in assessing the compliance of radio equipment with the essential requirements set out in Article 3(2) and (3), the manufacturer has not applied or has applied only in part harmonised standards the references of which have been published in the *Official Journal of the European Union*, or where such harmonised standards do not exist, radio equipment shall be submitted with regard to those essential requirements to either of the following procedures:

- (a) EU-type examination that is followed by the conformity to type based on internal production control set out in Annex III;
- (b) conformity based on full quality assurance set out in Annex IV.

### Conclusion:

If there is no harmonised and in the OJEU under RED referenced standard  
→ EU-Type Examination with Notified Body is mandatory!

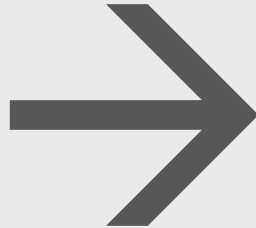


## Testing

- Present situation (2022-09):

Harmonised standards for Article 3, 3. (d), (e) and (f) are not available!

Therefore, no standards are cited in the Official Journal of the EU (OJEU) for Article 3, 3. (d), (e) and (f) !



## No self-declaration

But new harmonised standards are under development.

See slides from A. Matheus



- The VDE Notified Body RED has created an own certification document: **VDE-PB-0033:2022-01** Requirements for compliance with the delegated EU-Regulation 2022/30/EU according to the essential requirements of the article 3, 3. points (d), (e) and (f) of the Radio equipment directive 2014/53/EU.




- Based on this internal test specification **VDE Notified Body RED can issue an EU-type examination certificate** which is also valid after 2024-08!

# VDE has issued the first certificates already



## EU-type examination certificate according to Annex III Module B of Directive 2014/53/EU amended by (EU) 2022/2380

This certificate consists of 6 pages including this page.

|   |   |
|---|---|
| Apparatus   | Camera with WLAN interface  |
| Apparatus description   | --  |
| Brand name, trade name  |  <b>BOSCH</b>  |
| Type reference  | <b>Eyes Indoor Camera, BCA-IA,<br/>Eyes Outdoor Camera, BCA-EA</b>  |
| Manufacturer/authorized representative<br>in the European Union     | Robert Bosch Smart Home GmbH HOME/QMP<br>Justus-Kilian-Strasse 1<br>35457 Lollar<br>Germany   |
| Further information   | --  |
| Evaluation report   | 304076-TL7-1  |
| Aspects of the essential requirements<br>covered by the examination | <b>N/P</b> Article 3, 1. (a) Safety & Health<br><b>N/P</b> Article 3, 1. (b) EMC<br><b>N/P</b> Article 3, 2. Radio spectrum<br>Article 3, 3. Equipment classes, categories<br>(a) (b) (c) (d) (e) (f) (g) (h) (j)<br><b>N/P N/P N/P C C N/A N/P N/P N/P</b> |



Conclusion

- **Delegated regulation 2022/30/EU** is published for the Radio Equipment Directive
  - Article 3, 3. (d) **“Protection of the network from harm”**
  - Article 3, 3. (e) **“Privacy of data”**
  - Article 3, 3. (f) **“Protection from Fraud”**
- VDE can offer you **from now on** testing services and EU-Type Examination Certificate for article 3, 3. (d), (e) and (f)
- **Notified Body** under the RED is **mandatory until harmonised standards are published and cited**
- Early action is recommended, since the 2024-08-01 **(2025-08-01) is not that far away!**
- In the future **Cyber Resilience Act CRA** might replace the (new) requirements in the RED.

**VDE-Institute is your reliable partner for testing radio equipment for Safety, EMC, Spectrum and network protection, cybersecurity and privacy and to act as Notified Body under the RED.**

# Thank you for your attention!

We are building the e-dialistic future.  
Please join us.

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