

The background features a green-tinted globe of the Earth, centered on the Atlantic Ocean, surrounded by several thin, white, curved lines that suggest global connectivity or data flow. A large, dark green, curved shape overlaps the bottom left of the globe.

DEKRA
SolutionPRO
Radio Regulatory
Database

The First Radio Regulatory Database on the Market

Approvals Strategic Support
Product Planning
Real Time Reporting

“**DEKRA SolutionPRO - Radio Regulatory Database**” is an innovative online database service that includes detailed RF regulatory & approval requirements in over 226 geographical areas for a large number of cellular and wireless technologies. “DEKRA SolutionPRO - Radio Regulatory Database” is a service powered by DEKRA SolutionPRO “Testing, Approvals & Certification System”.

In-country radio approval regulations vary significantly from **country to country**. In fact, the certification process can become a challenging task when launching radio products in **different markets**.

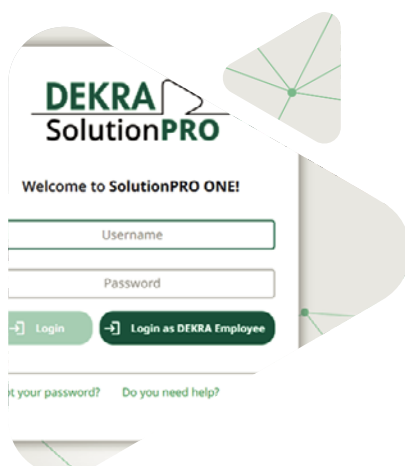
Today, there is an important tendency to have radio technologies embedded in different products for markets such as **telecoms, automotive, IT, consumer electronics, health, security, logistics...** This leads to the increasing need for Radio Type Approval for any devices that will be introduced in the global market.

DEKRA offers this innovative Radio Regulatory Database as a part of its **International Type Approval services portfolio**.



The service provides a powerful online tool, developed and continuously updated by a **team of experts** in International Type Approval, allowing its users to access detailed information about **specific regulations applicable** to the most important radio technologies across the world in real time.

This service is extremely useful when it comes to **product planning and approvals budgeting for an international launch**, and can save a significant amount of time and resources for its users. DEKRA supports its know-how and updates all information with the help of a network of **over 100 partners globally** and through our dedicated and experienced team which has successfully acquired thousands of certificates for our customers.



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DEKRA SolutionPRO Radio Regulatory Database

Functional Characteristics

- Creation of **reports** by technologies and/or geographical area.
- **Printable** version available in **Word** format.
- Information displayed with the latest **updates**.
- Certification **FAQ** (Frequently Asked Questions about certification issues).
- Detailed **notification** of updates to the Radio Regulatory Database.
- **Certification requirements** can be filtered by vertical markets such as the automotive sector.



Some Type Approval Process Details

- Is **certification** required?
- Is **testing** required?
- **Details** on certification process.
- **Type** of certificate.
- **Validity** of the certificate.
- Need for **local representation**.
- **Marketing** requirements:
 - Labeling
 - Packaging
 - User manual



Technologies Available at a Worldwide Level



LTE: Band 01, Band 02, Band 03, Band 04, Band 05, and 07, Band 08, Band 12, Band 13, Band 14, Band 17, Band 20, Band 25, Band 28, Band 38, Band 40, Band 41.

2G: GSM 1900, GSM 1800, GSM 900 and GSM 850.

3G: FDD - Band I, FDD - Band II, FDD - Band V and FDD - Band VIII.

Automotive Radar

- 24 GHz (24.05 - 24.25 GHz)
- 60 GHz (57 - 66 GHz)
- 77 GHz (76 - 77 GHz)
- 79 GHz (77 - 81 GHz)

Bluetooth: 2.4 GHz (2400 - 2483.5 MHz)

Video Broadcasting Receivers (DVB-T/T2):

- 174 - 240 MHz
- 470 MHz - 786 MHz

Audio Broadcasting Receivers:

- Below 30 MHz (DRM)
- 87.5 - 108 MHz (FM band)
- 174 - 240 MHz (DAB)

GNSS Receivers:

- 1559 - 1610 MHz - L1 band
- 1215 - 1260 MHz - L2 band

Immobilizers: (119 - 140 kHz)

NFC: 13.56 MHz (13.553 - 13.567 MHz)

RFID:

- 119 - 140 kHz
- 13.56 MHz
- 315 MHz
- 433.92 MHz
- 868 MHz
- 915 MHz
- 2.4 GHz
- 5.8 GHz

Telecommand and Telemetry:

- 315 MHz (312 - 316 MHz)
- 433.92 MHz (433.05 - 434.79 MHz)
- 868 MHz (863 - 870 MHz)
- 915 MHz (902 - 928 MHz)

WLAN:

- 2.4 GHz (2400 - 2483.5 MHz)
- 5.1 GHz (5150 - 5250 MHz)
- 5.2 GHz (5250 - 5350 MHz)
- 5.4 GHz (5450 - 5725 MHz)
- 5.8 GHz (5725 - 5850 MHz)
- 6 GHz (5925 - 7125 MHz)
- 60 GHz (57 - 66 GHz)

Medical - Active medical implants and peripherals:

- 9 - 315 kHz
- 401 - 402 MHz
- 402 - 405 MHz
- 405 - 406 MHz

ZigBee: 2.4 GHz (2400 - 2483.5 MHz)

Wireless charging

- 79 - 90 kHz (184 geographical areas)
- 100 - 119 kHz
- 119 - 140 kHz
- 140 - 148.5 kHz
- 148.5 - 300 kHz
- 6.78 MHz (6.765-6.795 MHz)

LPWAN:

- 433.92 MHz (433.05 - 434.79 MHz)
- 915 MHz (902 - 928 MHz)
- 868 MHz (863 - 870 MHz)
- Low Power Data Communication System:
 - 60 GHz (57 - 66 GHz)

UWB:

- 1.6 - 2.7 GHz
- 2.7 - 3.1 GHz
- 3.1 - 3.4 GHz
- 3.4 - 3.8 GHz
- 3.8 - 4.8 GHz
- 4.8 - 6 GHz
- 6.0 - 8.5 GHz
- 8.5 - 9 GHz
- 9.0 - 10.6 GHz
- Below 1.6 GHz
- Over 10.6 GHz

Information related to interesting technical parameters (from a certification perspective) such as: **maximum power, work cycle, antenna, gain, etc.**

Technologies under research Technologies available in some specific geographical areas

3GPP LPWAN (38 Bands) - 90 geographical areas in total.

LTE (66 Bands) - 80 geographical areas in total.

5G (60 Bands) - 145 geographical areas in total.

Intelligent Transports Systems (C-V2X, DRSC):

- 5.8 GHz (5725-5850)
- 5.9 GHz (5850-5935 MHz)
- 60 GHz (63-64 GHz)

▶ 112 geographical areas in total.

DEKRA SolutionPRO Testing, Approval & Certification Systems

FAQ Included In The Tool

- **Family** approval.
- **Extension** of an existing certificate.
- **Risk** in case of lack of certificate.

FAQ To Be Included Upon Request

- Active **antennas** certification.
- Indoor/Outdoor use **inside a car**.
- **Modular** approval.
- **Receiver** Certification.
- **Automotive** exemption.
- **Labelling** exemptions for cars.
- **Electrical** labelling.
- **Spare parts** certification.
- Labelling **exemptions** for spare parts.



Other Certification Services

- DEKRA SolutionPRO - **Project Management System**.
- DEKRA SolutionPRO - **Radio Regulatory Newsletter**.
- DEKRA SolutionPRO - **Vehicle Connectivity Database**.
- **International Type Approval** Services Globally.
- **TCB** (Telecommunications Certification Body) by FCC.
- **FCB** (Foreign Certification Body) by ISED.
- Notified Body for the **RED 2014/53/EU**.
- Notified Body for the **EMC Directive 2014/30/EU**.
- **BQC** (Bluetooth Qualification Consultant).
- **NFC Forum**.
- **Wi-Fi Alliance** (WFA).
- **PTCRB** certification.



Contact us now at www.dekra.com/en/contact-dekra/

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