

# Maintenance of railway vehicles

## What's new and what you need to know

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- Directive 2008/110/EC amending Railway Safety Directive 2004/49/EC
  - Economic constraints (responsibilities of RUs and keepers)
  - Entity in Charge of Maintenance created
  - Article 14a on Maintenance of vehicles
- Commission Regulation No 445/2011 on a system of certification of entities in charge of maintenance for freight wagons
  - Mandatory certification of ECMs for freight wagons
  - Voluntary certification of separate maintenance functions (including workshops)
- Working Party on revision of ECM Regulation
- Commission Implementing Regulation (EU) 2019/779 – in force 16 June 2020
  - Mandatory certification of ECMs for all categories of railway vehicles for June 2022
  - Safety critical components from June 2021

## Maintenance of vehicles



No change in the maintenance management system

Fleet management

ECM 3

Maintenance development

Maintenance management

ECM 1

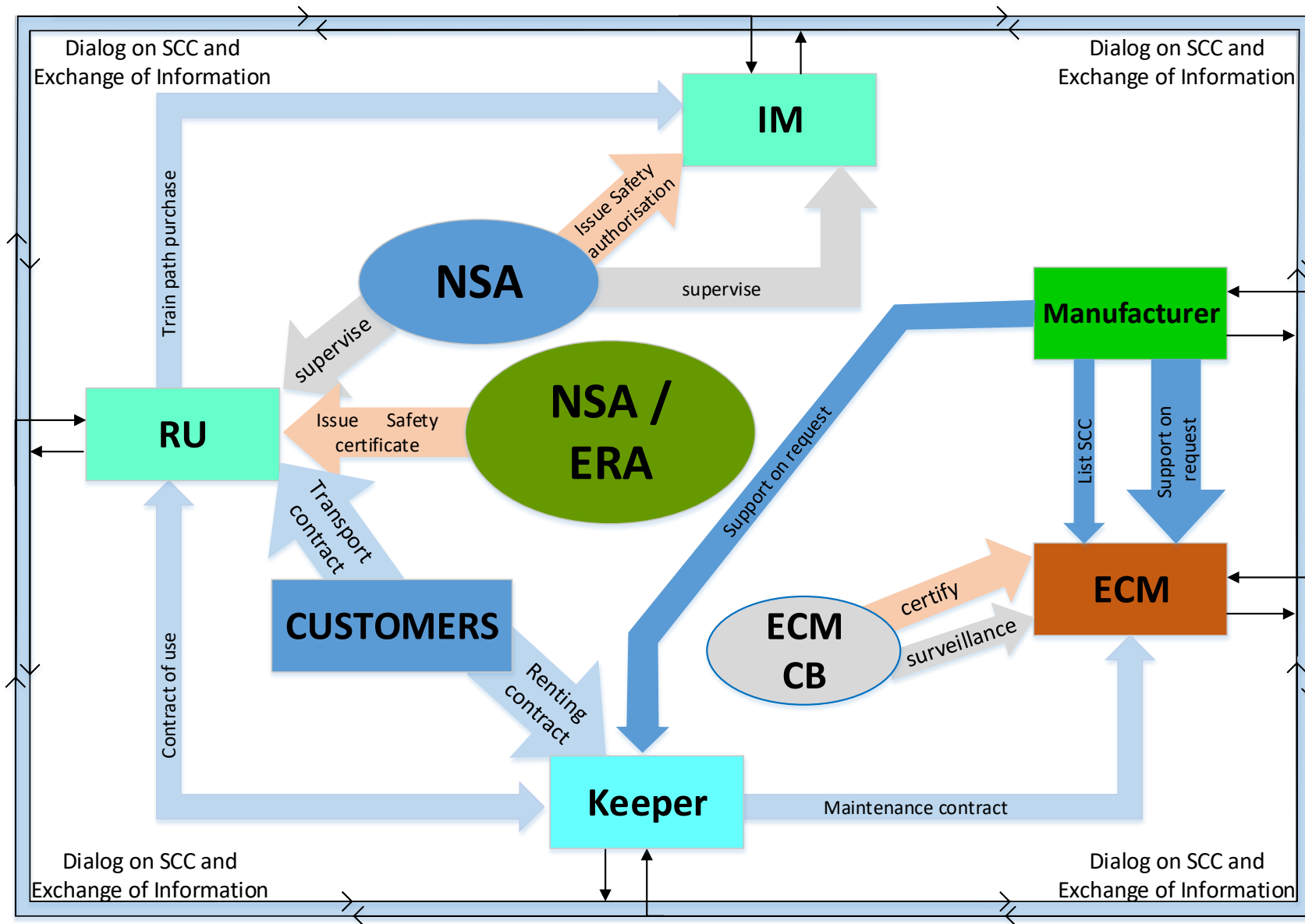
ECM 2

Maintenance delivery

ECM 4



# Reinforcement of exchange of information



## Revised accreditation scheme and certification scheme



### RESOLUTIONS OF THE 46<sup>th</sup> EA GENERAL ASSEMBLY

25 & 26 NOVEMBER 2020  
ENAC - Calle de Serrano, 240, 28016 Madrid

#### ***EA Resolution 2020 (46) 05***

The General Assembly, acting upon the recommendation of the Executive Committee, endorses the mandatory application of the following documents, issued by the EU Agency for Railways (ERA):

- EAGA(20)11-20 Sectorial scheme for accreditation-ECM-1172-002 V3-1 and
- EAGA(20)11-21 ERA-1172-003 V1.1 -ECM Certification Scheme.

Between 16 June 2020 and 16 June 2021, under Article 6(3) of Commission Implementing Regulation (EU) 2019/779, certification bodies may comply with either the previous or the new accreditation scheme.

As of 16 June 2021, certification bodies shall be accredited in accordance with the new sectoral accreditation scheme in order to be able to perform the activity of certification also for the scope of other categories of vehicles.

The accreditation scheme contains requirements to be used by National Accreditation Bodies or by recognition bodies when assessing certification bodies performing ECM certification. It shall be also used by Members States when designating the **NSAs to act as ECM certification body** (according to article 14 of Directive (EU) 2016/798).





The certification scheme shall be used by the all ECM certification bodies

[https://www.era.europa.eu/activities/certification-entities-charge-maintenance\\_en](https://www.era.europa.eu/activities/certification-entities-charge-maintenance_en)

- › **Introduction of safety critical component (article 4 shall apply from 16 June 2021)**

*Safety critical components are components for which a single failure has a credible potential to lead directly to a serious accident as defined in Article 3(12) of Directive (EU) 2016/798.*

- › **The ECMs shall use the safety alert IT to inform the rail sector about new or unexpected safety relevant findings concerning the maintenance activities (article 4 shall apply from 16 June 2021)**
- › **Annual report from ECM to Certification Body (Annex V)**

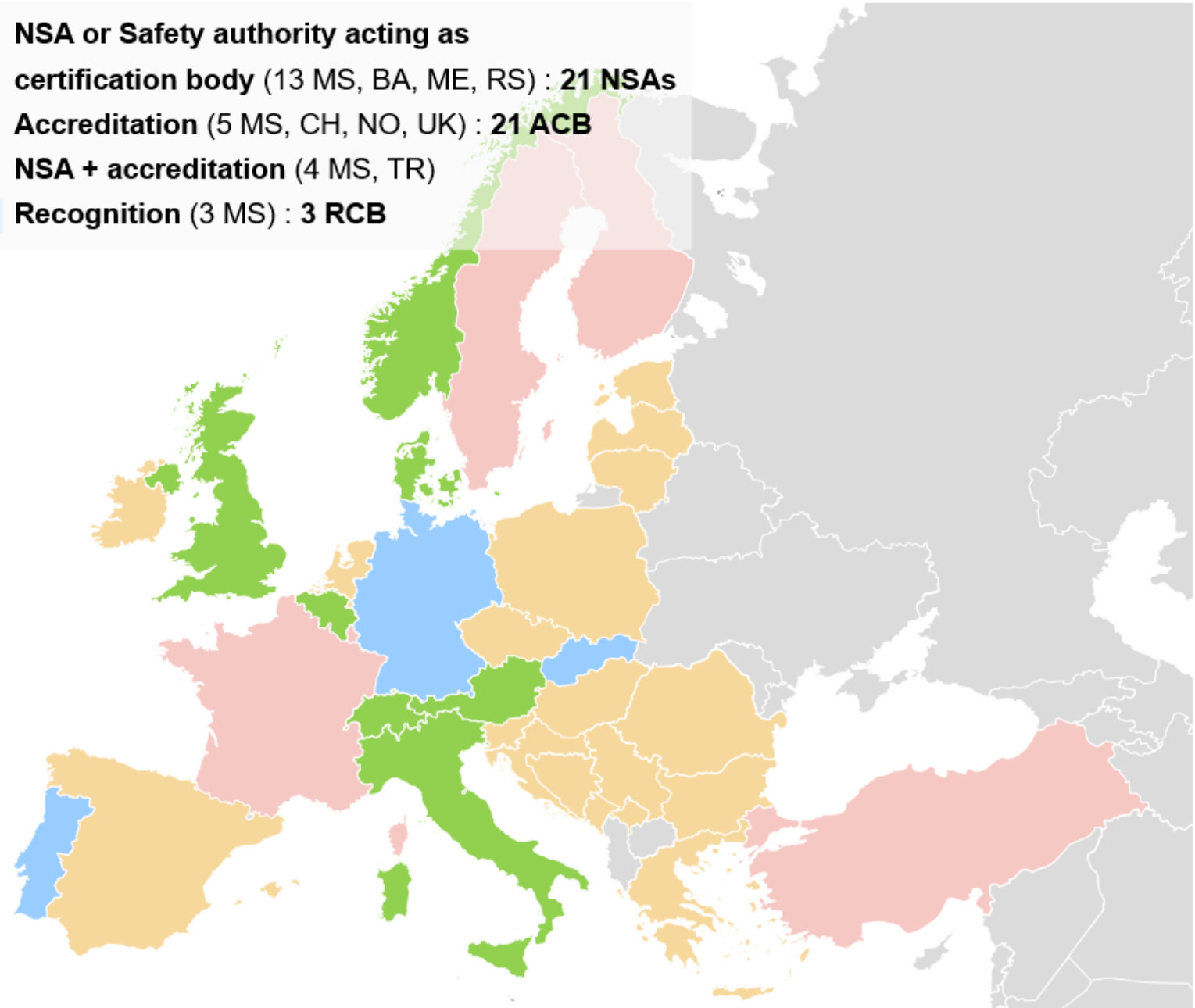
-  **NSA or Safety authority acting as certification body (13 MS, BA, ME, RS) : 21 NSAs**
-  **Accreditation (5 MS, CH, NO, UK) : 21 ACB**
-  **NSA + accreditation (4 MS, TR)**
-  **Recognition (3 MS) : 3 RCB**

**Welcome to the ERADIS -**

The ERADIS database shall ensure  
Directive (EU) 2016/797 and the Reg  
ERADIS shall not be used as operati



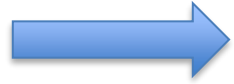
<http://eradis.era.europa.eu/>





# ECMs and MFs in ERADIS

	ECM		MF	
	December 2020	October 2021	December 2020	October 2021
certificates valid	448	518	495	635
certificates freight wagons	428	439	455	516
certificates locomotives	27	127	43	165
certificates EMU-DMU	12	67	43	111
certificates High speed train	14	20	23	41
certificates for passengers cars	14	59	27	92
certificates for OTMs	14	58	29	99



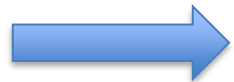
Task Force organised by ERA on 10 December 2019, 11 February 2020  
(Remote meeting , June, July, August, October, November )

3 accredited CBs (ERC, SCORAIL, BELGORAIL )  
7 NSAs (DE, IE, PL, SE, IT, NO, LU)  
4 sector representatives (CER, UIP, UNIFE, EPPTOLA)  
1 CEN/CENELEC representative



Version 9 consolidated and uploaded on extranet at the end of March

- ✓ Clarification of article 3 and article 10
- ✓ Clarifications for ECM assessment during SMS assessment
- ✓ Safety Critical Components methodology
- ✓ Safety Alert IT
- ✓ Annual ECM report



**Publication of the guide on 21 May 2021**



## ACTIVITIES

Safety Culture

Safety Management System

Human and Organisational Factors

Common Safety Methods

Rail Accident Investigation

Common Occurrence Reporting

Transport of Dangerous Goods +

Technical Specifications for Interoperability

Conformity Assessment

National Rules

Train Drivers

European Rail Traffic Management System +

Analysis and Monitoring

Certification of Entities in Charge of Maintenance

Chargeable Services

An Entity in Charge of Maintenance (ECM) plays an important safety role in the European railway system by ensuring that the vehicles for which it is in charge are in a safe state of running by means of a system of maintenance.

This European system of certification for ECMs has been set up in Regulation 2019/779.

This regulation sets out:

- The criteria to be applied for the accreditation or recognition of ECM's and maintenance functions' certification bodies;
- The requirements and assessment criteria applicable for the certification of ECMs and the certification of maintenance functions.

The system of certification provides evidence of responsibility and traceability of the maintenance undertaken on vehicles. It sets out also a certification process that ensures a transparent and structured management system for maintenance functions described in article 14(3) of Directive (EU) 2016/798 and will help to reduce the burden and duplication of controls and/or audits across the rail sector.

Driving these certification processes, mandatory certification scheme for ECMs and maintenance functions is available for the sector and form the reference to conduct the certification activities.

ERA publishes the list of accredited and recognised certification bodies, as well as the ECM certificates in the [ERADIS database](#).

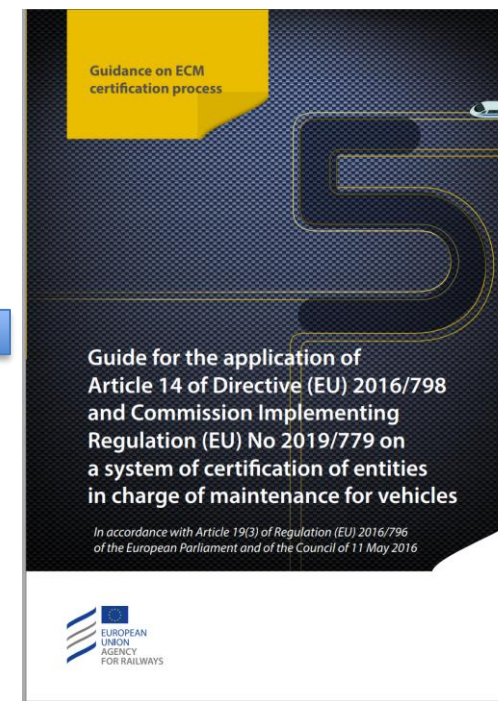
## Related guidance

 [Guidance on ECM certification process \(3.72 MB\)](#)

## Legal framework

-  [Commission Implementing Regulation \(EU\) 2019/779 of 16 May 2019 laying down detailed provisions on a system of certification of entities in charge of maintenance of vehicles pursuant to Directive \(EU\) 2016/798 of the European Parliament and of the Council](#)
-  [ERA 1172/002 V3.1 : Sectorial scheme for accreditation and recognition of ECM certification bodies under Regulation \(EU\) 2019/779 endorsed by EA \( European Cooperation for accreditation\) under the ref: EAGA\(20\) 11-20](#)
-  [ERA 1172/003 V1.1 : Certification scheme for ECM and outsourced maintenance functions under Regulation \(EU\) 2019/779 endorsed by EA \( European Cooperation for accreditation\) under the ref: EAGA\(20\) 11-21](#)

▼ Related documents





[https://www.era.europa.eu/sites/default/files/activities/docs/guidance-ecm-certification-process\\_en.pdf](https://www.era.europa.eu/sites/default/files/activities/docs/guidance-ecm-certification-process_en.pdf)



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