

OTIF



ORGANISATION INTERGOUVERNEMENTALE POUR
LES TRANSPORTS INTERNATIONAUX FERROVIAIRES

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INTERGOVERNMENTAL ORGANISATION FOR INTER-
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Committee of Technical Experts

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OTIF Register system – Rolling Stock
National Vehicle Registers (NVR)

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SCOPE OF THIS DOCUMENT

This document is a proposal to the Committee of Technical Experts to adopt provisions in accordance with Article 13 of ATMF requiring the Contracting States to set up and run National Vehicle Registers (NVR)

The implementation of the registers is not dependent on the implementation of the Technical Annexes referred to in Article 8 of the APTU Uniform Rules or on the mutual recognition of approvals.

INTRODUCTION

- (1) According to Article 13 § 1 of ATMF a data bank concerning railway vehicles admitted to circulation in international traffic shall be established and updated under the responsibility of the Organisation.
- (2) The European Community (EC) has by the European Commission Decision 2007/756/EC of 9 November 2007 adopted a common specification and the obligation to each EC Member State to set up a national vehicle register (NVR) as provided for under articles 14(4) and (5) of Directives 96/48/EC and 2001/16/EC; Decision 2007/756/EC has been published in the Official Journal of the European Union n° L 305 of 23 November 2007, p. 30.
- (3) The common specifications in this document for the NVR have been prepared on the basis of the European Commission Decision 2007/756/EC.
- (4) The European Railway Agency (ERA), having developed a standard NVR for EC Member States, has in the OTIF WG TECH meeting in Prague in June 2008 offered use of this software to the non-EC OTIF Member State for 5.000 € each and to the Secretary General a license for an unlimited number of Member States and records for 15.000 €. The connection to and the use of the VVR hosted by ERA is supposed to be free of charge.

PROPOSAL FOR DECISION

The Committee of Technical Experts is asked to adopt the following decisions:

1. Each Contracting State shall establish a computer-based NVR according to the specifications in this document, its Annex and Appendices. The NVR shall be operational 12 month after the entry into force of this decision at the latest. The NVR must be accessible for consultation by authorised representatives from competent authorities and stakeholders. The common operational and technical specifications specified in the Annex and Appendices will ensure that the different national registers, also those of the EC Member States, will be consistent regarding data contents, data formatting and access rights.
2. All NVRs shall be electronically (via the internet) linked to the central Virtual Vehicle Register (hereafter called "VVR") managed by the European Railway Agency. The VVR shall allow users to search all NVRs (also those of the EC Member States) through a single portal and enable exchange of data between national NVRs.
3. The NVR shall be kept and updated by a national registering entity (hereafter indicated as "RE") independent of any railway undertaking or by the Secretary General. Contracting States shall inform the Secretary General and the other Contracting States of the Registering Entity which they have designated for this purpose, inter alia in order to facilitate the exchange of information between these bodies.
4. Contracting States shall designate a national registering entity (hereafter called "RE") independent of any railway undertaking. The RE shall be responsible for the keeping and updat-

ing of the NVR. A Contracting State may also ask the Secretary General to keep its NVR data, but it shall still be responsible for the quality and timeliness of its data. Contracting States shall ensure that these entities co-operate and share information in order to ensure that data changes are communicated in a timely manner. Contracting States shall inform the Secretary General and the other Contracting States, within one year after the entry into force of this decision at the latest, of the Registering Entity designated for the keeping and updating of the NVR.

5. When a Contracting State admits a vehicle to operation (authorises the placing into service of it), also after renewal and upgrading, it shall ensure that a unique identification code is assigned to each individual vehicle and that vehicles subject to point 6 are registered in the NVR using the common specifications in this document. The rules for vehicle identification to be laid down in the APTU Annex on traffic operations and management shall be applicable with regard to the registration in the NVR. Pending the adoption of that APTU Annex, the existing numbering system shall be used.
6. The NVR of a Contracting State shall contain all vehicles authorised in that Contracting State for international transport. However freight wagons and passenger cars shall only be registered in the NVR of the Contracting State where they are first admitted to operation. A Contracting State may in its NVR include vehicles authorised for national transport.
7. Existing vehicles shall be registered in the NVR of the Contracting State where they were formerly registered. The transfer of data shall take into account the data availability. The registration in the NVR of existing vehicles admitted to international traffic shall be carried out before the end of a transitional period of 24 month beginning at the date of the entry into force of this decision.
8. Some Contracting States have an extensive 1520 mm track gauge network operating a fleet of vehicles that is common to the Commonwealth of Independent States (CIS) countries. This has resulted in a common registration system that is an important element of the interoperability and safety of this 1520 mm network. This specific situation should be recognized and specific rules established to avoid lack of consistency in the OTIF-, EC- and CIS-related obligations for the same vehicle.
9. Rolling stock placed in service for the first time in a third country and intended to be used in a Contracting State as part of the common 1520 mm rail system wagons fleet shall not be registered in the NVR. However, the Contracting State must make it possible to retrieve safety critical information from the Information Database of the CIS Council of Railway Transport.
10. The Committee of Technical Experts shall follow-up the implementation of the NVR architecture.
11. The Contracting States which are also Members of the European Community are subject to Commission Decision 2007/756/EC and they are not subject to this document. However the European Rail Agency and the Secretary General shall cooperate in order to make sure that the NVR architectures implemented in the EC and in OTIF are interconnected in order to allow an adequate exchange of data.

List of Annex and Appendices

Annex: National Vehicle Register – specification

Appendix 1: Restrictions coding

Appendix 2: EIN - European Identification Number for documents

Appendix 3: Withdrawal coding

Appendix 4: Standard form for application

Appendix 5: Glossary

ANNEX

Specification of the NVR

1. DATA

The following list presents the dataelements to be included in the NVR, their format and whether the data shall be compulsory or optional.

The element numbering follows the logic of the proposed standard registration form in Appendix 4.

In addition, field(s) for comments may be added such as identification of vehicles under investigation (see section 3.4).

Where country codes are indicated as ISO, they are in principle according to ISO 3166 (the 2 letter code) with some exceptions for Greece and United Kingdom; the letter codes to be used are indicated in Appendix 2, table 1.

1.	Vehicle Number		Compulsory
Content	Unique numeric identification code as defined in (future) APTU Annex OPE.		
Format	1.1.	Number	12 digit (*)
	1.2.	Previous number (if applicable, for renumbered vehicle)	12 digit (*)

(*) The 8 digit numbering system of the Council of railway Transport of the Commonwealth of independent States (CIS) might also apply.

2.	Contracting State and Authorising Competent Authority		Compulsory
Content	Identification of the State where the vehicle has been authorised first and the authorising competent authority. For vehicles coming from a third country, the MS where it was authorised first.		
Format	2.1.	State numeric code as defined in Appendix 2, table 1	2 digit code
	2.2.	Name of the authorising authority	Text

3.	Manufacturing year		Compulsory
Content	The year in which the vehicle left the factory.		
Format	3.	Manufacturing year	YYYY

4.	EC-/OTIF reference	Compulsory
Content	Reference to the declaration of verification, <u>if any</u> , and the issuing body (Contracting entity)	
Format	4.1.	Date of declaration, <u>if any</u>
	4.2.	EC-/OTIF-reference, <u>if any</u>
	4.3.	Name of Contracting entity
	4.4.	Registered business number
	4.5.	Address of the organisation, street and number
	4.6.	Town
	4.7.	Country code
	4.8.	Post code

5.	Reference to the Register of Authorised Types	Compulsory
Content	Reference to the Central Register of Authorised Types (5.7) or, as long as this register is not yet available, to the entity in charge of the register where the technical data of the vehicle can be found (5.1 to 5.6)	
Format	5.1.	Entity in charge of the register
	5.2.	Address of the entity, street and number
	5.3.	Town
	5.4.	Country code
	5.5.	Post code
	5.6.	E-mail address
	5.7.	Reference to the Central Register of Authorised Types

6.	Restrictions		Compulsory
Content	Any restrictions on how the vehicle may be used		
Format	6.1.	Coded restrictions (see Appendix 1)	Code
	6.2	Non coded restrictions	Text

7.	Owner		Optional
Content	Identification of the owner of the vehicle		
Format	7.1.	Name of the organisation	Text
	7.2.	Registered business number	Text
	7.3.	Address of the organisation, street and number	Text
	7.4.	Town	Text
	7.5.	Country code	ISO
	7.6.	Post code	Alphanumeric code

8.	Keeper		Compulsory
Content	Identification of the keeper of the vehicle		
Format	8.1.	Name of the organisation	Text
	8.2.	Registered business number	Text
	8.3.	Address of the organisation, street and number	Text
	8.4.	Town	Text
	8.5.	Country code	ISO
	8.6.	Post code	Alphanumeric code
	8.7.	VKM – optional	Alphanumeric code

9.	Entity in charge of maintenance (ECM)		Compulsory
Content	Reference to the entity in charge of the maintenance		
Format	9.1.	Entity in charge of the maintenance	Text
	9.2.	Address of the entity, street and number	Text
	9.3.	Town	Text
	9.4.	Country code	ISO
	9.5.	Post code	Alphanumeric code
	9.6.	E-mail address	E-mail

10.	Withdrawal		Compulsory when applicable
Content	Date of official scrapping and/or other disposal arrangement and the code for the withdrawal mode.		
Format	10.1.	Mode of disposal (see Appendix 3)	2 digit code
	10.2.	Withdrawal date	Date

11.	States where the vehicle is authorised		Compulsory
Content	List of the States where the vehicle is admitted to operation. ¹		
Format	11.	State: numeric code as defined in Appendix 2, table 1	List

12.	Authorisation number		Compulsory
Content	Harmonised authorisation number for admission to operation (placing into service), generated by the authorising competent authority.		
Format	12.	Authorisation number	Alphanumeric code based on EIN, see Appendix 2.

¹ The list shall include the States which initially registered the vehicle. This element is only to be updated in the NVR of that State.

13.	Admission to operation		Compulsory
Content	Date of admission to operation of the vehicle and its validity		
Format	13.1.	Date of the admission	Date (YYYYMMDD)
	13.2.	Admission valid until	Date (included)
	13.3.	Suspension of admission	Yes/No

2. ARCHITECTURE

2.1 The EC global NVR architecture

The NVR registers are being implemented in the EC by means of a decentralised solution. The objective is to implement a search engine on distributed data, using a common software application, which allows Users to retrieve data from all the Local Registers (LR) in the Member States.

NVR data is stored at national level and will be accessible by using a web-based application (with its own web address).

The European Centralised Virtual Vehicle Register (EC VVR) is composed of two sub-systems:

- the Virtual Vehicle Register (VVR), which is the central search engine in the European Railway Agency
- the National Vehicle Register(s) (NVR), which are the LR in the EC Member States .

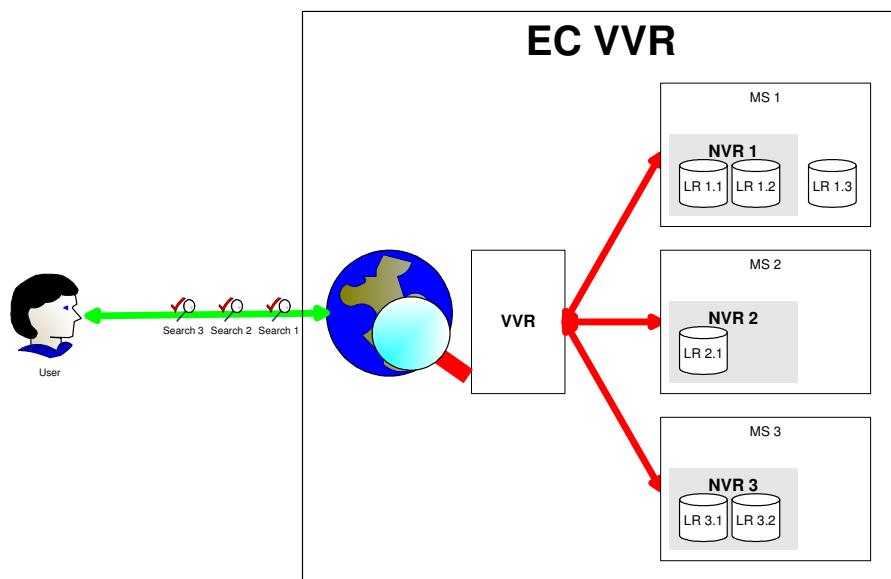


Figure 1 – EC-VVR architecture

This architecture is based on two complementary sub-systems that enable searches on data which are stored locally in all EC MS and consists of:

- establishing computerised registers at the national level and opening them to cross-consultation;
- replacing paper registers by computerised records. This will allow the EC MS to manage and share information with other EC MS;
- allowing connections between the NVRs and the VVR, using common standards and terminology.

The main principles of this architecture are:

- all NVRs will become part of the computer based, network system;
- all EC MS when accessing the system will view the common data;
- double registration of data and the related possible errors will be avoided once the VVR has been established;
- up-to-date data.

This architecture is being implemented through the following steps:

- adoption of Commission Decision 2007/756/EC of 9 November 2007 adopting a common specification of the national vehicle register provided for under Article 14(4) and (5) of Directives 96/48/EC and 2001/16/EC;
- implementation of a pilot project by the Agency, including the VVR with at least three EC Member States' NVRs connected to it, including a successful connection of an existing NVR using a translation engine. This pilot project is almost finished;
- evaluation of the pilot project and, where appropriate, updating of the above mentioned Commission Decision;
- publication by the Agency of the specification to be used by EC Member States to connect their NVRs with the central VVR;
- as a last step, by a separate decision and following an evaluation of the pilot project, the connection of all national NVRs to the central VVR.

2.2 The OTIF global NVR architecture

Contracting States which are not EC Member States and which are not subject to EC legislation due to other international agreements will have the choice among three solutions:

- (a) setting up their own NVR by means of the standard NVR software developed by the European Rail Agency. These NVRs will be connected to the EC VVR by means of the standard protocol included in the standard package;
- (b) setting up their own NVR by means of an own developed software. These NVRs will have to be connected to the EC VVR by means of a translation engine to be developed by the Contracting State. This solution may not impose a modification to the existing EC VVR.
- (c) asking the Secretary General to set up and maintain their NVR. In this solution the Secretary General shall set up a "multiple" NVR by means of the standard NVR software and shall connect it to the EC VVR in such a way that full exchange of data between EC and non EC NVRs is possible. The Secretary General may apply the standard NVR software from the European Railway Agency or develop a software (translation engine to the VVR inclusive) on his own. The SG may in both cases develop interfaces to the REs in those non-EC OTIF Member States who have chosen to keep their data in the central SG "multiple" NVR in order that they can update their NVR records.

3. OPERATING MODE

3.1 The use of the NVR

The NVR shall be used with the following purposes:

- Record of authorisation
- Record of the vehicle number (EVN) allocated to vehicles,
- Looking for OTIF wide (including EC), brief information related to a particular vehicle,
- Follow up legal aspects like obligations and juridical information,
- Information for inspections mainly related to safety and maintenance,
- Enable contact with the owner, the keeper and the ECM (Entity in Charge of Maintenance),
- Cross-check some safety requirements before issuing Safety Certificate (in the EC),
- Follow up a particular vehicle.

3.2 Application forms

3.2.1 Application for registration

The form to be used is in Appendix 4.

The entity applying for a vehicle registration ticks in the box corresponding to "New registration". It then fills in the first part of the form with all the necessary information from item 2 to item 9 & item N°11 and then forwards it to the:

- RE (Registering Entity) of the State where registration is sought,
- RE of the first State where it intends to operate for a vehicle coming from a third country.

3.2.2 Registering a vehicle and issuing a Vehicle Number.

In the case of first registration, the RE concerned issues the Vehicle Number.

It is possible to have an individual registration form per vehicle or a single form for a whole set of vehicles of the same series or order attached with a list of the vehicle numbers.

The RE shall take reasonable steps to ensure the accuracy of the data it enters in the NVR. To this end the RE can request information from other REs, in particular when the entity applying for registration in a State is not established in that State.

3.2.3 Changing one or more registration item(s)

The entity applying for a change of its vehicle registration item(s):

- ticks in the box corresponding to "Modification",
- fills in the actual EVN (item N°0),
- ticks in the box related to the modified item(s),

- indicate the new content of the modified item(s), and then forwards the form to the RE of any State where the vehicle is registered.

The use of the standard form might not be sufficient for certain cases. If necessary, the RE concerned may, therefore use additional documents either paper or electronic.

Should a keeper change, it is the responsibility of the keeper currently registered to notify the RE and the RE has to notify the new keeper of the change of registration. The former keeper is only removed from the NVR and relieved of his responsibilities when the new keeper has acknowledged the acceptance of keeper status.

Should an owner change, it is the responsibility of the owner currently registered to notify the RE. Then the former owner will be removed from the NVR. The new owner may request his details to be entered into the NVR.

Following the registration of changes, , the ACA (Authorising Competent Authority) may deliver a new authorisation number and in some cases a new EVN.

3.2.4 Withdrawal of registration

The entity applying for a withdrawal of registration ticks in the box corresponding to "Withdrawal". It then fills in the item N° 10. and forwards it to the RE of any State where the vehicle is registered.

The RE delivers the withdrawal registration by filling in the date of withdrawal and acknowledging the withdrawal to the said entity.

3.2.5 Authorisation in several States

When a vehicle already authorised and registered in one State is authorised in another Contracting State, it needs to be registered in the NVR of the latter Contracting State. However, in this case, only data related to Items 1, 2, 6, 11, 12 and 13 have to be recorded, as these data only relate to the latter State.

As long as the VVR and the link with all NVRs are not fully operational, the Registration Entities concerned shall exchange information in order to ensure that data relating to the same vehicle is consistent.

Freight wagons and passenger coaches² are only registered in the NVR of the Contracting State where they are first admitted to operation.

3.3 Access rights

The access rights to data of a NVR from a given State "XX" are listed in the table below, in which the access codes are defined as follows:

Access code	Type of access
0	No access
1	Restricted consultation (conditions in column 'Read rights')
2	Unrestricted consultation
3	Restricted consultation and updating
4	Unrestricted consultation and updating in own NVR

Each RE shall have full access and update rights only for the data in its own database. Therefore, the access coding is shown as 4.

² Powered trainsets are not considered as passenger coaches.

Entity	Definition	Read rights	Update rights	Item N° 7	All other items
RE / ACA 'XX'	Registration Entity/competent body in Contracting State 'XX'	All data	All data	4	4
Other competent bodies/ACAs/REs	Other competent bodies, other authorising competent authorities and/or other Registration Entities	All data	None	2	2
ERA and OTIF SG	European Railway Agency and OTIF Secretary General	All data	None	2	2
Keepers	Vehicle Keeper	All data of vehicles for which he is keeper	None	1	1
Fleet managers	Managing vehicles as appointed by the / Keeper	Vehicles for which he has been appointed by the keeper	None	1	1
ECMs	Entities in charge of maintenance	All data of vehicles for which he is the ECM	None	1	1
Owners	Owner of the vehicle	All data of vehicles for which he is owner	None	1	1
Rus	Train Operator	All data based on vehicle number	None	0	1
Ims	Infrastructure Managers	All data based on vehicle number	None	0	1
IBs	Investigation and auditing bodies (designated by Contracting States)	All data for vehicles being checked or audited	None	2	2
Other legitimate users	All casual users recognised by national competent bodies, OTIF SG and ERA	To define occasional, duration could be limited	None	0	1

3.4 Historical records

All data in the NVR must be retained for 10 years from the date a vehicle is withdrawn and deregistered. As a minimum, for the first three years data must be available on-line. After three years data may be kept either electronically, in paper form or any other archival system. If at any time during the 10-year period an investigation involving a vehicle or vehicles is started, data relating to these vehicles must be retained beyond the 10-year period if so required.

Any changes in the NVR should be recorded. The management of the historical changes could be solved by IT technical functions.

4. EXISTING VEHICLES

4.1 Considered data content

Each of the 13 retained items have been considered in order to specify which of them are compulsory and which are not.

4.1.1 Item N°1 – Vehicle Number (Compulsory)

a) Case of vehicles already numbered with a 12 digit identification

Countries where there is a unique country code: the vehicles should keep their current number. The 12 digit number should be registered as such without any modification.

Countries where there are both a main country code and a specific code allocated formerly:

- Germany with the main country code 80 and the specific code 68 for AAE (Ahaus Alstätter Eisenbahn);
- Switzerland with the main country code 85 and the specific code 63 for BLS (Bern–Lötschberg–Simplon Eisenbahn);
- Italy with the main country code 83 and the specific code 64 for FNME (Ferrovie Nord Milano Esercizio);
- Hungary with the main country code 55 and the specific code 43 for GySEV/ROeEE (Győr–Sopron–Ebenfurti Vasút Részvénnytársaság / Raab–Ödenburg–Ebenfurter Eisenbahn);
- Bosnia-Herzegovina with two specific railway codes, 50 for the Bosnian Federal Railway and 44 for the Railway of Republika Srpska.

The vehicles may keep their current number. The 12 digit number may be registered as such without any modification.³

The IT system has to consider both codes (main country code and specific code) as related to the same country.

Due to the tense political situation in Bosnia-Herzegovina, the solution for one unique numeric country code may not be to use one of the present codes, but to assign BA a new numeric code. Until then, also new vehicles may use the present railway codes.

b) Case of vehicles used in international traffic without a 12 digit identification

A two step procedure should apply:

- To allocate in the NVR a 12 digit number that shall be defined according to the vehicle's characteristics. The IT system should link this registered number to the current vehicle number.
- To physically apply the 12 digit number to the vehicle itself within a period of 6 years.

³ However any new vehicles placed in service for AAE, BLS, FNME and GySEV/ROeEE should be given the main country code.

c) Case of vehicles used in domestic traffic without a 12 digit identification

The above mentioned procedure might apply for vehicles used solely in domestic traffic on a voluntary basis.

4.1.2 Item N°2 – State and competent body (Compulsory)

The Item 'State' must always refer to the State where the vehicle is being registered in its NVR. The Item 'competent body' refers to the entity which has delivered the admission to operation.

4.1.3 Item N°3 – Manufacturing Year

Where the manufacturing year is not known precisely the approximate year should be entered.

4.1.4 Item N°4 – EC-/OTIF-reference (Contracting entity)

Normally such a reference does not exist for existing vehicles. To be recorded only if available.

4.1.5 Item N°5 – Reference to the Register of Authorised Types (ATR)

To be recorded only if available

4.1.6 Item N°6 – Restrictions

To be recorded only if available

4.1.7 Item N°7 – Owner

To be recorded only if the Contracting State decides so and the data is available

4.1.8 Item N°8 – Keeper (Compulsory)

Normally available and compulsory

4.1.9 Item N°9 – Entity in charge of maintenance

This item is compulsory.

4.1.10 Item N°10 – Withdrawal

Applicable as such.

4.1.11 Item N°11 – States where the vehicle is authorised

Normally RIV wagons, RIC coaches and vehicles under bilateral or multilateral agreements are registered as such. If this information is available it should be recorded accordingly.

4.1.12 Item N°12 – Authorisation number

To be recorded only if available

4.1.13 Item N°13 – Admission to operation (Compulsory)

Where the date of admission to operation is not known precisely, the approximate year should be entered.

4.2 Procedure

The entity which was previously responsible for vehicle registration should make all information available to the national competent body or RE of the country where it is located. Existing freight wagons and passenger cars should only be registered in the NVR of the State where the former registration entity was located.

If an existing vehicle had been authorised in several States, the RE which registers this vehicle shall send the relevant data to the REs of the other States concerned.

The competent body or RE takes over the information in its NVR.

The competent body or RE informs all the involved parties when the information transfer is completed. At least the following entities should be informed:

- The entity previously responsible for vehicle registration
- The keeper
- ERA or OTIF Secretary General ⁴

4.3 Transitional period

4.1.14 *Making registration information available to national competent body*

The former registering entity responsible for vehicle registration should make all required information available according to an agreement between itself and the RE. The data transfer should be done at least within 12 months following the entry into force of the CTE decision. If possible electronic format should be used.

4.1.15 *Vehicles used in international traffic*

The RE of each Contracting State should take these vehicles into its NVR within 2 years, at the latest, after the entry into force of the CTE decision.

See also 4.1.1 b)

⁴ If the competent body/RE belongs to an EC Member State then ERA should be informed, else the OTIF Secretary General.

APPENDIX 1 – RESTRICTIONS CODING

1. PRINCIPLES

Restrictions (technical characteristics) already recorded in other Registers to which access is given to ACAs do not need to be repeated in the NVR.

Acceptance in cross-border traffic is based on:

- the information coded in the vehicle number,
- the alphabetical coding,
- and the vehicle marking.

Therefore such information does not need to be repeated in the NVR.

2. STRUCTURE

The codes structured for three levels:

- 1st level: Category of restriction
- 2nd level: Type of restriction
- 3rd level: Value or specification.

Restriction Coding

Cat	Type	Value	Name
1			Technical restriction related to construction
	1	Numeric (3)	Minimum curve radius in meters
	2	-	Track circuit restrictions
	3	Numeric (3)	Speed restrictions in Km/h (Marked on wagons and coaches but not marked on locos)
2			Geographical restriction
	1	Alphanumeric (3)	Kinematic gauge (coding in future APTU Annex)
	2	Coded list	Wheelset gauge
		1	Variable gauge 1435/1520
		2	Variable gauge 1435/1668
	3	-	No CCS on board
	4	-	ERTMS A on board
	5	Numeric (3)	B System on board *
3			Environmental restrictions
	1	Coded list	Climatic zone EN50125/1999
		1	T1
		2	T2
		3	T3
4			Restrictions on use included in the authorisation certificate
	1	-	Time based
	2	-	Condition based (distance travelled, wear, etc)

* If the vehicle is equipped with more than one B system, an individual code for each system shall be indicated.

The numeric code is composed of three characters where:

- 1xx is used for a vehicle equipped with a signalling system
- 2xx is used for a vehicle equipped with radio
- Xx corresponds to the numerical coding of future APTU Annex

APPENDIX 2 – STRUCTURE AND CONTENT OF THE EIN

Code for the harmonised numbering system, called European Identification Number (EIN), for Safety Certificates and other documents

Example:

I	T	5	1	2	0	0	6	0	0	0	5
Country code (2 letters)	Type of document (2 digits)	Issue year (4 digits)				Counter (4 digits)					

{ Field 1 } { Field 2 } { Field 3 } { Field 4 }

FIELD 1 - Country code (2 letters)

Table 1.

COUNTRY	CODE	
Albania	AL	41
Algeria	DZ	92
Armenia	AM	58
Austria	AT	81
Azerbaijan	AZ	57
Belarus	BY	21
Belgium	BE	88
Bosnia-Herzegovina [#]	BA	(50)
-“-		(44)
Bulgaria	BG	52
Croatia	HR	78
Cyprus	CY	-
Czech Republic	CZ	54
Denmark	DK	86
Egypt	EG	90
Estonia	EE	26
Finland	FI	10
France	FR	87
Georgia	GE	28
Germany	DE	80
Greece	EL*	73
Hungary	HU	55
COUNTRY	CODE	
<i>Iceland</i>	IS	-
Iran	IR	96
Iraq	IQ	99
Ireland	IE	60
<i>Israel</i>	IL	95
Italy	IT	83
Japan	JP	42
Kazakhstan	KZ	27
<i>Kyrgyzstan</i>	KG	59
Latvia	LV	25
Lebanon	LB	98
Liechtenstein	LI	-
Lithuania	LT	24
Luxembourg	LU	82
FYR Macedonia	MK	65
<i>Malta</i>	MT	-
Moldova	MD	23
Monaco	MC	-
<i>Mongolia</i>	MN	31
Montenegro	ME	?
Morocco	MA	93
Netherlands	NL	84
COUNTRY	CODE	
North Korea	KP	30
Norway	NO	76
Poland	PL	51
Portugal	PT	94
Romania	RO	53
<i>Russia</i>	RU	20
Serbia	RS	72
Slovak Republic	SK	56
Slovenia	SI	79
South Korea	KR	61
Spain	ES	71
Sweden	SE	74
Switzerland	CH	85
Syria	SY	97
Tajikistan	TJ	66
Tunisia	TN	91
Turkey	TR	75
<i>Turkmenistan</i>	TM	67
Ukraine	UA	22
United Kingdom	UK*	70
<i>Uzbekistan</i>	UZ	29
Vietnam	VN	32

* Not according to ISO 3166 (2 letter code), but the European Community abbreviation

Bosnia-Herzegovina is a federal state and uses 2 railway codes, see point 4.1.1 in the Annex
A country indicated in italics is not a member of OTIF

FIELD 2 – Type of document (2 digit number)

Two digits allow identifying the type of document:

- the first digit identifies the general classification of the document;
- the second digit specifies the subtype of document.

With the need for other codes this numbering system can be extended. The following is the proposed list of known, possible combinations of two digit numbers extended with the proposal for authorisation for placing in service of vehicles :

Fields in blue are for EC Members States		
Number combination for field 2	Document Type	Subtype of document
[0 1]	Licences	Licences for RUs
[0 x]	Licences	Others
[1 1]	Safety Certificate	Part A
[1 2]	Safety Certificate	Part B
[1 x]	Safety Certificate	Others
[2 1]	Safety Authorisation	Part A
[2 2]	Safety Authorisation	Part B
[2 x]	Safety Authorisation	Others
[3 x]	Reserved	e.g. maintenance for rolling stock, for infrastructure or others
[4 x]	reserved for assessing bodies	e.g. different kinds of assessing bodies (e.g. Notified Bodies)
[5 1] and [5 5]*	Authorisation for placing in service or Admission to Operation	Tractive rolling stock
[5 2] and [5 6]*	Authorisation for placing in service or Admission to Operation	Hauled passenger vehicles
[5 3] and [5 7]*	Authorisation for placing in service or Admission to Operation	Wagons
[5 4] and [5 8]*	Authorisation for placing in service or Admission to Operation	Special vehicles
[6 x] ... [9 x]	Reserved (4 document types)	Reserved (10 subtypes each)

FIELD 3 – Issue year (4 digit number)

This field indicates the year (in the specified format yyyy, i.e. 4 digits) in which the authorisation/admission has been issued.

FIELD 4 – Counter

The counter shall be a progressive number to be incremented by one unit each time a document is issued, regardless if it is a new, renewed or updated/amended authorisation. Even in the case when

a certificate is revoked or an authorisation is suspended, the number to which it refers cannot be used again.

Every year the counter shall restart from zero.

(*) If the 4 digits foreseen for field 4 'Counter' is fully used within a year, the first two digits of field 2 will move respectively from:

[5 1] to [5 5] for tractive rolling stock,

[5 2] to [5 6] for hauled passenger vehicles,

[5 3] to [5 7] for wagons,

[5 4] to [5 8] for special vehicles.

APPENDIX 3 – WITHDRAWAL CODING

Code	Withdrawal mode	Description
00	None	The vehicle has a valid registration.
10	Registration suspended No reason specified	The vehicle's registration is suspended at the request of the owner or keeper or by a decision of the competent body or RE.
11	Registration suspended	The vehicle is destined for storage in working order as an inactive or strategic reserve.
20	Registration transferred	The vehicle is known to be re-registered under a different number or by a different NVR, for continued use on (a whole or part of the) EC-OTIF railway network.
30	De-registered No reason specified	The vehicle's registration for operating on the EC-OTIF railway network has ended without known re-registration.
31	De-registered	The vehicle is destined for continued use as a rail vehicle, outside the EC-OTIF railway network.
32	De-registered	The vehicle is destined for the recovery of major interoperable constituents/ modules/ spares or major rebuilding
33	De-registered	The vehicle is destined for scrapping and disposal of materials (including major spares) for recycling.
34	De-registered	The vehicle is destined as 'historic preserved rolling stock' for operation on a segregated network, or for static display, outside the EC-OTIF railway network.

Use of codes

- If the reason for withdrawal is not specified, codes 10, 20 & 30 shall be used to indicate the change of registration status.
- If the reason for withdrawal is available: codes 11; 31; 32; 33 & 34 are options available within the NVR database. These codes are based solely on information provided by the keeper or owner to the RE.

Registration issues

- A vehicle with registration suspended or de-registered may not operate on the EC-OTIF railway network under the recorded registration.
- A reactivation of a registration shall require a re-authorisation by the competent body, under conditions related to the cause or reason for the suspension and de-registration.
- A transfer of registration takes place within the framework set by APTU-ATMF Appendices.

APPENDIX 4 – STANDARD FORM FOR REGISTRATION



STANDARD FORM FOR REGISTRATION OF AUTHORISED VEHICLES⁵



Application objective: New registration Modification ⁶ Withdrawal

INFORMATION ABOUT THE VEHICLE

1. **Vehicle number**⁷ _____ - __

2. **Contracting State and the competent authority where the authorisation is requested**

2.1. Contracting state: __ __ (2 digit code according to Appendix 2, table 1)

2.2. Name of the competent authority: _____

3. **Manufacturing year:** _____

4. **EC-/OTIF-reference ***

4.1. Date of the declaration, if any: _____

4.2. EC-/OTIF reference, if any: _____

4.3. Name of the issuing body/Contracting entity: _____

4.4. Registered business number: _____

Address of the organisation

4.5. Street and number: _____

4.6. Town: _____

4.7. Country code: _____ 4.8. Post code: _____

*) **Note:** If an EC declaration of verification has been issued (by the contracting entity) the related data should be entered. So far, OTIF does not require a similar declaration, but the data related to the Contracting entity should be entered in 4.3 – 4.8.

5. **Reference to the register of authorised types (the technical data)**

5.1. Entity in charge of the register: _____

Address of the entity

5.2. Street and number: _____

5.3. Town: _____

5.4. Country code: _____ 5.5. Post code: _____

⁵ This form may also be produced electronically.

⁶ The box before the modified item also has to be ticked.

⁷ Does not apply for the first registration; will be filled by the registering entity.

10. Withdrawal

10.1. Mode (code): _____

10.2. Date: _____

11. Contracting States where the vehicle is already authorised

Identification of the entity applying for registration:

Date: _____ Name of the responsible officer and Signature:

This part to be filled by the authority

COMPETENT AUTHORITY REFERENCES

1.1. **Allocated Vehicle number**⁸ _____

12. **Authorisation number** _____

13. **Admission to operation (Placing in service)**

13.1. Date of the admission: _____

13.2. Admission valid until: _____

Date application received: _____

Date of withdrawal: _____

⁸ Possible to attach a list for several vehicles of the same series or order

APPENDIX 5 – GLOSSARY

Abbreviation	Definition
ACA	Authorising Competent Authority: competent authority as referred to in Article 5 of ATMF
CCS	Control Command System
CIS	Commonwealth of Independent States
COTIF	Convention concerning International Carriage by Rail
CR	Conventional Rail (System)
CTE	OTIF Committee of Technical Experts
DB	Database
EC	European Community
ECM	Entity in charge of Maintenance
EC VVR	European Centralized Virtual Vehicle Register
EIN	European Identification Number
EN	European Standard (Euro Norm)
EVN	European vehicle number
ERA	European Railway Agency, also referred to as “the Agency”
ERTMS	European Rail Traffic Management System
EU	European Union
HS	High speed (System)
IB	Investigating Body
ISO	International Organisation for Standardization
IM	Infrastructure Manager
INF	Infrastructure
IT	Information Technology
LR	Local Register
MS	Member State of the European Community
NoBo	Notified Body
NSA	National Safety Authority

Abbreviation	Definition
NVR	National Vehicle Register
OPE (TSI)	Traffic Operation and management (TSI)
OTIF	Intergovernmental Organisation for International Carriage by Rail
OTIF SG	OTIF Secretary General
RE	Registration Entity, e.g. the body responsible for keeping and updating the NVR
RB	Regulatory Body
RIC	Regulations governing the reciprocal use of carriages and brake vans in international traffic
RIV	Regulations concerning the reciprocal use of wagons in international traffic
RS or RST	Rolling Stock
RSRD (TAF)	Rolling Stock Reference Database (TAF)
RU	Railway Undertaking.
SEDP (TAF)	Strategic European Deployment Plan (TAF)
TAF (TSI)	Telematic Application for Freight (TSI)
TSI	Technical Specification for Interoperability. (for the EC)
VKM	Vehicle Keeper Marking
VKMR	Vehicle Keeper Marking Register
VVR	Virtual Vehicle Register
WAG (TSI)	Wagon (TSI)
WIMO (TAF)	Wagon and Intermodal Operational Database (TAF)