

AKKREDITERING

til produktcertificering

Reg. nr. 7045

Virksomhed	Ricardo Certification Denmark ApS Nørre Farimagsgade 11, 2 th, 1364 København K CVR: 36893885
Akkrediteringsområde	Certificering af produkter for overensstemmelse med krav i <ul style="list-style-type: none">• IOD-direktivet 2008/57/EF om interoperabilitet i jernbanesystemet, som specificeret i bilag 1• IOD-direktivet (EU)2016/797 om interoperabilitet i jernbanesystemet, som specificeret i bilag 2
Gyldighedsperiode	08-01-2020 til 28-02-2023
Erstatter dokument af	15-11-2019
Akkrediteringsgrundlag	DS/EN ISO/IEC 17065:2012 Certificeringsorganet opfylder kravene i DS/EN ISO/IEC 17065:2012 - Overensstemmelsesvurdering - Krav til organer, der certificerer produkter, processer og serviceydelser, samt de relevante bestemmelser for den akkrediterede virksomhed for ovennævnte akkrediteringsområde.

08-01-2020



Vesper Høy
Direktør



Inge-Lise Clausen
Ledende Assessor

Certificering af produkter for overensstemmelse med krav i IOD-direktivet 2008/57/EF om interoperabilitet i jernbanesystemet

IOD-direktivet er i Danmark implementeret ved Trafik-og Byggestyrelsens bekendtgørelse 1281/2015 om interoperabilitet i jernbanesystemet.

Verifikationssystemer: Overensstemmelsesvurdering baseret på EF-verifikation på grundlag af Kommissionens afgørelse 2010/713/EU og/eller specifikation i de enkelte tekniske forskrifter.

EF-overensstemmelseserklæring og anvendelsesegnethed for interoperabilitetskomponenter / bilag IV

EF-verifikationsprocedure for delsystemer / bilag VI

Overensstemmelsesorganet

- opfylder relevante krav for notificerede organer i direktiv 2008/57/EU
- anvender ikke underleverandører ved udførelse af nævnte overensstemmelsesvurderinger
- er medlem af sektor specifik koordineringsgruppe for notificerede organer
- opfylder ERA Assessment scheme (Technical Document 000MRA 1044, VER. 1.1)

Produkt	Procedure
1. Interoperabilitet i det transeuropæiske jernbanesystem for højhastighedstog 1.1 Infrastruktur	INF HS Dec 2002/732 INF HS Dec 2008/217 INF Reg 1299/2014 OMNI Dec 2012/462 OMNI Dec 2012/464 OMNI Reg 2019/776 PRM Dec 2008/164 PRM Reg 1300/2014 PRM Reg 2019/772 SRT Dec 2008/163 SRT Reg 1303/2014 SRT Reg 2016/912



1. Interoperabilitet i det transeuropæiske jernbanesystem for højhastighedstog 1.2 Energi	ENE HS Dec 2002/733 ENE HS Dec 2008/284 ENE Reg 1301/2014 OMNI Dec 2012/462 OMNI Dec 2012/464 OMNI Reg 2018/868 OMNI Reg 2019/776 SRT Dec 2008/163 SRT Reg 1303/2014 SRT Reg 2016/912
1. Interoperabilitet i det transeuropæiske jernbanesystem for højhastighedstog 1.3 Togkontrol og signaler	CCS Dec 2007/153 CCS Dec 2008/386 CCS Dec 2010/79 CCS Dec 2012/88 CCS Dec 2012/463 CCS Dec 2012/696 CCS Dec 2015/14 CCS HS Dec 2002/731 CCS HS Dec 2004/447 CCS HS Dec 2006/860 CCS Reg 2016/919 OMNI Dec 2012/462 OMNI Dec 2012/464 OMNI Reg 2019/776 SRT Dec 2008/163 SRT Reg 1303/2014 SRT Reg 2016/912
1. Interoperabilitet i det transeuropæiske jernbanesystem for højhastighedstog 1.4 Rullende materiel	CCS Reg 2016/919 LOC&PAS HS Dec 2002/735 LOC&PAS HS Dec 2008/232 LOC&PAS Reg 1302/2014 NOI Reg 1304/2014 NOI Reg 2019/774 OMNI Dec 2012/462 OMNI Dec 2012/464 OMNI Reg 2018/868 OMNI Reg 2019/776

	<p>PRM Dec 2008/164 PRM Reg 1300/2014 PRM Reg 2019/772 SRT Dec 2008/163 SRT Reg 1303/2014 SRT Reg 2016/912 WAG Reg 1236/2013 WAG reg 2015/924 WAG Reg 321/2013</p>
<p>2. Interoperabilitet i det transeuropæiske jernbanesystem for konventionelle tog 2.1 Infrastruktur</p>	<p>INF CR Dec 2011/275 INF Reg 1299/2014 OMNI Dec 2012/464 OMNI Reg 2019/776 PRM Dec 2008/164 PRM Reg 1300/2014 PRM Reg 2019/772 SRT Dec 2008/163 SRT Reg 1303/2014 SRT Reg 2016/912</p>
<p>2. Interoperabilitet i det transeuropæiske jernbanesystem for konventionelle tog 2.2 Energi</p>	<p>ENE CR Dec 2011/274 ENE Reg 1301/2014 OMNI Dec 2012/464 OMNI Reg 2018/868 OMNI Reg 2019/776 SRT Dec 2008/163 SRT Reg 1303/2014 SRT Reg 2016/912</p>
<p>2. Interoperabilitet i det transeuropæiske jernbanesystem for konventionelle tog 2.3 Togkontrolkontrol og signaler</p>	<p>CCS CR Dec 2006/679 CCS CR Dec 2009/561 CCS Dec 2007/153 CCS Dec 2008/386 CCS Dec 2010/79 CCS Dec 2012/88 CCS Dec 2012/463 CCS Dec 2012/696 CCS Dec 2015/14 CCS Reg 2016/919</p>



DANAK

Medlem af EA MLA

Reg. nr. 7045

Bilag 1 til akkrediteringsdokument af 08-01-2020

	OMNI Dec 2012/464 OMNI Reg 2019/776 SRT Dec 2008/163 SRT Reg 1303/2014 SRT Reg 2016/912
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2. Interoperabilitet i det transeuropæiske jernbanesystem for konventionelle tog	CCS Reg 2016/919
2.4 Rullende materiel	LOC&PAS CR Dec 2011/291
	LOC&PAS Reg 1302/2014
	NOI CR Dec 2006/66
	NOI CR Dec 2011/229
	NOI Reg 1304/2014
	NOI Reg 2019/774
	OMNI Dec 2012/462
	OMNI Dec 2012/464
	OMNI Reg 2018/868
	OMNI Reg 2019/776
	PRM Dec 2008/164
	PRM Reg 1300/2014
	PRM Reg 2019/772
	SRT Dec 2008/163
	SRT Reg 1303/2014
	SRT Reg 2016/912
	WAG CR Dec 2006/861
	WAG CR Dec 2009/107
	WAG Reg 1236/2013
	WAG reg 2015/924
	WAG Reg 321/2013

Certificering af produkter for overensstemmelse med krav i IOD-direktivet (EU)2016/797 om interoperabilitet i jernbanesystemet

IOD-direktivet er i Danmark implementeret ved Trafik-, Bygge- og Boligstyrelsens bekendtgørelse 664/2019 om interoperabilitet i jernbanesystemet.

Verifikationsystemer: Overensstemmelsesvurdering baseret på EF-verifikation på grundlag af Kommissionens afgørelse 2010/713/EU og/eller specifikation i de enkelte tekniske forskrifter, TSI.

EF-verifikationsprocedure for delsystemerne / bilag IV

EF-erklæringer om interoperabilitetskomponenternes overensstemmelse og anvendelighed / Artikel 9.

Overensstemmelsesorganet

- opfylder relevante krav for notificerede organer i direktiv (EU)2016/797
- anvender ikke underleverandører ved udførelse af nævnte overensstemmelsesvurderinger
- er medlem af sektor specifik koordineringsgruppe for notificerede organer
- opfylder ERA Assessment scheme (Technical Document 000MRA 1044, VER. 1.1)

Produkt	Procedure
Infrastruktur	INF CR Dec 2011/275 INF HS Dec 2002/732 INF HS Dec 2008/217 INF Reg 1299/2014 OMNI Dec 2012/462 OMNI Dec 2012/464 OMNI Reg 2019/776 PRM Dec 2008/164 PRM Reg 1300/2014 PRM Reg 2019/772 SRT Dec 2008/163 SRT Reg 1303/2014 SRT Reg 2016/912
Energi	ENE CR Dec 2011/274 ENE HS Dec 2002/733 ENE HS Dec 2008/284 ENE Reg 1301/2014 OMNI Dec 2012/462 OMNI Dec 2012/464 OMNI Reg 2018/868

	<p>OMNI Reg 2019/776 SRT Dec 2008/163 SRT Reg 1303/2014 SRT Reg 2016/912</p>
Togkontrol og signaler	<p>CCS CR Dec 2006/679 CCS CR Dec 2009/561 CCS Dec 2007/153 CCS Dec 2008/386 CCS Dec 2010/79 CCS Dec 2012/88 CCS Dec 2012/463 CCS Dec 2012/696 CCS Dec 2015/14 CCS HS Dec 2002/731 CCS HS Dec 2004/447 CCS HS Dec 2006/860 CCS Reg 2016/919 OMNI Dec 2012/462 OMNI Dec 2012/464 OMNI Reg 2019/776 SRT Dec 2008/163 SRT Reg 1303/2014 SRT Reg 2016/912</p>
Rullende materiel	<p>CCS Reg 2016/919 LOC&PAS CR Dec 2011/291 LOC&PAS HS Dec 2002/735 LOC&PAS HS Dec 2008/232 LOC&PAS Reg 1302/2014 NOI CR Dec 2006/66 NOI CR Dec 2011/229 NOI Reg 1304/2014 NOI Reg 2019/774 OMNI Dec 2012/462 OMNI Dec 2012/464 OMNI Reg 2018/868 OMNI Reg 2019/776 PRM Dec 2008/164</p>

	PRM Reg 1300/2014 PRM Reg 2019/772 SRT Dec 2008/163 SRT Reg 1303/2014 SRT Reg 2016/912 WAG CR Dec 2006/861 WAG CR Dec 2009/107 WAG Reg 1236/2013 WAG reg 2015/924 WAG Reg 321/2013
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ACCREDITATION

for Product Certification


Reg. No 7045

Company	Ricardo Certification Denmark ApS Nørre Farimagsgade 11, 2 th, 1364 København K CVR: 36893885
Scope of accreditation	Certification of products for compliance with requirements in <ul style="list-style-type: none">• IOD-directive 2008/57/EC for Interoperability of the rail system within the Community, as specified in annex 1• IOD-directive (EU)2016/797 for Interoperability of the rail system within the Community, as specified in annex 2
Validity	08-01-2020 to 28-02-2023
Replaces document of	15-11-2019
Basis for accreditation	DS/EN ISO/IEC 17065:2012 The certification body complies with the requirements in DS/EN ISO/IEC 17065:2012 - Conformity assessment - Requirements for bodies certifying products, processes and services, together with the relevant provisions as an accredited body for the above mentioned scope of accreditation.

08-01-2020



Jesper Høy
Director



Inge-Lise Clausen
Lead Assessor

Certification of products for compliance with requirements in IOD-directive 2008/57/EC for Interoperability of the rail system within the Community

IOD directive is in Denmark implemented by the Danish Transport and Construction Authority, Executive Order 1281/2015 on railway interoperability.

Verification systems: Conformity assessment based on EC verification based on Commission Decision 2010/713/EU and/or specification in individual technical regulations.

EC declaration of conformity and suitability for use of interoperability constituents/Annex IV
EC verification procedure for subsystems / Annex VI

The conformity assessment body

- complies with relevant requirements for notified bodies in the Directive 2008/57/EU
- does not subcontract any tasks connected with the stated conformity assessment procedures
- is a member of the sector specific co-ordination group for Notified Bodies
- complies with ERA Assessment scheme (Technical Document 000MRA 1044, VER. 1.1)

Product	Procedure
1. Interoperability of the trans-European high-speed rail system 1.1 Infrastructure	INF HS Dec 2002/732 INF HS Dec 2008/217 INF Reg 1299/2014 OMNI Dec 2012/462 OMNI Dec 2012/464 OMNI Reg 2019/776 PRM Dec 2008/164 PRM Reg 1300/2014 PRM Reg 2019/772 SRT Dec 2008/163 SRT Reg 1303/2014 SRT Reg 2016/912



1. Interoperability of the trans-European high-speed rail system 1.2 Energy	ENE HS Dec 2002/733 ENE HS Dec 2008/284 ENE Reg 1301/2014 OMNI Dec 2012/462 OMNI Dec 2012/464 OMNI Reg 2018/868 OMNI Reg 2019/776 SRT Dec 2008/163 SRT Reg 1303/2014 SRT Reg 2016/912
1. Interoperability of the trans-European high-speed rail system 1.3 Control-command and signalling	CCS Dec 2007/153 CCS Dec 2008/386 CCS Dec 2010/79 CCS Dec 2012/88 CCS Dec 2012/463 CCS Dec 2012/696 CCS Dec 2015/14 CCS HS Dec 2002/731 CCS HS Dec 2004/447 CCS HS Dec 2006/860 CCS Reg 2016/919 OMNI Dec 2012/462 OMNI Dec 2012/464 OMNI Reg 2019/776 SRT Dec 2008/163 SRT Reg 1303/2014 SRT Reg 2016/912
1. Interoperability of the trans-European high-speed rail system 1.4 Rolling stock	CCS Reg 2016/919 LOC&PAS HS Dec 2002/735 LOC&PAS HS Dec 2008/232 LOC&PAS Reg 1302/2014 NOI Reg 1304/2014 NOI Reg 2019/774 OMNI Dec 2012/462 OMNI Dec 2012/464 OMNI Reg 2018/868 OMNI Reg 2019/776



	PRM Dec 2008/164 PRM Reg 1300/2014 PRM Reg 2019/772 SRT Dec 2008/163 SRT Reg 1303/2014 SRT Reg 2016/912 WAG Reg 1236/2013 WAG reg 2015/924 WAG Reg 321/2013
2. Interoperability of the trans-European conventional rail system 2.1 Infrastructure	INF CR Dec 2011/275 INF Reg 1299/2014 OMNI Dec 2012/464 OMNI Reg 2019/776 PRM Dec 2008/164 PRM Reg 1300/2014 PRM Reg 2019/772 SRT Dec 2008/163 SRT Reg 1303/2014 SRT Reg 2016/912
2. Interoperability of the trans-European conventional rail system 2.2 Energy	ENE CR Dec 2011/274 ENE Reg 1301/2014 OMNI Dec 2012/464 OMNI Reg 2018/868 OMNI Reg 2019/776 SRT Dec 2008/163 SRT Reg 1303/2014 SRT Reg 2016/912
2. Interoperability of the trans-European conventional rail system 2.3 Control-command and signalling	CCS CR Dec 2006/679 CCS CR Dec 2009/561 CCS Dec 2007/153 CCS Dec 2008/386 CCS Dec 2010/79 CCS Dec 2012/88 CCS Dec 2012/463 CCS Dec 2012/696 CCS Dec 2015/14 CCS Reg 2016/919

	<p>OMNI Dec 2012/464 OMNI Reg 2019/776 SRT Dec 2008/163 SRT Reg 1303/2014 SRT Reg 2016/912</p>
<p>2. Interoperability of the trans-European conventional rail system 2.4 Rolling stock</p>	<p>CCS Reg 2016/919 LOC&PAS CR Dec 2011/291 LOC&PAS Reg 1302/2014 NOI CR Dec 2006/66 NOI CR Dec 2011/229 NOI Reg 1304/2014 NOI Reg 2019/774 OMNI Dec 2012/462 OMNI Dec 2012/464 OMNI Reg 2018/868 OMNI Reg 2019/776 PRM Dec 2008/164 PRM Reg 1300/2014 PRM Reg 2019/772 SRT Dec 2008/163 SRT Reg 1303/2014 SRT Reg 2016/912 WAG CR Dec 2006/861 WAG CR Dec 2009/107 WAG Reg 1236/2013 WAG reg 2015/924 WAG Reg 321/2013</p>

Certification of products for compliance with requirements in IOD-directive (EU)2016/797 for Interoperability of the rail system within the Community

IOD-directive is in Denmark implemented by the Danish Transport, Construction and Housing Authority, Executive Order 664/2019 on railway interoperability.

Verification systems: Conformity assessment based on EC verification based on Commission Decision 2010/713/EU and/or specification in individual technical regulations, TSI.

EC verification procedure for subsystems / Annex IV

EC declaration of conformity and suitability for use of interoperability constituents/Article 9.

The conformity assessment body

- complies with relevant requirements for notified bodies in the Directive (EU)2016/797
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- is a member of the sector specific co-ordination group for Notified Bodies
- complies with ERA Assessment scheme (Technical Document 000MRA 1044, VER. 1.1)

Product	Procedure
Infrastructure	INF CR Dec 2011/275 INF HS Dec 2002/732 INF HS Dec 2008/217 INF Reg 1299/2014 OMNI Dec 2012/462 OMNI Dec 2012/464 OMNI Reg 2019/776 PRM Dec 2008/164 PRM Reg 1300/2014 PRM Reg 2019/772 SRT Dec 2008/163 SRT Reg 1303/2014 SRT Reg 2016/912
Energy	ENE CR Dec 2011/274 ENE HS Dec 2002/733 ENE HS Dec 2008/284 ENE Reg 1301/2014 OMNI Dec 2012/462 OMNI Dec 2012/464 OMNI Reg 2018/868

	<p>OMNI Reg 2019/776 SRT Dec 2008/163 SRT Reg 1303/2014 SRT Reg 2016/912</p>
CCS	<p>CCS CR Dec 2006/679 CCS CR Dec 2009/561 CCS Dec 2007/153 CCS Dec 2008/386 CCS Dec 2010/79 CCS Dec 2012/88 CCS Dec 2012/463 CCS Dec 2012/696 CCS Dec 2015/14 CCS HS Dec 2002/731 CCS HS Dec 2004/447 CCS HS Dec 2006/860 CCS Reg 2016/919 OMNI Dec 2012/462 OMNI Dec 2012/464 OMNI Reg 2019/776 SRT Dec 2008/163 SRT Reg 1303/2014 SRT Reg 2016/912</p>
Rolling stock	<p>CCS Reg 2016/919 LOC&PAS CR Dec 2011/291 LOC&PAS HS Dec 2002/735 LOC&PAS HS Dec 2008/232 LOC&PAS Reg 1302/2014 NOI CR Dec 2006/66 NOI CR Dec 2011/229 NOI Reg 1304/2014 NOI Reg 2019/774 OMNI Dec 2012/462 OMNI Dec 2012/464 OMNI Reg 2018/868 OMNI Reg 2019/776 PRM Dec 2008/164</p>

**Annex 2 to accreditation document of 08-01-2020**

	PRM Reg 1300/2014 PRM Reg 2019/772 SRT Dec 2008/163 SRT Reg 1303/2014 SRT Reg 2016/912 WAG CR Dec 2006/861 WAG CR Dec 2009/107 WAG Reg 1236/2013 WAG reg 2015/924 WAG Reg 321/2013
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