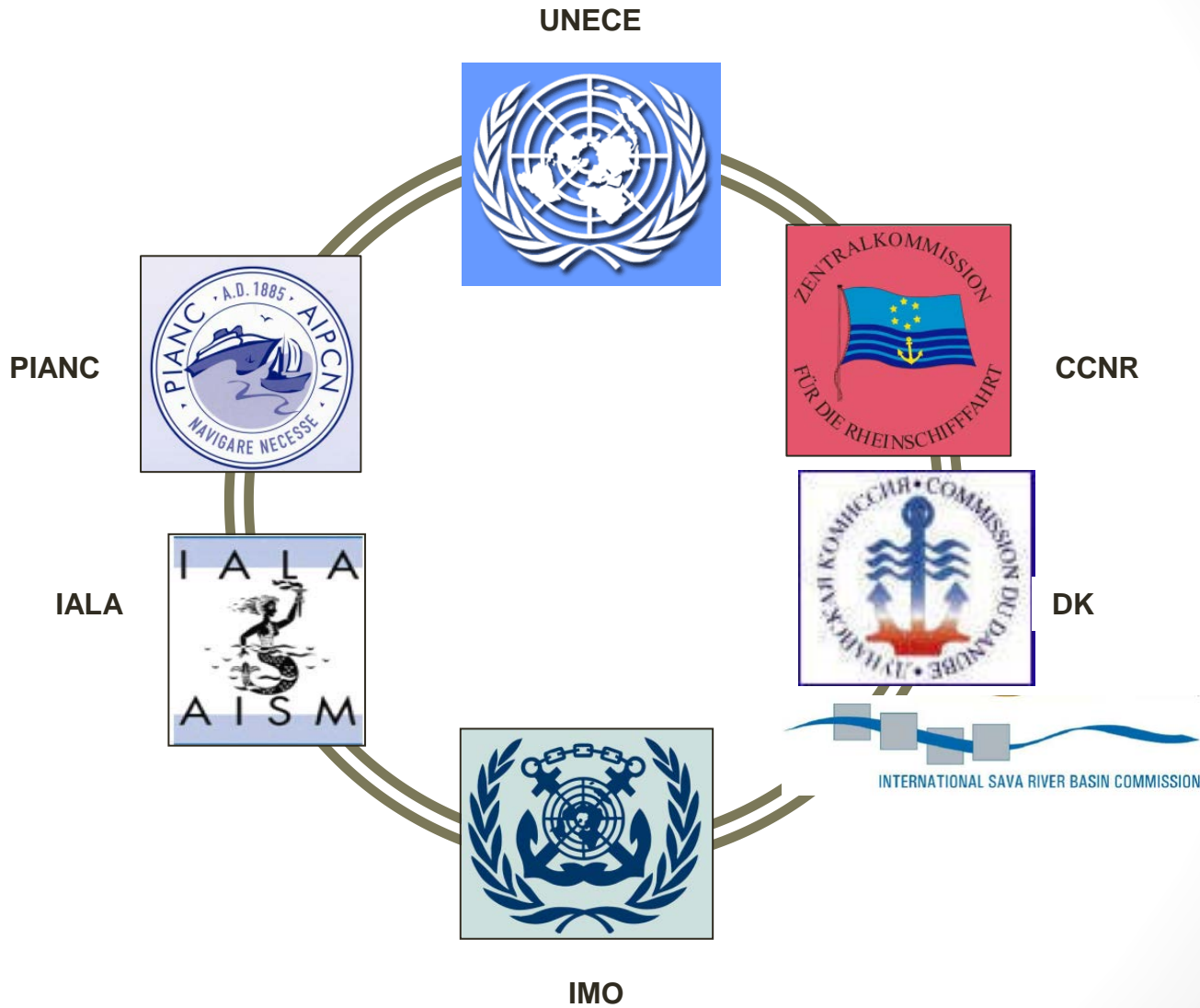


River Information Services- historical development and legal basis



A number of concepts and standardisation proposals for River Information Services have been developed in the research and development project *INDRIS* of the European Union .

These are:

- ✓ Guidelines and Recommendations for RIS, 1999 (used as starting point to the RIS Guidelines 2002 by the PIANC WG 24)
- ✓ Functional definition of the RIS concept, 1998
- ✓ Standardisation of data communication (AIS, GNSS, Internet), 1999
- ✓ Standards for tactical data exchange, communication and messages (Inland AIS), 1998
- ✓ Standardisation of data, 1998
- ✓ Standards of codes (country, location, terminal, type of vessel, cargo)
- ✓ RIS scenarios (functions)
- ✓ Data-interchange standards (Edifact, S-57 update mechanism)
- ✓ Reporting databases, 1999

The concept for Inland ECDIS has been developed in the German *ARGO* project in co-operation with *INDRIS*.

The concept for RIS architecture has been developed by the *WATERMAN* Thematic Network, a research action under the 5th Framework Programme of the EU in the fields of VTMISS (maritime navigation) and RIS.

1998

The European Union initiated elaborating of the Concept of River Information Services (RIS). The potential of RIS to bring inland navigation to a better position in the transport chain was also recognized by international organizations like UNECE, River Commissions – CCNR, DC and, later, the Sava Commission and the International Association for Navigation (PIANC).

1998-2002

PIANC established the Permanent Working Group 24 for elaboration of RIS Concept

2002

PWG24 developed in 2002 the Guidelines and Recommendations for River Information Services
(RIS Guidelines 2002)

2003

With the support of several EU Member States, the European Commission took the initiative to issue a Directive on River Information Services.

2004

Revisions of RIS Guidelines 2002 were drafted and published as **RIS Guidelines 2004**. Since the publication the further developments on services and standards as well as the technical and practical experience have taken place.

2004

UNECE Working Party on Inland Water Transport adopted two Resolutions on RIS:

- ✓ **Resolution No. 57** (adopted on 21.10.2004) “Guidelines and Recommendations for River Information Services (RIS Guidelines 2004)”
- ✓ **Resolution No. 58** (adopted on 21.10.2004) “Guidelines and Criteria for Vessel Traffic Services on Inland Waterways” .

These Guidelines use as basis “IALA Recommendation V-120, June 2001” and are compatible with SOLAS regulation V/8-2 and IMO Assembly Resolution A.857(20), 2001

2005

“**Directive 2005/44/EC** of the European Parliament and of the Council of September 7, 2005 on harmonised River Information Services (RIS) on inland waterways in the Community” came into force. RIS Guidelines 2004 are one of the basic regulations for this Directive.

The current legal framework for River Information Services is based on Directive 2005/44/EC, which defines binding rules for data communication as well as the minimum level of River Information Services for future RIS implementations.

UNECE **Resolution No.60** adopted by the Working Party on Inland Water Transport on 20.10.2005
“International Standards for Notices to Skippers and for Electronic Ship Reporting in Inland Navigation”

2006

UNECE **Resolution No.63** adopted by the Working Party on Inland Water Transport on 13.10.2006
“International Standard for Tracking and Tracing on Inland Waterways (VTT)”

2007

Three regulations on RIS, as referred to in Article 5 of Directive 2005/44/EC, of have been published:

- ✓ *Commission Regulations (EC) No 414/2007 of 13 March 2007* concerning the technical guidelines for the planning, implementation and operational use of river information services (RIS)
- ✓ *Commission Regulations (EC) No 415/2007 of 13 March 2007* concerning the technical specifications for vessel tracking and tracing systems (VTT)
- ✓ *Commission Regulations (EC) No 416/2007 of 22 March 2007* concerning the technical specifications for Notices to Skippers (NtS)

2010

PIANC established the Permanent Working Group 125 with the task to keep the Guidelines for River Information Services up to date. As a first result, PIANC published in 2011 an update of the RIS guidelines after having analysed the world wide status of the implementation of River Information Services. The **PIANC RIS Guidelines 2011 Ed.3** were formally accepted by the UNECE, Rhine Commission, Sava commission and Danube Commission

The first step towards the development of RIS standards was undertaken by a European RIS Platform, which was the basis for the participation of a large number of the European (EU and non-EU) national authorities to promote the standardised and harmonised implementation of RIS.

The European RIS platform supported in the early 2000"s the creation and installation of RIS Expert Groups aiming at the standardisation and harmonisation of the RIS key technologies.

Since that period Expert Groups have played a major role in the development of standards. The RIS Expert Groups are international technical platforms ensuring the harmonised development and maintenance of RIS standards. The RIS Expert Groups act as advisory bodies of institutions like the European Commission, the Central Commission for Navigation on the Rhine (CCNR), the Danube Commission (DC) and United Nations Economic Commission for Europe (UNECE) on RIS standardisation processes.

According to the RIS Directive the Member States have to implement RIS according to the defined standards and provide the minimum set of services:

- ✓ Minimum dataset related to infrastructure and the operation of locks, ports, etc;
- ✓ Electronic Nautical Charts (ENC) for fairway class Va and higher;
- ✓ Facilities for Electronic Reporting of vessels, their voyage and their cargo where reporting is regulated;
- ✓ Electronic publication of "Notices to Skippers";
- ✓ Establish and operate RIS Centres – if the traffic situation requires so.

The RIS Directive was the basis for the implementation of different standards for the following RIS key technologies: *Tracking and Tracing, Notice to Skippers, Electronic Reporting*

The first standards for the RIS key technologies: Inland ECDIS, Notice to Skippers (NtS), Vessel Tracking and Tracing (VTT) and Electronic Reporting International (ERI) were formally accepted by the CCNR and UNECE.

Correlation between UNECE and CCNR regulations (initial documents)



CCNR	UNECE
Inland ECDIS Standard	
Resolutions of the Central Commission for the Navigation of the Rhine of 31 May 2001 and 23 November 2006 and 29 November 2012: "Standard Electronic Chart Display and Information System for Inland Navigation (Inland ECDIS Standard)" (protocol 2001-I-16, 2006-II-22, 2012-II-20)	Resolution No. 48 (adopted by the Working Party on Inland Water Transport on 25.10.2001) "Recommendation on Electronic Chart Display and Information System for Inland Navigation (Inland ECDIS) TRANS/SC.3/156
Guidelines and Recommendations for River Information Services	
Protocol 22 "Guidelines and Recommendations for River Information Services (RIS Guidelines 2002) (2001-II-19, 2003-I-22 of 28.05.2003)	Resolution No. 57 adopted on 21 October 2004 by the Working Party on Inland Water Transport "Guidelines and Recommendations for River Information Services (RIS Guidelines 2004)" TRANS/SC.3/165
Guidelines and Criteria for Vessel Traffic Services on Inland Waterways	
Protocol 20 Guidelines and criteria for vessel traffic services on inland waterways (2006 VTS Guidelines)	Resolution No. 58 (adopted on 21 October 2004 by the Working Party on Inland Water Transport "Guidelines and Criteria for Vessel Traffic Services on Inland Waterways" TRANS/SC.3/166
International Standards for Notices to Skippers and for Electronic Ship Reporting in Inland Navigation	
Resolution of the Central Commission for Navigation on the Rhine (CCNR) of 28 May 2003: "Standard for Electronic Reporting in Inland Navigation" (Resolution 2003-I-23) Resolution of the Central Commission for the Navigation on the Rhine of 28 May 2004: "Notices to Skippers – International Standard" (Resolution 2004-I-17)	Resolution No.60 adopted by the Working Party on Inland Water Transport on 20 october 2005 "International Standards for Notices to Skippers and for Electronic Ship Reporting in Inland Navigation" ECE/TRANS/SC.3/175
International Standard for Tracking and Tracing on Inland Waterways (VTT)	
Resolution of the Central Commission for the Navigation of the Rhine (CCNR) of 31 May 2006: "Vessel Tracking and Tracing Standard for Inland Navigation (VTT Standard 2006)" (Protocol 2006-I-21)	Resolution No.63 adopted by the Working Party on Inland Water Transport on 13 October 2006 "International Standard for Tracking and Tracing on Inland Waterways (VTT) ECE/TRANS/SC.3/176

Actual RIS Regulations on June, 2016



European Union / European Council

DIRECTIVE 2005/44/EC
of the European Parliament and of the Council
of 7 September 2005 on harmonised river
information services (RIS) on inland waterways
in the Community

COMMISSION REGULATION (EC) No 414/2007
of 13 March 2007 concerning the technical
guidelines for the planning, implementation and
operational use of river information services (RIS)
referred to in Article 5 of Directive 2005/44/EC
of the European Parliament and of the Council on
harmonised river information services (RIS) on
inland waterways in the Community

COMMISSION REGULATION (EC) No 415/2007
of 13 March 2007 concerning the technical
specifications for vessel tracking and tracing
systems referred to in Article 5 of Directive
2005/44/EC of the European Parliament and of the
Council on harmonised river information services
(RIS) on inland waterways in the Community

COMMISSION IMPLEMENTING REGULATION
(EU) No 689/2012 of 27 July 2012 amending
Regulation (EC) No 415/2007 concerning the
technical specifications for vessel tracking
and tracing systems referred to in Article 5 of
Directive 2005/44/EC of the European
Parliament and of the Council on harmonised
river information services (RIS) on inland
waterways in the Community

COMMISSION REGULATION (EC) No 416/2007
of 22 March 2007 concerning the technical
specifications for Notices to Skippers as referred to
in Article 5 of Directive 2005/44/EC of the European
Parliament and of the Council on harmonised river
information services (RIS) on inland waterways in
the Community

UNECE

White Paper
on efficient and sustainable
inland water transport in Europe
(Policy Recommendation No3)
ECE/TRANS/SC.3/189 (2011)

Resolution 57 / Resolution 73
Guidelines and Recommendations for River
Information Services Revision 1 (2012)
ECE/TRANS/SC.3/165/Rev.1

Resolution No. 58
Guidelines and Criteria for Vessel
Traffic Services on Inland Waterways
ECE/TRANS/SC.3/166 (2005)

Resolution No. 63
International Standard for Tracking and
Tracing on Inland Waterways (VTT) (2007)
ECE/TRANS/SC.3/176

Resolution No. 80
International Standard for Notices to
Skippers in Inland Navigation"

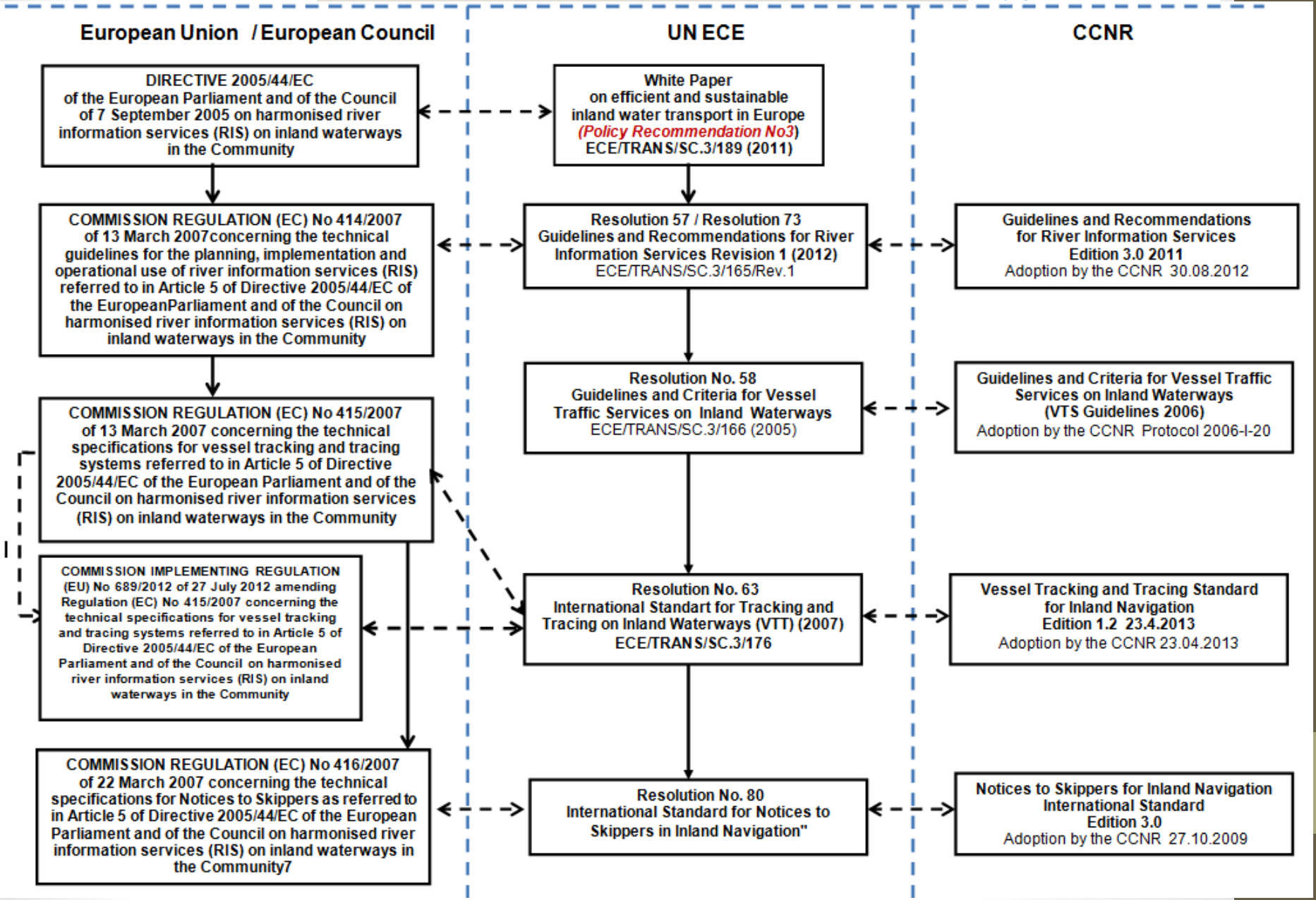
CCNR

Guidelines and Recommendations
for River Information Services
Edition 3.0 2011
Adoption by the CCNR 30.08.2012

Guidelines and Criteria for Vessel Traffic
Services on Inland Waterways
(VTS Guidelines 2006)
Adoption by the CCNR Protocol 2006-I-20

Vessel Tracking and Tracing Standard
for Inland Navigation
Edition 1.2 23.4.2013
Adoption by the CCNR 23.04.2013

Notices to Skippers for Inland Navigation
International Standard
Edition 3.0
Adoption by the CCNR 27.10.2009



Actual RIS Regulations on June, 2016 (cont.)



European Union / European Council

COMMISSION REGULATION (EU) No 164/2010 of 25 January 2010 on the technical specifications for electronic ship reporting in inland navigation referred to in Article 5 of Directive 2005/44/EC of the European Parliament and of the Council on harmonised river information services (RIS) on inland waterways in the Community

COMMISSION IMPLEMENTING REGULATION (EU) No 909/2013 of 10 September 2013 on the technical specifications for the electronic chart display and information system for inland navigation (Inland ECDIS) referred to in Directive 2005/44/EC of the European Parliament and of the Council

UNECE

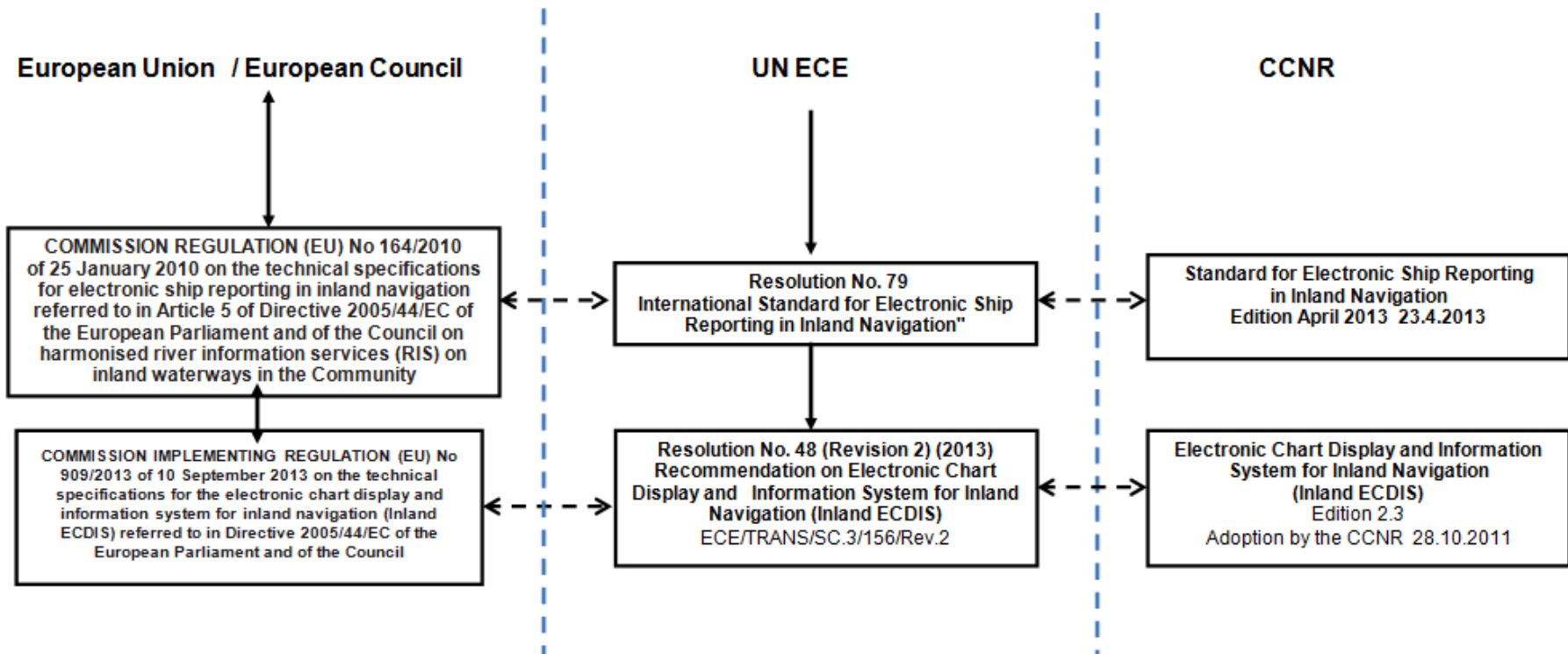
Resolution No. 79
International Standard for Electronic Ship Reporting in Inland Navigation"

Resolution No. 48 (Revision 2) (2013)
Recommendation on Electronic Chart Display and Information System for Inland Navigation (Inland ECDIS)
ECE/TRANS/SC.3/156/Rev.2

CCNR

Standard for Electronic Ship Reporting in Inland Navigation
Edition April 2013 23.4.2013

Electronic Chart Display and Information System for Inland Navigation (Inland ECDIS)
Edition 2.3
Adoption by the CCNR 28.10.2011



<i>UNECE</i>	<i>EU</i>	<i>CCNR</i>
White Paper on Efficient and Sustainable Inland Water Transport in Europe	Directive 2005/44/EC of the European Parliament and of the Council	RIS Strategy of CCNR
Resolution No. 48, Recommendation on electronic chart display and information system for inland navigation (Inland ECDIS), Revision 3, ECE/TRANS/SC.3/156/Rev.3	Commission Implementing Regulation (EU) No. 909/2013 on the technical specifications for the electronic chart display and information system for inland navigation (Inland ECDIS) referred to in Directive 2005/44/EC	Electronic Chart Display and Information System for Inland Navigation (Inland ECDIS) Edition 2.3
Resolution No. 57, Guidelines and Recommendations for River Information Services, Revision 1, ECE/TRANS/SC.3/165/Rev.1	Commission Regulation (EC) No. 414/2007 of 13 March 2007 concerning the technical guidelines for the planning, implementation and operational use of river information services (RIS) referred to in Article 5 of Directive 2005/44/EC of the European Parliament and of the Council on harmonised river information services (RIS) on inland waterways in the Community	Guidelines and Recommendations for River Information Services. Edition 3.0, 2011
Resolution No. 58, Guidelines and Criteria for Vessel Traffic Services on Inland Waterways, TRANS/SC.3/166 and Corr.1	Directive 2002/59/EC of the European Parliament and of the Council of 27 June 2002 establishing a Community vessel traffic monitoring and information system and repealing Council Directive 93/75/EEC	Guidelines and criteria for vessel traffic services on inland waterways (VTS Guidelines 2006)
Resolution No. 63, International Standard for Tracking and Tracing on Inland Waterways (VTT), Revision 1, ECE/TRANS/SC.3/176/Rev.1	Commission Regulation (EC) No. 415/2007 of 13 March 2007 concerning the technical specifications for vessel tracking and tracing systems referred to in Article 5 of Directive 2005/44/EC of the European Parliament and of the Council on harmonised river information services (RIS) on inland waterways in the Community Commission Implementing Regulation (EU) No. 689/2012 of 27 July 2012 amending Regulation (EC) No 415/2007 concerning the technical specifications for vessel tracking and tracing systems referred to in Article 5 of Directive 2005/44/EC of the European Parliament and of the Council on harmonised river information services (RIS) on inland waterways in the Community	Vessel Tracking and Tracing Standard for Inland Navigation Edition 1.2, 2013
Resolution No. 79, International Standard for Electronic Ship Reporting in Inland Navigation, ECE/TRANS/SC.3/198	Commission Regulation (EU) No. 164/2010 on the technical specifications for electronic ship reporting in inland navigation referred to in Article 5 of Directive 2005/44/EC of the European Parliament and of the Council on harmonised river information services (RIS) on inland waterways in the Community	Standard for Electronic Ship Reporting in Inland Navigation Edition April 2013
Resolution No. 80, International Standard For Notices To Skippers, ECE/TRANS/SC.3/199	Commission Regulation (EC) No. 416/2007 of 22 March 2007 concerning the technical specifications for Notices to Skippers as referred to in Article 5 of Directive 2005/44/EC of the European Parliament and of the Council on harmonised river information services (RIS) on inland waterways in the Community	Notices to Skippers for Inland Navigation International Standard Edition 3.0



**Thank you for your kind
attention !**

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