



e-Freight conference

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The EU e-Maritime initiative

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Background

- Measures aimed at deploying e-Maritime systems were announced in the mid-term review of the White Paper on Transport Policy.
- This announcement was repeated in the European Agenda for Freight Logistics, 18 October 2007 and in the two Communications
- on establishing a European maritime transport space without barriers {COM(2009) 10} and
- on the EU Maritime Transport Strategy 2018 {COM(2009) 8}, 21st January 2009



Problems persisting in maritime transport

1. *Complex, time-consuming administrative procedures; incompatible information systems*
2. *Insufficient integration in the logistics chain; data is not shared*
3. *Lack of interoperability entails inefficiencies in logistics and additional barriers to SMEs*
4. *Lack of integrated port and fleet management systems; Difficult to optimise network performance*
5. *Lack of integration of surveillance systems*
6. *Lack of cross-regional pan-European safety systems*
7. *Shortage of qualified mariners; lack of onboard education and infotainment*



The EU e-Maritime policy aims

- Bring the European maritime transport industry and services sectors to the forefront of ICT developments
- A framework directive for the establishment of technical requirements, specifications and conditions for the deployment of e-Maritime systems



What is the EU e-Maritime concept

- “e-Maritime” stands for electronic interactions between all the different stakeholders in the maritime sector
- The EU E-Maritime initiative embodies a set of policies, strategies and capabilities facilitating the development of "e-Maritime" in support of an efficient and sustainable waterborne transport system throughout Europe, fully integrated within the transport logistic chains



The EU e-Maritime strategic objectives

Three strategic aims focus on improved:

1. Safety, security and environmental performance
2. Competitiveness and efficiency
3. Ways of working (including training)



e-Maritime specific objectives (1)

1. *Accelerated take up across EU of SafeSeaNet and e-navigation*
2. *Improved utilisation of the GALILEO and its integration with traffic monitoring processes;*
3. *Improved information exchange between administration and business (A2B & B2A) with dependable interoperability platforms (Single Window), online services and regulatory compliance reporting systems;*
4. *Improved utilisation of resources by supporting maritime transport stakeholders co-operate efficiently in co-modal networks;*
5. *Improved efficiency and quality of shipping services through integrated fleet management systems*



e-Maritime objectives (2)

6. *Enhanced attractiveness of short sea shipping and its role in an efficient door-to-door supply chain;*
7. *Development of European Ports as key logistics hubs through advanced Port Single Windows and Port Community systems;*
8. *Promotion of e-learning for maritime transport industry professionals focusing on seafarers;*
9. *Development of information, knowledge and entertainment sharing facilities for seafarers;*
10. *Promotion of communications infrastructure solutions providing versatility, fast response and high integrity for ship-shore communications*
11. *Promotion of technologies that allow seamless communications across diverse communications media and protocols*



e-Maritime concept

- *A virtual network in an electronic environment based on standards to ensure interoperability between different maritime-related applications*
- *This network should enable administrative and commercial electronic interactions between ships, between ships and shore, including port communities, administrations, operators, freight forwarders and other hinterland actors*



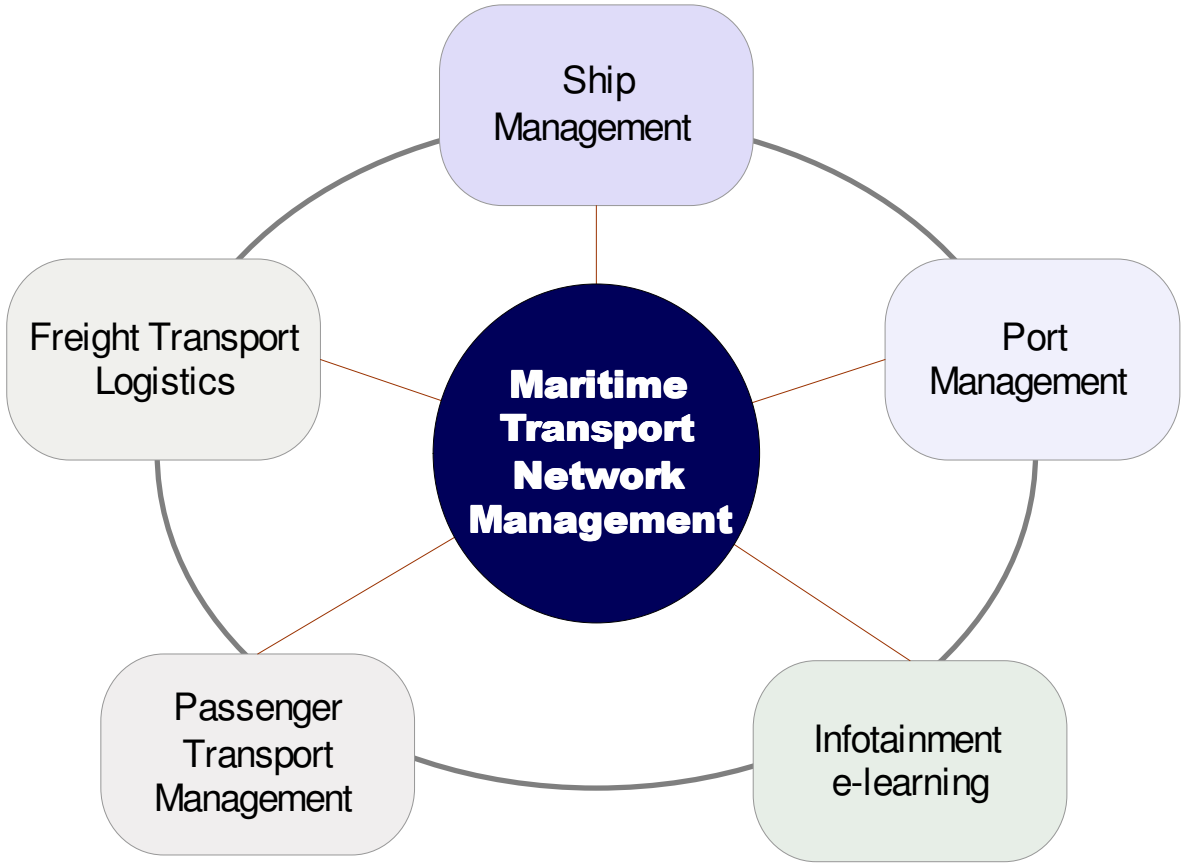
e-Maritime aspects

- Confidentiality; security; integrity
across organisational; legal and
technical considerations

- **The e-Maritime basic components:**
 - e-services (e-Maritime applications)
 - interoperability platform
 - business and legal framework

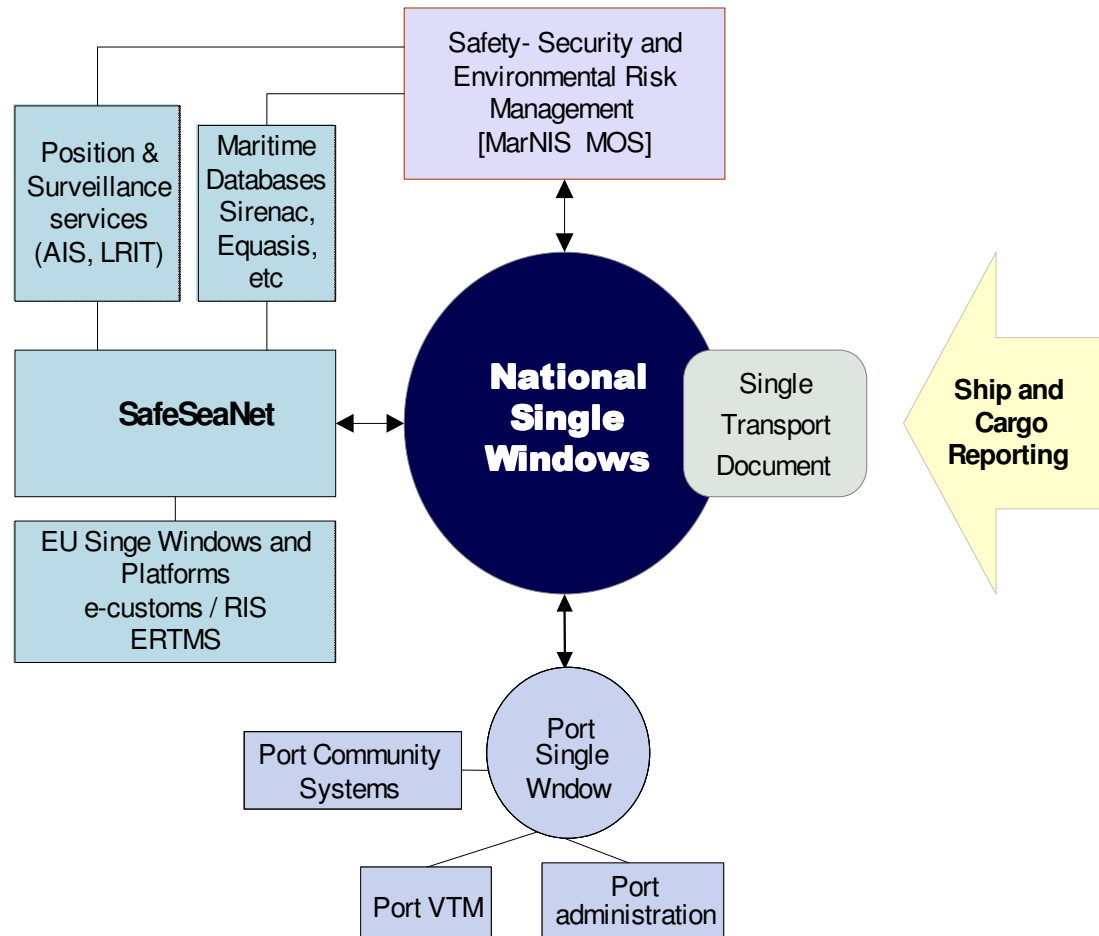


B2B e-Maritime Applications - example



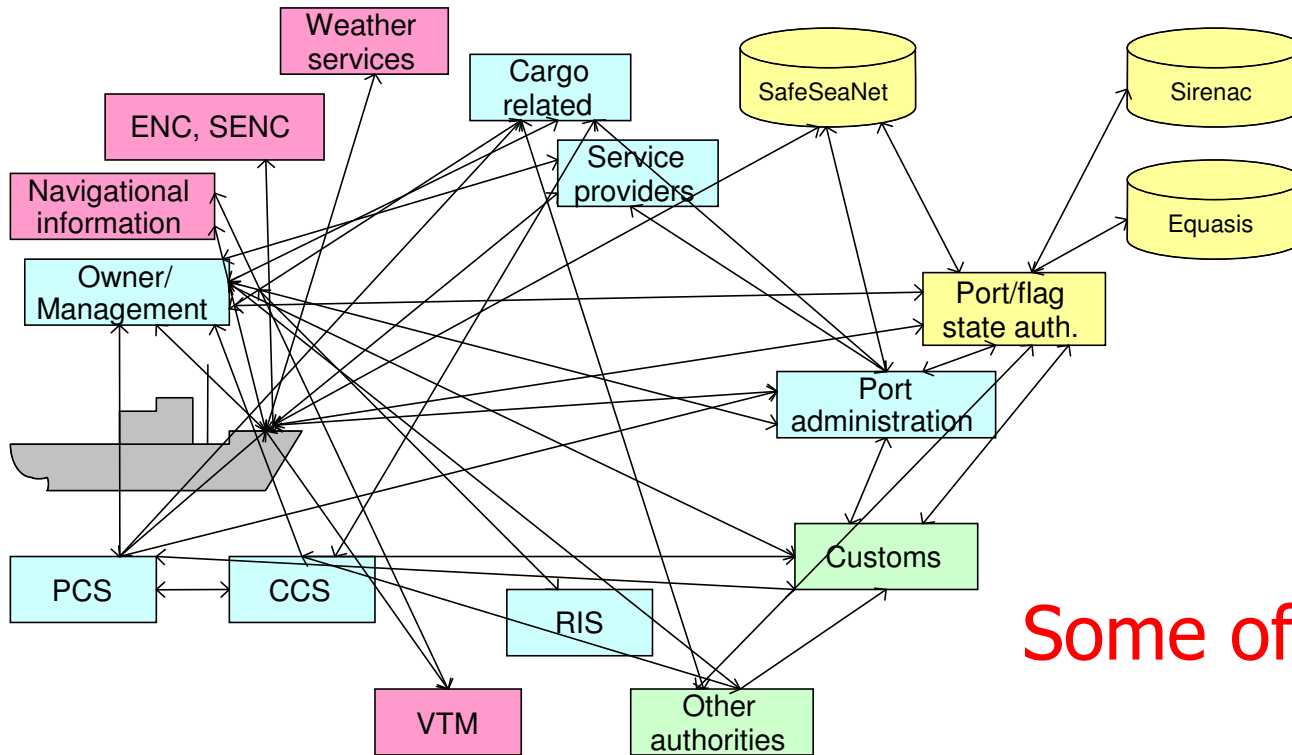


A2A/A2B e-Maritime Applications - example





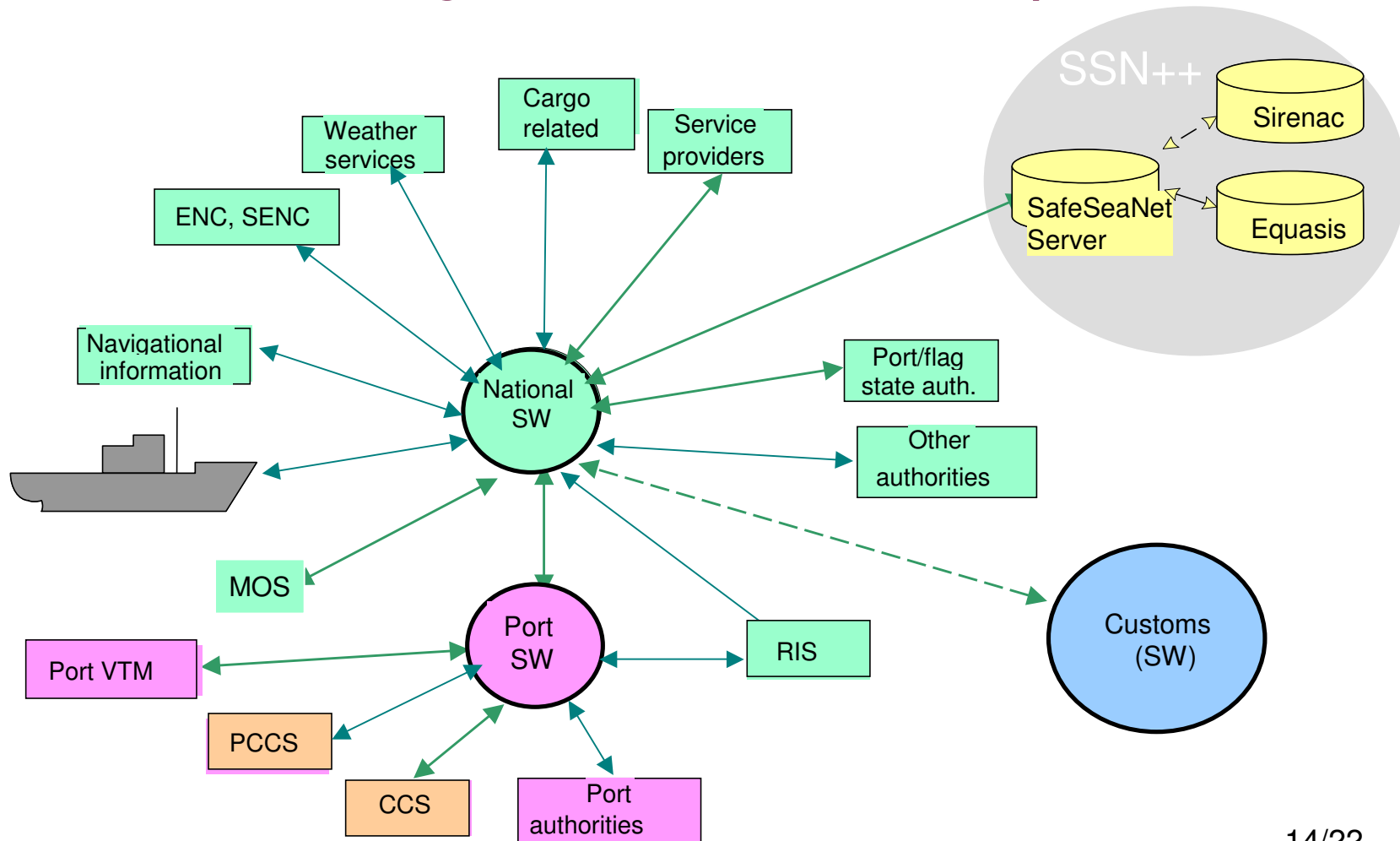
Today's information flow



Some of it !



Single Window Concept





The EU e-Maritime proposal

- *The EU initiative will be a framework that assumes common principles, applicable to a wider range of policies and adopting a modular approach facilitating innovation and flexible take-up by all actors*
- *The gradual developments of building blocks will encompass technical but also organisational and legal elements*



e-Maritime Baseline

- e-Maritime is not new. There are advanced systems in place
- Legacy systems must be respected
- EU projects are developing a comprehensive set of complementary architectural models and solutions for transport and logistics
- Due consideration to existing private and national e-Maritime related solutions
- The relevant e-initiatives must be aligned



EU Freight Logistics Action Plan

- "e-freight" denotes the vision of a paper-free, electronic flow of information associating the physical flow of goods with a paperless trail built by ICT;
- track and trace freight along its journey across transport modes;
- automate the exchange of information for regulatory and commercial purposes;
- a Single European Transport Document for all transport modes enhancing the framework offered by multimodal waybills or multimodal manifests;



Other relevant initiatives

- The “**e-Customs**” initiative aimed at providing a paperless environment for customs and trade by making Member States' electronic customs systems compatible with each other and creating a single, shared computer portal
- “**e-Navigation** is the harmonised collection, integration, exchange, presentation and analysis of maritime information onboard and ashore by electronic means to enhance berth to berth navigation and related services, for safety and security at sea and to protect the marine environment” IMO definition



e-Maritime next steps

- Opinions from the wider range of stakeholders
- Identification of key e-Maritime applications
- Objectives: what we want to achieve?
- Identification of economic, social and environmental benefits and impacts
- Organisational, business, regulatory and legal issues
- Interoperability considerations
- Implementation strategies and roadmaps



Questions for consultation

1. Comment on the definition and the objectives presented;
2. State the aims in which e-Maritime should be focussed from your own business environment;
3. Identify the main challenges;
4. State the most important drivers for change;
5. How one could establish a better understanding of the different practices between the different EU actors?
6. Would you be interested to be consulted on this EU initiative?



References

- **Maritime Transport Policy:** http://ec.europa.eu/transport/index_en.html
- **Logistics:** <http://ec.europa.eu/transport/logistics/>
- **Customs:** http://ec.europa.eu/taxation_customs/taxation/index_en.htm
- **Integrated Maritime Policy:** <http://ec.europa.eu/maritimeaffairs/>
- **SafeSeaNet:** <http://www.emsa.eu.int/>
- **MarNIS (Maritime Navigation and Information Services):** www.marnis.org
- **FREIGHTWISE:** <http://www.freightwise.info/cms>
- **SKEMA:** <http://www.skematransport.eu/>



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The present is a personal opinion. It does not represent an official position of the European Commission

Thank you for your attention

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