



Maritime Cloud Development Forum

01-03-2017

Thomas Christensen, Project Manager, EfficienSea2





**Maritime Cloud
Development Forum**

The Maritime Cloud

01/03/2017

Thomas Christensen, Project Manager, EfficienSea2



Is it something we need?

Well, we want to develop e-Navigation -

be able to easily exchange information digitally

And for that we need:

To define and implement digital services

To be able to find services

To be able to trust providers and consumers of services

To be able to secure communication

To be able to relay messages between entities (roaming)

To send messages based on criteria such as position

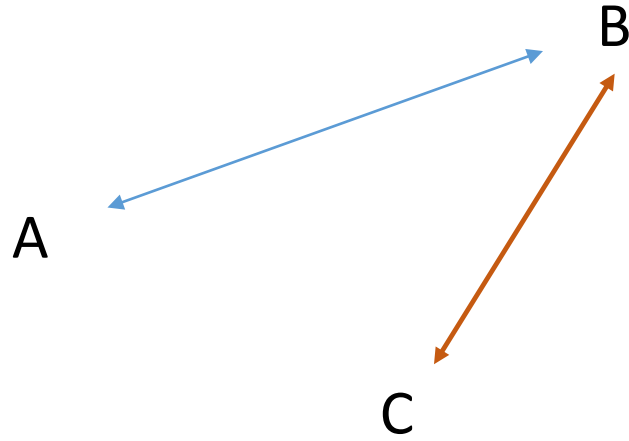
To have cost effective communication

To have reliable communication

To have a large degree of interoperability

To have more room on the PowerPoint

And we can do that...





But imagine...

Having a communication framework that would

- Provide guideline and template for services

- Provide means to locate services

- Provide authentication mechanism

- Provide encryption mechanism

- Provide logical roaming

- Provide means to send messages based on criteris such as position

- Provide cost effective communication

- Providereliable communication

- Provide a large degree of interoperability

- Provide more room on the PowerPoint...



That's the Maritime Cloud



So we have an identity register

- Stores identities in a federated way

- Provide means for web-login with Maritime Cloud ID (like FB/Google)

- Provides digital certificates for M2M communication

We have a service register with

- Service specifications

- Service technical designs

- Service instances

And a messaging server

- For reliable communication

- Roaming of messages

- Different physical communication channels

- Messaging based on criteria

How?

Who?

Where are we now?

Governance structure



Governing



MCF

Federating



Service providers



Authorities

VTS



Ship owners



Mariners



Ship owners



Service providers



Ship owners



Mariners



Ship owners

Who?



FREQUENTIS



Where are we now?

ID register

Federation of BIMCO, IALA, CIRM (soon)

Service register

Some services

MMS prototype

MRN proposal

Service specification guideline proposal

MC maturity

Software



IT operational setup



SOP's for system



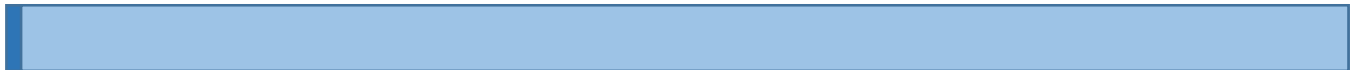
SOP's for management



Governance structure



Business model



Standards





Thank you



www.maritimecloud.net