BShipdex

Ship Data Exchange protocol

Marco Vatteroni Shipdex technical manager technical.manager@shipdex.org mv@shipdexconsulting.com



SHIPDE

PROTOC

SPSC

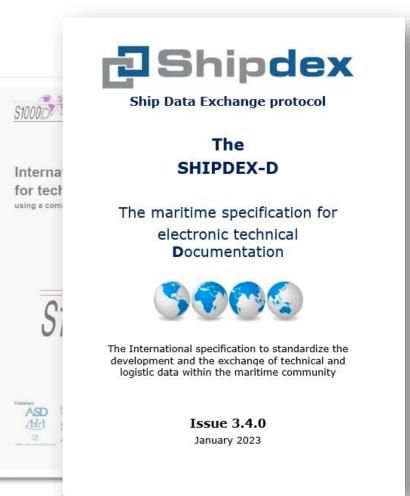
The non-profit Shipdex organization's executive members





Shipdex Data Exchange protocol focuses to support maritime community in producing and exchanging structured and standardized data in electronic format.

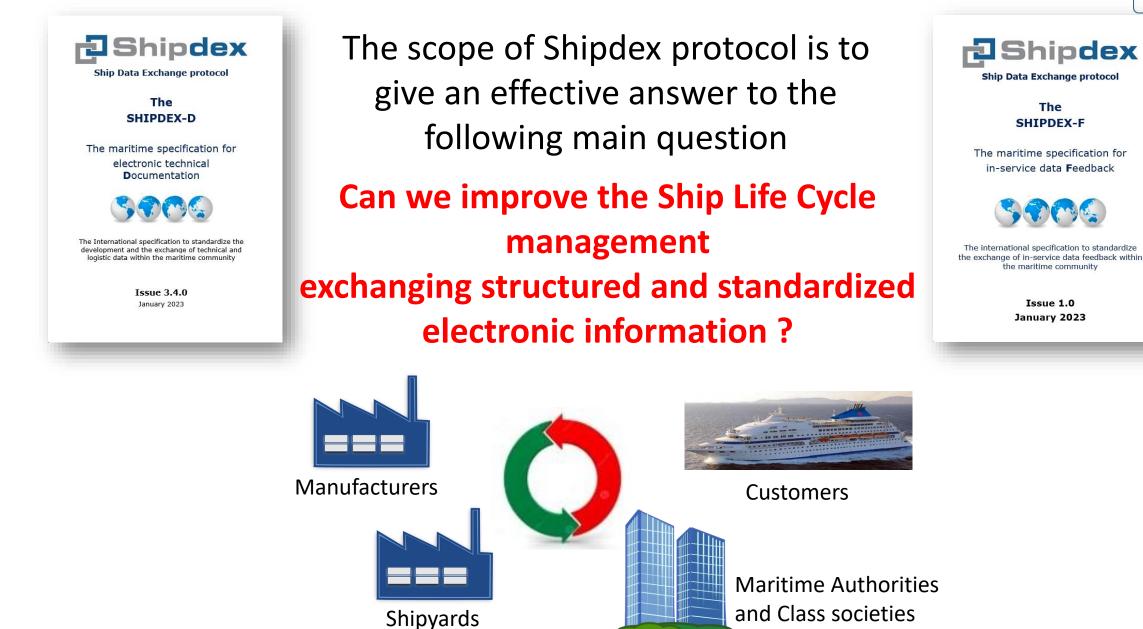
Today, Shipdex protocol is composed of:





Shipdex







Some of the most important technical data from providers to customers



Manufacturers

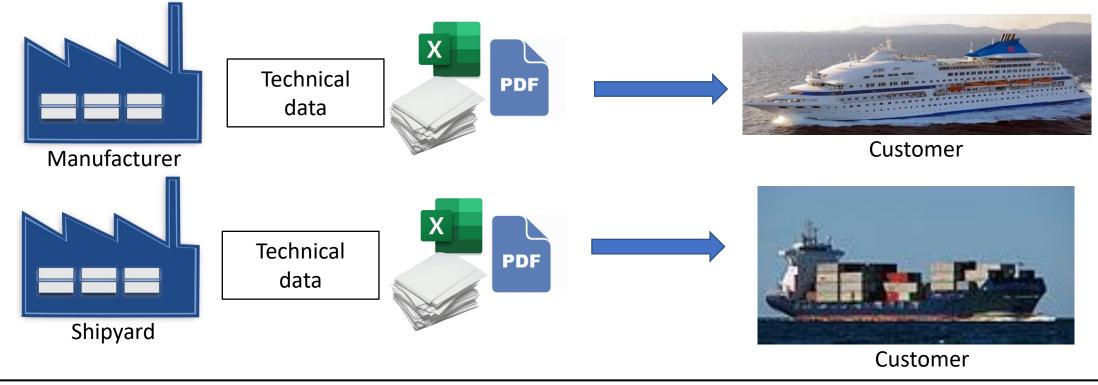


Shipyards

- **D**rawings
- Product (engine, pump, etc) composition (breakdown)
- How to operate the product
- How to maintain the whole product and its physical components:
 - Troubleshooting
 - Preventive maintenance
 - Corrective maintenance
 - Required resources (personnel, spare parts, consumables, etc.)
 - Spare parts, support equipment and consumables catalogues
 - **G** Service Letter/Service Bulletin



The current way to provide technical data to customers



Criticalities:

- The data exchange is done providing "unstructured pages of information" instead of "structured electronic information".
- Every provider has different information structure and quality, different layouts and chapter structures
- Every customer cannot reuse or import the data automatically into company repositories/databases/IT systems

This is just DATA DIGITIZATION



Some of the most important technical data from customers to providers (in-service data feedback)



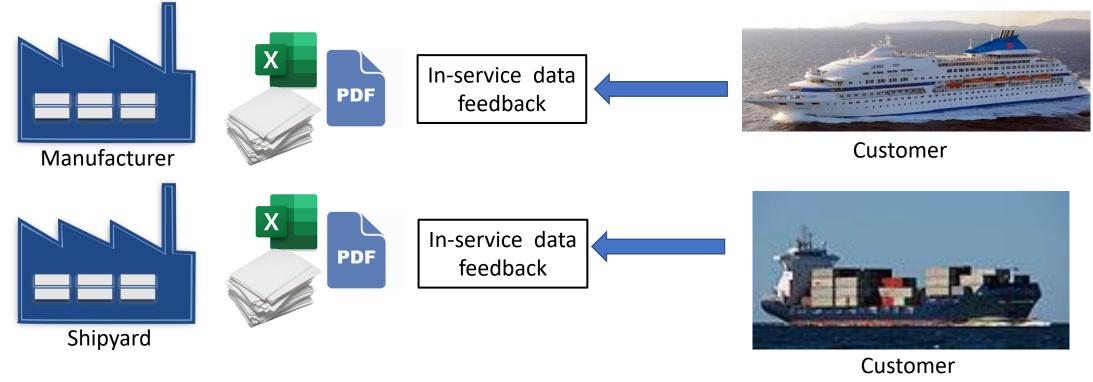


- Product failures
- Maintenance tasks performed
- □ Spare parts used
- Product performances in different scenarios
- CO2 emissions
- □ Suggestions to reduce CO2 emissions





The current way to provide in-service data feedback to providers



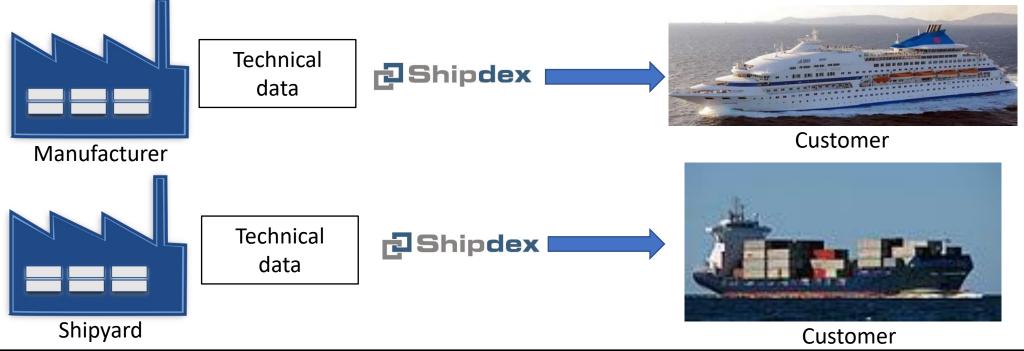
Criticalities:

- The data exchange is done providing "unstructured pages of information" instead of "structured electronic information".
- The data exchange is done using a provider/customer "proprietary" template
- Providers and Customers must develop their own way to produce/export/import data feedback

This is just DATA DIGITIZATION



The Shipdex solution

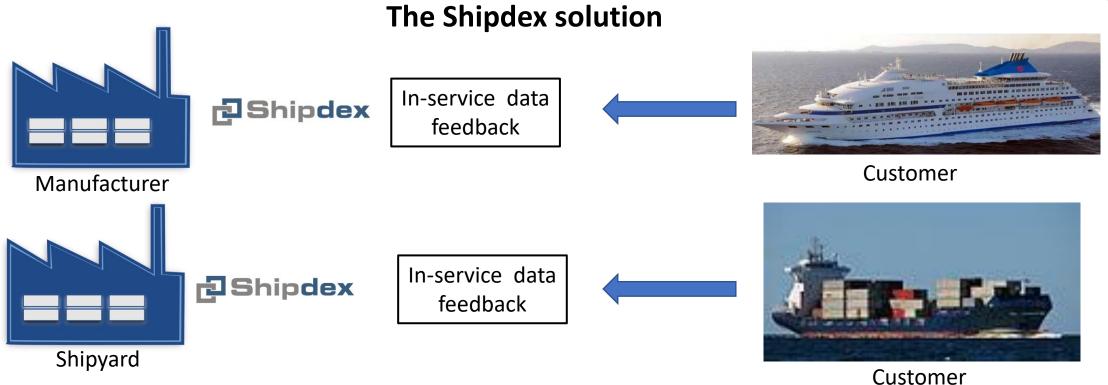


Advantages:

- The data exchange is done providing "<u>structured</u> and <u>standardized</u> electronic information" instead of "unstructured pages of information"
- Information is separated from layout that can be defined/changed later by every single user without affecting the data
- Same data structure and quality.
- NO need to retype the information into IT systems (ERP, CMMS, etc). Structured electronic information can be imported into any IT system instead of retyping the data

This is DATA DIGITALIZATION





Advantages:

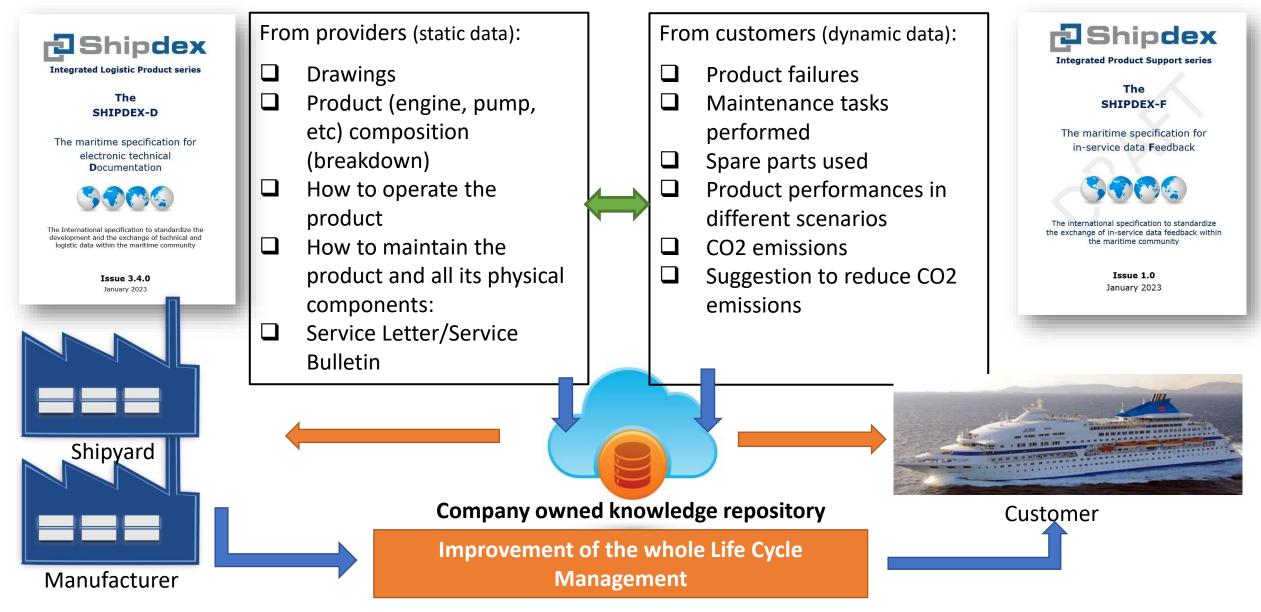
- Every customer provides its manufacturers with in-service data feedback in a <u>structured</u> and <u>standardized</u> electronic format
- Every provider can import in-service data feedback into its own IT systems
- Structured and standardized data can be exported/imported into any kind of IT system instead of retyping activities
- providers can use the information to improve equipment and maintenance plan quality

This is DATA DIGITALIZATION





Data exchange within maritime community in Shipdex format



involvement



Improvement of the whole Life Cycle Management

Improvement of the product by modifications and retrofit activities
 Enhancement of the maintenance and support concept
 Cheaper products and services
 Improved safety
 Environmental benefits
 Maritime Authorities wider

PRODUCT LONGER AND CHEAPER LIFE



DOWNLOAD (from <u>www.shipdex.org</u>) the free-of-charge **Shipdex Viewer**

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Tasks Operations					
th01 Working hours; th03 Months; th98 One Time - after firs	st worki ~	MU 200-315 F Ballast/k	pilge Pump - MOTOR -	Preventive Maintenance	(2500)
Task Frequency			inger ump moron		
∃ 500 Working hours				Data Module Issu	ie:001, Type:new,Date:28-08-201
Component Name Task Name	Туре				
MU 150-250 LE Emergency Bilge Pum Preventive Maintenance (500)	Task	Periodicity			
MU 150-250 LE Emergency Bilge Pum Preventive Maintenance (500)	Task				
MU 200-315 LE Ballast/bilge Pump - M Preventive Maintenance (500)	Task	Description			
MU 200-315 LE Ballast/bilge Pump - P Preventive Maintenance (500)	Task	Description			
MU 300-300 LDS LT Cooling FW Pump Preventive Maintenance (500) MU 300-300 LDS LT Cooling FW Pump Preventive Maintenance (500)	Task Task	Working hours 2500			
MU 300-300 LDS LT Cooling FW Pump Preventive Maintenance (500) MU 350-315 LDSH Main cooling SW Pu Preventive Maintenance (500)	Task				
MU 350-315 LDSH Main cooling SW Pu Preventive Maintenance (500)	Task	Support Equipment			
MU 80-250 LP Emergency Fire Pump Preventive Maintenance (500)	Task	Support Equipment			
MU 80-250 LP Emergency Fire Pump Preventive Maintenance (500)	Task				
MU 125-250 L HT Cooling FW Pump Preventive Maintenance (500)	Task	Description	CAGE	Part Number/CSN	QTY
MU 125-250 L HT Cooling FW Pump Preventive Maintenance (500)	Task	Ohmmeter		00009	
MU 80-250 LE Main Fire/General servic Preventive Maintenance (500)	Task	Onmmeter		00009	pc 1
MU 80-250 LE Main Fire/General servic Preventive Maintenance (500)	Task				
2500 Working hours		Supplies			
Component Name Task Name MU 150-250 LE Emergency Bilge Pum Preventive Maintenance (2500)	Type Task				
MU 150-250 LE Emergency Bilge Pum Preventive Maintenance (2500)		Description	CACE	Dout Number/CON	OTY
MU 200-315 LE Ballastbilge Pump - M. Preventive Maintenance (2500)	Task	Description	CAGE	Part Number/CSN	QTY
MU 200-315 LE Ballast/bilge Pump - P Preventive Maintenance (2500)		None			
MU 300-300 LDS LT Cooling FW Pump Preventive Maintenance (2500)					
MU 300-300 LDS LT Cooling FW Pump. Preventive Maintenance (2500)		Spare Parts			
MU 350-315 LDSH Main cooling SW Pu Preventive Maintenance (2500) MU 350-315 LDSH Main cooling SW Pu Preventive Maintenance (2500)		opare Parts			
MU 80-250 LP Emergency Fire Pump Preventive Maintenance (2500)					
MU 80-250 LP Emergency Fire Pump Preventive Maintenance (2500)		Description	CAGE	Part Number/CSN	QTY
MU 125-250 L HT Cooling FW Pump Preventive Maintenance (2500)		None			
MU 125-250 L HT Cooling FW Pump Preventive Maintenance (2500)		Hole			
MU 80-250 LE Main Fire/General servic Preventive Maintenance (2500)					
MU 80-250 LE Main Fire/General servic Preventive Maintenance (2500)	Task	SAFETY PRECAUTIONS			
3000 Working hours					
5000 Working hours			CAUTION		
10000 Working hours			CAUTION		
20000 Working hours					
6 Months					
12 Months					
One Time - after first working hours 300					
0 Unscheduled					
o onsciedured					
		Stop the pump, switch off automatic start, inte	errupt motor feeding.		
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For any other question contact me at <u>technical.manager@shipdex.org</u> <u>mv@shipdexconsulting.com</u>