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### Protection Measures for Merchant Ships

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## Executive summary

The current document describes one of the planned results of the activity conducted in project WP3, specifically in *Task 3.5 Counter Piracy Measures Manual & Knowledge Base*. In particular, it is focused on the Counter Piracy Measures Knowledge Base. The related Counter Piracy Measures Manual will be described by D3.3 due at project month 10.

In general, WP3 main objective is to evaluate the options available stemming from WP1 and WP2. Specifically the goal is to determine ethically and socially acceptable technical measures to effectively deal with piracy assaults without resorting to the use of lethal force.

Receiving operational effectiveness and findings from the previous two work packages, this WP is focused on the conduct of a Cost Benefit analysis, the development of a Counter Measures manual to aid in the selection and use of appropriate counter piracy measures in layered holistic defence providing recommendations on counter measures, and to develop a Counter Piracy Measures Knowledge Base.

In this context, this paper reports the analysis and description of the Counter Piracy Measures Knowledge Base starting from the Counter Measures and Counter Measure Products catalogue identified in WP1 and from the PEESLE factors catalogue specified in WP2.

The Counter Piracy Measure Knowledge Base includes also the Cost Benefit parameters and functions identified in the Cost Benefit process defined within WP3. The Cost Benefit methodology and the Counter Piracy Measure Knowledge Base will be used by WP4.

In conclusion, the main purpose of the Counter Piracy Measures Knowledge Base is to make available the gathered project information as follow:

1. the information gets classified by the Counter Piracy Measures semantic-knowledge base and will be used by the Counter Piracy Measure Manual developed in WP3;
2. the information will also be used from the other project tools that will be developed within WP4.

## Acronyms List

ACID	Atomicity Consistency Isolation Durability
ALCC	Amortized Life Cycle Cost
ANSI	American National Standards Institute
CB	Cost Benefit
CM	Counter Measure
CMP	Counter Measure Products
CPMD	Counter Piracy Measures Database
DBMS	Database Management System
EA	Enterprise Architect
HRA	High Risk Area
LCC	Life Cycle Cost
MVCC	Multi-Version Concurrency Control
OWL	Ontology Web Language
PEESLE	Political Ethical Economic Social Legal Environmental
PL	Procedural Language
PM	PEESLE Modifier
RDBMS	Relational Database Management System
RPM	Rescaled PEESLE Modifier
SQL	Structured Query Language
SSL	Secure Sockets Layer
SWRL	Semantic Web Rule Language
TBC	To Be Confirmed
TBD	To Be Defined
WP	Work Package