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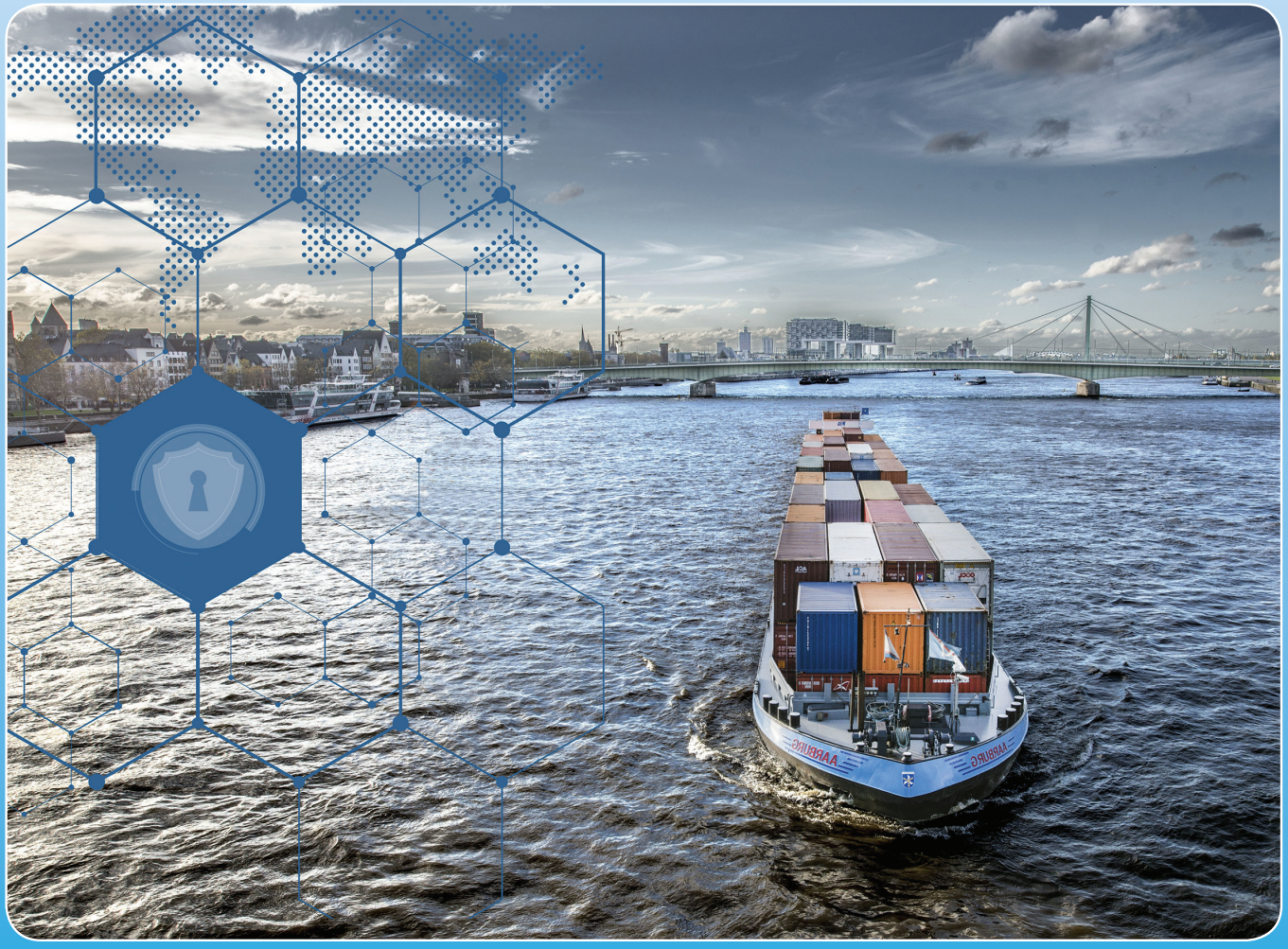

AWARENESS PAPER ON CYBERSECURITY IN INLAND NAVIGATION

The World Association for Waterborne Transport Infrastructure

PIANC

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PIANC TASK GROUP N° 204

INLAND NAVIGATION COMMISSION

AWARENESS PAPER ON CYBERSECURITY IN INLAND NAVIGATION

2019

PIANC has Technical Commissions concerned with inland waterways and ports (InCom), coastal and ocean waterways (including ports and harbours) (MarCom), environmental aspects (EnviCom) and sport and pleasure navigation (RecCom).

This report has been produced by an international Working Group convened by the Inland Navigation Commission (InCom). Members of the Working Group represent several countries and are acknowledged experts in their profession.

The objective of this report is to provide information and recommendations on good practice. Conformity is not obligatory and engineering judgement should be used in its application, especially in special circumstances. This report should be seen as an expert guidance and state-of-the-art on this particular subject. PIANC disclaims all responsibility in the event that this report should be presented as an official standard.

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SUMMARY

Since the end of the last century, the number and the complexity of navigational and information equipment on inland navigation vessels and for inland navigation infrastructure have increased dramatically. ICT is transforming shipping, bringing enhanced monitoring, communication and connection capabilities and thereby facilitating the development of new generations of intelligent transport systems, including automated inland navigation vessels.

According to the Terms of Reference established by the Inland Navigation Commission of PIANC (InCom) for Task Group 204 (TG 204) on 18 September 2017, this awareness paper provides an overview and stimulates feedback on the cyberrisks for inland navigation including its infrastructure, and on mitigating measures, taking into account work in neighbouring fields, such as maritime transport and ports management. The pursued objective is to raise awareness for cybersecurity in inland navigation among practitioners in the management of inland waterways, ports, as well as shipping companies. This paper also contains some recommendations for follow-up of these activities under the umbrella of PIANC.

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