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# Maritime 5G solar container communication station EMS





## Overview

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What is a maritime 5G network?

New maritime 5G network set to generate 100 million yuan in revenue by the end of the 2022 In Ningde, Fujian Province, China Mobile and Huawei have built a maritime 5G network that stretches 50 km out to sea and is supporting maritime management fishing, tourism and energy applications, as well as consumer services.

What is the 5G connectivity vision for the maritime ecosystem?

To address the technical aspects listed above, our 5G connectivity vision for the maritime ecosystem consists of three main components to provide seamless connectivity: short distances from land stations, and a combination of multi-hop and 5G non-terrestrial networks to cover mid-distances up to international waters.

Will 5G become the primary technology for seamless connectivity in the maritime industry?

Hence, in this paper, we studied several different connectivity scenarios, which might supplement each other with the vision presented in the previous section, according to which 5G will become the primary technology for seamless connectivity in the maritime industry in the near future.

What is 5G marine network & how does it work?

In Ningde, China Mobile and Huawei have built a showcase 5G marine network to provide coverage up to 50 km offshore. The network employs tall radio masts transmitting over a mixture of frequency bands, supplemented by network technologies and techniques designed to optimise coverage at sea.



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