

Ship Digital Technology

• Digital System Certification for Ships and Offshore Installations

CCS has issued the framework guidelines for the digital space of ships and offshore installations, aiming to improve data standardization of the industry, regulate data activities, support the application and development of digital system and provide assurance for the digital transformation of the shipping industry.

Services provided by CCS are mainly as follows:

- Principle approval of digital system for ships and offshore installations
- Digital system process conformity certification for ships and offshore installations
- Digital system application capability certification for ships and offshore installations

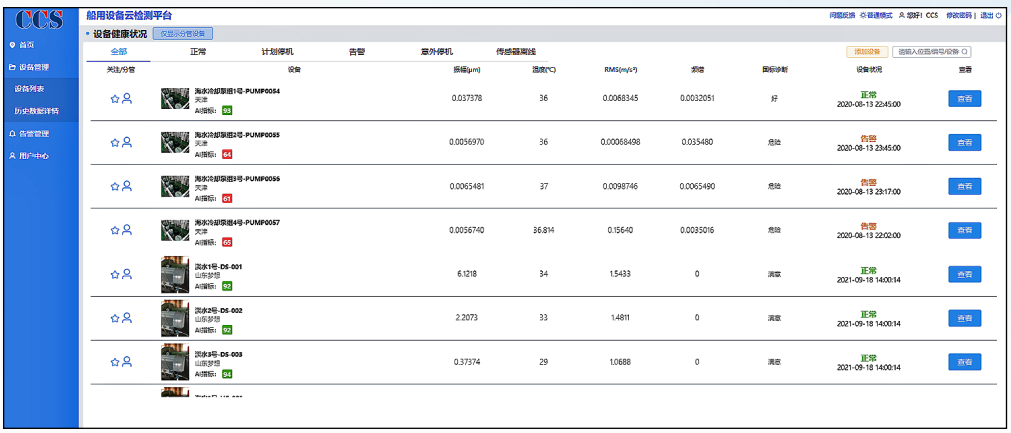


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• Digital Twin Approval and Verification Service for Ships and Offshore Installations

Digital twin technology, as a powerful tool to accelerate digital transformation, is a new mode of improving digital level of the ship and offshore installation industry.



CCS, focusing on research of standardized application of digital twin technology in the industry, carries out:

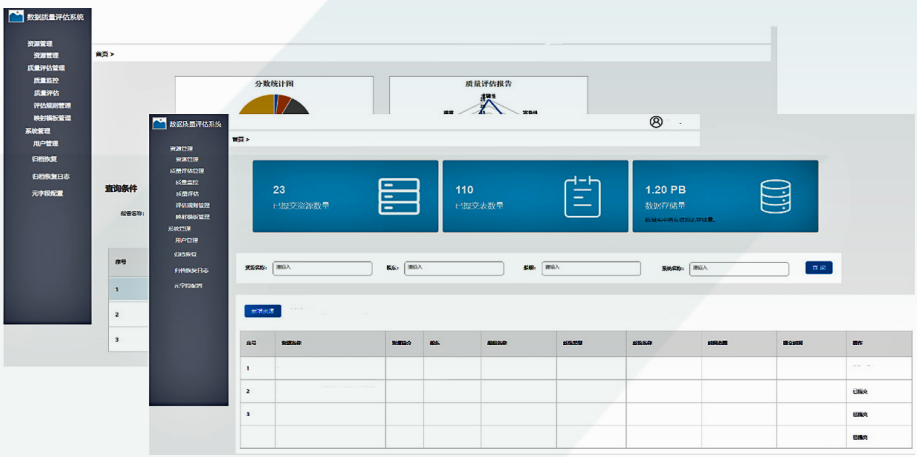
- Exploration of the application scenarios of digital twin technology in the industry.
- Establishment of digital twin technology application demonstration platform.
- Establishment of the assessment scheme to assess the functional ability of digital twin system.

CCS also provides professional digital twin technology support, mainly as follows:

- Verification of health assessment and condition based maintenance methods based on digital twin technology.
- Evaluation of functions of digital twin system related to ships and offshore installations.
- Digital twin technical service for ships and offshore installations.

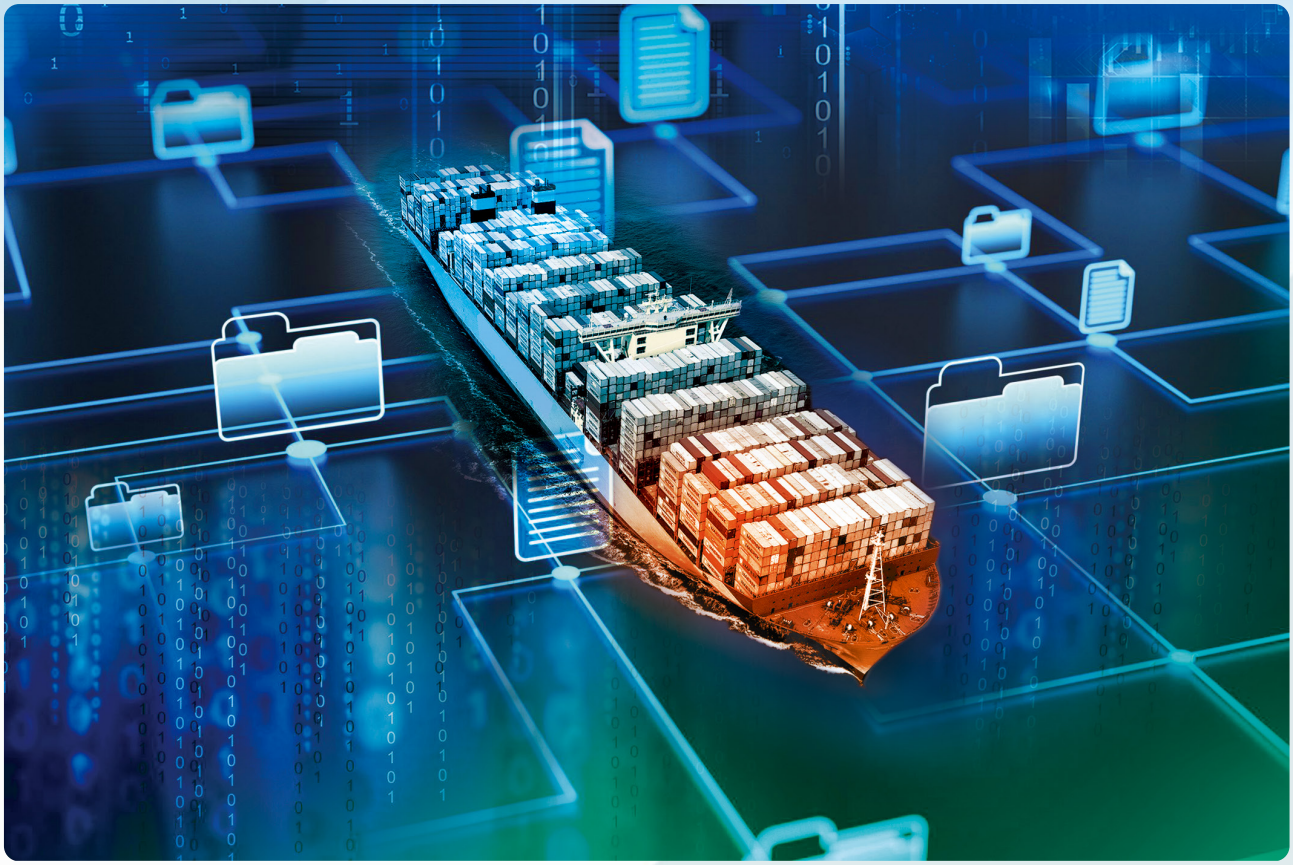
• Data Quality and Security Risk Assessment for Ships and Offshore Installations





CCS has issued the Guideline on Quality Assessment of Ship Data to support the industry in assessing ship data quality, data management maturity and data security. CCS has also established online ship data quality assessment system to provide data quality assessment service for ships and offshore installations.

Shipowners and ship management companies may apply to CCS for trial assessment of the quality of the existing data stored on ships and offshore installations.



Meanwhile, CCS provides the following services to address data security risks for ships and offshore installations:

- Ship data classification and grading assessment
- Ship data security and safety risk assessment
- Ship data management maturity assessment

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