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| **Title:** | DID E709-1 Interface Control Document | | | **Ship applicability:** | All |
| **Master Template Ref:** | None | | | **Project:** | All |
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| DID | Supply Chain | Subcontracts / SCM | NA | NA | NA |

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| **Data Item Description**  **Interface Control Document**  **DID E709-1** | |
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# PURPOSE

An Interface Control Document (ICD) defines the hardware and software protocols, and data flow requirements for serial communication interfaces between different pieces of equipment. This document is required to enable the Purchaser to coordinate integration of equipment provided by multiple Integrators/Suppliers to ensure compatibility between systems.

**SCOPE**

ICDs are required for all equipment or systems that connect to the Ship Control and Monitoring System (SCMS), Voyage Data Recorder (VDR), or that require direct data connection to another supplier’s piece of equipment. This document must be read in conjunction with Part 3 (Engineering) Schedule D1 for specific instructions.

**FORMAT**

The ICD developed by the Integrator/Supplier should be in Microsoft Word format using the Purchaser’s standard document template for the project.

**CONTENT**

The ICD shall be presented in report format which specifically address the following items:

1. Introduction
2. System Descriptions
3. Reference Documents
4. Applicable Regulations and Requirements
5. Interface Specification
   1. States for Alert Conditions
   2. Alert Priority
   3. Physical Interface
   4. Port Configurations
   5. Data Tables

# STRUCTURE

Below is an example of the physical interface specified in section 5.3.



The port configuration in section 5.4 should have the following information:

1. data bits 8 (D7 =0), parity none
2. stop bits 1
3. Baud rate is 115000 bps
4. RS 422 serial interfaces

The data tables in section 5.5 should have the following information:

|  |
| --- |
| **IO List Table** |
| SIGNAL ID |
| SYSTEM DESCRIPTION |
| EQUIPMENT DESCRIPTION |
| EQUIPMENT TAG |
| SIGNAL SUFFIX |
| DATA TYPE |
| DATA ADDRESS |
| UNITS |
| COMMENTS |