

No. 75 **Format for Electronic Exchange and Standard Reports**

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Abstract:

This document details “Unified Data Exchange Format (UDEF)” for electronic exchange of class and statutory data between IACS Member Societies and Flag States.

**No.
75**

(cont)

1. Electronic Access to Class and Statutory Data**1.1 Introduction**

1.1.1 This document details the data requirements that have been developed to facilitate the exchange of class and statutory data by IACS Member Societies with flag state administrations. Two means of exchange are defined in this document:

- **Electronic exchange:** Data definitions and data fields for the electronic exchange of data are detailed. The mechanism of exchange is explained below.
- **Formats and Layout** standards are shown for the visual presentation of the data using an online system.

1.2 Electronic Exchange and online viewing

1.2.1 The societies shall not provide printed information except by special cases. It is the responsibility of individual flag states to access the information and produce any relevant reports based on the data collected.

1.2.2 Access to the information shall be at the discretion of the individual society. Each society is invited to develop and run at its server the converting software to make the society's data compatible with the data format as described below.

1.2.3 This implementation of Unified Data Exchange Format (UDEF) will make data from all societies available and harmonized for further processing and allow arrangement of Single window reporting, were any end user may collect complete and reliable data.

1.2.4 Usage of aggregating server software, based at any/some/all Member's server(s) or at IACS server, or specially designed application software installed at the end user's computer may provide Flag states or other organizations with the complete data in single report irrelatively of a number of IACS members performing activities on behalf of the Flag state.

1.2.5 The advantages UDEF may encourage IACS Members to facilitate processes of data supply for flag states and stimulate IACS for further integration of "Single Window" reporting in the IMO RO Code.

1.2.6 For the purposes of electronic exchange of data with flag state the anticipated means of exchange will be by XML files via Web service. The formats of data are shown in the relevant section of the document.

1.2.7 As a temporary measure the XML file may be generated by IACS Member(s) and sent by e-mail/ftp on single or regularly bases to flag state(s). Frequency is the subject of bilateral Agreement with flag state(s).

1.2.8 Other means of data/file formats should be investigated as technology improves.

1.3 Report formats

1.3.1 A set of standard report formats has been developed for presenting key information on ships and management companies to flag states in a consistent manner.

1.3.2 The following report formats have been developed:

**No.
75**
(cont)

- Periodical List of Certificates Issued, listing all certificates issued by the society on behalf of the flag state along with associated survey dates.
- Periodical Report of Ship Management Company Audits, for each company, audit information is shown, giving the status of approval for the various ship types mentioned in the ISM Code, ISPS Code, MLC, the audit type and date, and the certificate date of issue and date of expiry.
- Ship Survey Status Report, this report provides basic information about a ship, together with a listing of the current survey range dates and survey status. A list of ship comments is appended to the report.

1.3.3 It is anticipated that each society would implement systems for producing reports, in the agreed format, as part of their existing corporate database systems.

1.4 Data Formats

1.4.1 All dates exchanged shall be in the form of yyyy-mm-dd (ISO 8601) as used in XML standard.

1.4.2 All numeric data exchanged shall be used without thousand separator.

1.4.3 Special characters used by individual societies, e.g. in Class Notations, which are not present in the standard character sets are to be substituted by an appropriate alternative character(s) as deemed appropriate by the individual society concerned.

1.5 Security

1.5.1 The data shall be reasonably protected. Any user's or aggregation software must be properly validated with appropriate access granted.

1.6 Reporting of ISM, ISPS, MLC Information

1.6.1 Administrations should be aware that ISM, ISPS and MLC reporting from a single RO may not be complete.

2. Electronic Exchange**2.1 Introduction**

2.1.1 This document does not affect internal data processing of any IACS member and does not specify the means of exchange or requirements for server, user's or aggregation software.

2.1.2 For the UDEF implementation IACS members are invited to develop and run at their servers specific software for translating external requests and returning the selected data from their databases to the initiators of requests.

2.2 Operation

2.2.1 The external requests must operate only with the data fields named in the Table No.1 below. The scope of data may vary on Flag state's requests, but not exceed the data fields named in the Table No.1.

2.2.2 Some typical reports are shown in Para. 3 - Format of reports.

**No.
75**
(cont)

Table 1.

GENERAL_DATA				
Field	Mandatory	Type	Format / Max Field Size	Comments
RO	Y	Text	20	RO may be one of the following codes: ABS=American Bureau of Shipping BV=Bureau Veritas CCS=China Classification Society CRS=Croatian Register of Shipping DNV=Det Norske Veritas DNV-GL GL=Germanischer Lloyd VL=DNV GL IRS=Indian Register of Shipping KR=Korean Register of Shipping LR=Lloyd's Register of Shipping NK=Nippon Kaiji Kyokai PRS=Polish Register of Shipping RINA=RINA Services S.p.A. RS=Russian Maritime Register of Shipping IRS=Indian Register of Shipping CRS=Croatian Register of Shipping Non-IACS members ROs may use other codes and abbreviations.
Date	Y	Date	yyyy-mm-dd	Export date
Release	Y	Number	2	Release Number of the data protocol.
CLASSED_SHIPS				
SHIP_Name	Y	Text	40	
SHIP_Build_Date	Y	Date	yyyy-mm-dd	
SHIP_Keel_Laid_Date	Y	Date	yyyy-mm-dd	
SHIP_Class_Entry_Date	Y	Date	yyyy-mm-dd	Date of entry into class of the RO.
SHIP_IMO_Number	N	Integer	7	IMO Number may not be available.
SHIP_Flag	Y	Text	3	Country Name in accordance with ISO 3166-1 alpha-3.
SHIP_Classed_By	Y	Text	20	ABS=American Bureau of Shipping BV=Bureau Veritas CCS=China Classification Society CRS=Croatian Register of Shipping DNV=Det Norske Veritas DNV-GL GL=Germanischer Lloyd VL=DNV GL IRS=Indian Register of Shipping KR=Korean Register of Shipping LR=Lloyd's Register of Shipping

**No.
75**
(cont)

				NK=Nippon Kaiji Kyokai PRS=Polish Register of Shipping RINA=RINA Services S.p.A. RS=Russian Maritime Register of Shipping IRS=Indian Register of Shipping CRS=Croatian Register of Shipping Non-IACS members may use other codes and abbreviations.
SHIP_Class_Number	N	Text	7	
SHIP_Port_Of_Registry	N	Text	5	Port Name in accordance with UNECE code: http://www.unece.org/cefact/locode/service/location.html
SHIP_Date_Of_Registry	N	Date	yyyy-mm-dd	Date of registration at Flag State.
SHIP_Registry Number	N	Number	20	Number of registration in the Port Registry.
SHIP_Call_Sign	N	Text	10	
SHIP_General_Type_description	Y	Text	4	BA=Barge BAAC=Accommodation/Pipe Laying Barge BADR=Dredger Barge BAFG=Flat Top Deck Cargo Barge BAFL=Flat Top Barge BAFW=Flat Top Oil/Water Barge BAHA=Hatch Barge BAHP=Hopper Barge BAJA=Jack-Up Barge BAOI=Oil Barge BAPI=Piling Barge BASO=Sludge/Slop Barge BAWO=Work Barge BC=Bulk Carrier BCOB=Ore/Bulk Carrier C2=Container Ship-2nd Generation C3=Container Ship-3rd Generation CC=Vehicle Carrier CCCV=Container Vehicle Carrier CCRR=RORO Car Carrier CF=Container Ship-Feeder CH=Chemical Tanker CL=Cable Laying Ship CO=Coaster CR=Container Ship-Roll On/Off CS=Container Ship CX=Crane Barge DL=Drill Ship DR=Dredger DS=Dead Ship FB=Ferry Boat FBPC=Passenger/Car Ferry FBPG=Passenger/Cargo Ferry FBVF=Passenger Vehicular Ferry FR=General Cargo FRRR=RORO Cargo

**No.
75**
(cont)

				FS=Factory Ship FV=Fishing Trawler HS=Heavy load Semi-Submersible IB=Icebreaker JU=Junk LA=Lash Vessel LC=Landing Craft LI=Lighter LN=LNG LP=LPG LU=Passenger Launch LV=Live-Stock Vessel NN=Nuclear Power Vessel NV=Naval Vessel OB=Oil-Bulk-Ore Carrier OBOL=Oil-Gas Carrier OR=Oil Rig OT=Others PM=Motorized Pleasure Boat PMCB=Cabin Cruiser PMCT=Motorized Catamaran PMDI=Motorized Dinghy PMFU=Motorized Funboat PMHO=Motorized Hovercraft PMHY=Hydrofoil PMSB=Ski-Boat PMSP=Speedboat PMTR=Motorized Trimaran PR=Rowing Boat PRCA=Canoe PRDI=Rowing Dinghy PRFU=Rowing Funboat PS=Sailing Boat PSCT=Catamaran PSDI=Sailing Dinghy PSFU=Sailing Funboat PSTR=Trimaran PT=Parcel Tanker PV=Passenger Vessel PVHO=Passenger Hovercraft RE=Reefer Vessel RV=Research/Survey Vessel SA=Salvage Vessel SC=Semi-Container Ship SM=Sampan SMBG=Big Motor Sampan SMBI=Big Non-Motorized Sampan SMBM=Bumboat SMMO=Motor Sampan SMRO=Rowing Sampan SMTO=Tongkang SMTW=Chinese Twako SV=Supply Vessel SVOF=Offshore Supply Vessel TA=Tanker
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**No.
75**
(cont)

				<p>TABU=Bunker Tanker TACO=Crude Oil Tanker TALG=Liquefied Gas Carrier TAP1=Petroleum Product Tanker (>=60c) TAP2=Petroleum Product Tanker (<60c) TAPC=Petroleum/Chemical Tanker TAUL=ULCC TAVL=VLCC TAWD=Wooden Bunker Craft TS=Training Ship TU=Tug Boat TUPU=Pusher Tug TUSV=Tug/Supply Vessel UT=Utility Vessel WA=Waterboat WB=Workboat YA=Yacht YA50=International 505 YAMO=Motorized Yacht YASL=Sailing Yacht BAHT=Heavy Transport Vessel TABA=Tanker Barge TAWA=Water Tanker TAAT=Asphalt Tanker TUCC=Supply Vessel/ Cement Carrier UTDV=Diving Support Vessel UTOS=Oil Spill Response Vessel WBCB=Crewboat ORSS=Semi-Submersible Rig ORJA=Jack-Up Rig ORAC=Accommodation Rig ORTE=Tender Rig TACG=Chemical/Gas Tanker TAOC=Oil/Chemical/Gas Tanker TAFO=Floating Storage Offshore TAFU=Floating Storage Unit TAFP=FPSO Vessel TAMO=Mobile Offshore Production Unit BCCC=Cement Carrier TAVO=Vegetable Oil Tanker SR=Submarine Support & Rescue Vessel</p>
SHIP_Class_Status	Y	Text	1	<p>Class_Status may be one of the following codes: V=Class valid S=Class suspended W=Class Withdrawn</p>
SHIP_Ship_Status	Y	Text	1	<p>Ship_Status may be one of the following codes: E=In service L=Laid Up P=Lost</p>
SHIP_Class_Notation	Y	Text	200	<p>Class Service Notation assigned by the RO.</p>
SHIP_Gross_Tons	Y	Num	9,2	<p>Format: 9999999,99 GT as defined in the</p>

**No.
75**
(cont)

		ber		International Tonnage Convention of 1969 or tons for National Tonnage.
SHIP_Deadweight	N	Number	7	In tones, as required for Gas, Oil and Chemical Tankers.
SHIP_Registered_Owner	Y	Text	80	Registered Owner name: official name of the ship owner according to the Certificate of Registry and published on the Register Book.
SHIP_ISM_Shipowner_IMO	N	Integer	7	IMO Company Number of the company indicated on the ISM SMC certificate.
SHIP_ISM_Shipowner	N	Text	80	Name of the company indicated on the ISM SMC certificate.
SHIP_MLC_Shipowner_ID	N	Text	8	MLC_Shipowner_ID is the unique identifier assigned by the classification society to identify the Shipowner as defined in Article II of MLC, 2006.
SHIP_MLC_Shipowner	N	Text	80	MLC Owner name
MMS_SHIPS				
SHIP_Name	Y	Text	40	
SHIP_IMO_Number	N	Integer	7	IMO Number may not be available.
SHIP_Flag	Y	Text	3	Country Name in accordance with ISO 3166-1 alpha-3.
SHIP_Port_Of_Registry	Y	Text	5	Port Name in accordance with UNECE code: http://www.unece.org/cefact/locode/service/location.html
SHIP_Date_Of_Registry	N	Date	yyyy-mm-dd	Date of registration at Flag State.
SHIP_Registry_Number	N	Number	20	
SHIP_Call_Sign	N	Text	10	
SHIP_ISM_Type	Y	Text	4	SHIP_ISM_Type may be one or two (separated by comma) of the following codes: BC=Bulk carrier CH=Cargo high speed craft CT=Chemical tanker GC=Gas carrier MO=Mobile offshore drilling unit OT=Oil tanker OC=Other cargo ship PH=Passenger high speed craft PS=Passenger ship PR=Passenger ferry (ro-ro)
SHIP_ISM_Shipowner_IMO	N	Integer	7	IMO Company Number of the company indicated on the ISM SMC certificate.
SHIP_ISM_Shipowner	N	Text	80	Name of the company indicated on the ISM SMC certificate.
SHIP_MLC_Shipowner_ID	N	Text	8	MLC_Shipowner_ID is the unique identifier assigned by the classification society to identify the Shipowner as defined in Article II of MLC, 2006.
SHIP_MLC_Shipowner	N	Text	80	MLC Owner name

**No.
75**
(cont)

SHIP_CERTIFICATE				
SHIP_CERTIFICATE_Number	Y	Text	20	The number or other ID of the document issued.
SHIP_CERTIFICATE_Issued_By	Y	Text	20	The name of the organization which issued the certificate. If this is the IACS classification society, then the code defined in SHIP_Classed_by is used. If the certificate is not issued by the RO, the certificate data could be not available.
SHIP_CERTIFICATE_Code	Y	Text	5	Certificate_code is used to identify the certificate type. The code used must be one of the following: AFS=International Anti-Fouling System Certificate BWM=International Ballast Water Management Certificate SC=Cargo Ship Safety Construction Certificate SCH=Cargo Ship Safety Construction Certificate Harmonized SCN=Cargo Ship Safety Construction Certificate (Non-Convention Ships) SE=Cargo Ship Safety Equipment Certificate SHE=Cargo Ship Safety Equipment Certificate Harmonized SEN=Cargo Ship Safety Equipment Certificate (Non-Convention Ships) SR=Cargo Ship Safety Radio Certificate SRH=Cargo Ship Safety Radio Certificate Harmonized SRN=Cargo Ship Safety Radio Certificate (Non-Convention Ships) BCH=Certificate of Fitness for Carriage of Dangerous Chemicals in Bulk (BCH Code) GC=Certificate of Fitness for Carriage of Liquefied Gases in Bulk (GC Code) CH=Classification Certificate (Hull) CM=Classification Certificate (Machinery) CAS=Conditional Assessment Scheme CA=Crew Accommodation Certificate DSC=Dynamically Supported Craft Construction and Equipment Certificate DOC=Document of Compliance (ISM Code) IDOC=Interim Document of Compliance (ISM Code) HSCS=High-Speed Craft Safety Certificate IAPP=International Air Pollution Prevention Certificate IBC=International Certificate of Fitness for Dangerous Chemicals in Bulk (IBC Code) IGC=International Certificate of Fitness for Carriage of Liquefied Gases in Bulk (IGC

**No.
75**
(cont)

				Code) ILL=International Load Line Certificate IOPP=International Oil Pollution Prevention Certificate NLS=International Pollution Prevention Certificate for the Carriage of Noxious Liquid Substances in Bulk (NLS Certificate) ISPP=International Sewage Pollution Prevention Certificate ISS=International Ship Security Certificate IISS=Interim International Ship Security Certificate IT=International Tonnage Certificate MODU=Mobile Offshore Drilling Unit Safety Certificate PSS=Passenger Ship Safety Certificate SMC=Safety Management Certificate (ISM Code) ISMC=Interim Safety Management Certificate (ISM Code) SAPP=Singapore Air Pollution Prevention Certificate SLL=Singapore Load Line Certificate SOPP=Singapore Oil Pollution Prevention Certificate ST=Singapore Tonnage Certificate SPSS=Special Purpose Ship Safety Certificate ML=Maritime Labour Certificate IML=Interim Maritime Labour Certificate DOCDG=Document of Compliance (Dangerous Goods) (SOLAS Reg II-2/19) INF=International Certificate of Fitness for the Carriage of INF Cargo (INF Code) OTHER=Other Certificate
SHIP_CERTIFICATE_Validity_Type	Y	Text	1	Is used to identify the validity type of the certificate issued. It must be one of the following codes: F=Full Term issue I=Interim/Unconditional Issue S=Short term C=Conditional
SHIP_CERTIFICATE_Category	Y	Text	1	Is used to identify the type of the certificate issued. It must be one of the following codes: S=Standard D=Document of compliance C= Statement of compliance (not on behalf of the flag) N= Non convention F= Statement for Issue V=Voluntary
SHIP_CERTIFICATE_Description	N	Text	120	A field for the further description of the certificate code. This is required if the

**No.
75**
(cont)

				SHIP_CERTIFICATE_Code = "OTHER".
SHIP_CERTIFICATE_Issue_Date	Y	Date	yyyy-mm-dd	
SHIP_CERTIFICATE_Expiry_Date	N	Date	yyyy-mm-dd	
SHIP_CERTIFICATE_Declaration_Date	N	Date	yyyy-mm-dd	MLC Declaration Date (MLC Declaration date and place may be different with the certificate date and place).
SHIP_CERTIFICATE_Declaration_Place	N	Text	5	UNECE code: http://www.unece.org/cefact/locode/service/location.html
SURVEYS /AUDITS				
SHIP_SURVEY_Code	Y	Text	5	See the SHIP_CERTIFICATE_Code. For the class surveys this shall be "CH" or "CM".
SHIP_SURVEY_Type	Y	Text	5	For statutory surveys SHIP_SURVEY_Type must be one of the following: A=Annual survey, annual survey or periodical inspection; AD=Additional/Occasional survey; B=Inspection of the outside of the ship's bottom (dry); W=Inspection of the outside of the ship's bottom (iws) T=Tailshaft (They could be more than one: T1, T2, etc) Bo=Boiler (They could be more than one: Bo1, Bo2, etc) I=Initial survey; IN=Intermediate survey; P=Periodical survey; R=Renewal survey; Int=Interim /pre-audit /pre-verification (for ISM, ISPS, MLC certificates); For classification surveys SHIP_SURVEY_Type will be in accordance with the rules, regulations and practice of the particular classification society which has classed the ship.
SHIP_SURVEY_Description	Y	Text	120	The class society specific description.
LAST				
SHIP_SURVEY_Held_Date	Y	Date	yyyy-mm-dd	
SHIP_SURVEY_Place_Held	Y	Text	5	UNECE code: http://www.unece.org/cefact/locode/service/location.html
NEXT				
SHIP_SURVEY_Due_Date	Y	Date	yyyy-mm-dd	
SHIP_SURVEY_Postponement_Date	Y	Date	yyyy-mm-dd	
SHIP_SURVEY_Status	Y	Text	1	To be filled in only for survey not yet carried

No. 75

(cont)

				out or completed. It would be one of the following: D=the current date is within the survey range dates. O=the current date is after the survey range to date. P=the survey has been started but is not yet complete. The contents of this field may be calculated at run-time.
SHIP_SURVEY_Range_From_Date	N	Date	yyyy-mm-dd	
SHIP_SURVEY_Range_To_Date	N	Date	yyyy-mm-dd	
COMMENTS				
SHIP_COMMENT_Type	Y	Text	1	It would be normally one of the following: M="Memorandum" R="Recommendation"
SHIP_COMMENT_Certificates	N	Text	500	List of certificates, separated by comma, linked to the Comment Mandatory only for "Recommendation".
SHIP_COMMENT_Date_Issued	Y	Date	yyyy-mm-dd	
SHIP_COMMENT_Location_Issued	N	Text	5	Location where the survey was undertaken which resulted in the imposition of the comment. UNECE code: http://www.unece.org/cefact/locode/service/location.html
SHIP_COMMENT_Due_Date	N	Date	yyyy-mm-dd	Not Applicable in case of "Memorandum". Normally used for specifying a due date, but may be linked to another survey (see the field below). When both are present it means the first between (SHIP_COMMENT_Due_Date and SHIP_COMMENT_ExpirySurvey).
SHIP_COMMENT_ExpirySurvey	N	Text	500	Not Applicable in case of "Memorandum". SHIP_CERTIFICATE_Code and SHIP_SURVEY_Type.
SHIP_COMMENT_Status	N	Text	1	Not Applicable in case of "Memorandum". Normally: A="Active" - the comment is still applicable. P="Postponed" - the comment is still applicable and the due date/expiry survey have been changed. O="Overdue" - the comment is still applicable and is also overdue for implementation.
SHIP_COMMENT_Postponed_Due_Date	N	Date	yyyy-mm-dd	Not Applicable in case of "Memorandum". Due date after the last postponement.
SHIP_COMMENT_Postponed_ExpirySurvey	N	Text	500	Not Applicable in case of "Memorandum". Expiry survey after the last postponement.
SHIP_COMMENT_ISM_CODE	N	Text	5	Applicable only in case of ISM /ISPS /MLC Comments.

**No.
75**
(cont)

				Chapter/ Paragraph number of the Regulation for ISM /ISPS /MLC.
SHIP_COMMENT_Text_Item	Y	Integer	2	If the comment text is longer than 4000, it is necessary to split in items. This field counts and orders the items.
SHIP_COMMENT_Text	Y	Text	4000	
COMPANY				
COMPANY_Management_ID	Y	Text	20	Ship Management Company ID is the unique identifier assigned by the classification society to identify the ship management company.
COMPANY_IMO_Number	N	Integer	7	
COMPANY_Name	Y	Text	20	
COMPANY_Address	Y	Text	120	
COMPANY_MLC_Responsibility	N	Text	1	Company takes responsibility on MLC2006 Y/N.
ISM DOC CERTIFICATES				
COMPANY_CERTIFICATE_ID	Y	Text	20	
COMPANY_CERTIFICATE_Flag	N	Text	3	A company may be issued with a DOC to manage ships of a certain type by one or more flag administrations. Flag code utilized shall be in accordance with ISO3166 with additional qualification where required to identify a particular flag state.
COMPANY_CERTIFICATE_Issued_By	Y	Text	20	Name of the organization which issued the certificate. If this is the IACS classification society, then the code defined in SHIP_Classed_by is used.
COMPANY_CERTIFICATE_Name	Y	Text	5	Certificate name must be: DOC=Document of compliance Other certificate types may be defined in the future.
COMPANY_CERTIFICATE_DOC_Type	Y	Text	1	DOC_type must be one of the following: V=Voluntary C=Convention
COMPANY_CERTIFICATE_DOC_Validity_Type	Y	Text	1	DOC_status must be one of the following: F=Full I=Interim S=Short-term
COMPANY_CERTIFICATE_Issue_Date	Y	Date	yyyy-mm-dd	
COMPANY_CERTIFICATE_Expiry_Date	Y	Date	yyyy-mm-dd	
COMPANY_CERTIFICATE_Ship_Types	Y	Text	30	This is a list of ship types, separated by commas. The possible values are: BC=Bulk carrier CH=Cargo high speed craft CT=Chemical tanker GC=Gas carrier

**No.
75**
(cont)

				MO=Mobile offshore drilling unit OT=Oil tanker OC=Other cargo ship PH=Passenger high speed craft PS=Passenger ship PR=Passenger ferry (ro-ro)
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**No.
75**
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2.2.3 The “SHIPS” fields contain the information that is needed to describe a ship.

2.2.4 The “SHIP_CERTIFICATES” fields contain information about the classification certificates that have been issued for the ship by the Society and the statutory certificates that have been issued on behalf of the flag state; one ship may have many certificates.

2.2.5 The “SHIP_SURVEYS” fields contain the information that is needed to identify surveys/audits carried out on ships/companies; one certificate may have many surveys/audits.

2.2.6 The “SHIP_COMMENTS” fields contain pertinent information about the ship that is of interest to a Societies surveyor or flag administration; one ship may have many comments.

2.2.7 The “COMPANY” fields contain the information that is needed to describe a Ship Management Company.

2.2.8 Important note: Data could contain a record for a company without containing a record for a ship, e.g. where ship is classed by a different society and also ISM SMC certificate is issued by a different society.

2.2.9 The “COMPANY_CERTIFICATES” fields contain information about the certificates issued to the ship management company; a company may have many certificates.

2.3 Data collection and processing

2.3.1 All data is to be placed in the XML file(s) for UDEF transmission.

2.3.2 At least two main types of data are to be formed depending on requests:

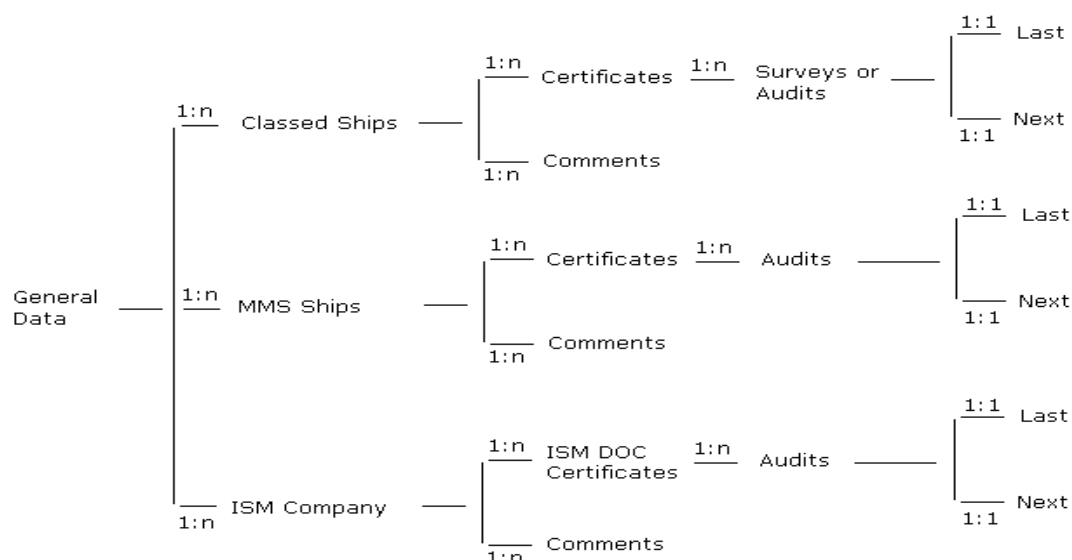
- Data table (Tier 1, this is to start testing of UDEF and to work out further development of the harmonized UDEF for the Tier 2);
- Data string (Tier 2).

2.3.3 Data table is primarily intended to facilitate data supply from each RO to Flag administration and provides general information about a number of vessels (all vessels) flying the Flag and requests no aggregation of data between ROs. It may start with at least only one RO and one Flag state involved.

2.3.4 The following diagram shows the relations between the different tables and anticipates a view of the possible data organization in the XML File.

No. 75

(cont)



2.3.5 The description of the tables is described in the Table 2.

Table 2.

Table name	Description
GENERAL_DATA	Root of the datafile containing general information about the RO in charge of the data.
CLASSED_SHIPS	General data of the Classed Ships.
MMS_SHIPS	General data of ships, not classed by the RO, for which the RO manages at least one certification between ISM SMC, ISPS and MLC.
ISM_COMPANIES	General data of companies for which the RO manages the ISM DOC certification.
CERTIFICATES	Data of the certificates/documents issued by the RO for a ship and not yet withdrawn or withdrawn in the last month.
ISM DOC CERTIFICATES	Data of the ISM DOC issued by the RO for a company and not yet withdrawn or withdrawn in the last month.
SURVEYS / AUDIT	Type of surveys or type of audits for each certificate.
LAST	Data of the last survey carried out on ships for each type of survey in the current certification period, if it exists.
NEXT	Data of the next surveys due for each type of survey, if already scheduled.
COMMENTS	Data of "Condition of Class", "Statutory Recommendation" and "Memorandum".

2.3.6 Data string is intended to supply the end user with complete data about the ship(s). The data is collected from all available sources (e.g.: Class=RO1, Statutory=RO2, ISM=RO3, MLC=RO4, e.t.c.). This may be realized effectively when the UDEF starts at least among all (or majority) of IACS members.

2.4 Special restrictions and comments

2.4.1 Some data (like SHIP_Class_Notation, SHIP_Gross_Tons, SHIP_Deadweight) aggregated from different ROs may vary and should be provided by the RO were the ship is originally classed (NOT ISM, MLC e.t.c) to avoid complaints.

No. 75

(cont)

2.4.2 The same data shall not be repeated in the same XML file to avoid its increasing (e.g. data relevant to ISM Companies (certificates and audits) should be extracted in the XML file only once).

3. Format of Reports for Printed Exchange and Online Viewing

3.1 Introduction

3.1.1 Three report layouts are typically to be used by class societies when reporting to flag states.

3.1.2 The following reports for web access have been defined:

- Periodical List of Certificates Issued (optionally for a particular period)
- Periodical Report of Ship Management Company Audits
- Ship Survey Status Report

3.1.3 Text printed italics show the field from which the data originates.

3.1.4 For the cases if reports are printed for/by the flag states A4 landscape format looks preferable. The layout of titles and data items should be preserved.

3.1.5 On requests by web services all data requested should be placed in the XML file in accordance with XML file manner by the server software of the IACS Member and returned to Flag State.

3.1.6 Flag states may use any compatible software for XML processing and making reports in accordance with their own requirements.

3.2 Periodical List of Certificates Issued

3.2.1 The purpose of this report is to list the statutory certificates issued and surveys that have been carried out by a society on vessels that are sailing under a particular flag state.

3.2.2 The report shall have the following layout:

Page Header:								
Periodical List of Certificates Issued							Period:	
Vessel Header:								
IMO No:			Class No:			Vessel Name:		
Data:								
Certificate					Survey			
Code	Type	Description	Expiry	ID	Type	Description	Date	Place
Code	Type	Description	Expiry	ID	Type	Description	Date	Place
...
Code	Type	Description	Expiry	ID	Type	Description	Date	Place
Page Footer:								
Page X of XX								
Report Footer:								
IACS Standardized Report of Ship Surveys								
Report Name; Report Date; Report version: XXXX								

**No.
75**
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3.2.3 Users may obtain the information in this report in three ways:

- download the data for all ships in a period;
- view online to find the information relating to a particular vessel in a period;
- view online for all ships in a period for printing.

3.2.4 This report shall not include any data for CLASS surveys, i.e. *SHIP_CERTIFICATE_Code* <> "CLASS"

3.2.5 The Page Header shall show the title of the report and the period that the data it presents relates to.

3.2.6 For each vessel in the report the following information is provided.

IMO Number = *SHIP_IMO_Number*

Class Number = *SHIP_Class_Number*

Vessel Name = *SHIP_Name*

3.2.7 For browsing/printing each vessel should start on a new page.

3.2.8 For each vessel shown the following data should be presented:

Code = *SHIP_CERTIFICATE_Code*

Type = *SHIP_CERTIFICATE_Type*

Description = *SHIP_CERTIFICATE_Description*

Expiry = *SHIP_CERTIFICATE_Expiry_Date*

ID = *SHIP_CERTIFICATE_ID*

3.2.9 For each certificate the list of surveys carried out should be presented:

Type = *SHIP_SURVEY_Type*

Date = *SHIP_SURVEY_Held_Date*

Place = *SHIP_SURVEY_Place_Held*

3.2.10 Each page should display the date the report is printed and the current number page of the report.

3.2.11 The report shall have a footer which lists any abbreviations used in the report. These shall be in line with the codes described previously in this document.

3.2.12 Additionally the report should state "IACS Standardized Report of Ship Surveys Report Name, Report Date, Report version..." at the end.

3.3 Periodical Report of Ship Management Company Audits

3.3.1 The purpose of this report is to list any audits of Ship Management Companies that have been carried out by the reporting classification society.

Page Header:							
Periodical Report of Ship Management Company Audits						Period:	
Company Header:							
Company Name:				Address:			
Data:							
Certificate						Audit	
Name	Type	Status	Issued	Expiry	Ship Types	Type	Date
Name	Type	Status	Issued	Expiry	Ship Types	Type	Date
...
Name	Type	Status	Issued	Expiry	Ship Types	Type	Date
Page Footer:							
Page X of XX							
Report Footer:							
IACS Standardized Report of Company Audit							
Report Name; Report Date; Report version: XXXX							

3.3.2 Users may obtain the information in this report in three ways:

- download the data for all companies in a period;
- view online to find the information relating to a particular company in a period;
- view online for all companies in a period for printing.

3.3.3 The Page Header shall show the title of the report and the period that the data it presents relates to.

3.3.4 For each company the following information shall be presented:

Company Name=*COMPANY_Name*

Address=*COMPANY_Address*

3.3.5 For printing each company should start on a new page.

3.3.6 For each company details of its current certificates should be displayed:

Name= *COMPANY_CERTIFICATE_Name*

Type=*COMPANY_CERTIFICATE_DOC_Type*

Status= *COMPANY_CERTIFICATE_DOC_Status*

Date=*COMPANY_CERTIFICATE_Issue_Date*

Expiry=*COMPANY_CERTIFICATE_Expiry_Date*

Ship Types=*COMPANY_CERTIFICATE_Ship_Types_Approved*

No. 75 (cont)

3.3.7 Each page should display the date the report is printed and the current number page of the report.

3.3.8 The report shall have a footer which lists any abbreviations used in the report. These shall be in line with the codes described previously in this document.

3.3.9 Additionally the report should state "IACS Standardized Report of Company Audit Report Name, Report Date, Report version..." at the end.

3.4 Ship Survey Status Report

3.4.1 The purpose of this report is to provide a flag state with a concise report of the current survey and certificate status of a vessel. It lists when all surveys are next due.

Page Header:								
Ship Survey Status Report								
Vessel Header:								
Vessel Name:		IMO No:		Flag:		Port of Registry:		
Classed by:		Class Notation:		Gross Tons:		Official Number:		
Class No:		Ship Type		Deadweight:		Call Sign:		
Data:								
Certificate								
Code	Type	Description	Expiry	ID				
Code	Type	Description	Expiry	ID				
...				
Code	Type	Description	Expiry	ID				
Survey								
Code	Type	Description	Date	Place	Due Date	Date1	Date2	Status
Code	Type	Description	Date	Place	Due Date	Date1	Date2	Status
...
Code	Type	Description	Date	Place	Due Date	Date1	Date2	Status
Comments								
Type	Date	Place	Due Date	Status	Text			
Type	Date	Place	Due Date	Status	Text			
...			
Type	Date	Place	Due Date	Status	Text			
Page Footer:								
Page X of XX								
Report Footer:								
IACS Standardized Report of Ship Survey Status								
Report Name; Report Date; Report version: XXXX								

3.4.2 Users can obtain the information in this report in the following ways:

- View online to find the information relating to a particular vessel.

3.4.3 The Page Header shall show the title of the report.

3.4.4 For the vessel displayed the following information shall be presented:

**No.
75**

(cont)

Vessel Name=*SHIP_Name*
IMO No=*SHIP_IMO_Number*
Flag=*SHIP_Flag*
Port of Registry=*SHIP_Port_Of_Registry*
Classed by=*SHIP_Classed_By*
Class Notation=*SHIP_Class_Notation*
Gross Tons=*SHIP_Gross_Tons*
Official Number=*SHIP_Official_Number*
Class No=*SHIP_Class_Number*
Ship Type=*SHIP_General_Type_Description*
Deadweight=*SHIP_Deadweight*
Call Sign: *SHIP_Call_Sign*
Code=*SHIP_CERTIFICATE_Code*
Type=*SHIP_CERTIFICATE_Type*
Description=*SHIP_CERTIFICATE_Description*
Expiry=*SHIP_CERTIFICATE_Expiry_Date*
ID=*SHIP_CERTIFICATE_ID*
Code=*SHIP_SURVEY_Code*
Type=*SHIP_SURVEY_Type*
Description=*SHIP_SURVEY_Description*
Last Survey Date=*SHIP_SURVEY_Held_Date*
Place Held=*SHIP_SURVEY_Place_Held*
Due Date=*SHIP_SURVEY_Due_Date*
Date1=*SHIP_SURVEY_Range_From_Date*
Date2=*SHIP_SURVEY_Range_To_Date*
Status=*SHIP_SURVEY_Status*
Comment Type=*SHIP_COMMENT_Type*
Date Issued=*SHIP_COMMENT_Date_Issued*

No.
75
(cont)

Place Issued=*SHIP_COMMENT_Place_Issued*

Due Date=*SHIP_COMMENT_Comment_Due_Date*

Status=*SHIP_COMMENT_Status*

Text=*SHIP_COMMENT_Text*

3.4.5 Each page should display the date the report is printed and the current number page of the report.

3.4.6 The report shall have a footer which lists any abbreviations used in the report. These shall be in line with the codes described previously in this document.

3.4.7 Additionally the report should state "IACS Standardized Report of Ship Survey Stats, Report Name, Report Date, Report version..." at the end.

End of Document
