



ECSS

DOORS Database version 0.4 Release Note

ECSS Secretariat
ESA-ESTEC
Requirements & Standards Division
Noordwijk, The Netherlands

Change log

ECSS-RN-004 Issue 1 9 June 2015	First issue of Release Note for DOORS Database Version 0.4.
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1 Introduction

This document provides information **concerning** the structure and content of the ECSS DOORS database version 0.4, dated 9 June 2015.

The DOORS Modules were created with a simple structure so that users can easily adapt the information to their needs and the content was properly identified to allow manipulation of information using DOORS functionalities (e.g. filtering by content type or section; cross-references between content).

2 Metrics

The size of the complete ECSS DOORS database archive is 215,5 Mbytes in size (unzipped) containing 127 ECSS Standard Modules in total, and 2 additional modules for the ECSS Standard List and ECSS DPR List.

Number of formal modules per DOORS folder/project:

ECSS v0.4

- ECSS Current v0.4
 - o E – Space Engineering – 53 Modules
 - o M - Space Project Management – 5 Modules
 - o Q - Space Product Assurance – 58 Modules
 - o S - ECSS System – 2 Modules
- ECSS Superseded v0.4
 - o E - Space Engineering – 4 Modules
 - o Q - Space Product Assurance – 5 Modules
- ECSS Standard List
- ECSS DPR List

Database File checksum (.dpa file) = E3DD573926F95612EA9C47330BF570BA

3 Database Generation Environment

The database has been generated under the following environment:

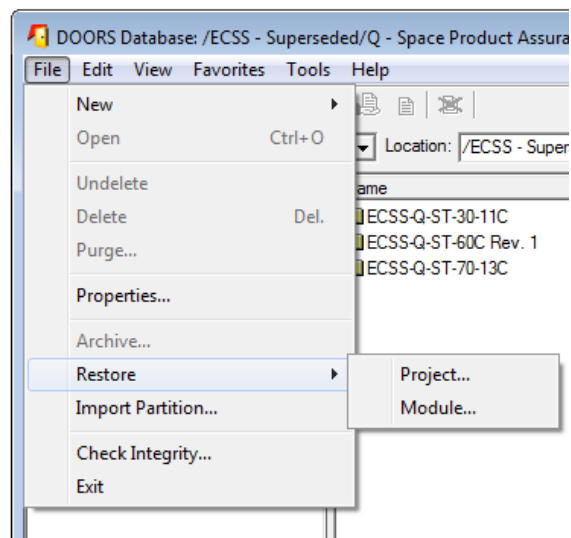
1. IBM Rational® DOORS® 8.3
2. Microsoft Office 2010 / 2013 with Microsoft Word, Excel and Visio.

Restoration of the project archive into DOORS has been tested under DOORS 9.1

4 User Instructions

To install the DOORS database:

1. Download the zipped ECSS DOORS archive file from the ECSS website.
2. Unzip the archive with the password: DOORSDB
3. Login into your DOORS database.
4. Click on the top menu in File -> Restore -> Project.



5. Select the DOORS archive file and click OK to start the DOORS archive import.

NOTE If you don't have database permissions to do this operation, request your DOORS Database Administrator to do this operation or to give you the right permissions.

6. Define local access rights according to receiver policy (initial access rights are inherited from the parent of the restored project).
7. Rename the project according to receiver policy

NOTE The project can be renamed without impact on restored data and links.

5 Database Structure

5.1 Overview

Using DOORS terminology, the ECSS database is organized in a **Project** named “ECSS v0.4” including 2 sub-projects, “ECSS – Current v0.4” and “ECSS – Superseded v0.4”, which are subdivided in **Folders**:

- E - Space Engineering
- M - Space Project Management
- Q - Space Product Assurance
- S - ECSS System

Each Folder contains a list of sub-folders that themselves includes one formal Module and one link module.

Each formal Module contains the whole content of a published ECSS standard. The link Module handles the cross-references within the formal Module.

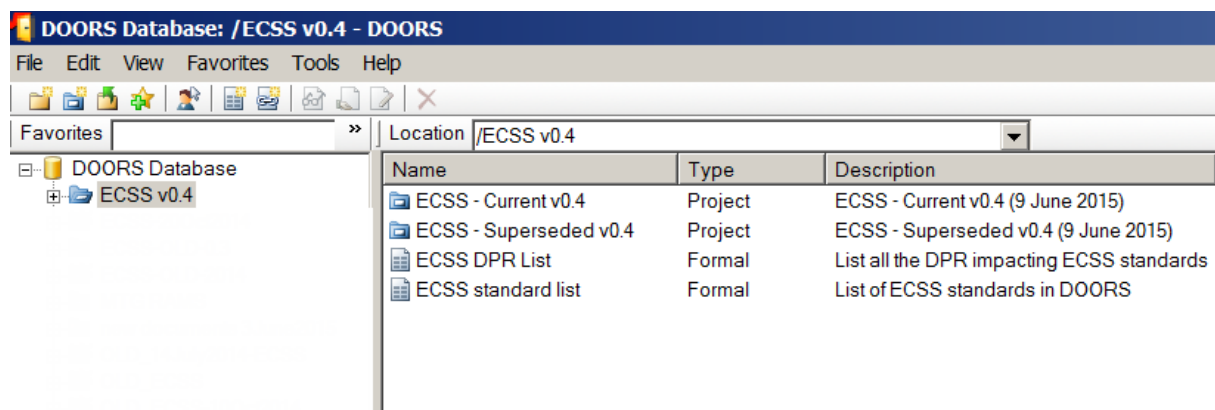


Figure 5-1: Structure of ECSS DOORS database

A Module, in its main view (02 – Overview), is organized in two areas, on the left side there is the Table of Content (TOC) of the document in the form of a tree structure and on the right side the content of the different pieces of information (see Figure 5-2 showing E-ST-10-02C – TOC and partial content).

NOTE The TOC can be collapsed or expended (i.e. clicking on “plus” or “minus” icons). By clicking on any clause, its content is displayed on the right side.



ECSS Section	ECSS Source Id	Object Text	ECSS Object Type
01 Overview 01.1 This standard is one of the series of ECSS files 01.2 ECSS does not provide any mandatory information 01.3 Requirements and Standards Division (RSD) 01.4 Change log 01.5 Notes 01.6 This standard establishes the requirements to be 01.7 The following normative documents contain parts 01.8 ECSS system - Group of items 01.9 Space engineering - System engineering-general 01.10 Space engineering - Tools 01.11 Space project management - Phase planning and 01.12 Space product assurance - Requirements for 01.13 Space product assurance - Quality assurance		 EUROPEAN COOPERATION ECSS FOR SPACE STANDARDIZATION Space engineering - Verification ECSS Document ECSS-STD-10000 Requirements & Standards Division (RSD) - The header file	Class
02 Verification 02.1 This standard establishes the requirements to be 02.2 The following normative documents contain parts 02.3 ECSS system - Group of items 02.4 Space engineering - System engineering-general 02.5 Space engineering - Tools 02.6 Space project management - Phase planning and 02.7 Space product assurance - Requirements for 02.8 Space product assurance - Quality assurance		This standard is one of the series of ECSS Standards intended to be applied together for the management, engineering and product assurance in space projects and applications. ECSS is a cooperative effort of the European Space Agency, national space agencies and European industry associations for the purpose of developing and maintaining common standards. Requirements in this Standard are defined in terms of what shall be accomplished, rather than in terms of how to organize and perform the necessary work. The allow varying organizational structures and methods to be applied where they are effective, and for the structures and methods to evolve as necessary without requiring the standards. This Standard has been prepared by the ECSS-STD-10-000 Working Group, reviewed by the ECSS Executive Board and approved by the ECSS Technical Authority.	Heading Information
03 Verification 03.1 This standard establishes the requirements to be 03.2 The following normative documents contain parts 03.3 ECSS system - Group of items 03.4 Space engineering - System engineering-general 03.5 Space engineering - Tools 03.6 Space project management - Phase planning and 03.7 Space product assurance - Requirements for 03.8 Space product assurance - Quality assurance		ECSS does not provide any warranty whatsoever, whether expressed, implied, or statutory, including, but not limited to, any warranty of merchantability or fitness for a particular purpose or any warranty that the contents of the files are error-free. In no respect shall ECSS incur any liability for any damages, including, but not limited to, direct, indirect, special, or consequential damages arising out of, resulting from, or in any way connected to the use of this Standard, whether or not based upon contracts, business agreement, tort, or otherwise, whether or not injury was sustained by persons or property or otherwise, and whether or not loss was sustained there, or arose out of, the results of, the files, or any services that may be provided by ECSS.	Heading Information
04 Verification 04.1 This standard establishes the requirements to be 04.2 The following normative documents contain parts 04.3 ECSS system - Group of items 04.4 Space engineering - System engineering-general 04.5 Space engineering - Tools 04.6 Space project management - Phase planning and 04.7 Space product assurance - Requirements for 04.8 Space product assurance - Quality assurance		ECSS Requirements and Standards Division ECSS-STD-10-000 RSD - The header file	Heading Information
05 Verification 05.1 This standard establishes the requirements to be 05.2 The following normative documents contain parts 05.3 ECSS system - Group of items 05.4 Space engineering - System engineering-general 05.5 Space engineering - Tools 05.6 Space project management - Phase planning and 05.7 Space product assurance - Requirements for 05.8 Space product assurance - Quality assurance		ECSS-STD-10-000 RSD - The header file	Heading Information
06 Verification 06.1 This standard establishes the requirements to be 06.2 The following normative documents contain parts 06.3 ECSS system - Group of items 06.4 Space engineering - System engineering-general 06.5 Space engineering - Tools 06.6 Space project management - Phase planning and 06.7 Space product assurance - Requirements for 06.8 Space product assurance - Quality assurance		ECSS-STD-10-000 RSD - The header file	Heading Information
07 Verification 07.1 This standard establishes the requirements to be 07.2 The following normative documents contain parts 07.3 ECSS system - Group of items 07.4 Space engineering - System engineering-general 07.5 Space engineering - Tools 07.6 Space project management - Phase planning and 07.7 Space product assurance - Requirements for 07.8 Space product assurance - Quality assurance		ECSS-STD-10-000 RSD - The header file	Heading Information

Figure 5-2: Main view of DOORS Module

In this selected view, the content of the standards is organized and displayed in columns:

- **ECSS Section**, showing the clause identifier,
- **ECSS Source Id**, which is a reference to identify information that can be referenced in the ECSS text. It contains the following information:
 - for a header: the same information as the ECSS section,
 - for a requirement: the requirement number (aggregation of section number and letter)
 - for an enumerated table (resp. figure, equation): the table (resp. figure, equation) number,
 - for a footnote: the footnote number
- **IE PUID**, showing the unique requirement identifier,
- **RCM Version**, showing as numerical value the version of the requirement (1 = first version),
- **Object Text**, which contains the different content, i.e. text (descriptive and normative), tables, figures and equations of the standard organized per content type,

Note This column does not only contain the text of the Requirements.

- **ECSS Notes**, contains informative text (Notes) related to normative text,
- **ECSS Object Type**, which defines the content type to allow identifying and filtering the different pieces of information. The different types defined are:
 - **Bibliography** for bibliographic references,

- **Cover** for the cover page information (i.e. ECSS logo, title of the standard and reference to ECSS secretariat),
- **Heading** for a clause title,
- **Information** for a descriptive text,
- **Requirement** for a requirement (i.e. text using “shall” verbal form),
- **Recommendation** for a recommendation (i.e. text using “should” verbal form),
- **Permission** for a permission (i.e. text using “may” verbal form),
- **Acronym** for an abbreviated term,
- **Normative Reference** for a document listed in Normative Reference,
- **Definition** for a term defined in the standard,
- **Definition Content**, the content of the **Definition**,
- **Figure** for a figure,
- **Table** for a table,
- **Footnote** for the footnote text referenced in some part of the text.
- **Cross-reference**, showing cross-references within the document where "calling" identifying outgoing references, and "called by" incoming references.

The other views include columns relevant to change tracking and cross referencing inside the Module:

- **ECSS Change Status**, identifies the kind of change from the last version of the Standard added to DOORS: “Created”, “Normative Change”, “Informative Change”, “Deleted” and “Unchanged”.
- **Reason for Update**, contains the reason why the requirement was updated “DPR” for a Database Change Request and “CR” for a Change Request. The field can have both values selected.
- **Correction Number**, reference number of the DPR or CR if known.
- **ECSS Referenced ID** contains the list of DOORS “Absolute Numbers” of the referenced requirements, tables or figures.

Concerning the column **Object Text**, it has to be noted that:

- Notes and Expected Output are kept inside the requirements if they are interleaved with the normative text in at least one requirement of the Standard. Although it is informative text, it has to be kept inside the requirements for the understanding of the context (e.g. if a requirement has 3 bullets and there is a note bellow bullet 1 and another bellow bullet 2, if these notes are separate from the requirement, they lose the context);

- Tables and Figures are in separate objects whenever they have a caption and reference, in all other cases they are kept with the text (else the context would be lost);
- Tables and Figures come as OLE Objects;
- Equations are editable.

The standard reference code (e.g. ECSS-M-ST-10C) is kept in a column in case there is a need to merge the content of different standards in a single Module.

6 List of Modules

Table 6-1 lists the standards imported into the DOORS DB. This table can be found in the Module ECSS Standard List.

The latest Issue is located in the “ECSS – Current v0.4” project, previous issues (when on the table the columns First Issue and Latest version are different) are located in the “ECSS – Superseded v0.4” project.

Some lines represent Standards that are not in DOORS but had Rank Number allocated in the past.

Table 6-1: ECSS Standards imported into DOORS

ECSS standard title	ECSS document prefix	ECSS document rank	Latest ECSS version published	First issue imported in DOORS	Latest ECSS version in DOORS	ECSS latest correction ID	Note for ECSS Std list
System engineering general requirements	ECSS-E-ST-10	79	C	C	C		
Verification	ECSS-E-ST-10-02	74	C	C	C		
Testing	ECSS-E-ST-10-03	75	C	C	C		
Space environment	ECSS-E-ST-10-04	76	C	C	C		
Technical specification	ECSS-E-ST-10-06	77	C	C	C		
Reference coordinate system	ECSS-E-ST-10-09	23	C	C	C		
Human factors engineering	ECSS-E-ST-10-11	78	C	C	C		
Methods for the calculation of radiation received and its effects, and a policy for design margins	ECSS-E-ST-10-12	98	C	C	C		
Interface management	ECSS-E-ST-10-24	129	C	C	C		
Electrical and electronic	ECSS-E-ST-20	2	C	C	C		
Spacecraft charging	ECSS-E-ST-20-06	7	C	C	C		
Electromagnetic compatibility	ECSS-E-ST-20-07	8	C Rev.1	C	C Rev.1		

ECSS standard title	ECSS document prefix	ECSS document rank	Latest ECSS version published	First issue imported in DOORS	Latest ECSS version in DOORS	ECSS latest correction ID	Note for ECSS Std list
Photovoltaic assemblies and component	ECSS-E-ST-20-08	9	C Rev.1	C	C Rev.1		
Thermal control general requirements	ECSS-E-ST-31	80	C	C	C		
Two-phase heat transport equipment	ECSS-E-ST-31-02	119	C	C	C		
Structural general requirements	ECSS-E-ST-32	5	C Rev.1	C Rev.1	C Rev.1		C Rev.1 was first version in DOORS
Fracture control	ECSS-E-ST-32-01	81	C Rev.1	C Rev.1	C Rev.1		C Rev.1 was first version in DOORS
Structural design and verification of pressurized hardware	ECSS-E-ST-32-02	26	C Rev.1	C Rev.1	C Rev.1		C Rev.1 was first version in DOORS
Structural finite element models	ECSS-E-ST-32-03	10	C	C	C		
Materials	ECSS-E-ST-32-08	22	C Rev.1	C	C Rev.1		
Structural factors of safety for spaceflight hardware	ECSS-E-ST-32-10	11	C Rev.1	C Rev.1	C Rev.1		C Rev.1 was first version in DOORS
Modal survey assessment	ECSS-E-ST-32-11	25	C	C	C		
Mechanisms	ECSS-E-ST-33-01	82	C	C	C		
Explosive systems and devices	ECSS-E-ST-33-11	28	C	C	C		
Environmental control and life support (ECLS)	ECSS-E-ST-34	83	C	C	C		
Propulsion general requirements	ECSS-E-ST-35	85	C Rev.1	C Rev.1	C Rev.1		C Rev.1 was first version in DOORS
Liquid and electric propulsion for spacecraft	ECSS-E-ST-35-01	84	C	C	C		
Solid propulsion for spacecrafts and launchers	ECSS-E-ST-35-02	110	C	C	C		
Liquid propulsion for launchers	ECSS-E-ST-35-03	111	C	C	C		
Cleanliness requirements for spacecraft propulsion hardware	ECSS-E-ST-35-06	20	C Rev.1	C Rev.1	C Rev.1		C Rev.1 was first version in DOORS
Compatibility testing for liquid propulsion systems	ECSS-E-ST-35-10	105	C	C	C		
Software	ECSS-E-ST-40	86	C	C	C		
Communications	ECSS-E-ST-50	97	C	C	C		

ECSS standard title	ECSS document prefix	ECSS document rank	Latest ECSS version published	First issue imported in DOORS	Latest ECSS version in DOORS	ECSS latest correction ID	Note for ECSS Std list
Space data links - Telemetry synchronization and channel coding	ECSS-E-ST-50-01	24	C	C	C		
Ranging and Doppler tracking	ECSS-E-ST-50-02	87	C	C	C		
Space data links - Telemetry transfer frame protocol	ECSS-E-ST-50-03	88	C	C	C		
Space data links - Telecommand protocols, synchronization and channel coding	ECSS-E-ST-50-04	89	C	C	C		
Radio frequency and modulation	ECSS-E-ST-50-05	90	C Rev.2	C Rev.1	C Rev.2		C Rev.1 was first version in DOORS
SpaceWire - Links, nodes, routers and networks	ECSS-E-ST-50-12	91	C	C	C		
Interface and communication protocol for MIL-STD-1553B data bus onboard spacecraft	ECSS-E-ST-50-13	101	C	C	C		
Spacecraft discrete interfaces	ECSS-E-ST-50-14	94	C	C	C		
CANbus extension protocol	ECSS-E-ST-50-15	127	C	C	C		
SpaceWire protocol identification	ECSS-E-ST-50-51	107	C	C	C		
SpaceWire - Remote memory access protocol	ECSS-E-ST-50-52	108	C	C	C		
SpaceWire - CCSDS packet transfer protocol	ECSS-E-ST-50-53	109	C	C	C		
Control performances	ECSS-E-ST-60-10	102	C	C	C		
Star sensor terminology and performance specification	ECSS-E-ST-60-20	92	C Rev.1	C Rev.1	C Rev.1		C Rev.1 was first version in DOORS
Attitude and orbit control systems (AOCS)	ECSS-E-ST-60-30	116	C	C	C		
Ground systems and operations	ECSS-E-ST-70	6	C	C	C		
Spacecraft on-board control procedures	ECSS-E-ST-70-01	106	C	C	C		
Space segment operability	ECSS-E-ST-70-11	29	C	C	C		

ECSS standard title	ECSS document prefix	ECSS document rank	Latest ECSS version published	First issue imported in DOORS	Latest ECSS version in DOORS	ECSS latest correction ID	Note for ECSS Std list
Ground systems and operations - Monitoring and control data definition	ECSS-E-ST-70-31	27	C	C	C		
Test and operations procedure language	ECSS-E-ST-70-32	95	C	C	C		
Project planning and implementation	ECSS-M-ST-10	1	C Rev.1	C Rev.1	C Rev.1		C Rev.1 was first version in DOORS
Organization and conduct of reviews	ECSS-M-ST-10-01	31	C	C	C		
Configuration and information management	ECSS-M-ST-40	32	C Rev.1	C Rev.1	C Rev.1		C Rev.1 was first version in DOORS
Cost and schedule management	ECSS-M-ST-60	30	C	C	C		
Risk management	ECSS-M-ST-80	34	C	C	C		
Product assurance	ECSS-Q-ST-10	36	C	C	C		
Critical-item control	ECSS-Q-ST-10-04	18	C	C	C		
Nonconformance control system	ECSS-Q-ST-10-09	35	C	C	C		
Quality assurance	ECSS-Q-ST-20	38	C Rev. 1	C	C Rev. 1		
Quality assurance for test centres	ECSS-Q-ST-20-07	37	C	C	C		
Storage, handling and transportation of spacecraft hardware	ECSS-Q-ST-20-08	117	C	C	C		
Off the shelf items utilization in space systems	ECSS-Q-ST-20-10	112	C	C	C		
Dependability	ECSS-Q-ST-30	41	C	C	C		
Failure modes, effects (and criticality) analysis (FMEA/FMECA)	ECSS-Q-ST-30-02	39	C	C	C		
Availability analysis	ECSS-Q-ST-30-09	40	C	C	C		
Derating - EEE components	ECSS-Q-ST-30-11	14	C Rev.1	C	C Rev.1		
Safety	ECSS-Q-ST-40	44	C	C	C		
Hazard analysis	ECSS-Q-ST-40-02	42	C	C	C		
Fault tree analysis - Adoption notice ECSS/IEC 61025	ECSS-Q-ST-40-12	43	C	C	C		

ECSS standard title	ECSS document prefix	ECSS document rank	Latest ECSS version published	First issue imported in DOORS	Latest ECSS version in DOORS	ECSS latest correction ID	Note for ECSS Std list
Electrical, electronic and electromechanical (EEE)	ECSS-Q-ST-60	48	C Rev.2	C Rev.1	C Rev.2		
ASIC and FPGA development	ECSS-Q-ST-60-02	45	C	C	C		
Generic requirements for hybrids	ECSS-Q-ST-60-05	16	C Rev.1	C Rev.1	C Rev.1		C Rev.1 was first version in DOORS
Design, selection, procurement and use of die form monolithic microwave integrated circuits MMICs	ECSS-Q-ST-60-12	19	C	C	C		
Requirements for the use of COTS components	ECSS-Q-ST-60-13	46	C	C	C		Based on Q-ST-60C Rev 2.
Relieving requirements	ECSS-Q-ST-60-14	47	C	C	C		
Radiation hardness assurance - EEE components	ECSS-Q-ST-60-15	115	C	C	C		
Materials, mechanical parts and processes	ECSS-Q-ST-70	49	C Rev.1	C	C Rev.1		
Cleanliness and contamination control	ECSS-Q-ST-70-01	50	C	C	C		
Thermal vacuum outgassing test for the screening of space materials	ECSS-Q-ST-70-02	51	C	C	C		
Black-anodizing of metals with inorganic dyes	ECSS-Q-ST-70-03	52	C	C	C		
Thermal testing for the evaluation of space materials, processes, mechanical parts and assemblies	ECSS-Q-ST-70-04	53	C	C	C		
Detection of organic contamination surfaces by IR spectroscopy	ECSS-Q-ST-70-05	54	C	C	C		
Particle and UV radiation testing for space materials First issue	ECSS-Q-ST-70-06	55	C	C	C		
Verification and approval of automatic machine wave soldering	ECSS-Q-ST-70-07	56	C	C	C		

ECSS standard title	ECSS document prefix	ECSS document rank	Latest ECSS version published	First issue imported in DOORS	Latest ECSS version in DOORS	ECSS latest correction ID	Note for ECSS Std list
Manual soldering of high-reliability electrical connections	ECSS-Q-ST-70-08	57	C	C	C		
Measurements of thermo-optical properties of thermal control materials	ECSS-Q-ST-70-09	58	C	C	C		
Qualification of printed circuit boards	ECSS-Q-ST-70-10	59	C	C	C		
Procurement of printed circuit board	ECSS-Q-ST-70-11	60	C	C	C		
Design rules for printed circuit boards	ECSS-Q-ST-70-12	120	C	C	C		
Measurements of the peel and pull-off strength of coatings and finishes using pressure-sensitive tapes	ECSS-Q-ST-70-13	61	C Rev.1	C	C Rev.1		
Preparation, assembly and mounting of RF coaxial cables	ECSS-Q-ST-70-18	62	C	C	C		
Determination of the susceptibility of silver-plated copper wire and cable to "red-plague" corrosion	ECSS-Q-ST-70-20	63	C	C	C		
Flammability testing for the screening of space materials	ECSS-Q-ST-70-21	64	C	C	C		
Control of limited shelf-life materials	ECSS-Q-ST-70-22	17	C	C	C		
Crimping of high-reliability electrical connections	ECSS-Q-ST-70-26	13	C	C	C		
Repair and modification of printed circuit board assemblies for space use	ECSS-Q-ST-70-28	15	C	C	C		
Determination of offgassing products from materials and assembled articles to be used in a manned space vehicle crew compartment	ECSS-Q-ST-70-29	65	C	C	C		

ECSS standard title	ECSS document prefix	ECSS document rank	Latest ECSS version published	First issue imported in DOORS	Latest ECSS version in DOORS	ECSS latest correction ID	Note for ECSS Std list
Wire wrapping of high-reliability electrical connections	ECSS-Q-ST-70-30	12	C	C	C		
Application of paints and coatings on space hardware	ECSS-Q-ST-70-31	66	C	C	C		
Material selection for controlling stress corrosion cracking	ECSS-Q-ST-70-36	67	C	C	C		
Determination of the susceptibility of metals to stress-corrosion cracking	ECSS-Q-ST-70-37	68	C	C	C		
High-reliability soldering for surface mount and mixed technology	ECSS-Q-ST-70-38	21	C	C	C		
Welding of metallic materials for flight hardware	ECSS-Q-ST-70-39	128	C	C	C		
Mechanical testing of metallic materials	ECSS-Q-ST-70-45	69	C	C	C		
Requirements for manufacturing and procurement of threaded fasteners	ECSS-Q-ST-70-46	70	C Rev.1	C Rev.1	C Rev.1		C Rev.1 was first version in DOORS
Particle contamination monitoring for spacecraft systems and cleanrooms	ECSS-Q-ST-70-50	114	C	C	C		
Materials and hardware compatibility tests for sterilization processes	ECSS-Q-ST-70-53	99	C	C	C		
Microbial examination of flight hardware and cleanrooms	ECSS-Q-ST-70-55	103	C	C	C		
Vapour phase bioburden reduction for flight hardware	ECSS-Q-ST-70-56	123	C	C	C		
Dry heat bioburden reduction for flight hardware	ECSS-Q-ST-70-57	124	C	C	C		
Bioburden control in clean rooms	ECSS-Q-ST-70-58	104	C	C	C		
Materials, processes and their data selection	ECSS-Q-ST-70-71	126	C	C	C		

ECSS standard title	ECSS document prefix	ECSS document rank	Latest ECSS version published	First issue imported in DOORS	Latest ECSS version in DOORS	ECSS latest correction ID	Note for ECSS Std list
Software product assurance	ECSS-Q-ST-80	72	C	C	C		
Description, implementation and general requirements	ECSS-S-ST-00	100	C	C	C		
Glossary of terms	ECSS-S-ST-00-01	125	C	C	C		
		130					Reserved Rank Number
		131					Reserved Rank Number

7 List of Changes

This Release Note corresponds to the first official "ECSS DOORS database release" as such the List of changes will be empty.

However several iterations of the database were made within the DOORS TF to be able to publish this version. The changes listed below correspond to the changes done since the last database delivery v0.3, dated 20 February 2015 (private release between ECSS DOORS TF members).

Table 7-1: Module changes in DOORS

Standard	Changes
ECSS-E-ST-10-24C	Standard added to the database
ECSS-E-ST-33-01C	Empty headings replaced with a "."
ECSS-E-ST-50-02C	Empty headings replaced with a "."
ECSS-E-ST-50-14C	Empty headings replaced with a "."
ECSS-E-ST-50-15C	Standard added to the database
ECSS-E-ST-70-31C	Empty headings replaced with a "."
ECSS-Q-ST-70-39C	Standard added to the database
ECSS-Q-ST-80C	Empty headings replaced with a "."
ECSS-M-ST-80C	Empty headings replaced with a "."
ECSS Standard List	Updated with the new standards added. Added reserved ranking numbers. Module attribute Description improved.
ECSS DPR List	Module attribute Description improved

8 Limitations and known issues

- Standards with interleaved notes in one or more requirements didn't have the Notes split from the normative text to a separate attribute. In this case, the Notes can only be moved on a next revision of the Standard if the problem is corrected.

NOTE An interleaved note is when there is normative text before and after the note, in which case, if the note is split from the rest of the requirement, it may not be possible to know to which content it was referencing.

- A DOORS script (DXL) created all the links in the Standards automatically. If a NOTE is inside the requirement field and the NOTE has a reference to a Requirement / Table / Figure then a link was created by the script. Only after moving these NOTES to the correct field the links can be corrected as they are created automatically.
- Tables / Figures with a caption were kept at the end of the section for standards imported until 2013 (Module attribute "Created On" before January 2014).
- Whenever there are objects identified as Requirement without shall, the IE PUID was kept because they are identified as Requirements on the Standard and there are Change Requests on these requirements to rewrite the normative text.
- If a requirement exists in an initial revision of a Standard, and it was removed on a following revision and the change was not tracked on the Standard version in Word, then the missing <<deleted>> was added to the DOORS Module to track the requirement deletion.
- As some Standards contain "Empty Headings" a "dot" has been added in the DOORS module to overcome problems when creating Word files from Modules.

9 DPR List

The current database is the first public release. No change requests have been applied to the current database.

ECSS DPR Reference	ECSS DPR Initiator	ECSS DPR Name	ECSS DPR Origin Standards	ECSS Original DB Version	ECSS Proposed Modification	ECSS DPR Status	ECSS DPR Justification	ECSS DPR Agreed Modification	ECSS Updated DB Version	ECSS Changed Standards

Fields to be field by the ECSS secretariat: ECS DPR Reference, ECSS DPR Status, ECSS DPR Justification, ECSS DPR Agreed Modification, ECSS Updated DB Version and ECSS Changed Standards.

The current table is also available on the Module ECSS DPR List on the root of the project.

10 List of Standards to be imported

Table 10-1: Standards to be released and imported in DOORS

Document ID	Title of Document or Activity	Type of activity	Activity Status
ECSS-E-ST-10-04C Rev. 1	Space environment	CR implementation	new 2015
ECSS-E-ST-20C Rev.1	Electrical and electronic	CR implementation	new 2015
ECSS-E-ST-20-01C	Multipaction design and test	new	new 2015
ECSS-E-ST-20-04C	Assessment of spacecraft worst case charging	new	ongoing WP 2015
ECSS-E-ST-20-20C	Interface requirements for electrical power	new	new 2015
ECSS-E-ST-31-02C Rev. 1	Two-phase heat transport equipment	CR implementation	new 2015
ECSS-E-ST-31-04C	Exchange of thermal model data for space applications	new	new 2015
ECSS-E-ST-33-01C Rev.1	Mechanisms	CR implementation	ongoing WP 2015
ECSS-E-ST-33-11C Rev.1	Explosive systems and devices	CR implementation	ongoing WP 2015
ECSS-E-ST-40-07C	SMP level 1	new	new 2015
ECSS-E-ST-50-11C	SpaceFibre	new	new 2015
ECSS-E-ST-50-12C Rev.1	SpaceWire - Links, nodes, routers and networks	CR implementation	ongoing WP 2015
ECSS-E-ST-60-21C	Gyros terminology and performance specification	new	ongoing WP 2015
ECSS-E-ST-70-41C	Telemetry and telecommand packet utilization	new	ongoing WP 2015
ECSS-Q-ST-10C Rev.1	Product assurance management	Pre-Tailoring	ongoing WP 2015
ECSS-Q-ST-20C Rev.2	Quality assurance	Pre-Tailoring / CR implementation	ongoing WP 2015
ECSS-Q-ST-30C Rev. 1	Dependability	CR implementation	new WP 2015
ECSS-Q-ST-40C Rev. 1	Safety	CR implementation	new WP 2015
ECSS-Q-ST-70-10C Rev.1	Qualification of PCBs	CR implementation	ongoing WP 2015
ECSS-Q-ST-70-11C Rev.1	Procurement of PCBs	CR implementation	ongoing WP 2015
ECSS-Q-ST-70-14C	Corrosion	new	ongoing WP 2015
ECSS-Q-ST-70-15C	Non-destructive testing or non-destructive inspection	new	ongoing WP 2015
ECSS-Q-ST-70-16C	Adhesive bonding for spacecraft and launcher	new	new WP 2015

Document ID	Title of Document or Activity	Type of activity	Activity Status
	applications		
ECSS-Q-ST-70-17C	Durability testing of coatings and surface finishes	new	new WP 2015
ECSS-Q-ST-70-26C Rev.1	Crimping of high-reliability electrical connections	CR implementation	ongoing WP 2015
ECSS-Q-ST-70-38C Rev.1	High-reliability soldering for surface mount and mixed technology	CR implementation	ongoing WP 2015
ECSS-Q-ST-70-54C	Ultra cleaning of flight hardware	new	ongoing WP 2015
ECSS-U-ST-20C	Planetary Protection	new	new 2015
<p>Type of activity: New = New ECSS Standard development started in 2015 CR implementation = Update of Standard through ECSS CR process</p> <p>Activity Status Ongoing WP 2015 = Activity started prior 2015 but still ongoing in the ECSS Work-Plan (WP) of 2015 New 2015 = Activity started in 2015 as part of the 2015 WP</p>			