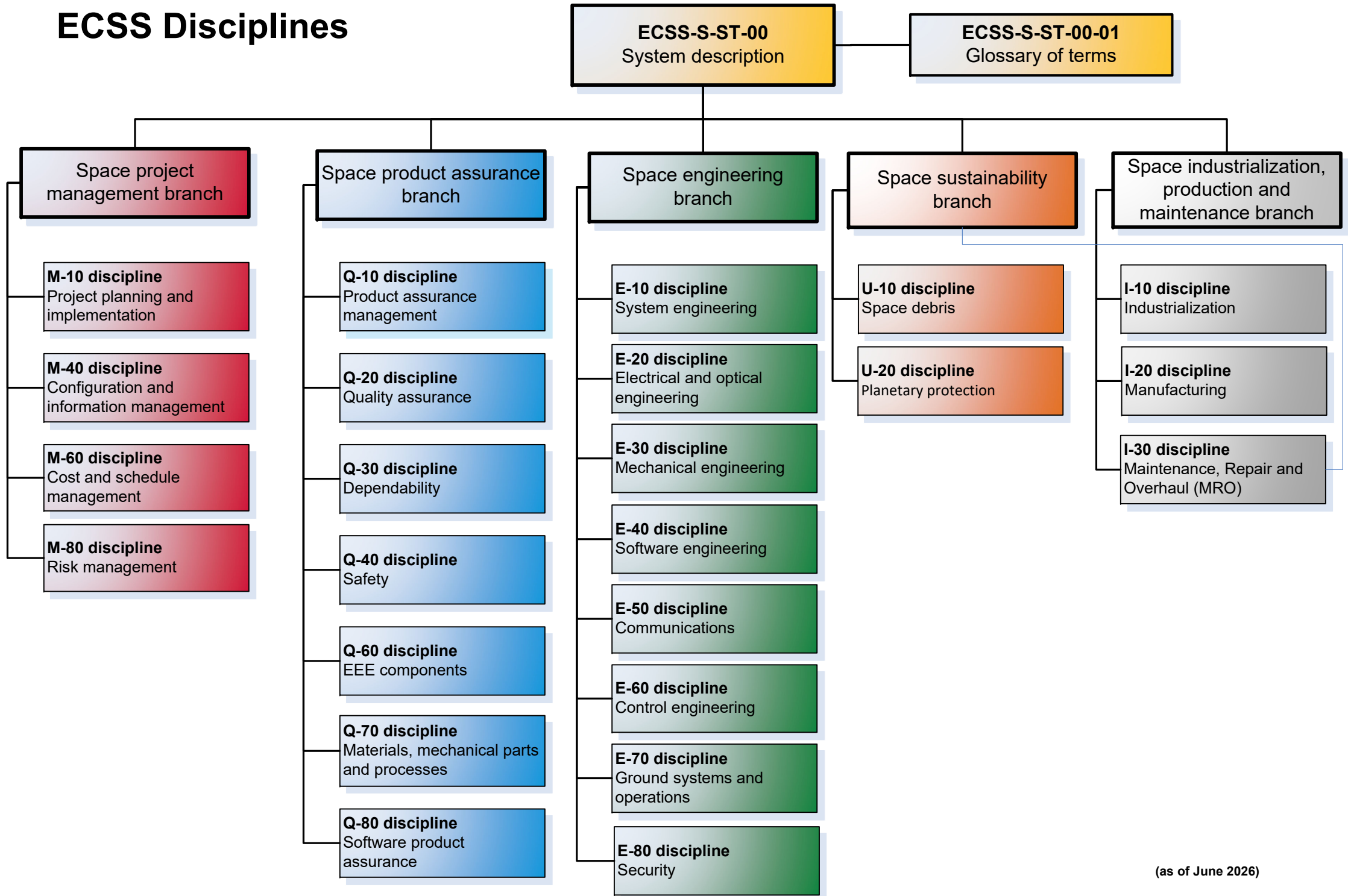
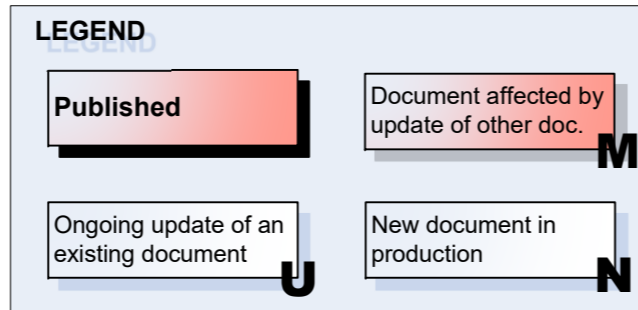
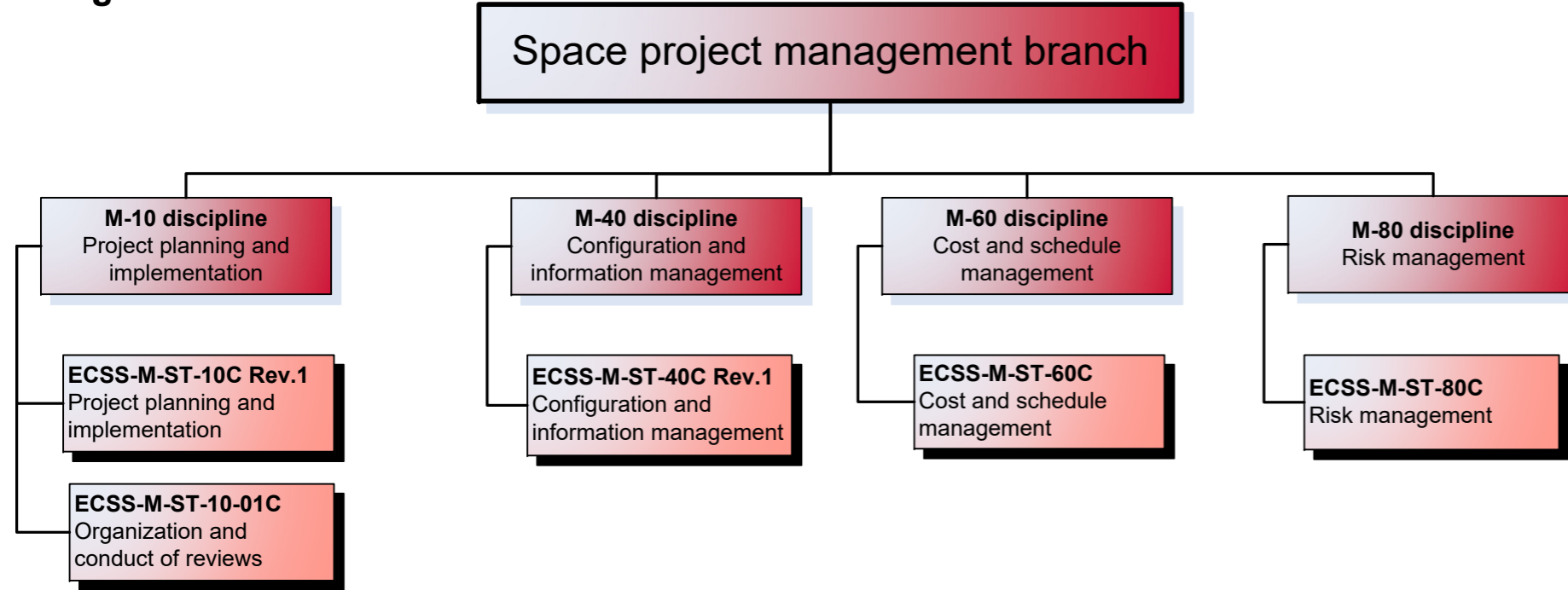


ECSS Disciplines



ECSS Standards

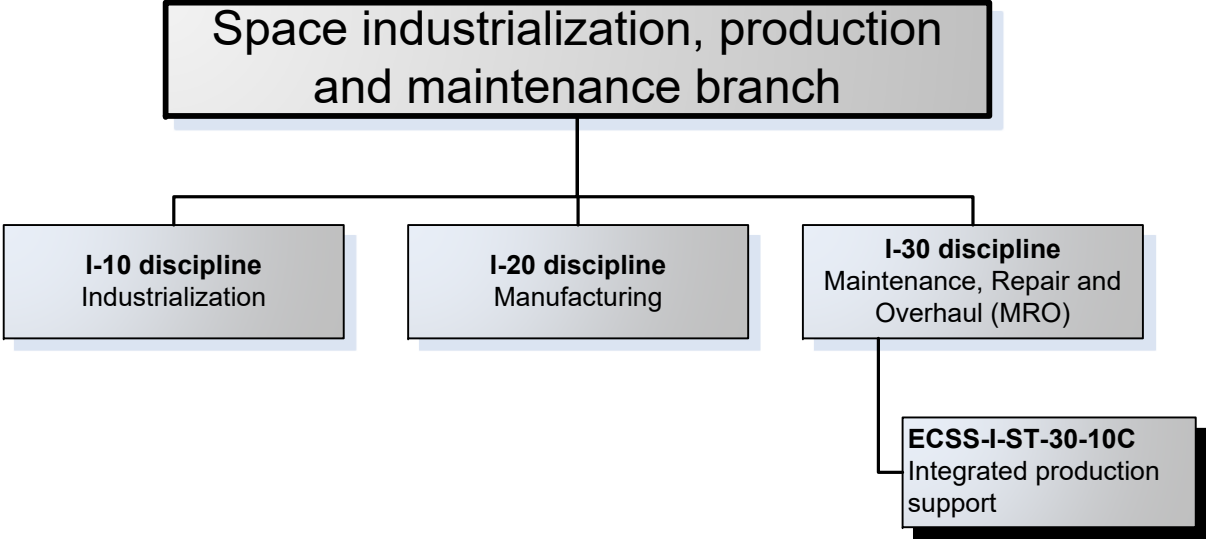
Management branch



(as of March 2025)

ECSS Standards

Industrialization branch



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(as of June 2026)

ECSS Standards

Engineering branch

Space engineering branch



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- Ongoing or planned update** (White box)
- Document affected by update of other doc.** (Light blue box)
- New document in production or planned** (Light blue box)

E-30 discipline

Mechanical engineering

ECSS-E-ST-31C
Thermal control general requirements

ECSS-E-ST-32C Rev.1
Structural general requirements

ECSS-E-ST-33-01C Rev.2
Mechanisms

ECSS-E-ST-34C
Environmental control and life support

ECSS-E-ST-35C Rev.1
Propulsion general requirements

ECSS-E-ST-31-02C Rev.1
Two-phase heat transport equipment

ECSS-E-ST-32-01C Rev.2
Fracture control

ECSS-E-ST-33-11C Rev.1
Explosive subsystems and devices

ECSS-E-ST-35-01C
Liquid and electric propulsion for spacecraft

ECSS-E-ST-31-04C
Exchange of thermal analysis data

ECSS-E-ST-32-02C Rev.2
Structural design and verification of pressurized hardware

ECSS-E-ST-35-02C
Solid propulsion for spacecraft and launchers

ECSS-E-ST-32-03C
Structural finite element models

ECSS-E-ST-35-03C
Liquid propulsion for launchers

ECSS-E-ST-32-08C Rev.1
Materials

ECSS-E-ST-35-06C Rev.2
Cleanliness requirements for spacecraft propulsion hardware

ECSS-E-ST-32-10C Rev.2
Structural factors of safety for spaceflight hardware

ECSS-E-ST-35-10C
Compatibility testing for liquid propulsion systems

ECSS-E-ST-32-11C
Modal survey assessment

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E-50 discipline Communications

ECSS-E-ST-50C Rev.2
Communications

ECSS-E-ST-50-11C
SpaceFibre – Very high-speed serial link

ECSS-E-ST-50-51C
SpaceWire protocol identification

ECSS-E-ST-50-02C
Ranging and Doppler tracking

ECSS-E-ST-50-12C Rev.1
SpaceWire - Links, nodes, routers and networks

ECSS-E-ST-50-52C
SpaceWire - Remote memory access protocol

ECSS-E-ST-50-05C Rev.2
Radio frequency and modulation

ECSS-E-ST-50-13C
Interface and communication protocol for Mil std 1553B

ECSS-E-ST-50-53C
SpaceWire - CCSDS packet transfer protocol

ECSS-E-AS-50-21C Rev.2
Adoption Notice of CCSDS 131.0-B-5, TM Synchronization and Channel Coding

ECSS-E-ST-50-14C
Spacecraft discrete interfaces

ECSS-E-AS-50-22C Rev.1
Adoption Notice of CCSDS 132.0-B-3, TM Space Data Link Protocol

ECSS-E-ST-50-15C
CAN bus extension protocol

ECSS-E-AS-50-23C Rev.1
Adoption Notice of CCSDS 732.0-B-4, AOS Space Data Link Protocol

ECSS-E-ST-50-16
Time-triggered ethernet (TTE)

ECSS-E-AS-50-24C Rev.1
Adoption Notice of CCSDS 231.0-B-4, TC Synchronization and Channel Coding

ECSS-E-AS-50-25C Rev.1
Adoption Notice of CCSDS 232.0-B-4, TC Space Data Link Protocol

ECSS-E-AS-50-26C
Adoption Notice of CCSDS 232.1-B-2, Communications Operation Procedure-1

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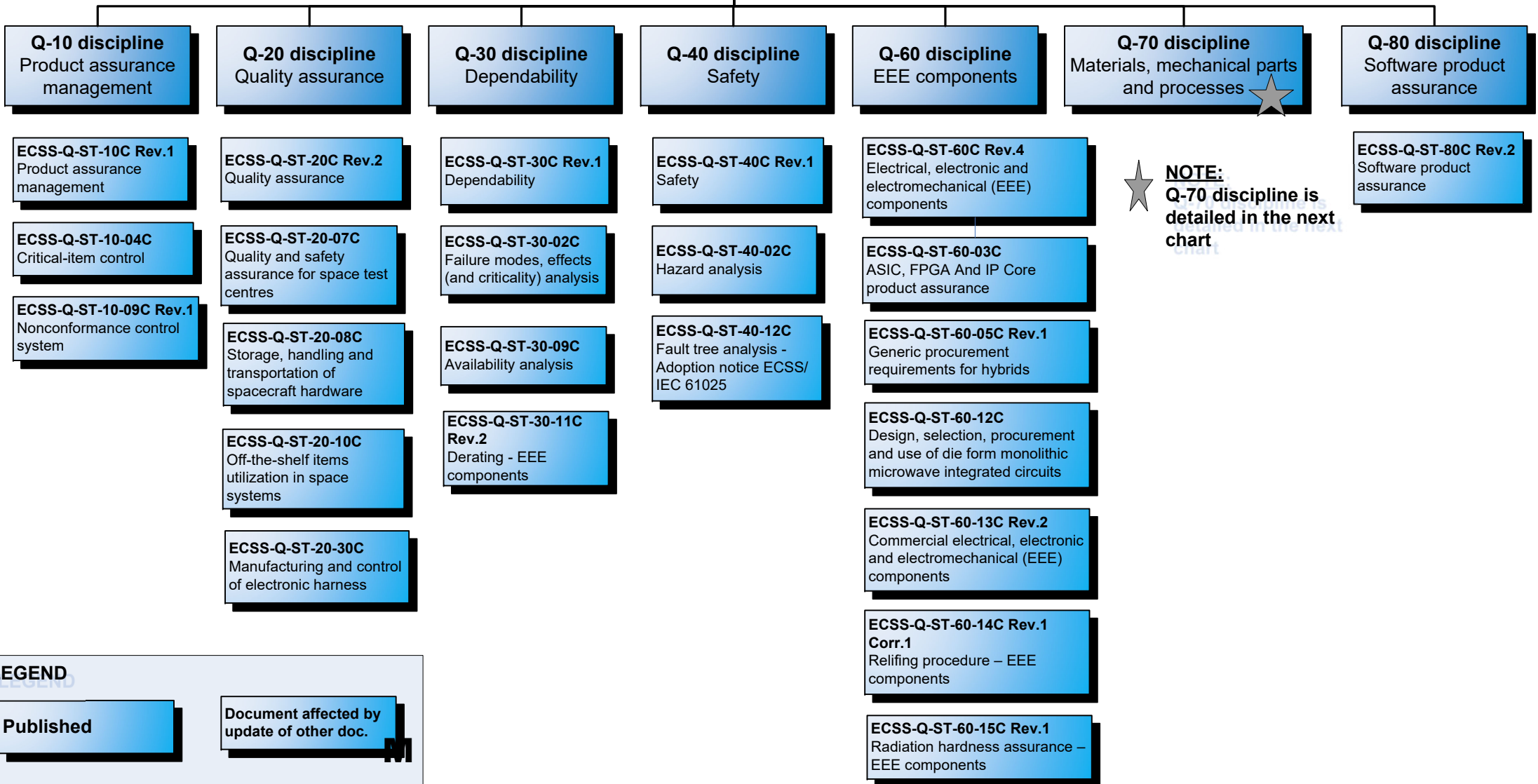
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ECSS Standards

Product assurance branch

Space product assurance branch



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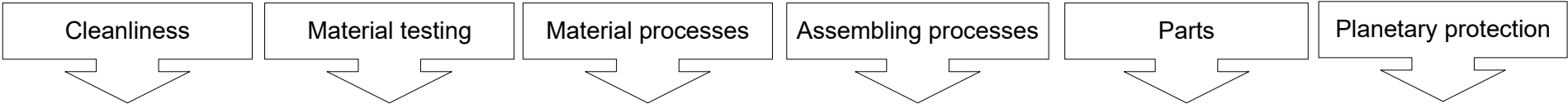
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New document in production

(as of May 2025)

Q-70 discipline
Materials, mechanical parts and processes



ECSS-Q-ST-70C Rev.2
Materials, mechanical parts and processes

ECSS-Q-ST-70-01C Rev.1
Cleanliness and contamination control

ECSS-Q-ST-70-02C
Thermal vacuum outgassing test for the screening of space materials

ECSS-Q-ST-70-03C
Black-anodizing of metals with inorganic dyes

ECSS-Q-ST-70-14C
Corrosion

ECSS-Q-ST-70-12C Rev.1
Design rules for printed circuit boards

ECSS-Q-ST-70-53C
Materials and hardware compatibility tests for sterilization processes

ECSS-Q-ST-70-71C Rev.1
Materials, processes and their data selection

ECSS-Q-ST-70-05C Rev.1
Detection of organic contamination surfaces by IR spectroscopy

ECSS-Q-ST-70-04C
Thermal testing for the evaluation of space materials, processes, mechanical parts and assemblies

ECSS-Q-ST-70-09C
Measurements of thermo-optical properties of thermal control materials

ECSS-Q-ST-70-26C Rev.1 +Corr.1
Crimping of high-reliability electrical connections

ECSS-Q-ST-70-18C
Preparation, assembly and mounting of RF coaxial cables

ECSS-Q-ST-70-54C
Ultra cleaning of flight hardware

ECSS-Q-ST-70-50C
Particle contamination monitoring for spacecraft systems and cleanrooms

ECSS-Q-ST-70-06C
Particle and UV radiation testing for space materials

ECSS-Q-ST-70-13C Rev.1
Measurements of the peel and pull-off strength of coatings and finishes using pressure-sensitive tapes

ECSS-Q-ST-70-28C
Repair and modification of printed circuit board assemblies for space use

ECSS-Q-ST-70-46C Rev.1
Requirements for manufacturing and procurement of threaded fasteners

ECSS-Q-ST-70-55C
Microbiological examination of flight hardware and cleanrooms

ECSS-Q-ST-70-15C
Non-destructive inspection

ECSS-Q-ST-70-16C
Adhesive bonding for spacecraft and launcher applications

ECSS-Q-ST-70-30C
Wire wrapping of high-reliability electrical connections

ECSS-Q-ST-70-60C Rev.1
Qualification and procurement of printed circuit boards

ECSS-Q-ST-70-56C
Vapour phase bioburden reduction for flight hardware

ECSS-Q-ST-70-20C
Determination of the susceptibility of silver-plated copper wire and cable to "red-plague" corrosion

ECSS-Q-ST-70-17C
Durability testing of coatings

ECSS-Q-ST-70-39C
Welding of metallic materials for flight hardware

ECSS-Q-ST-70-57C
Dry heat bioburden reduction for flight hardware

ECSS-Q-ST-70-21C
Flammability testing for the screening of space materials

ECSS-Q-ST-70-22C
Control of limited shelf-life materials

ECSS-Q-ST-70-40C
Processing and quality assurance requirements for brazing of flight hardware

ECSS-Q-ST-70-58C
Bioburden control in cleanrooms

ECSS-Q-ST-70-29C
Determination of offgassing products from materials and assembled articles to be used in a manned space vehicle crew compartment

ECSS-Q-ST-70-31C Rev.1
Application of paints and coatings on space hardware

ECSS-Q-ST-70-61C
High reliability assembly for surface mount and through hole connections

ECSS-Q-ST-70-36C
Material selection for controlling stress-corrosion cracking

ECSS-Q-ST-70-45C
Mechanical testing of metallic materials

ECSS-Q-ST-70-80C
Processing and quality assurance requirements for metallic powder bed fusion technologies for space applications

ECSS-Q-ST-70-37C
Determination of the susceptibility of metals to stress-corrosion cracking

ECSS-Q-ST-70-37C Rev.1

ECSS-Q-ST-70-45C
Mechanical testing of metallic materials

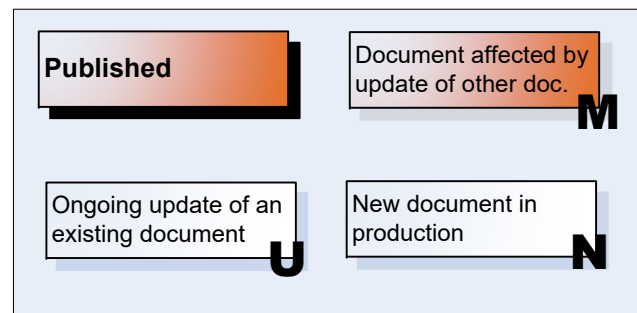
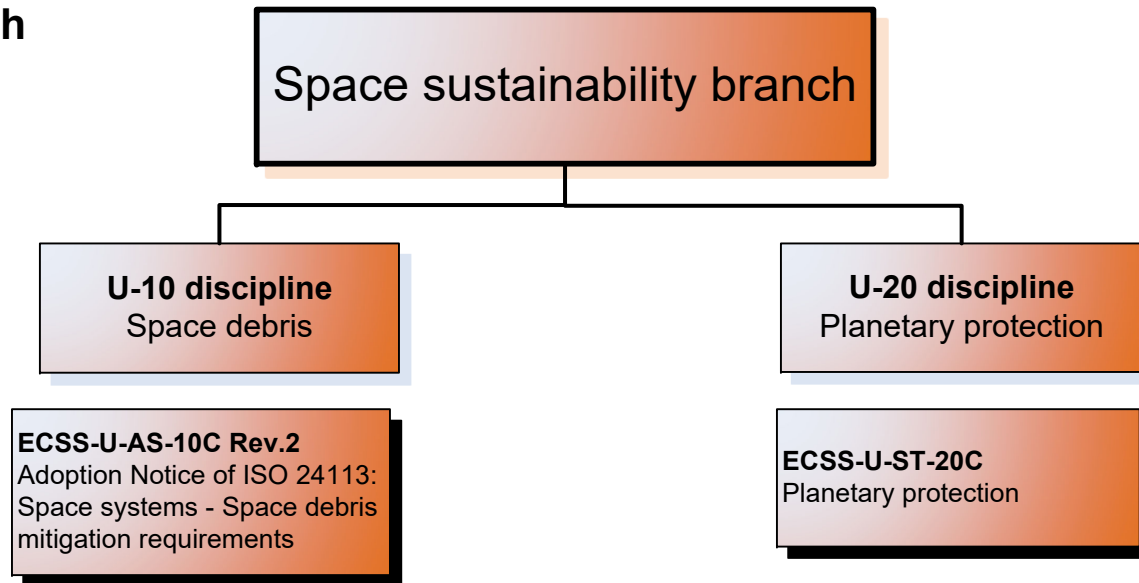
NOTES:
ECSS-Q-ST-70-60C = merge of Q-ST-70-10C Rev.1 and Q-ST-70-11C
ECSS-Q-ST-70-61 = merge of Q-ST-70-07C, Q-ST-70-08C and Q-ST-70-38C Rev.1

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ECSS Standards

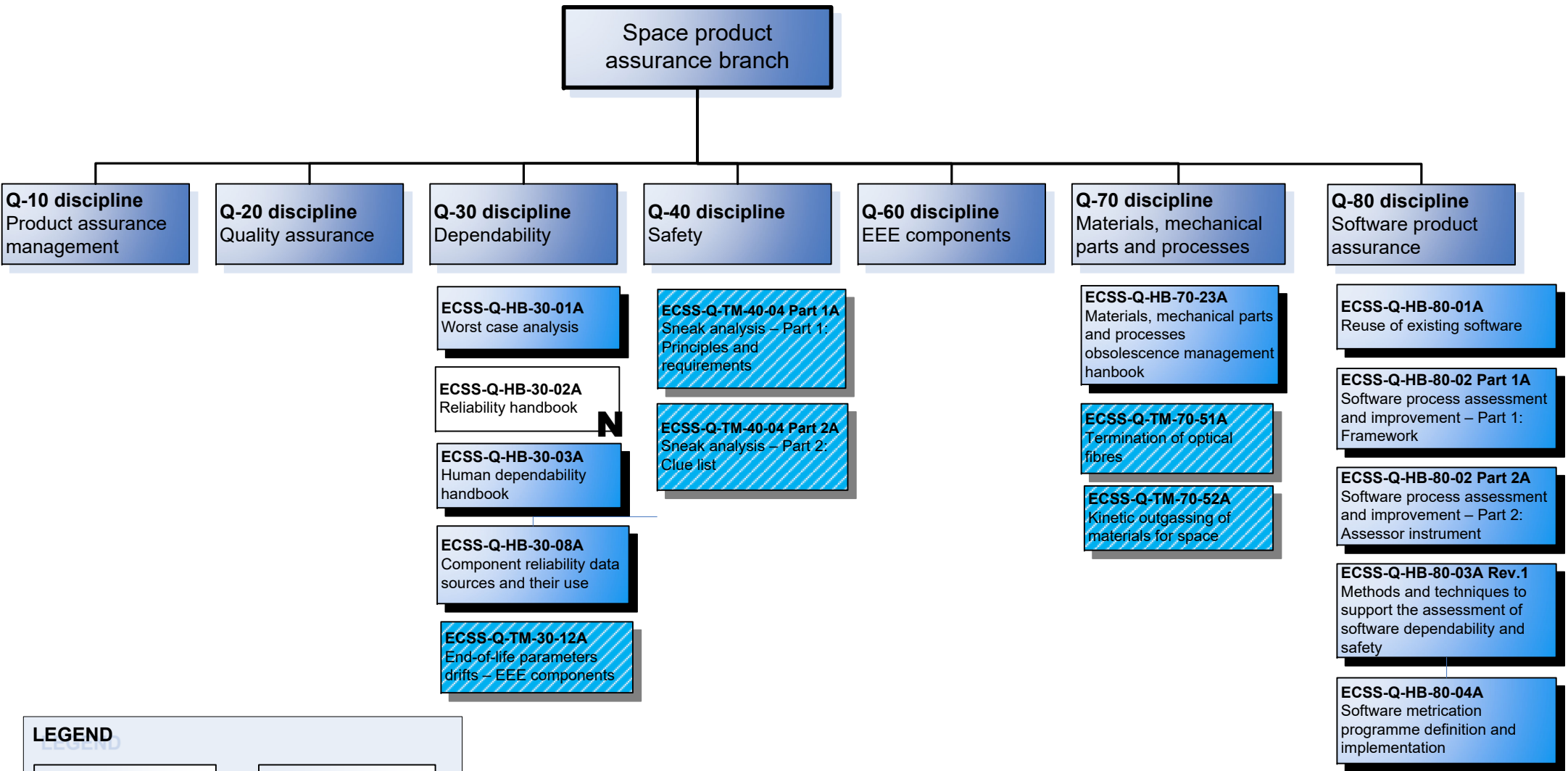
Sustainability branch



(as of November 2025)

ECSS Handbooks and Technical memoranda

PA branch HBs and TMs

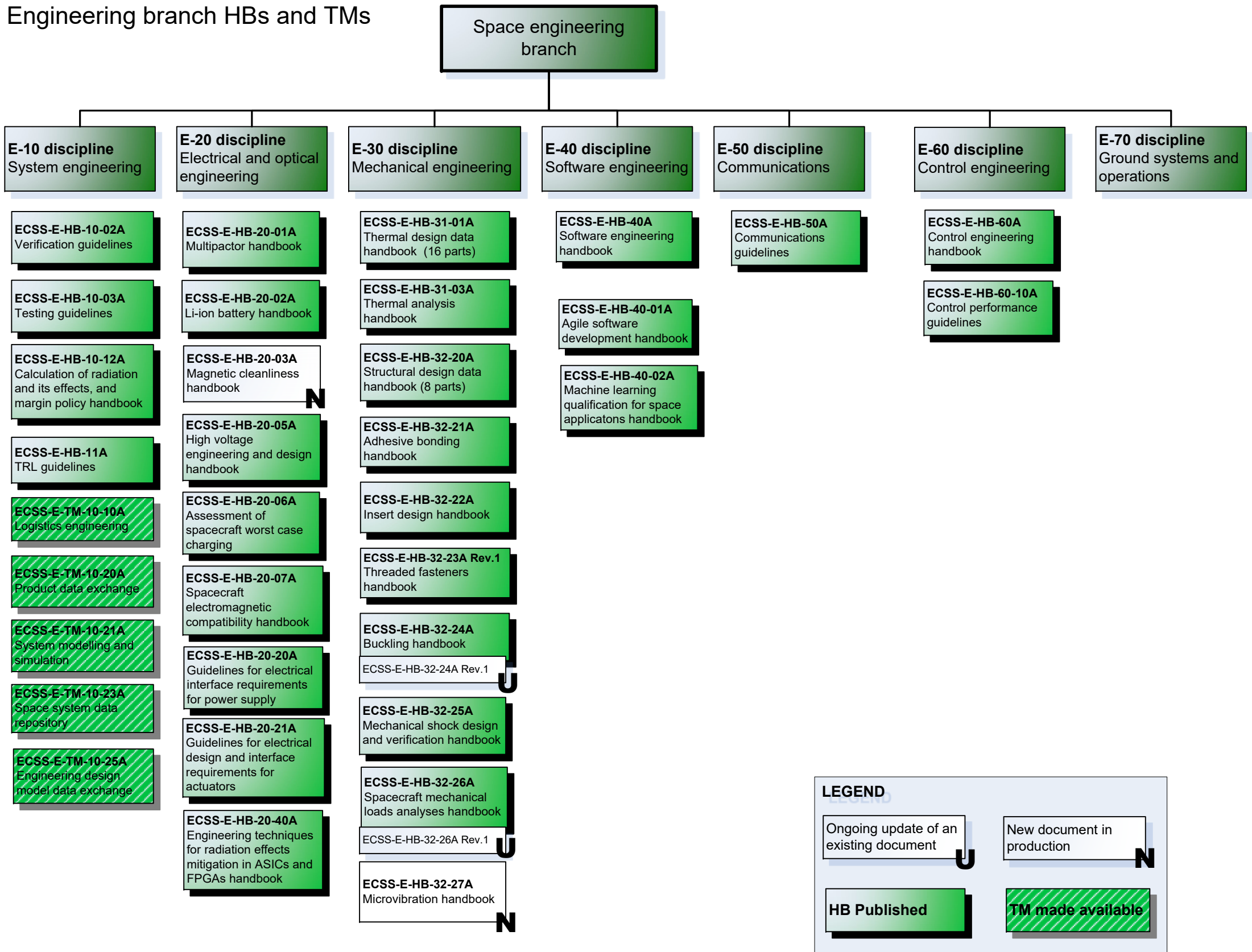


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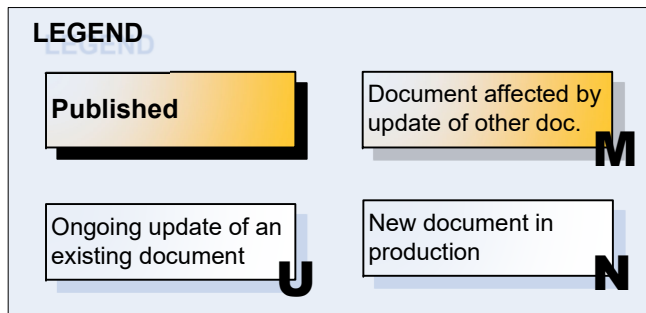
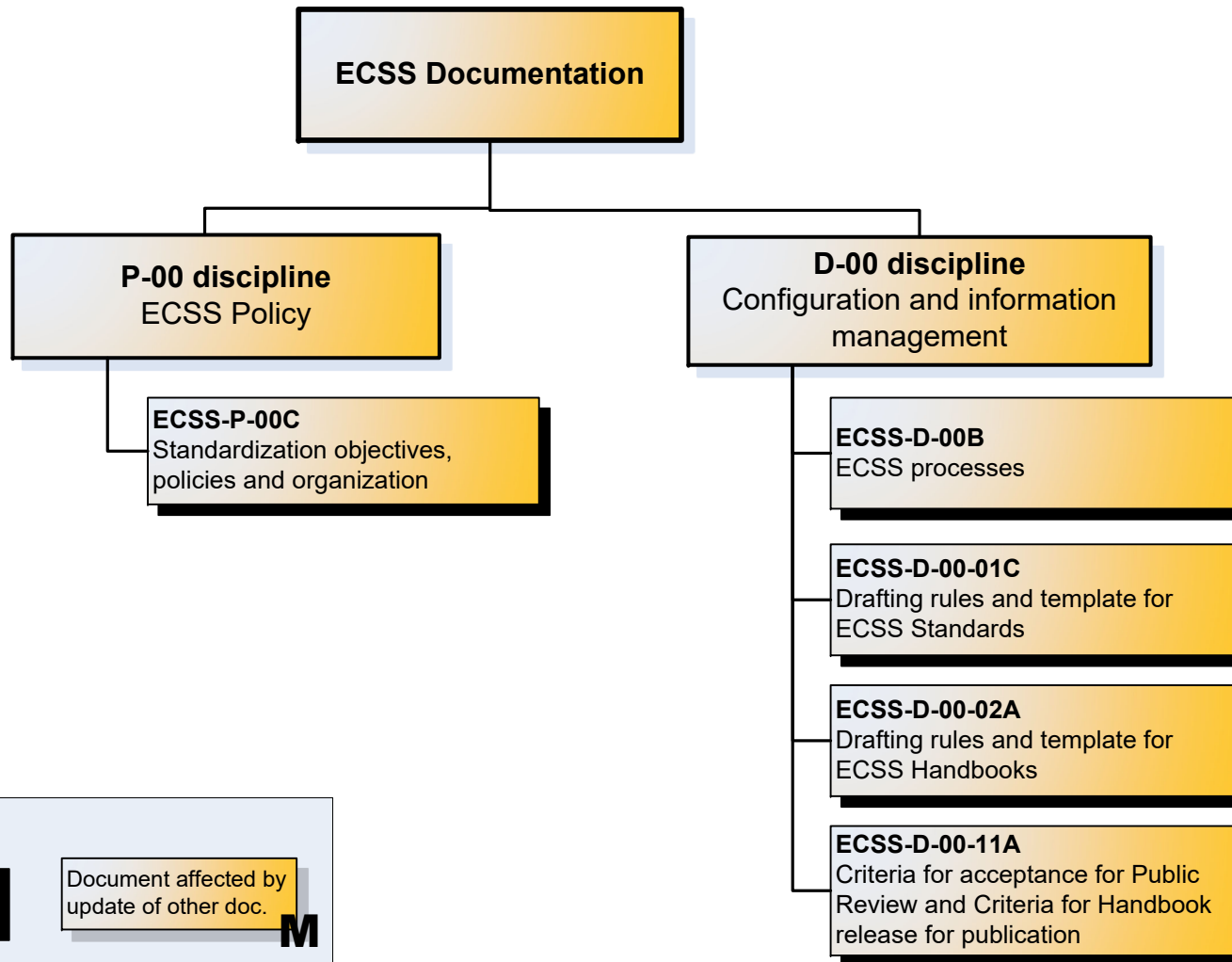
Ongoing update of an existing document U	New document in production N
HB Published	TM made available

ECSS Handbooks and Technical memoranda

Engineering branch HBs and TMs



ECSS Policy (P) and Configuration and information management (D) documents



(as of June 2024)