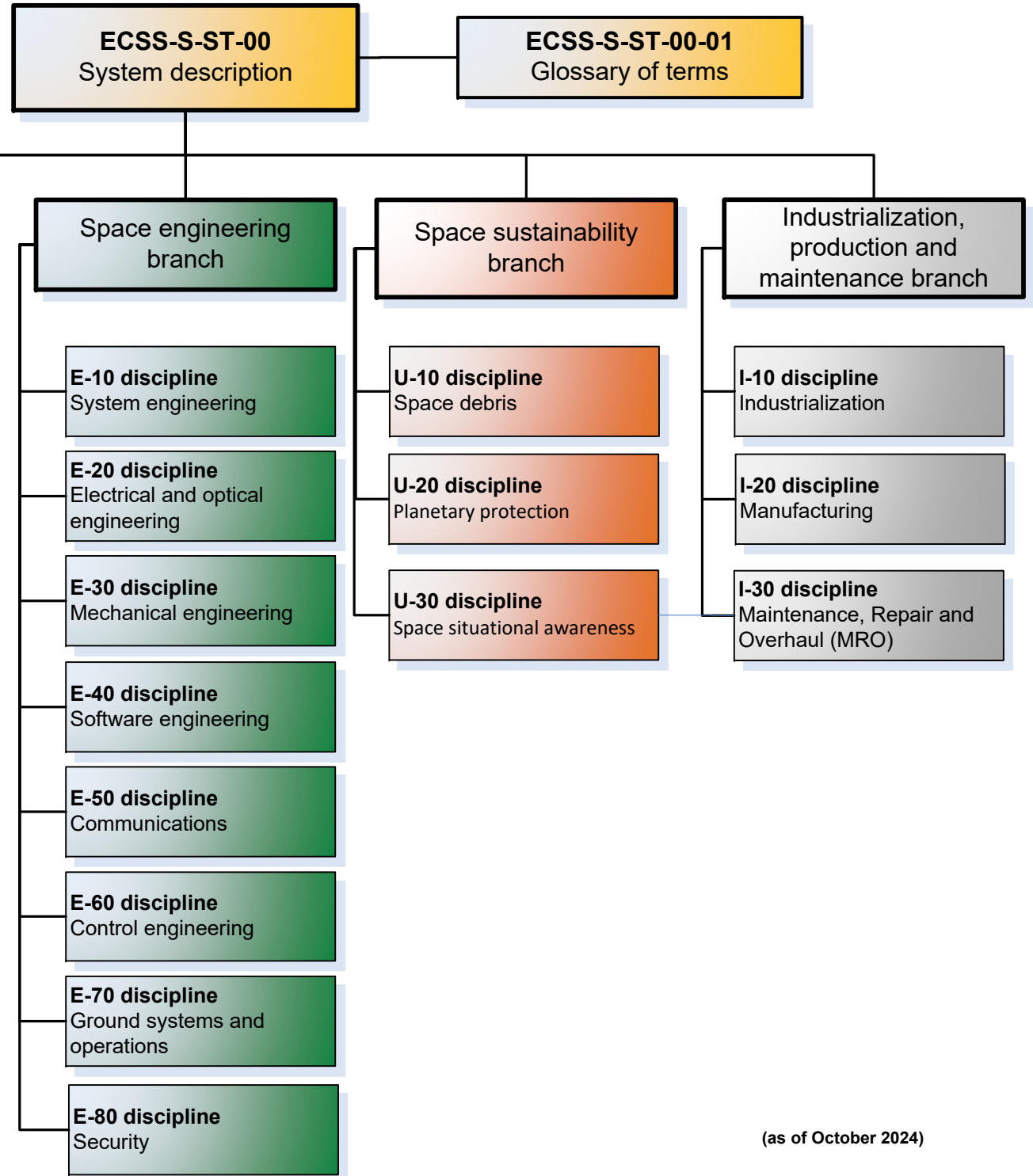
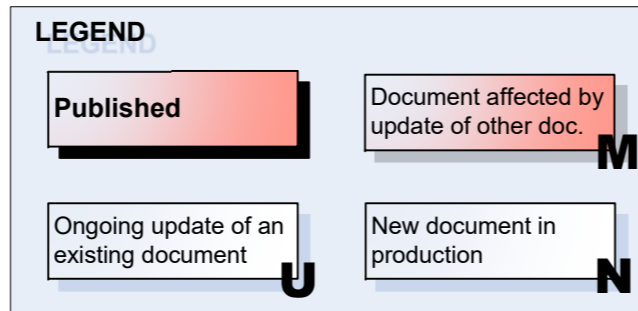
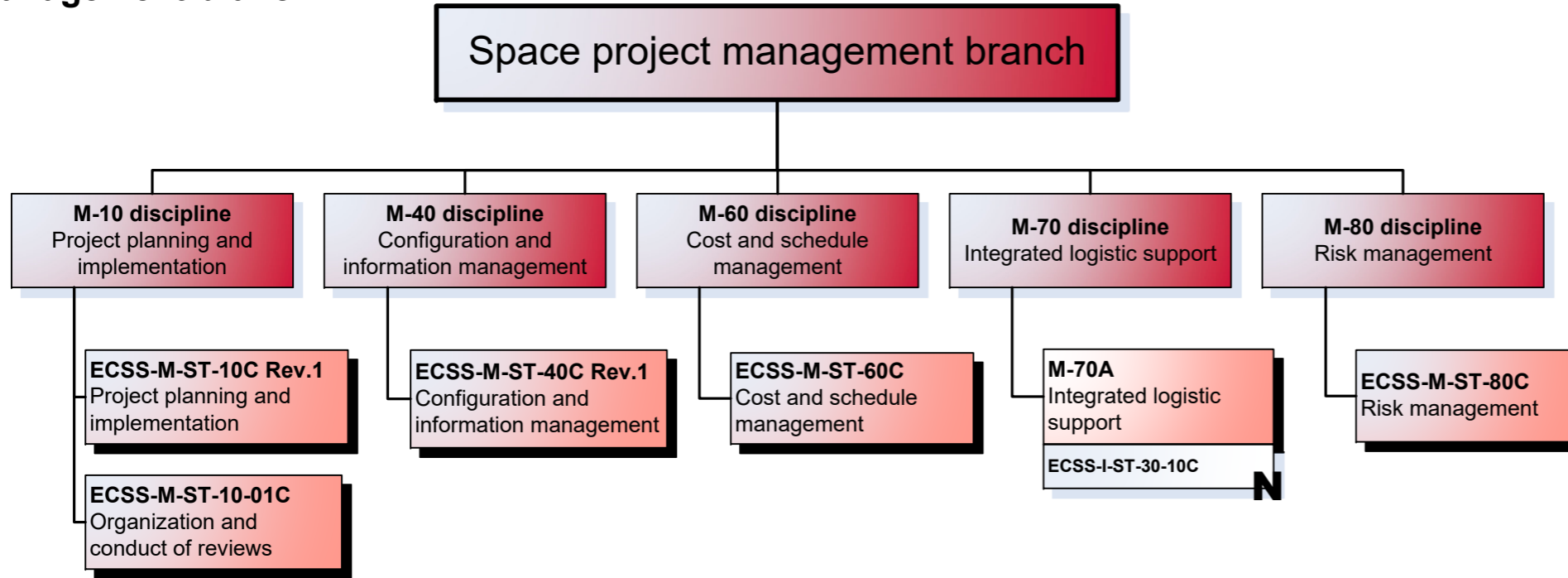


ECSS Disciplines



ECSS Standards

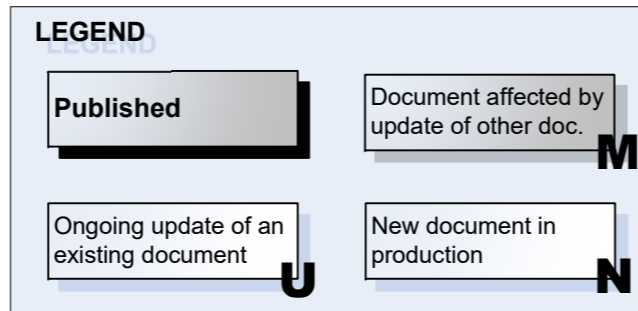
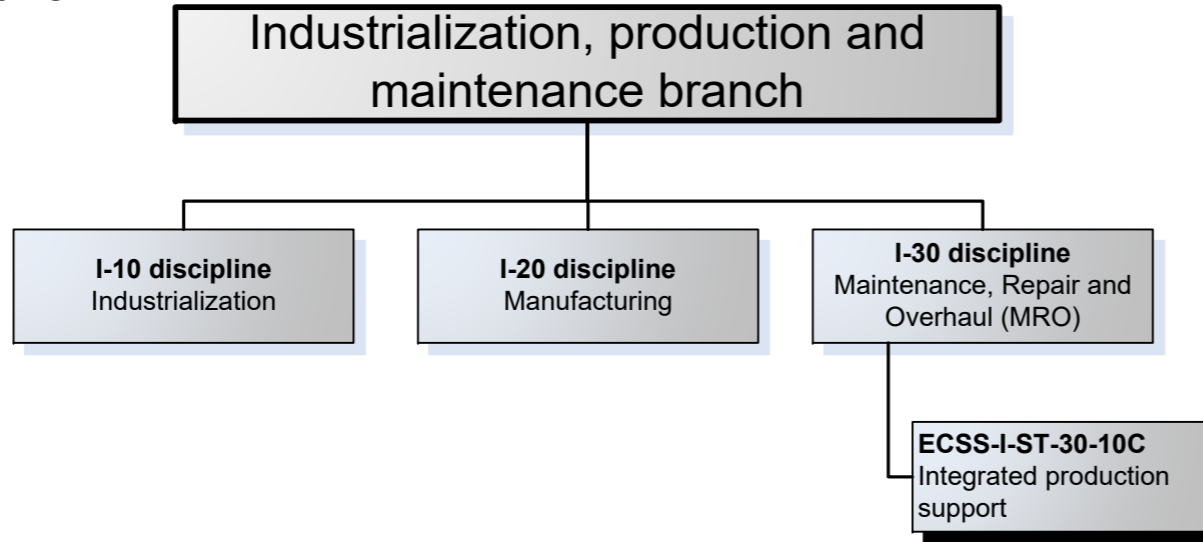
Management branch



(as of October 2024)

ECSS Standards

Industrialization branch

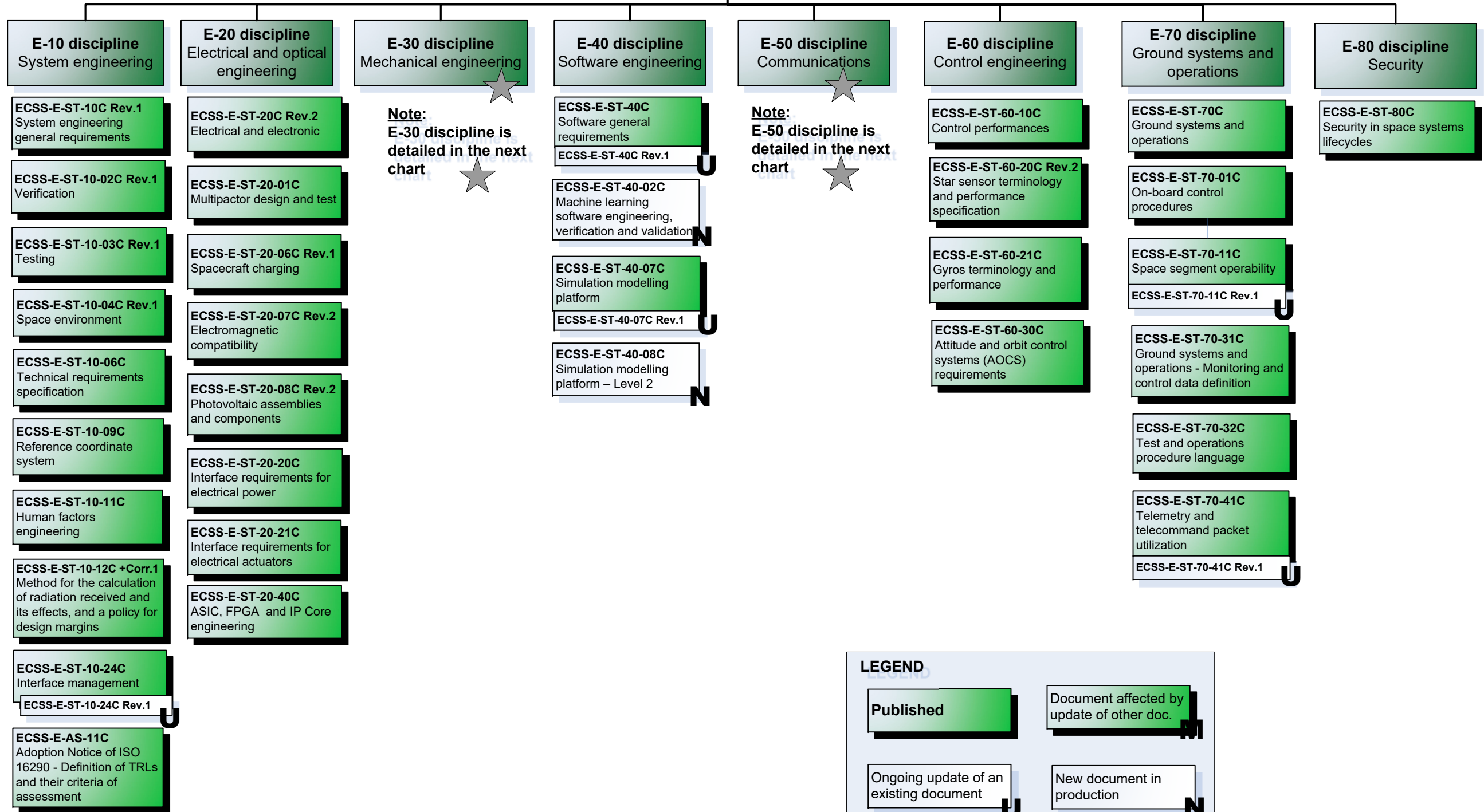


(as of October 2024)

ECSS Standards

Engineering branch

Space engineering branch



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Ongoing update of an existing document	New document in production

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.1
Structural design and verification of pressurized hardware

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

ECSS-E-ST-32-02C Rev.2

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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Ongoing update of an existing document

New document in production

E-50 discipline Communications

ECSS-E-ST-50C Rev.1
Communications

ECSS-E-ST-50C Rev.2

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

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

ECSS-E-AS-50-21C Rev.1
Adoption Notice of CCSDS
131.0-B-4, TM Synchronization
and Channel Coding

ECSS-E-AS-50-21C Rev.2

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

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

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

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

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

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

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

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

ECSS-E-ST-50-15C Rev.1

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

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

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

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

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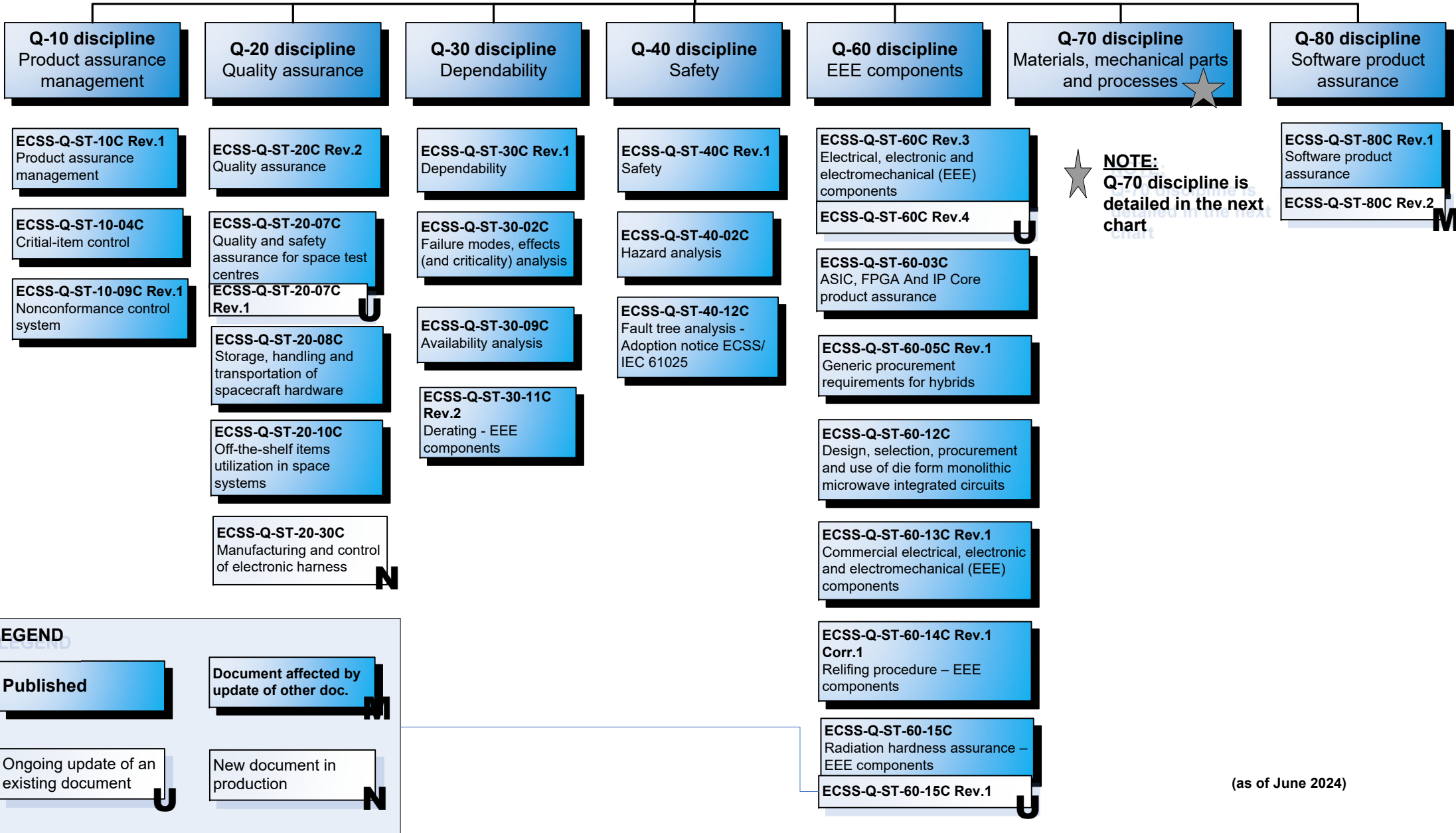
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New document in
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ECSS Standards

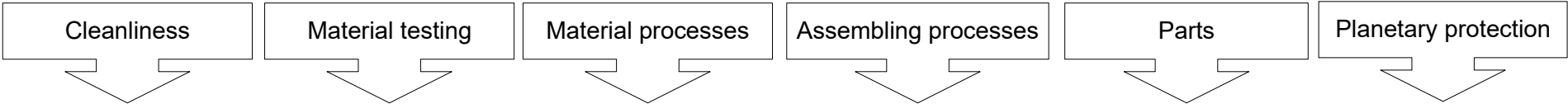
Product assurance branch

Space product assurance branch



(as of June 2024)

Q-70 discipline
Materials, mechanical parts and processes



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

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

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

ECSS-Q-ST-70-05C Rev.1
Detection of organic contamination surfaces by IR spectroscopy
ECSS-Q-ST-70-05C Rev.2

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

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

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

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

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

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

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

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-70-36C
Material selection for controlling stress-corrosion cracking
ECSS-Q-ST-70-36C Rev.1

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

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

ECSS-Q-ST-70-09C
Measurements of thermo-optical properties of thermal control 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-70-17C
Durability testing of coatings

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

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

ECSS-Q-ST-70-14C
Corrosion

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

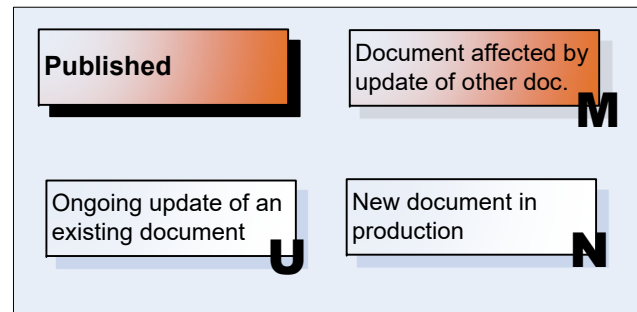
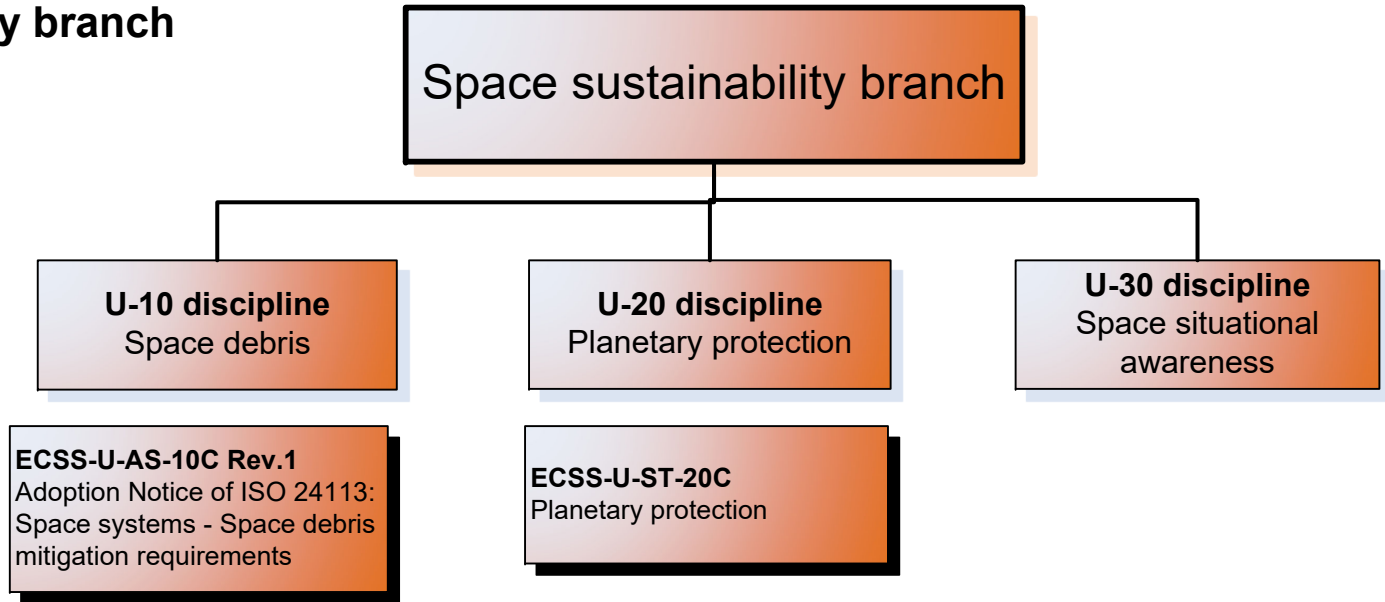
ECSS-Q-ST-70-58C
Bioburden control in cleanrooms

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ECSS Standards

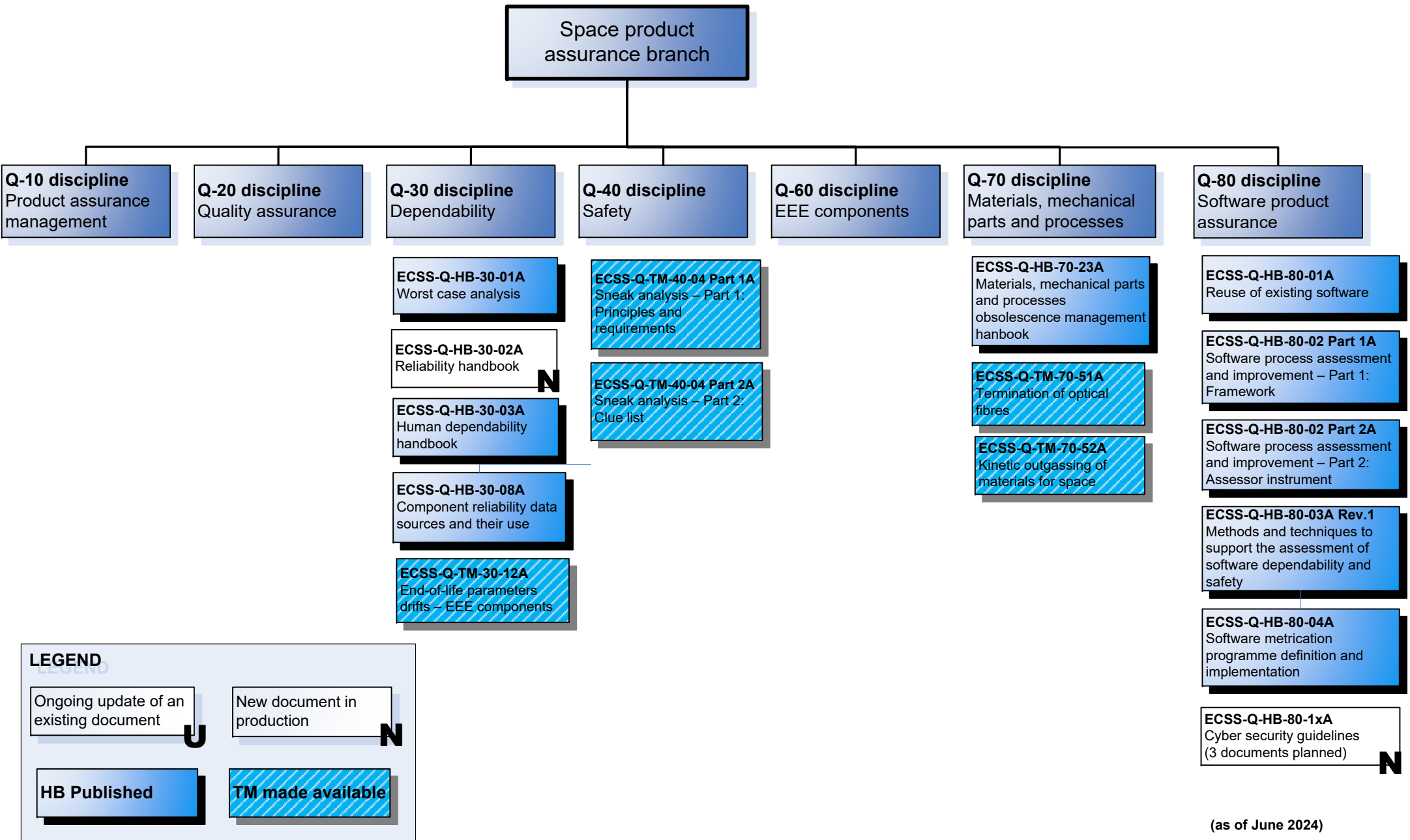
Sustainability branch



(as of June 2024)

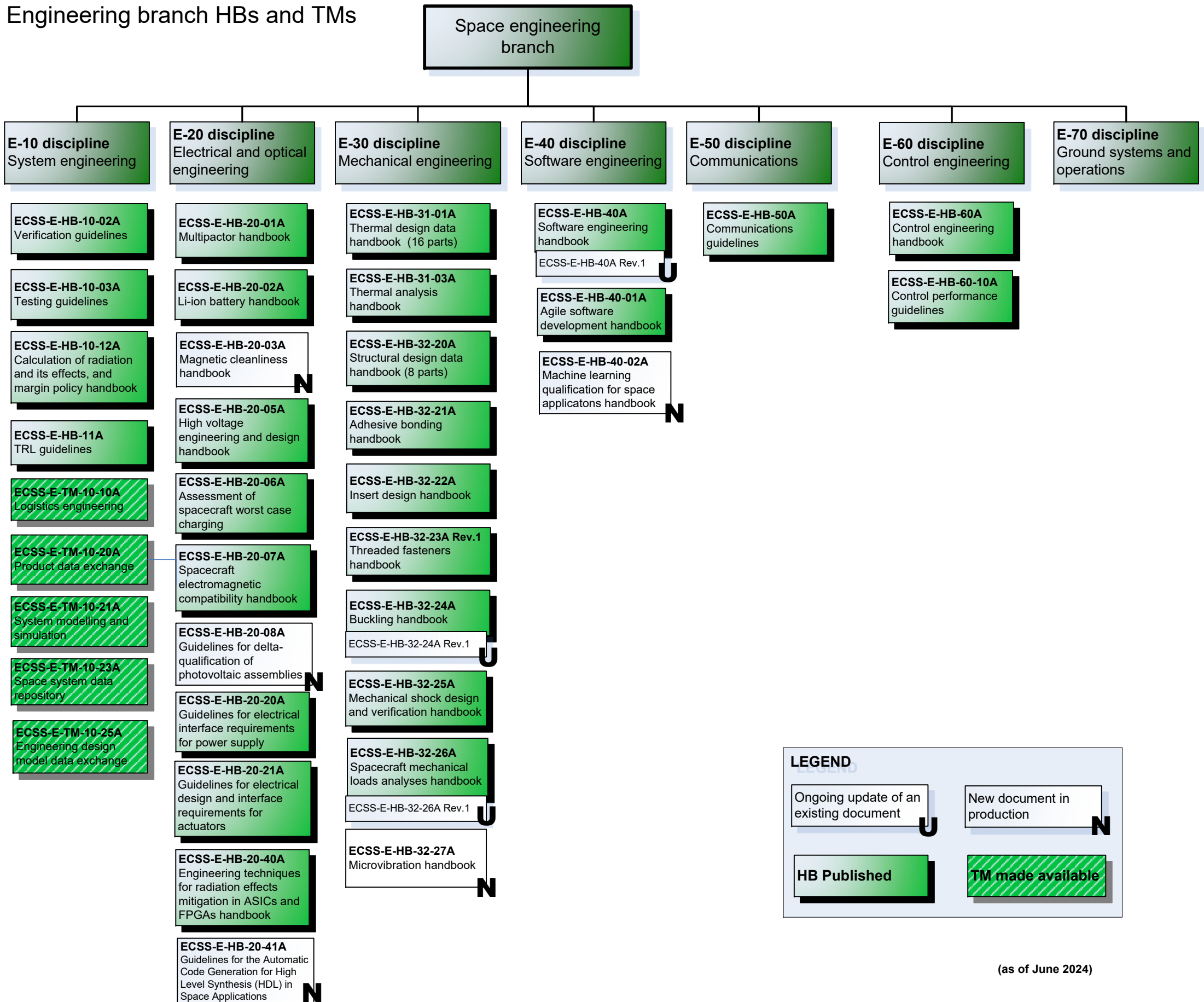
ECSS Handbooks and Technical memoranda

PA branch HBs and TMs

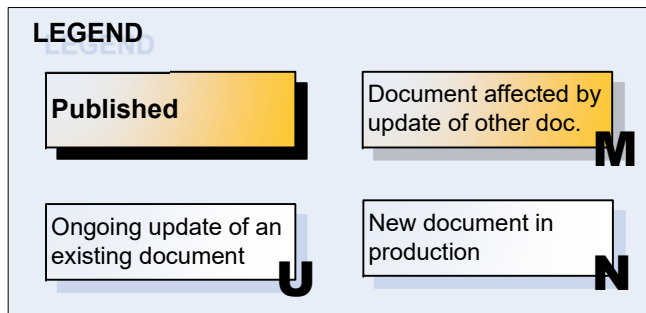
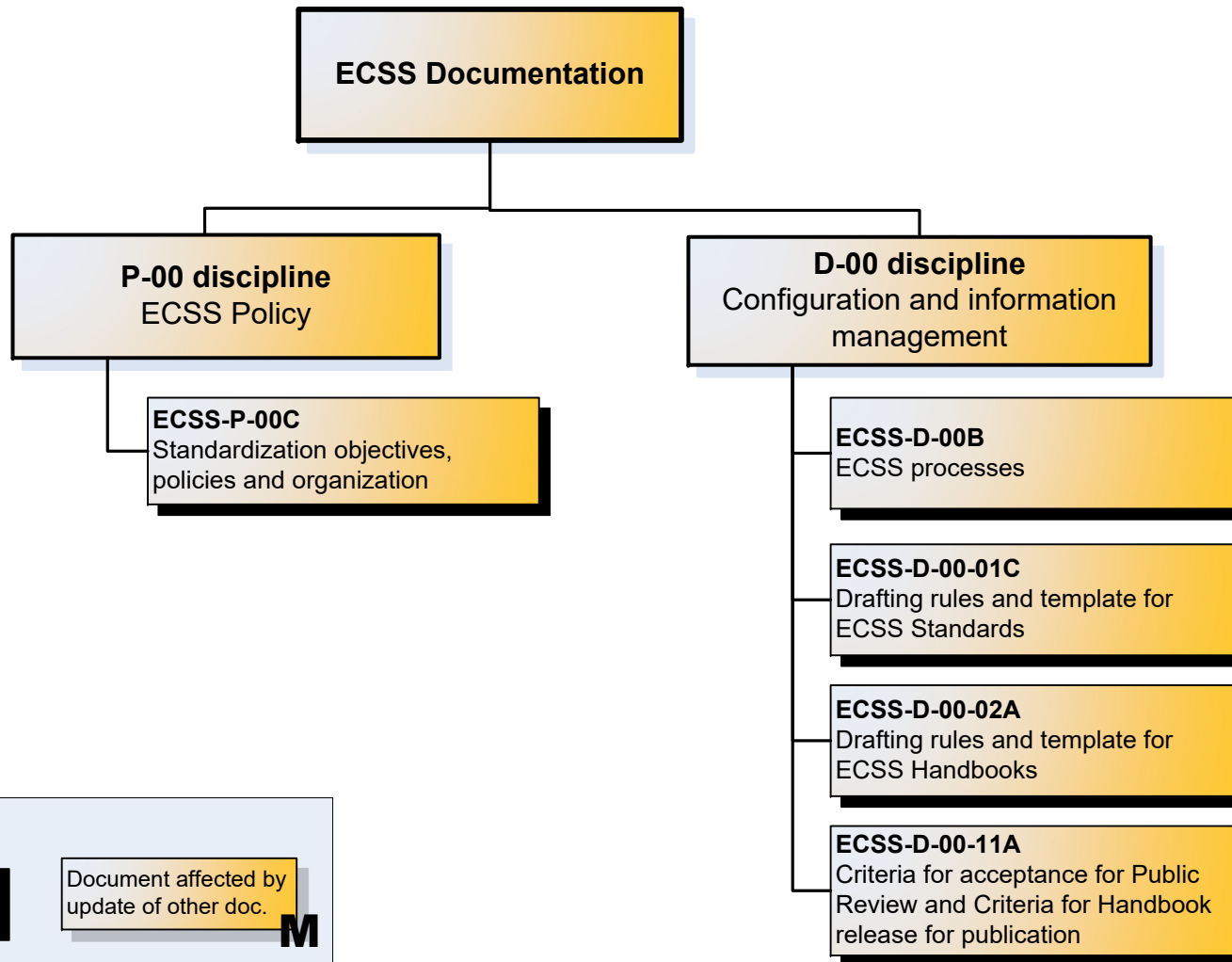


ECSS Handbooks and Technical memoranda

Engineering branch HBs and TMs



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



(as of June 2024)