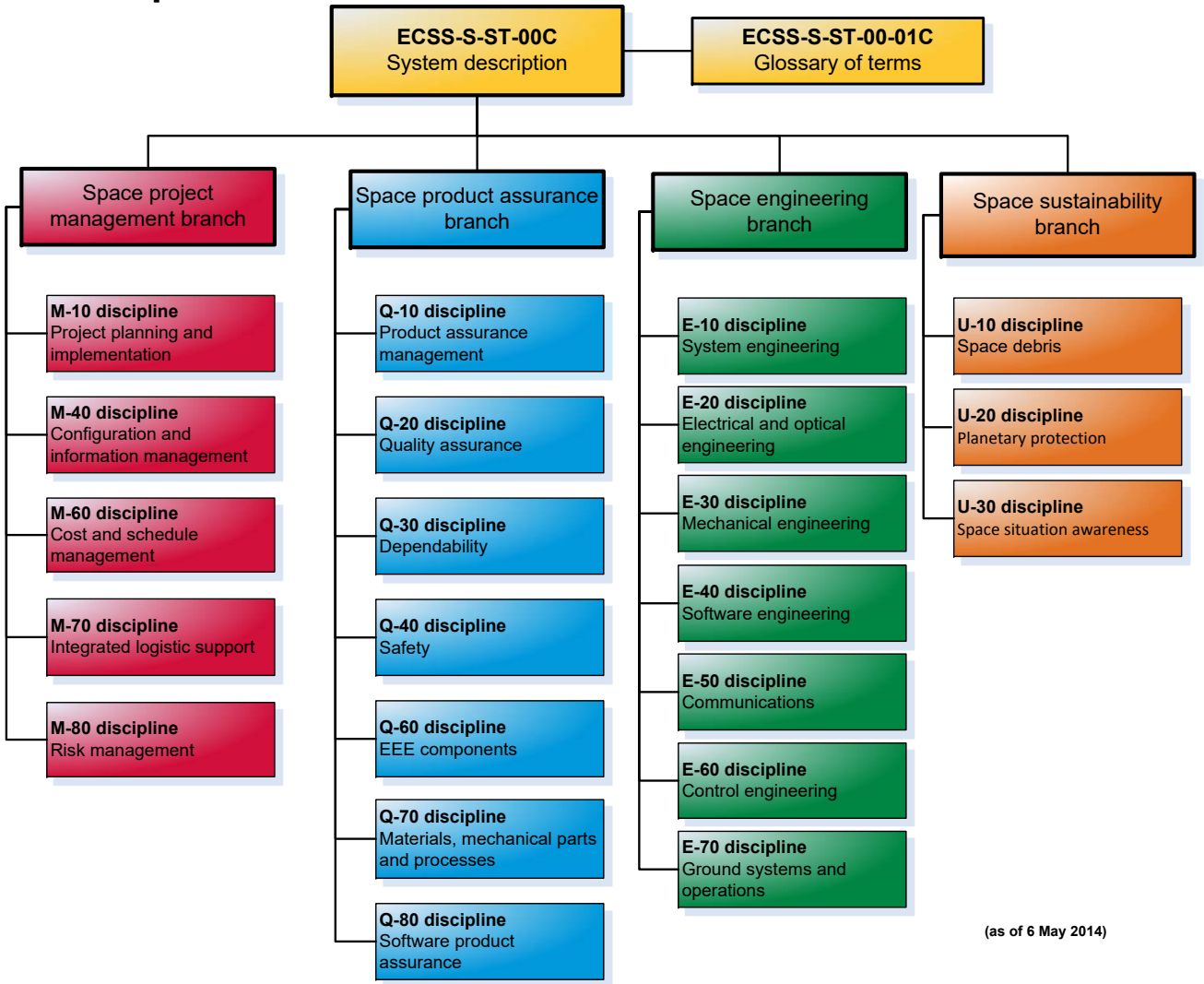
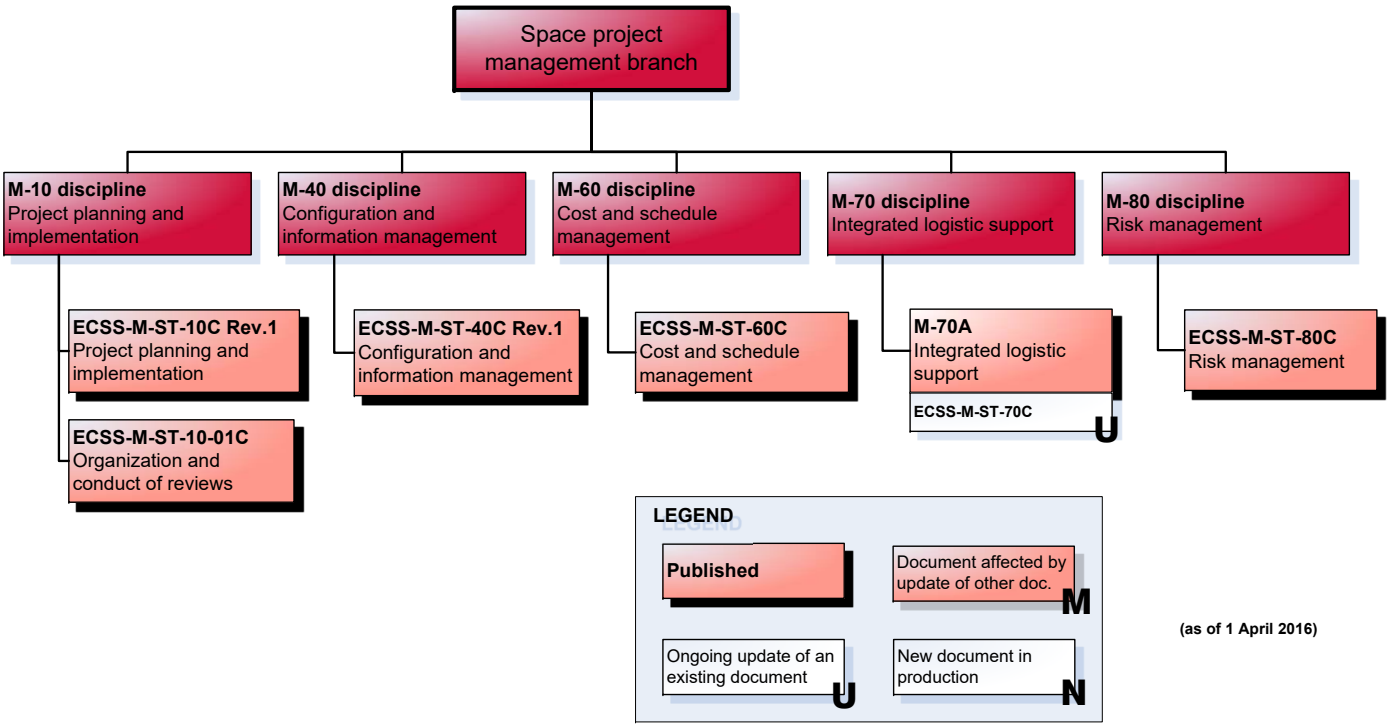
ECSS Disciplines

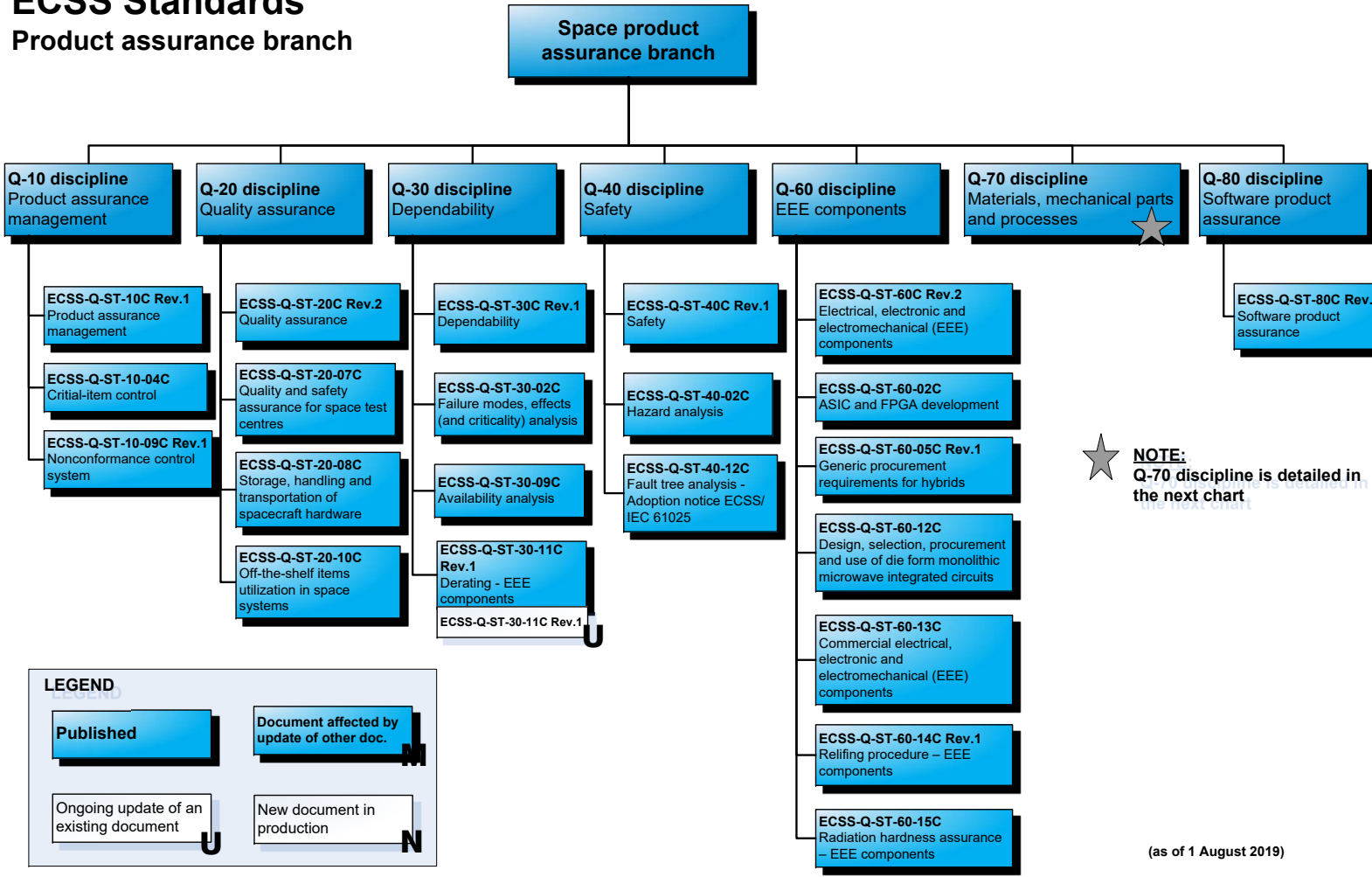


ECSS Standards
Management branch

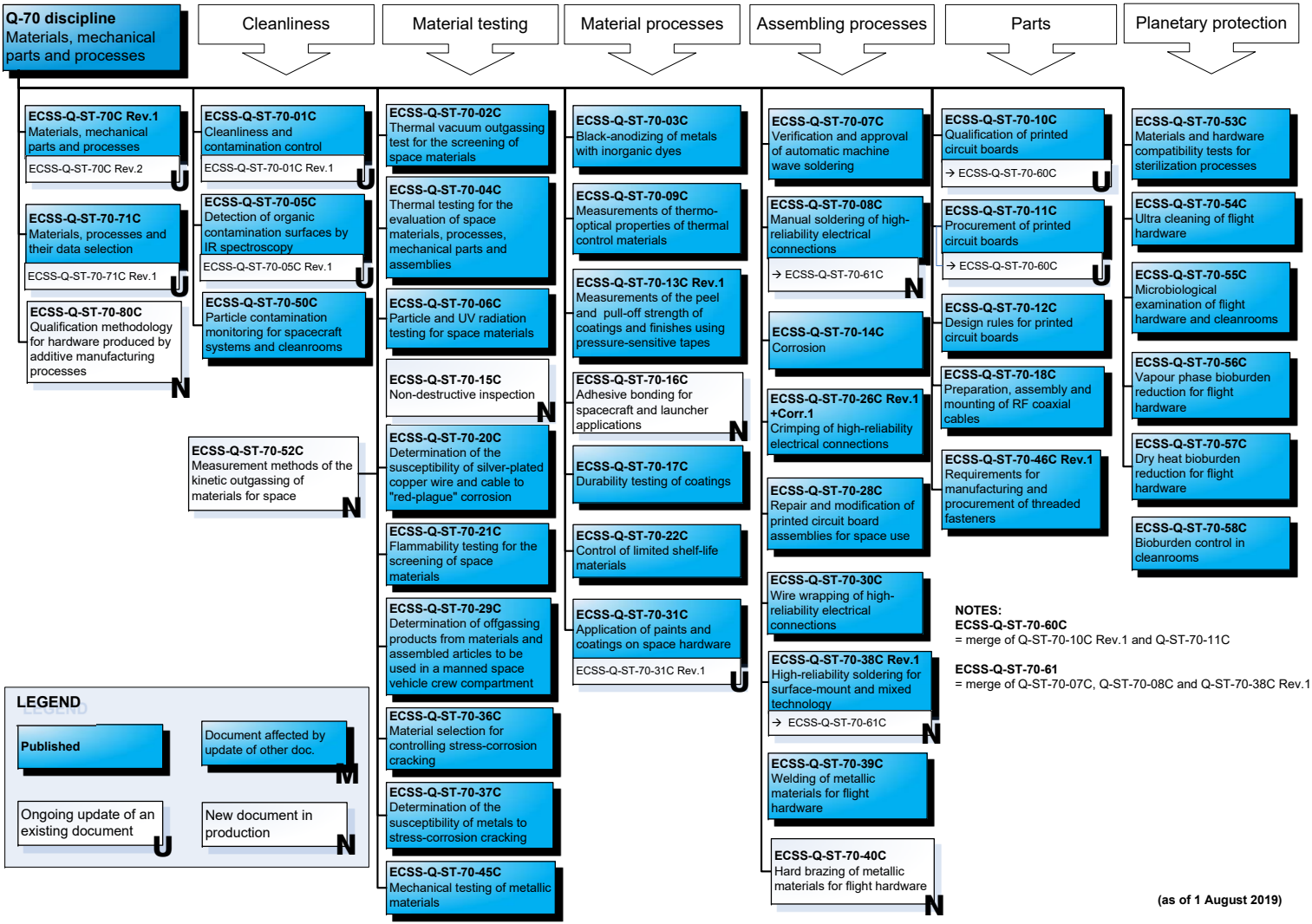


(as of 1 April 2016)

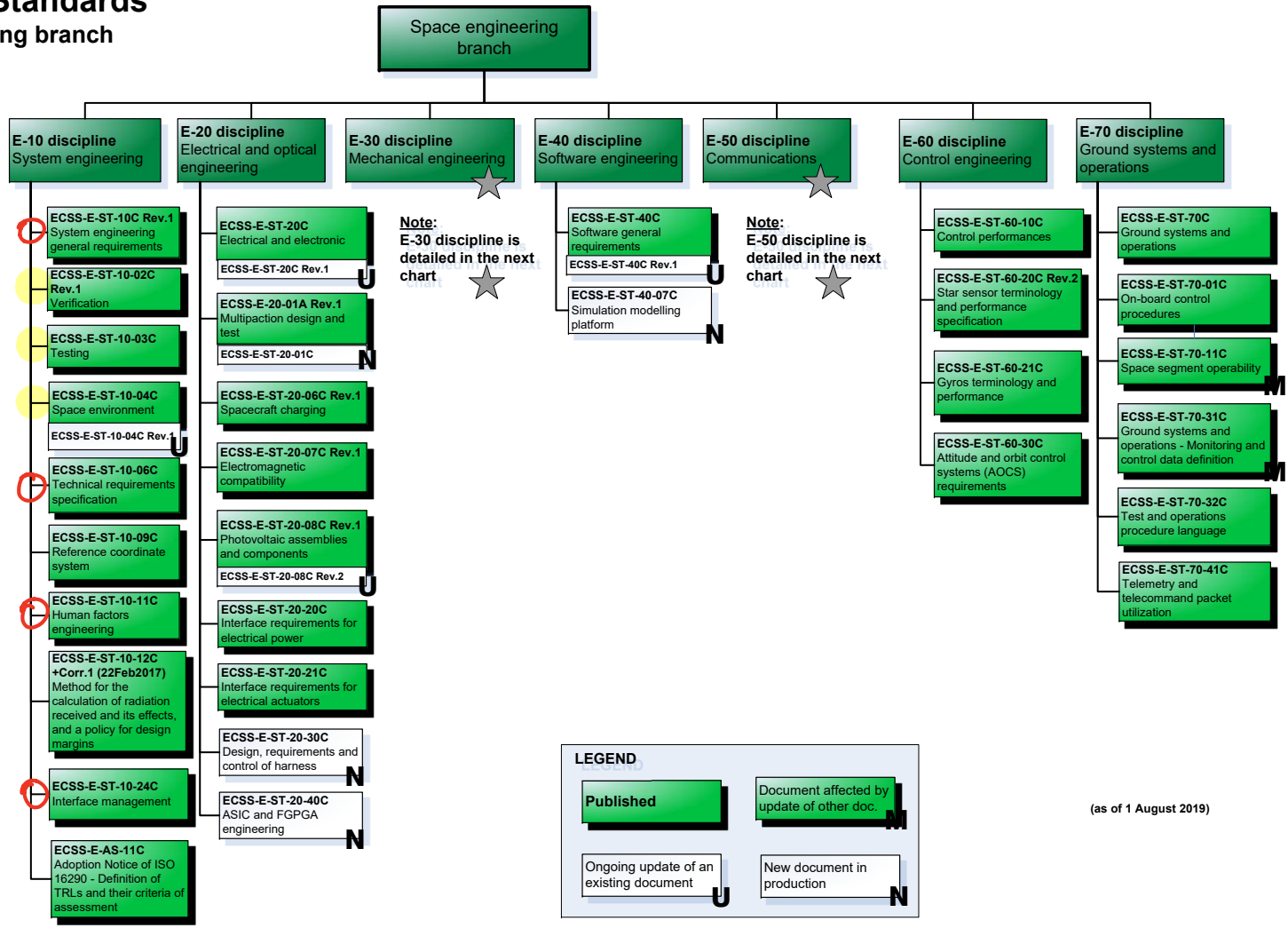
ECSS Standards
Product assurance branch



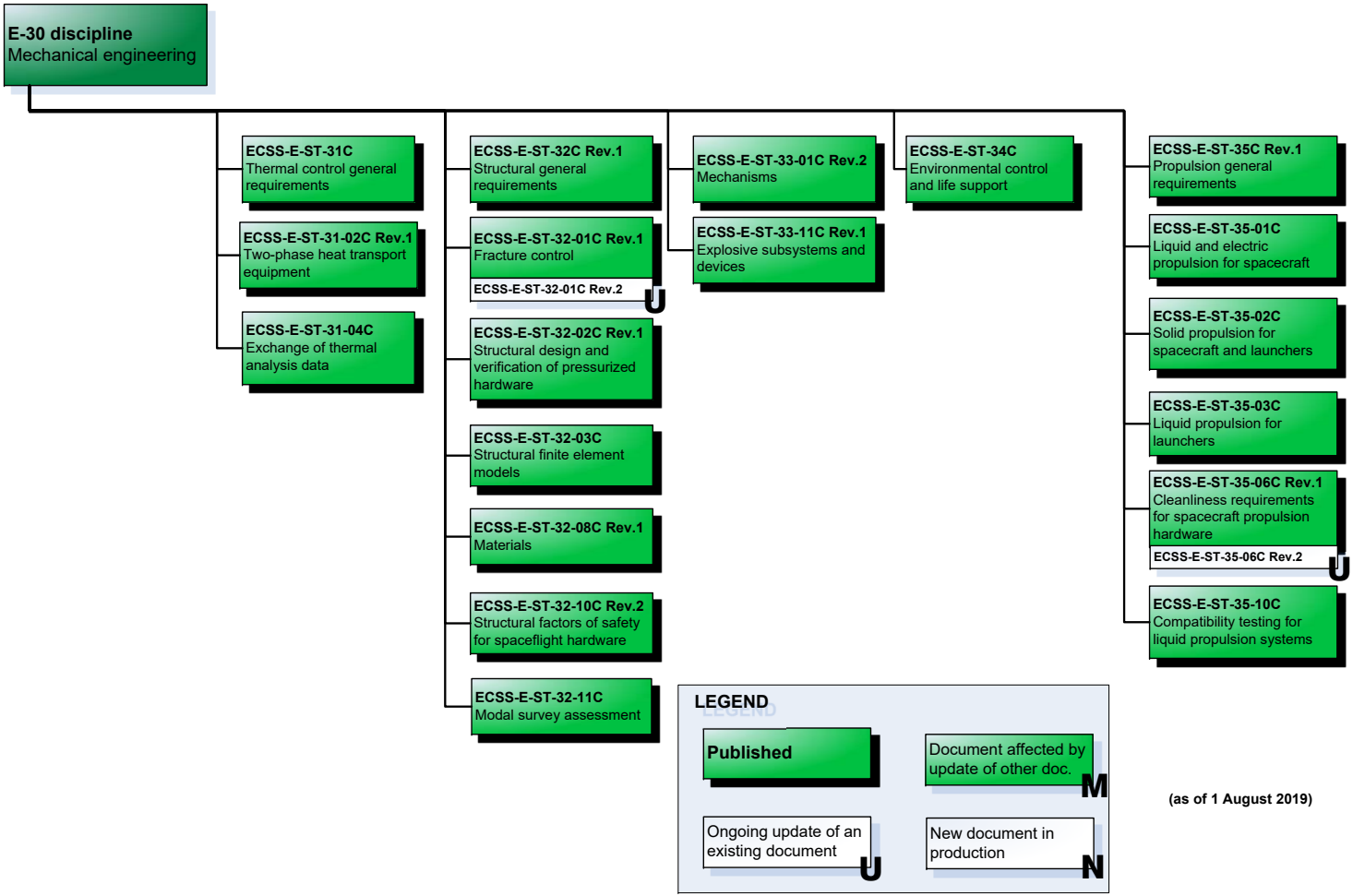
(as of 1 August 2019)


Q-70 discipline
Materials, mechanical parts and processes
Cleanliness
Material testing
Material processes
Assembling processes
Parts
Planetary protection
ECSS-Q-ST-70C Rev.1
Materials, mechanical parts and processes
ECSS-Q-ST-70C Rev.2
U
ECSS-Q-ST-70-71C
Materials, processes and their data selection
ECSS-Q-ST-70-71C Rev.1
U
ECSS-Q-ST-70-80C
Qualification methodology for hardware produced by additive manufacturing processes
N
ECSS-Q-ST-70-01C
Cleanliness and contamination control
ECSS-Q-ST-70-01C Rev.1
U
ECSS-Q-ST-70-05C
Detection of organic contamination surfaces by IR spectroscopy
ECSS-Q-ST-70-05C Rev.1
U
ECSS-Q-ST-70-50C
Particle contamination monitoring for spacecraft systems and cleanrooms
ECSS-Q-ST-70-52C
Measurement methods of the kinetic outgassing of materials for space
N
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
N
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-70-37C
Determination of the susceptibility of metals to stress-corrosion cracking
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-70-16C
Adhesive bonding for spacecraft and launcher applications
N
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
Application of paints and coatings on space hardware
ECSS-Q-ST-70-31C Rev.1
U
ECSS-Q-ST-70-07C
Verification and approval of automatic machine wave soldering
ECSS-Q-ST-70-08C
Manual soldering of high-reliability electrical connections
→ ECSS-Q-ST-70-61C
N
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-70-38C Rev.1
High-reliability soldering for surface-mount and mixed technology
→ ECSS-Q-ST-70-61C
N
ECSS-Q-ST-70-39C
Welding of metallic materials for flight hardware
ECSS-Q-ST-70-40C
Hard brazing of metallic materials for flight hardware
N
ECSS-Q-ST-70-10C
Qualification of printed circuit boards
→ ECSS-Q-ST-70-60C
U
ECSS-Q-ST-70-11C
Procurement of printed circuit boards
→ ECSS-Q-ST-70-60C
U
ECSS-Q-ST-70-12C
Design rules for printed circuit boards
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-70-53C
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
LEGEND
Published
Document affected by update of other doc.
M
Ongoing update of an existing document
U
New document in production
N
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
(as of 1 August 2019)

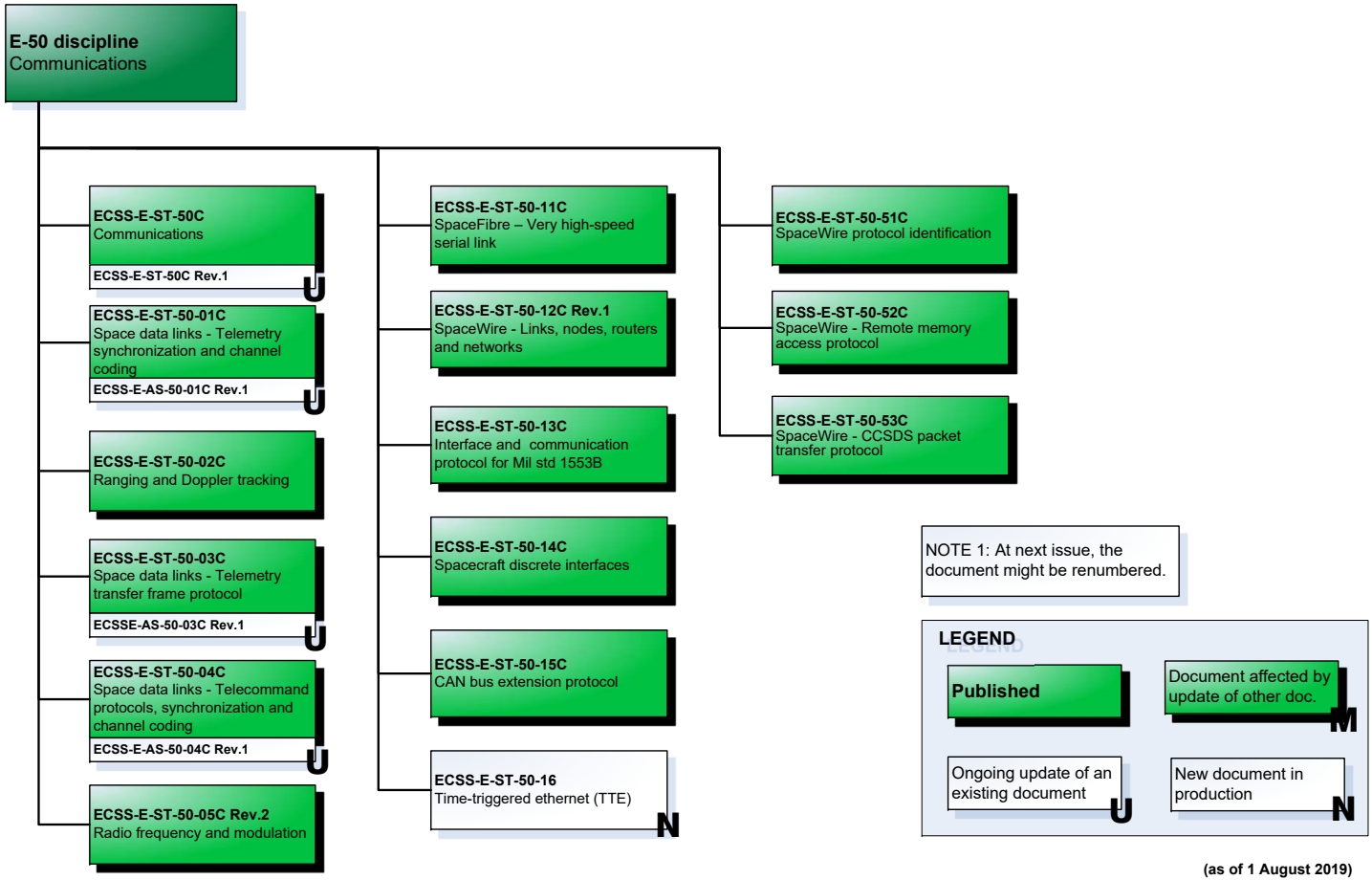
ECSS Standards
Engineering branch



(as of 1 August 2019)

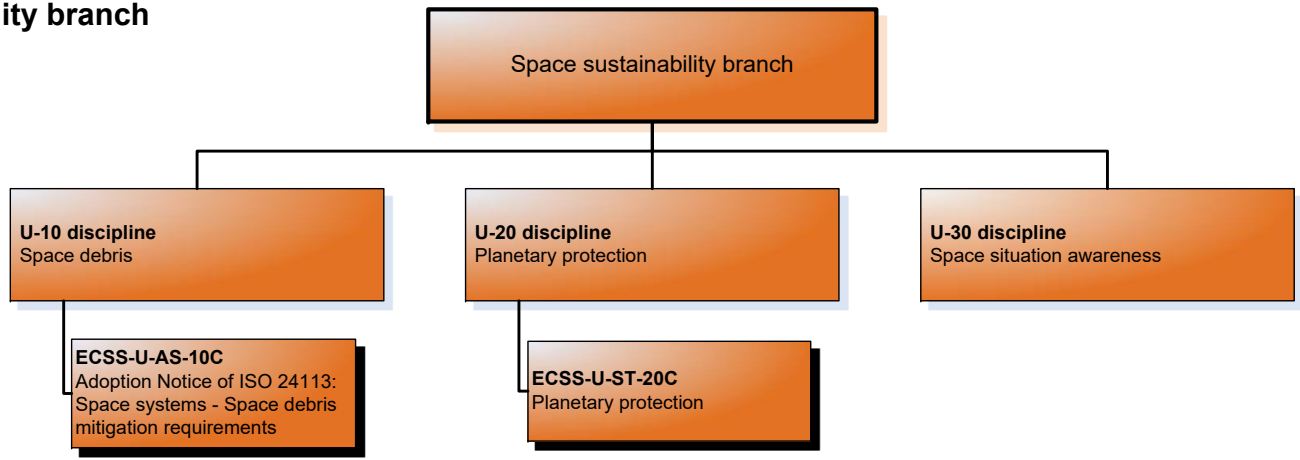


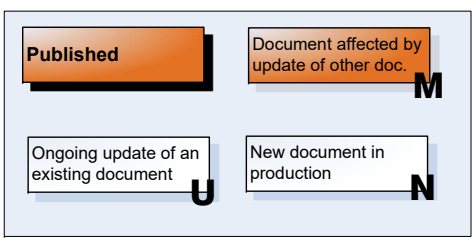
(as of 1 August 2019)



(as of 1 August 2019)

ECSS Standards
Sustainability branch

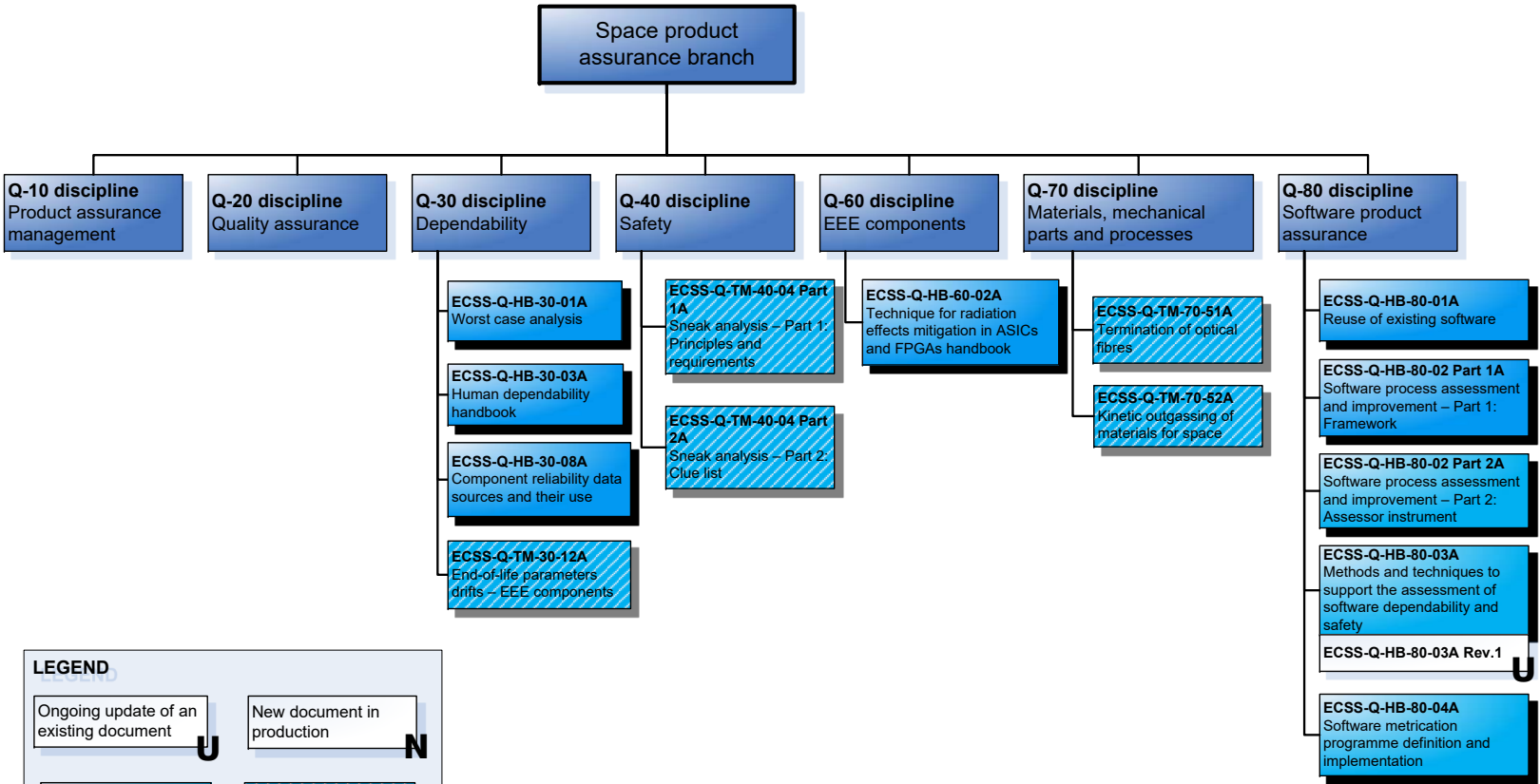




(as of 1 August 2019)

ECSS Handbooks and Technical memoranda

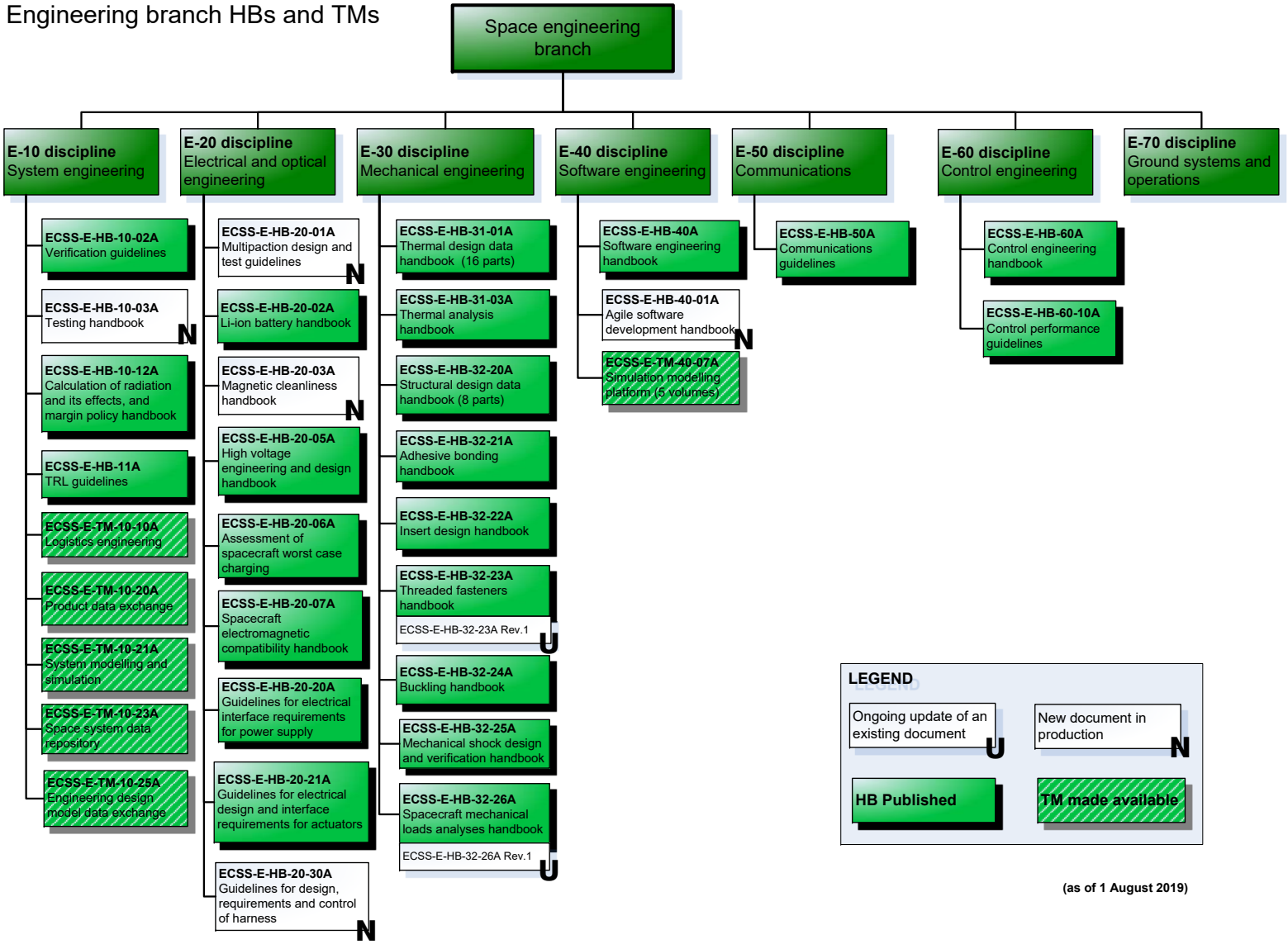
PA branch HBs and TMs



(as of 1 September 2016)

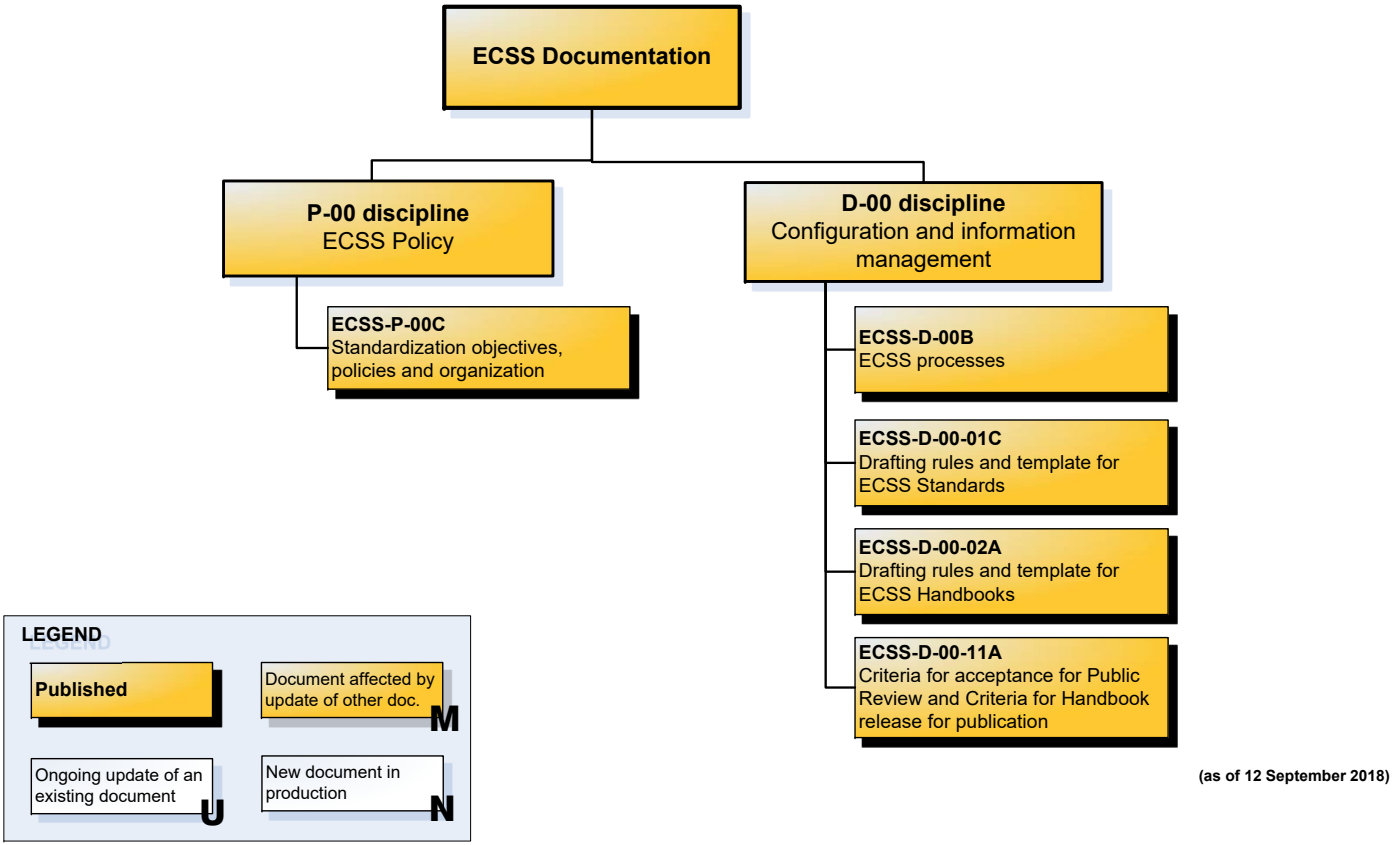
ECSS Handbooks and Technical memoranda

Engineering branch HBs and TMs



(as of 1 August 2019)

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



(as of 12 September 2018)