

# ASD-STAN Newsletter

July-August 2018

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## INSIDE THIS ISSUE

1. General news
2. ASD-STAN publications, statistics, tables with ballots (pages 3-11)

## General news

Dear readers,

ASD-STAN has published **10 new standards** during summer months (July-August), the details will follow on the next pages. There are 42 ASD-STAN originated EN standards published by CEN in July and August.

### Successful ASD-STAN ballot of three EN9300 LOTAR parts for LT Archiving of CAD 3D Product and Manufacturing Information (PMI)

As part of our new domain D07 "Digital Projects", ASD-STAN is currently updating some of the 20 already published LOTAR standards as part of the EN/NAS 9300-xxx series developed in cooperation with AIA. The objective of the LOTAR standards is to develop, test, publish and maintain standards for long-term archiving (LTA) of digital aerospace product data, such as 3D CAD and PDM data. These standards will define auditable archiving and retrieval processes.

Recently, three EN / NAS 9300 parts dealing with LT Archiving and Retrieval of PMI have been successfully balloted by ASD:

- Part 120 ed2: LTA &R. of CAD 3D Explicit Geometry with Graphic PMI,
- Part 121 ed1: LTA &R. of Semantic representation of CAD 3D Explicit Geometry with PMI,
- Part 125 ed1: LTA &R. of Explicit CAD assembly structure with Graphic PMI.

After addressing the results of the American ballots in September 2018, the publication of the three standards is planned for December 2018. For more information: <http://lotar-international.org/> and <http://www.asd-ssg.org/web/asd-ssg/lotar> .

### ASD recommendation to use ISO 10303 STEP AP242 for CAD 3D Mechanical design and PDM - CM exchange

With the LOTAR background, ASD recommends the use of STEP AP242 for the exchange, long term archiving and transfer to downstream processes of CAD data (mechanical design, incl. composite) and associated configuration (PDM) data.

References can be found at ASD SSG "STEP AP242 project" web page ([LINK](#)), and associated ASD SSG statements on the use of ISO 10303 STEP AP242 ([LINK](#))

Note: STEP stands for "Standard for the Exchange of Product model data" and corresponds to ISO 10303: "Automation systems and integration – Product data representation and exchange".

ISO 10303 AP242 supports the exchange of CAD 3D Model Based Definition, including Product and Manufacturing Information" (PMI).

For more information see: <http://www.ap242.org/geometry-assembly-pmi-interoperability>.

See also the results of the 2017 AFNeT STEP AP242 benchmark - CAD work package: [LINK](#)

ASD-STAN is currently working to provide related 3D-model for relevant ASD-STAN standards using the above-mentioned recommendation. These 3D-models will be available at our webshop in the near future.

In addition, ASD supports the use of the suite of ISO 10303 STEP modular Application protocols, including in first priorities:

- AP 209 ed2 “Multidisciplinary analysis and design” ([LINK](#)),
  - AP 239 PLCS “Product life cycle support” ([LINK](#))
  - AP 242 “Managed model-based 3D engineering” ([LINK](#))
  - AP238 ed2 “Model-Based Integrated Manufacturing” - in development ([LINK](#))
- (References can be found at [related ASD SSG statement](#))

Please note **also the organization of the AFNeT - prostep ivip STEP AP242 Day**, October 17th, 2018, at Airbus in Toulouse.

The event is targeting Automotive, Aerospace and Defense users (OEMs and suppliers) as well as PLM editors and integrators including senior management, methods, tools, and information system departments, experts and newcomers.

Learn how to enforce the use of ISO 10303:242 and STEP standard series for an end to end 3D MBD and PLM metadata exchange to reduce collaboration cost and lead time. Explore the roadmap of the OEMs, suppliers and IT vendors within your industrial landscape. The attendance at the event is free of charge.

For more information on the agenda and for registration, see: <https://www.asd-stan.org/communication-2/> or <http://afnet.fr/2018/06/22/afnet-prostep-ivip-step-ap242-day-october-17th-2018-airbus-in-toulouse/> <https://www.prostep.org/en/events/events/step-ap242-day/>

Last but not least, as you are already aware our new Executive Manager Ariane Mazel is working full-time for ASD-STAN since June 2018. Please note that her new email address is [Ariane.mazel@asd-europe.org](mailto:Ariane.mazel@asd-europe.org) in case you need to contact her.

Thank you and enjoy the read,

Andreas Jain  
Director

and

Jean-Yves Delaunay,  
ASD-STAN WGC D07WG01

ASD-STAN publications July and August 2018

*Important news:*

*In July and August 2018, ASD-STAN has published 10 ASD-*

*STAN prENs:*

[ASD-STAN prEN 4866 P1](#)

[ASD-STAN prEN 4708-107 P1](#)

[ASD-STAN prEN 4708-108 P1](#)

[ASD-STAN prEN 4604-003 P3](#)

[ASD-STAN prEN 6046 P7](#)

[ASD-STAN prEN 3745-404 P2](#)

[ASD-STAN prEN 3685 P3](#)

[ASD-STAN prEN 3299 P2](#)

[ASD-STAN prEN 3155-076 P2](#)

*which are available in our website for purchase.*

The new versions of Quality standards DIN EN 9100, 9101, 9110 and 9120 are available at the ASD-STAN website by pressing the following links:

[DIN EN 9100:2018](#)

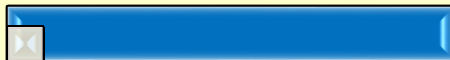
[DIN EN 9101:2018](#)

[DIN EN 9110:2018](#)

[DIN EN 9120:2018](#)

# Statistics for the last 3 years

## Statistics 2018



- 61** New Work Proposals (stage 00.00)
- 63** New Work Proposal Ballots (stage 10.00)
- 73** Published prENs (stage 40.00)
- 126** Documents Sent for Formal Vote (stage 50.00)
- 77** Ratified EN (stage 60.60)

## Statistics 2017

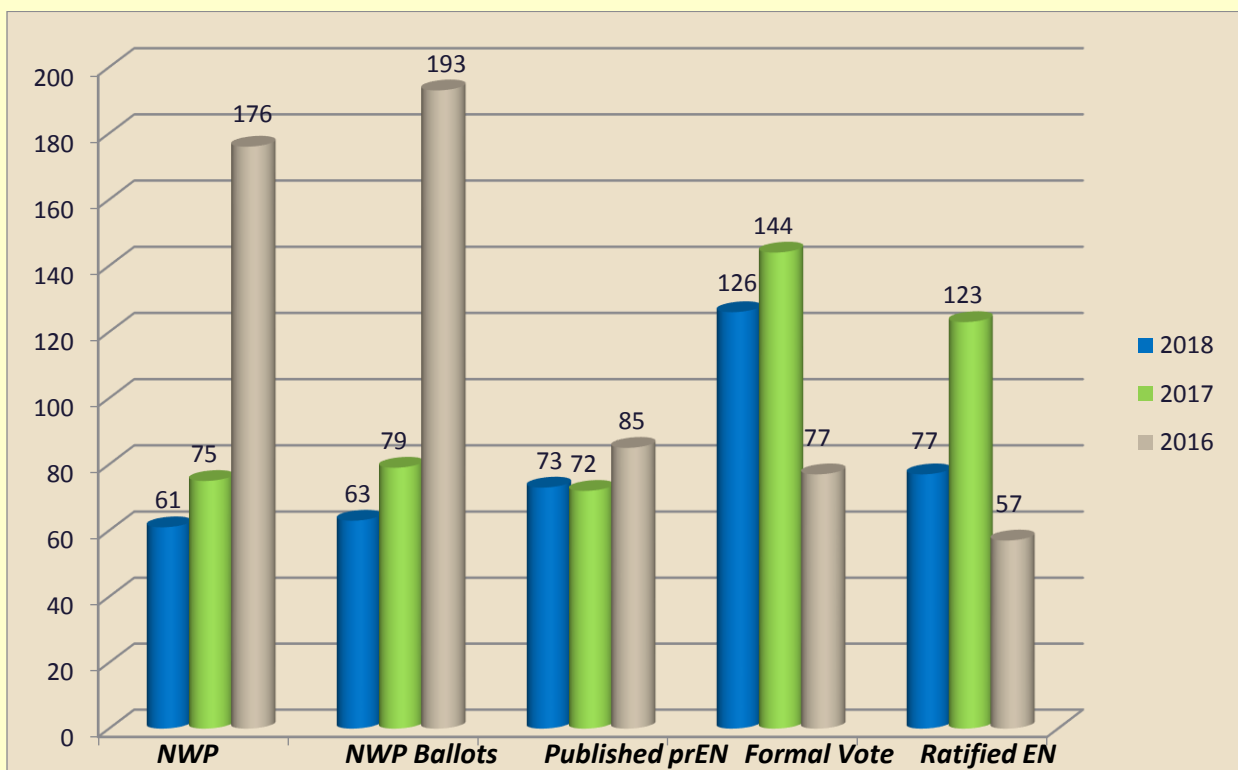


- 75** New Work Proposals (stage 00.00)
- 79** New Work Proposal Ballots (stage 10.00)
- 72** Published prENs (stage 40.00)
- 144** Documents Sent for Formal Vote (stage 50.00)
- 123** Ratified EN (stage 60.60)

## Statistics 2016



- 176** New Work Proposals (stage 00.00)
- 193** New Work Proposal Ballots (stage 10.00)
- 85** Published prENs (stage 40.00)
- 77** Documents sent for Formal Vote (stage 50.00)
- 57** Ratified EN (stage 60.60)



ASD-STAN publications July/August 2018

**Now available at the ASD-STAN Web-shop**  
(<http://www.asd-stan.org/online-document-store/>)

**NOTE:**



*These ASD-STAN prEN/TR standards are replacing any previous ASD-STAN prEN/TR editions with the same number.*




*They will supersede any previous EN editions (if any) with the same number after the CEN Formal Vote procedure.*

Type	Domain	Number	Ed	Title	Pages	Date
prEN	MECH	3299	P2	Aerospace series — Shaft-nuts and threaded rings, self-locking, right- or left-hand MJ threads, in heat resisting steel FE-PA2601 (A286), silver plated — Technical specification	22	01/07/2018
prEN	MECH	3685	P3	Aerospace series — Bolts in heat resisting steel FE-PA2601 (A286) — Classification: 1 100 MPa/650 °C — Technical specification	26	01/07/2018
prEN	MECH	6046	P7	Aerospace series — Bearings, spherical plain, in corrosion resisting steel — Narrow series — Dimensions and loads — Inch series	16	01/07/2018
prEN	ELEC	3155-076	P2	Aerospace series — Electrical contacts used in elements of connection — Part 076: Contacts, electrical, male, type A, crimp, class R — Product standard	14	01/08/2018
prEN	ELEC	3155-077	P2	Aerospace series — Electrical contacts used in elements of connection — Part 077: Contacts, electrical, female, type A, crimp, class R — Product standard	17	01/08/2018
prEN	ELEC	3745-404	P2	Aerospace series — Fibres and cables, optical, aircraft use — Test methods — Part 404: Thermal shock	5	01/08/2018
prEN	ELEC	4604-003	P3	Aerospace series — Cable, electrical, for signal transmission — Part 003: Cable, coaxial, 50 Ohm, 200 °C, type WZ — Product standard	10	01/08/2018
prEN	ELEC	4708-107	P1	Aerospace series — Sleeving, heat-shrinkable, for binding, insulation and identification — Part 107 Polytetrafluoroethylene (PTFE) — Operating temperatures - 65 °C and 260 °C — Product Standard	11	01/08/2018
prEN	ELEC	4708-108	P1	Aerospace series — Sleeving, heat-shrinkable, for binding, insulation and identification — Part 108: Limited fire hazard sleeving — Operating temperatures - 65 °C to 150 °C — Product Standard	10	01/08/2018
prEN	MAT	4866	P1	Aerospace series — Definitions of imperfections and defects in organic matrix composite materials	51	01/08/2018

**10 ASD-STAN prENs published**

## **EN Publications of the month July and August 2018**

**NOTE:**  *These EN standards are replacing any previous ASD-STAN prEN/EN editions with the same number.*

Type	Domain	Number	Ed	Title	Pages	Date
EN	MAT	2280	1EN	Aerospace series — Steel FE-PM37 — 900 MPa $\leq R_m \leq 1\ 100$ MPa — Sheet — $a \leq 6$ mm	8	11/07/2018
EN	QUAL	9115	2EN	Quality Management Systems — Requirements for Aviation, Space and Defence Organizations — Deliverable Software (Supplement to EN 9100)	27	11/07/2018
EN	DIG	9300-100	1EN	Aerospace series — LOTAR — Long Term Archiving and Retrieval of digital technical product documentation such as 3D, CAD and PDM data — Part 100: Common concepts for Long term archiving and retrieval of CAD 3D mechanical information	58	11/07/2018
EN	DIG	9300-115	1EN	Aerospace series — LOTAR — Long Term Archiving and Retrieval of digital technical product documentation such as 3D, CAD and PDM data — Part 115: Explicit CAD assembly structure	19	11/07/2018
EN	MAT	2799	1EN	Aerospace series — Fluorocarbon rubber (FKM) — Low compressions set — Hardness 90 IRHD	6	18/07/2018
EN	ELEC	3745-505	2EN	Aerospace series — Fibres and cables, optical, aircraft use — Test methods — Part 505: Cable tensile strength	5	18/07/2018
EN	ELEC	4838-004	1EN	Aerospace series — Arc fault circuit breakers, single-pole, temperature compensated, rated current 3 A to 25 A - 115 V a.c. 400 Hz constant frequency — Part 004: With signal contact — Product standard	12	18/07/2018
EN	MAT	2279	1EN	Aerospace series — Steel FE-PM37 — 900 MPa $\leq R_m \leq 1\ 100$ MPa — Forgings — $De \leq 150$ mm	8	25/07/2018
EN	MAT	2319	1EN	Aerospace series — Aluminium alloy 2024- — T3510 — Drawn bar — $a \leq 75$ mm	8	25/07/2018
EN	MAT	2387	1EN	Aerospace series — Aluminium alloy 2014A- — T6 — Tubes for structures — $0,6\ \text{mm} \leq a \leq 12,5$ mm	8	25/07/2018
EN	ELEC	4641-001	2EN	Aerospace series — Cables, optical, 125 $\mu\text{m}$ diameter cladding — Part 001: Technical specification	14	25/07/2018
EN	MECH	4832	1EN	Aerospace series — Adaptor, Pipe coupling 24° Cone up to 35 000 kPa (5 080 psi) Ring-locked fitting and Ring-locked fitting-reducer — Inch Series — Technical specification	27	25/07/2018
EN	MECH	4833	1EN	Aerospace series — Pipe coupling 24° Cone up to 35 000 kPa (5 080 psi) Ring-locked fitting — Flareless End — Inch Series — Extra Fine Thread Pitch	12	25/07/2018
EN	MECH	4510	1EN	Aerospace series — Pipe couplings, 60°, spherical, in titanium alloy TI-P64001, adapters, straight, double end, with locking ring	11	25/07/2018
EN	MAT	2540	1EN	Aerospace series — Steel X7CrNiAl17-7 (1.4568) — Air melted — Solution treated and precipitation	8	01/08/2018

				hardened — Sheet and strip — $a \leq 6 \text{ mm}$ — $1\,240 \text{ MPa} \leq R_m \leq 1\,450 \text{ MPa}$		
EN	MAT	2541	1EN	Aerospace series — Steel FE-PA18 — Quenched and cold drawn — Wire for spring — $D \leq 4,0 \text{ mm}$	8	01/08/2018
EN	MAT	2796	1EN	Aerospace series — Fluorocarbon rubber (FKM) — Low compressions set — Hardness 60 IRHD	6	01/08/2018
EN	MECH	4834	1EN	Aerospace series — Adaptor, Pipe coupling 24° Cone up to 35 000 kPa (5 080 psi) Port for Ring locked fitting — Inch Series — Geometric configuration	10	01/08/2018
EN	MECH	4835	1EN	Aerospace series — Installation and removal requirements for Ring locked fitting and reducer, 24° Cone up to 35 000 kPa (5 080 psi) — Inch Series	17	01/08/2018
EN	MECH	4836	1EN	Aerospace series — Adaptor, Pipe coupling 24° Cone up to 35 000 kPa (5 080 psi) Ring-locked fitting — Reducer — Flareless End — Inch Series — Extra Fine Thread Pitch	12	01/08/2018
EN	ELEC	2591-326	1EN	Aerospace series — Elements of electrical and optical connection — Test methods — Part 326: Fire immersion test	16	08/08/2018
EN	MAT	3719	3EN	Aerospace series — Aluminium or aluminium alloy conductors for electrical cables — Product standard	8	08/08/2018
EN	ELEC	4838-001	1EN	Aerospace series — Arc Fault Circuit breakers, single-pole, temperature compensated, rated current 3 A to 25 A — 115 V a.c. 400 Hz Constant Frequency — Part 001: Technical specification	21	08/08/2018
EN	ELEC	4840-101	1EN	Aerospace series — Heat shrinkable moulded shapes — Part 101: Polyolefin, semi-rigid, limited fire hazard — Temperature range - 30 °C to 105 °C — Product standard	11	08/08/2018
EN	MECH	6109	1EN	Aerospace series — Static seal elements elastomer, moulded, phosphate ester resistant — Technical specification	16	08/08/2018
EN	MECH	6126	1EN	Aerospace series — Fitting end, 24° internal cone, external thread, flareless type, size -32 tube diameter $D=2 \text{ inches}$ ( $D=50,8 \text{ mm}$ ) extra fine thread pitch inch series — Inch series — Design standard	8	08/08/2018
EN	ELEC	2591-100	2EN	Aerospace series — Elements of electrical and optical connection — Test methods — Part 100: General	25	15/08/2018
EN	ELEC	2591-318	2EN	Aerospace series — Elements of electrical and optical connection — Test methods — Part 318: Fire-resistance	13	15/08/2018
EN	ELEC	3475-411	3EN	Aerospace series — Cables, electrical, aircraft use — Test methods — Part 411: Resistance to fluids	7	15/08/2018
EN	ELEC	3646-003	2EN	Aerospace series — Connectors, electrical, circular, bayonet coupling, operating temperature 175 °C or 200 °C continuous — Part 003: Receptacle, square flange mounting — Product standard	8	15/08/2018
EN	ELEC	4604-010	4EN	Aerospace series — Cable, electrical, for signal transmission — Part 010: Cable, coaxial, light weight, 50 Ohms, 200 °C, type KX (light WD) — Product standard	11	15/08/2018
EN	DIG	9278	1EN	Aerospace series — General Principles of Obsolescence Management of chemicals, materials and processes	29	15/08/2018



<b>EN</b>	<b>MAT</b>	<b>2031</b>	1EN	Aerospace series — Steel 102Cr6 (1.2067) — Hardened and tempered — Bars	8	22/08/2018
<b>EN</b>	<b>ELEC</b>	<b>2084</b>	3EN	Aerospace series — Cables, electrical, general purpose, with conductors in copper or copper alloy — Technical specification	14	22/08/2018
<b>EN</b>	<b>ELEC</b>	<b>3375-001</b>	2EN	Aerospace series — Cable, electrical, for digital data transmission — Part 001: Technical specification	13	22/08/2018
<b>EN</b>	<b>ELEC</b>	<b>3646-006</b>	2EN	Aerospace series — Connectors, electrical, circular, bayonet coupling, operating temperature 175 °C or 200 °C continuous — Part 006: Receptacle, hermetic, jam-nut mounting — Product standard	8	22/08/2018
<b>EN</b>	<b>ELEC</b>	<b>4611-002</b>	2EN	Aerospace series — Cables, electrical, for general purpose, single and multicore assembly — XLETFE Family — Part 002: General	6	22/08/2018
<b>EN</b>	<b>ELEC</b>	<b>6059-309</b>	1EN	Aerospace series — Electrical cables, installation — Protection sleeves — Test methods — Part 309: Fire resistance when fitted on a cable bundle	10	22/08/2018
<b>EN</b>	<b>ELEC</b>	<b>2475</b>	1EN	Aerospace series — Steel 30CrNiMo8 (1.6580) — Air melted — Hardened and tempered — Bar for machining — $De \leq 100 \text{ mm}$ — $1\ 100 \text{ MPa} \leq Rm \leq 1\ 300 \text{ MPa}$	8	29/08/2018
<b>EN</b>	<b>ELEC</b>	<b>4840-001</b>	1EN	Aerospace series — Heat shrinkable moulded shapes — Part 001: Technical specification	10	29/08/2018
<b>EN</b>	<b>ELEC</b>	<b>6049-001</b>	2EN	Aerospace series — Electrical cables, installation — Protection sleeve in meta-aramid fibres — Part 001: Technical specification	16	29/08/2018
<b>EN</b>	<b>ELEC</b>	<b>6049-003</b>	2EN	Aerospace series — Electrical cables, installation — Protection sleeve in meta-aramid fibres — Part 003: Braided, tubular, expandable — Product standard	9	29/08/2018

**42 ENs released by CEN for  
publication**

**The related DIN EN standards will be available soon at the ASD-STAN  
web-shop.**



## Ballots reminder

### *NWP: New Work Proposal Ballot*

Number	Domain	Edition	Title	Due Date
<b>4879</b>	MAT	P1	Mechanical properties of products produced by Additive Manufacturing	09/07/2018
<b>4179</b>	MAT	P6	Aerospace series — Qualification and approval of personnel for non-destructive testing	09/07/2018
<b>4717</b>	MAT	P3	Aerospace series — Polyetheretherketone with 55 % continuous carbon fibre by volume (PEEK-CF55) stock shape material — Material specification	27/07/2018
<b>4718</b>	MAT	P3	Aerospace series — Polyetheretherketone with 55 % continuous glass fibre by volume (PEEK-GF55) stock shape material — Material specification	27/07/2018
<b>6114</b>	MECH	P11	Aerospace series — Bolt — Countersunk head, Short thread — Inch series	17/08/2018
<b>6115</b>	MECH	P10	Aerospace series — Bolt — Countersunk head, Short thread — Inch series	17/08/2018
<b>3841-100</b>	ELEC	P3	Aerospace series — Circuit breaker test methods — Part 100:	04/09/2018
<b>2066</b>	MAT	P2	Aerospace series — Extruded section in aluminium alloys — General tolerances	19/09/2018
<b>4842</b>	MAT	P3	Aerospace series — X5CrNiCu15-5 (1.4545) — Consumable electrode remelted (ESR or VAR) — Solution treated and precipitation treated (H1025) — Bar for machining — a or D ≤ 250 mm — 1 070 MPa ≤ R <sub>m</sub> ≤ 1 200 MPa — Premium quality (pq)	01/10/2018
<b>4881</b>	MAT	P1	Aerospace series — Micro-arc oxidation of aluminium and aluminium alloys	01/10/2018
<b>2573</b>	MAT	P3	Aerospace series — Steel X6CrNiTi18-10 (1.4541) — Softened — R <sub>m</sub> ≤ 780 MPa — Wire — 0,25 mm ≤ D <sub>e</sub> ≤ 3 mm	01/10/2018
<b>2467</b>	MAT	P2	Aerospace series — Steel X2CrNi18-9 (1.4307) — Air melted — Softened — Plate, sheet and strip — 0,4 mm ≤ a ≤ 20 mm — 520 MPa ≤ R <sub>m</sub> ≤ 670 MPa	01/10/2018
<b>3480</b>	MAT	P3	Aerospace series — Steel X6CrNiTi18-10 (1.4541) — Air melted — Softened — Plate — 6 mm < a ≤ 50 mm — 500 MPa ≤ R <sub>m</sub> ≤ 700 MPa	01/10/2018
<b>3487</b>	MAT	P3	Aerospace series — Steel X6CrNiTi18-10 (1.4541) — Air melted — Softened — Bar for machining — a or D ≤ 250 mm — 500 MPa ≤ R <sub>m</sub> ≤ 700 MPa	01/10/2018
<b>3488</b>	MAT	P3	Aerospace series — Steel X6CrNiTi18-10 (1.4541) — Air melted — Softened — Sheet and strip — a ≤ 6 mm — 500 MPa ≤ R <sub>m</sub> ≤ 700 MPa	01/10/2018
<b>6038</b>	MAT	P3	Aerospace series — Fibre reinforced plastics — Test method — Determination of the compression strength after impact	01/10/2018
<b>2563</b>	MAT	P2	Aerospace series — Carbon fibre reinforced plastics — Unidirectional laminates — Determination of the apparent interlaminar shear strength	01/10/2018
<b>2564</b>	MAT	P3	Aerospace series — Carbon fibre laminates — Determination of the fibre, resin and void contents	01/10/2018
<b>2377</b>	MAT	P2	Aerospace series — Glass fibre reinforced plastics — Test method — Determination of apparent interlaminar shear strength	01/10/2018

***NDB: National Domain Ballot***

Number	Domain	Edition	Title	Due Date
<b>3373-001</b>	ELEC	P4	Aerospace series — Terminal lugs and in-line splices for crimping on electric conductors — Part 001: Technical specification	17/07/2018
<b>4700-002</b>	MAT	P4	Aerospace series — Steel and heat resisting alloys — Wrought products — Technical specification — Part 002: Bar and section	17/07/2018
<b>9300-007</b>	GEN	P2	Aerospace series — LOTAR — LOnG Term Archiving and Retrieval of digital technical product documentation such as 3D CAD and PDM data — Part 007: Terms and References	25/07/2018
<b>9300-020</b>	GEN	P1	Aerospace series — LOTAR — LOnG Term Archiving and Retrieval of digital technical product documentation such as 3D CAD and PDM data — Part 020: Governance and Preservation Planning	25/07/2018
<b>9300-120</b>	GEN	P1	Aerospace series — LOTAR — LOnG Term Archiving and Retrieval of digital technical product documentation such as 3D CAD and PDM data — Part 120: CAD 3D Explicit Geometry with Graphic Product and Manufacturing Information	25/07/2018
<b>9300-121</b>	GEN	P1	Aerospace series — LOTAR — LOnG Term Archiving and Retrieval of digital technical product documentation such as 3D CAD and PDM data — Part 121: Semantic representation of CAD 3D Explicit Geometry with Product and Manufacturing Information	25/07/2018
<b>9300-125</b>	GEN	P1	Aerospace series — LOTAR — LOnG Term Archiving and Retrieval of digital technical product documentation such as 3D CAD and PDM data — Part 125: Explicit CAD assembly structure with Graphic Product and Manufacturing Information (PMI)	25/07/2018
<b>4855-01</b>	ENG	P1	Aerospace series — ECO efficiency of catering equipment — Part 01: General conditions	27/07/2018
<b>4855-02</b>	ENG	P1	Aerospace series — ECO efficiency of catering equipment — Part 02: Oven equipment	27/07/2018
<b>4855-03</b>	ENG	P1	Aerospace series — ECO efficiency of catering equipment — Part 03: Galley chilling equipment	27/07/2018
<b>4855-04</b>	ENG	P1	Aerospace series — ECO efficiency of catering equipment — Part 04: Beverage makers	27/07/2018
<b>2755</b>	MECH	P4	Aerospace series — Bearings, spherical plain in corrosion resisting steel with self-lubricating liner — Elevated load at ambient temperature — Technical specification	06/08/2018
<b>2943</b>	MECH	P3	Aerospace series — Inserts, MJ and M screw threads, helical coil, Technical specification	06/08/2018
<b>4613</b>	MECH	P2	Aerospace series — Bearing, spherical plain, in corrosion resisting steel with self-lubricating liner, narrow series — Dimensions and loads — Inch series	06/08/2018

## NDB: National Domain Ballot (continuation)

<b>4614</b>	MECH	P2	Aerospace series — Bearing, spherical plain, in corrosion resisting steel with self-lubricating liner, wide series — Dimensions and loads — Inch series	06/08/2018
<b>4609</b>	MECH	P1	Aerospace series — Spiral drive recesses for threaded fasteners — Geometrical definition and technical requirements	08/08/2018
<b>3381</b>	MECH	P3	Aerospace series — Screws, 100° countersunk normal head, offset cruciform recess, close tolerance normal shank, short thread, in titanium, anodized, MoS <sub>2</sub> lubricated — Classification: 1 100 MPa (at ambient temperature) / 315 °C	16/08/2018
<b>4013</b>	MECH	P3	Aerospace series — Shank nuts, self-locking, in heat resisting nickel base alloy NI-PH2601 (Inconel 718), silver plated — Classification: 1 550 MPa (at ambient temperature) / 600 °C	16/08/2018
<b>4496</b>	MECH	P2	Aerospace series — Screws, 100° countersunk normal head, offset cruciform recess, close tolerance normal shank, short thread, in titanium alloy, anodized, with aluminium pigmented coating — Classification: 1 100 MPa (at ambient temperature) / 315 °C	16/08/2018
<b>4875</b>	MAT	P1	Aerospace series — Surface treatments — Test method for measurement of electrical contact resistance	08/09/2018
<b>2002-001</b>	MAT	P5	Aerospace series — Metallic materials — Test methods — Part 001: Tensile testing at ambient temperature	28/09/2018
<b>4648</b>	ELEC	P3	Aerospace series — Cable, electrical — Re-qualification following changes in design, material or manufacturing process	02/10/2018
<b>2854-003</b>	ELEC	P3	Aerospace series — Cables, electrical for general purpose — Cross sections equal to and greater than 9 mm <sup>2</sup> — Operating temperatures between - 55 °C and 260 °C — Part 003: Product standard	3/10/2018
<b>4878-001</b>	MAT	P1	Aerospace series — Polytetrafluoroethylene (PTFE) — Moulded	26/10/2018
<b>4878-002</b>	MAT	P1	Aerospace series — Polytetrafluoroethylene (PTFE) — Ram extruded	26/10/2018
<b>4878-003</b>	MAT	P1	Aerospace series — Polytetrafluoroethylene (PTFE) — Paste extruded	26/10/2018
<b>3572</b>	MECH	P2	Aerospace series — PTFE flexible hose assembly with convoluted inner tube of a nominal pressure up to 6 800 kPa and 8°30' fitting in titanium — Product standard	14/11/2018