

STN	Zdokonalený systém navádzania a riadenia pohybu na prevádzkových plochách (A-SMGCS) Časť 4: Špecifikácia Spoločenstva pre využívaný nespolupracujúci snímač vrátane jeho rozhraní Oddiel 2: Osobitné požiadavky na využívaný snímač radaru pre pohyb na ploche	STN EN 303 213-4-2 V2.1.1 87 3213
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Advanced Surface Movement Guidance and Control System (A-SMGCS); Part 4: Community Specification for a deployed non-cooperative sensor including its interfaces; Sub-part 2: Specific requirements for a deployed Surface Movement Radar sensor

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**Advanced Surface Movement Guidance and
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Part 4: Community Specification for a deployed
non-cooperative sensor including its interfaces;
Sub-part 2: Specific requirements for a deployed
Surface Movement Radar sensor**

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Contents

Intellectual Property Rights	5
Foreword.....	5
Modal verbs terminology.....	6
1 Scope	7
2 References	7
2.1 Normative references	7
2.2 Informative references.....	8
3 Definition of terms, symbols and abbreviations.....	9
3.1 Terms.....	9
3.2 Symbols.....	9
3.3 Abbreviations	10
4 Requirements for implementing Surface Movement Radar (SMR) sensor for A-SMGCS Systems	10
4.0 General	10
4.1 Design Requirements for SMR sensor for A-SMGCS Systems.....	10
4.1.1 General Requirements.....	10
4.1.2 Coverage.....	10
4.1.3 Safety interlocks	10
4.2 Built requirements for SMR sensors for A-SMGCS Systems.....	10
4.2.1 Basic conformity tests.....	10
4.2.2 Performance tests.....	10
4.3 Requirements for site testing procedures for SMR sensor for A-SMGCS Systems	11
4.3.1 Site testing procedures	11
4.4 Maintenance Requirements for SMR sensors for A-SMGCS Systems	11
Annex A (normative): Regulation EU 2018/1139 Essential Requirements mapping and Checklist	12
A.1 Correspondence between the present document and the relevant Essential Requirements of Annex VIII of Regulation EU 2018/1139.....	12
A.2 Mapping of requirements for the A-SMGCS Surveillance Service to the relevant Essential Requirements of Annex VIII, chapters 2.6 and 3 of Regulation (EU) 2018/1139	14
Annex B (informative): SES Interoperability Regulation Essential Requirements mapping and Checklist	19
B.1 Correspondence between the present document and the Essential Requirements of the Interoperability Regulation as amended by Regulation (EC) 1070/2009.....	19
B.2 Interoperability Regulation Annex II Essential Requirements; Part A: General requirements.....	21
B.3 Interoperability Regulation, Annex II Essential Requirements, Part B: Specific requirements.....	25
B.3.0 Introduction	25
B.3.1 Systems and procedures for airspace management.....	26
B.3.2 Systems and procedures for air traffic flow management	26
B.3.3 Systems and procedures for air traffic services	27
B.3.3.1 Flight data processing systems.....	27
B.3.3.2 Surveillance data processing systems	28
B.3.3.3 HMI systems.....	29
B.3.4 Communications systems and procedures for ground-to-ground, air-to-ground and air-to-air communications	30
B.3.5 Navigation systems and procedures	30
B.3.6 Surveillance systems and procedures	31
B.3.7 Systems and procedures for aeronautical information services.....	31
B.3.8 Systems and procedures for the use of meteorological information.....	32

Annex C (informative): Bibliography.....33
History34

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Foreword

This European Standard (EN) has been produced by ETSI Technical Committee Electromagnetic compatibility and Radio spectrum Matters (ERM).

The presumption of conformity which is linked to the full application of ETSI EN 303 213 (parts 1 to 4, 7, 8) can only be claimed after ETSI EN 303 213 (parts 1 to 4, 7, 8) has been listed in the Official Journal of the European Union as Community Specification.

General requirements for presumption of conformity to Regulation (EU) 2018/1139 [i.6] are given in the normative annexes of the present document.

NOTE: Other requirements and other EU Regulations and/or Directives may be applicable to the product(s) falling within the scope of the present document.

The present document is part 4, sub-part 2 of a multi-part deliverable covering Advanced Surface Movement Guidance and Control System (A-SMGCS), as identified below:

Part 1: "Community Specification for A-SMGCS surveillance service including external interfaces";

Part 2: "Community Specification for A-SMGCS airport safety support service";

Part 3: "Community Specification for a deployed cooperative sensor including its interfaces";

Part 4: "Community Specification for a deployed non-cooperative sensor including its interfaces";

Sub-part 1: "Generic requirements for non-cooperative sensor";

Sub-part 2: "Specific requirements for a deployed Surface Movement Radar sensor";

Part 5: "Harmonised Standard for access to radio spectrum for Multilateration (MLAT) equipment";

Part 6: "Harmonised Standard for access to radio spectrum for deployed surface movement radar sensors";

Part 7: "Community Specification for A-SMGCS routing service";

Part 8: "Community Specification for A-SMGCS guidance service".

National transposition dates	
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Modal verbs terminology

In the present document "**shall**", "**shall not**", "**should**", "**should not**", "**may**", "**need not**", "**will**", "**will not**", "**can**" and "**cannot**" are to be interpreted as described in clause 3.2 of the [ETSI Drafting Rules](#) (Verbal forms for the expression of provisions).

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1 Scope

The present document is applicable to deployed non-cooperative SMR sensor as a constituent of an Advanced Surface Movement Guidance and Control System (A-SMGCS).

NOTE 1: Generic requirements for a non-cooperative sensor are defined in ETSI EN 303 213-4-1 [1].

The present document provides a European Standard for manufacturers, Air Navigation Service Providers and/or Airport Operators, who have to demonstrate and declare compliance of their systems and constituents to the Essential Requirements (ERs) of Annex VIII of Regulation EU 2018/1139 [i.6].

NOTE 2: The ERs in Annex VIII of Regulation EU 2018/1139 [i.6] covered by the present document are outlined in Table A.1.

NOTE 3: Although the ERs of the SES Interoperability Regulation [i.1] have been repealed with effect from 11 September 2018 [i.6], a mapping of the requirements for the A-SMGCS Surveillance Service to this same regulation [i.1] is provided in Annex B.

Any software elements related to the software assurance level of an A-SMGCS are out of scope of the present document. As such the ERs of Regulation EU 2018/1139 [i.6] are not considered for software elements within the present document.

The present document does not give presumption of conformity related to the maintenance requirements, environmental constraints, procedure level, effect of harmful interference and civil/military coordination.

NOTE 4: For these ERs, the Air Navigation Service Provider will need to provide supplementary compliance within their Interoperability Technical Files.

The present document does not give presumption of conformity to any current interoperability Implementing Rules (IRs).

NOTE 5: Currently there are no relevant Implementing Rules for A-SMGCS.

Requirements in the present document which refer to "should" statements or recommendations in the normatively referenced material (clause 2.1) are to be interpreted as fully normative ("shall") for the purpose of compliance with the present document if they are unambiguously referred to from the present document.

The reference to particular requirements is done either by citing the unambiguous requirement number or range of numbers (e.g. "[REQ 30.] to [REQ 35.]") or, if no requirement numbers are available, by indicating the paragraph and clause of the reference material where the requirement can be found.

NOTE 6: Other requirements and other EU Regulations and/or Directives may be applicable to the product(s) falling within the scope of the present document.

2 References

2.1 Normative references

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the referenced document (including any amendments) applies.

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The following referenced documents are necessary for the application of the present document:

[1] ETSI EN 303 213-4-1: "Advanced Surface Movement Guidance and Control System (A-SMGCS); Part 4: Community Specification for a deployed non-cooperative sensor including its interfaces; Sub-part 1: Generic requirements for non-cooperative sensor".

[2] EUROCAE ED-116 (January 2004): "Minimum Operational Performance Specification for Surface Movement Radar Sensor Systems for Use in A-SMGCS".

NOTE: Available at <https://eshop.eurocae.net/eurocae-documents-and-reports/ed-116/>.

[3] EUROCAE ED-87 revision D (June 2019): "Minimum Aviation System Performance Specification for Advanced Surface Movement Guidance and Control Systems (A-SMGCS)".

NOTE: Available at <https://eshop.eurocae.net/eurocae-documents-and-reports/ed-87d/>.

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The following referenced documents are not necessary for the application of the present document but they assist the user with regard to a particular subject area.

[i.1] Regulation (EC) No 552/2004 of the European Parliament and of the Council of 10 March 2004 on the interoperability of the European Air Traffic Management network (interoperability Regulation), OJ L 96, 31.03.2004 as amended by Regulation (EC) No 1070/2009.

[i.2] Regulation (EC) No 549/2004 of the European Parliament and of the Council of 10 March 2004 laying down the framework for the creation of the single European sky (the framework Regulation), OJ L 96, 31.03.2004 as amended by Regulation (EC) No 1070/2009.

[i.3] Void.

[i.4] ICAO Document 9830, AN/452: "Advanced Surface Movement Guidance and Control Systems (A-SMGCS) Manual", First Edition, 2004.

[i.5] Regulation (EC) No 1070/2009 of the European Parliament and of the Council of 21 October 2009 amending Regulations (EC) No 549/2004, (EC) No 550/2004, (EC) No 551/2004 and (EC) No 552/2004 in order to improve the performance and sustainability of the European aviation system, OJ L 300, 14.11.2009.

[i.6] Regulation (EU) No 2018/1139 of the European Parliament and of the Council of 4 July 2018 on common rules in the field of civil aviation and establishing a European Union Aviation Safety Agency, and amending Regulations (EC) No 2111/2005, (EC) No 1008/2008, (EU) No 996/2010, (EU) No 376/2014 and Directives 2014/30/EU and 2014/53/EU of the European Parliament and of the Council, and repealing Regulations (EC) No 552/2004 and (EC) No 216/2008 of the European Parliament and of the Council and Council Regulation (EEC) No 3922/91.

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