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5G; 3GPP Registry for Service Names and Port Numbers (3GPP TS 29.641 version 19.0.0 Release 19)



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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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Foreword

This Technical Specification has been produced by the 3rd Generation Partnership Project (3GPP).

The contents of the present document are subject to continuing work within the TSG and may change following formal TSG approval. Should the TSG modify the contents of the present document, it will be re-released by the TSG with an identifying change of release date and an increase in version number as follows:

Version x.y.z

where:

- x the first digit:
 - 1 presented to TSG for information;
 - 2 presented to TSG for approval;
 - 3 or greater indicates TSG approved document under change control.
- y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.
- z the third digit is incremented when editorial only changes have been incorporated in the document.

In the present document, modal verbs have the following meanings:

- shall** indicates a mandatory requirement to do something
- shall not** indicates an interdiction (prohibition) to do something

The constructions "shall" and "shall not" are confined to the context of normative provisions, and do not appear in Technical Reports.

The constructions "must" and "must not" are not used as substitutes for "shall" and "shall not". Their use is avoided insofar as possible, and they are not used in a normative context except in a direct citation from an external, referenced, non-3GPP document, or so as to maintain continuity of style when extending or modifying the provisions of such a referenced document.

- should** indicates a recommendation to do something
- should not** indicates a recommendation not to do something
- may** indicates permission to do something
- need not** indicates permission not to do something

The construction "may not" is ambiguous and is not used in normative elements. The unambiguous constructions "might not" or "shall not" are used instead, depending upon the meaning intended.

- can** indicates that something is possible
- cannot** indicates that something is impossible

The constructions "can" and "cannot" are not substitutes for "may" and "need not".

- will** indicates that something is certain or expected to happen as a result of action taken by an agency the behaviour of which is outside the scope of the present document
- will not** indicates that something is certain or expected not to happen as a result of action taken by an agency the behaviour of which is outside the scope of the present document
- might** indicates a likelihood that something will happen as a result of action taken by some agency the behaviour of which is outside the scope of the present document

might not indicates a likelihood that something will not happen as a result of action taken by some agency the behaviour of which is outside the scope of the present document

In addition:

is (or any other verb in the indicative mood) indicates a statement of fact

is not (or any other negative verb in the indicative mood) indicates a statement of fact

The constructions "is" and "is not" do not indicate requirements.

1 Scope

The present document defines 3GPP procedures for Service Name and Port Number registry management. These procedures should be followed by 3GPP WGs when requesting new port numbers for the 3GPP allocated port number solution#6, which is specified in clause 4.4 of the 3GPP TR 29.941 [2].

The present document also maintains a database of the 3GPP allocated port numbers.

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

[1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".

[2] 3GPP TR 29.941: "Study on Port Number Allocation Alternatives for New 3GPP Interfaces".

3 Definitions of terms, symbols and abbreviations

3.1 Terms

For the purposes of the present document, the terms given in 3GPP TR 21.905 [1] and the following apply. A term defined in the present document takes precedence over the definition of the same term, if any, in 3GPP TR 21.905 [1].

3.2 Void

3.3 Void

4 3GPP procedures for Service Name and Port Number registry management

4.1 General Principles

3GPP CT4 is responsible for the management and maintenance of service name and port number registry from the sub-range of 101 ports from 65400 to 65500. This sub-range belongs to the Dynamic/Private Port range [49152 - 65535] and IANA does not assign port numbers from this range.

Clause 4.4 in 3GPP TR 29.941 [2] specifies solution#6 for 3GPP allocated port numbers. Solution#6 requires 3GPP CT4 to maintain the 3GPP allocated port number repository.

4.2 3GPP allocated Service Name and Port Number registry

This clause specifies 3GPP procedure for the port number allocation based on the solution#6 (see clause 4.4 in 3GPP TR 29.941 [2]).

1. If a 3GPP working group decides to utilize 3GPP allocated port number solution#6, the working group shall send an LS request to 3GPP CT4. CT4 accepts the request if it addresses the following matters (checklist):
 - a. The request should be for a protocol, which is supported by intra-domain interface(s).
 - b. The request should indicate that the request cannot meet IANA/IETF requirements for the port number allocation (see Annex C in 3GPP TR 29.941 [2]).
 - c. The request should indicate that solution#6 is preferable and selected after evaluating other solutions specified in 3GPP TR 29.941 [2].
2. LS request to 3GPP CT4 shall also contain the following information:
 - a. The service name, e.g. x2-ctrl.
 - b. Applicable transport protocol(s).
 - c. Short description, e.g. X2-CP.
 - d. A statement that the new port number will be used across intra-domain interface <name> between nodes <name> and <name>.
 - e. Work Item Code (WIC) used by the request sender (both the abbreviation and the numerical value).
3. 3GPP CT4 shall inform the 3GPP WG that has requested new port number allocation and also may inform other, relevant 3GPP WGs about the decision. 3GPP CT4 creates respective CR. If CT plenary approves the CR, then the assigned port number will be added to the Table 5-1 (see clause 5).

5 Port Number Database

Table 5-1 represents 3GPP allocated service name and port number registry of 101 ports from 65400 to 65500. 3GPP CT4 maintains the repository.

Table 5-1: Service Name/port number assigned by 3GPP

Service Name	Port Number	Transport Protocol	Description	Inter/Intra interface between entities	Requesting WG	Registration Date
SLMP	65400	UDP	SLM-C-CP	Inter SLM-C hosted UEs	CT1	2023-06 (CT#100)
MSGin5GMD	65401	UDP	MSGin5GMD-UP	Inter MSGin5G Client to MSGin5G Server (MSGin5G-1)	CT1	2023-06 (CT#100)
LCS-UPP	65402	TCP	LCS-UPP	Intra-domain interface between UE and LMF (NL11)	CT1	2025-03 (CT#107)

Annex A (informative): Change history

Change history							
Date	Meeting	TDoc	CR	R ev	Cat	Subject/Comment	New version
2022-01	CT4#107e-bis	C4-220265				Skeleton	0.0.0
2022-01	CT4#107e-bis	C4-220458				Following tdocs are implemented: C4-220287, C4-220288 and C4-220289.	0.1.0
2022-02	CT4#108e	C4-221587				Spec number was assigned.	0.2.0
2022-03	CT#95e	CP-220103				TS presented for information and approval	1.0.0
2022-03	CT#95e					TS approved	17.0.0
2022-06	CT#96	CP-221026	0001	-	D	Editorial corrections	17.1.0
2022-09	CT#97e	CP-222033	0002	-	F	Correcting references	17.2.0
2023-03	CT#99	CP-230058	0003	1	B	Allocating new port number	18.0.0
2023-06	CT#100	CP-231062	0004	-	B	New UDP port number for the SLMP	18.1.0
2023-06	CT#100	CP-231062	0005	3	B	New port number for MSGin5G service	18.1.0
2025-03	CT#107	CP-250025	0006	1	F	New port number for LCS-UPP	18.2.0
2025-10	-	-	-	-	-	Update to Rel-19 version (MCC)	19.0.0

History

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