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**3RD GENERATION
PARTNERSHIP
PROJECT 2
"3GPP2"**

MOBILE EQUIPMENT IDENTIFIER (MEID)

GHA (Global Hexadecimal Administrator) ASSIGNMENT GUIDELINES AND PROCEDURES

**Prepared by: Telecommunications Industry Association (TIA) Engineering Committee
TR-45 ESN/UIM Ad Hoc Group and 3GPP2 TSG-S Numbering Ad-Hoc Group**

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1.0 PREFACE

This document contains the guidelines and procedures for the assignment and use of Mobile Equipment Identifiers (MEIDs) for Mobile Stations (MSs).

Correspondence relating to the administration herein should be directed to the MEID Global Hexadecimal Administrator.

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2.0 PURPOSE AND SCOPE

The Mobile Equipment Identifier (MEID) is used as a means to facilitate mobile equipment identification and to track mobiles. Additionally the Global Equipment Identifier (GEID) coordinated range encourages global roaming and harmonization between 3G technologies as a universal mobile equipment identifier.

The fields in the MEID are coded with hexadecimal coding. The addressing space is quite large and exhaustion issues are not expected.

GEID (i.e., IMEI and MEID) provides not only the manufacturer identity of the ME, but also information such as type allocation code or serial number.

By means of and with assistance of manufacturer's data base lookup, MEID may help service providers identify the ME to the levels of model, manufactured factory and the lot numbers. The information can be used for corrective or preventive actions to improve the service quality. The MEID allows a list of MEs that have been stolen or denied service to be maintained e.g., Central Equipment Identity Register (*CEIR*).

The MEID shall have a number structure and allocation system that is globally recognized and applied in multiple access technologies.

The MEID shall be able to be transmitted over the air upon a request from the network.

The MEID shall be unique and not used for subscription authentication.

The network shall be able to deny service for a given MEID.

Regulatory requirements associated with MEID are a subject of relevant laws and regulations, and relevant technical specifications in the country where equipment is placed on the market.

These guidelines are based on the context of international telecommunications industry cellular standards. It is recommended that systems, which are based on the industry standards and which are deployed should follow these guidelines. This is to facilitate international roaming and to minimize fraud.

For the purpose of these assignment guidelines, the MEID is entered into the approved MS by the manufacturer of the MS. The MEID is composed mainly of two basic components, the manufacturer's code and the serial number. These guidelines specify the procedure to be followed pertaining to the acquisition, transfer, return and regulation of the MEID Manufacturer's (MFR) Codes.

These assignment guidelines pertain, to all segments of the MEID. The Global Hexadecimal administrator manages all segments of the MEID, but directly administers only the MEID MFR Code segment. The manufacturer, to which the MEID MFR Code is assigned, directly administers the remaining segment of the Serial Number.

These guidelines were developed by the consensus of representatives of entities within the wireless sector of the international telecommunications industry.

These guidelines apply globally; however, they do not supersede the regulations, procedures or requirements of any appropriate legal or regulatory authority.

A MS which has an MEID compliant operating mode must have an MEID in accordance with these guidelines.

- Equipment identifiers for non-MEID operating modes (e.g., ESN, UIM-ID) are not addressed here. [3.3, 3.4]
- If a multi-mode MS supports one or more 3GPP2 defined radio interfaces (e.g., analog, CDMA) and utilizes a single mobile equipment identifier, that identifier shall conform to the MEID guidelines.
- If a multi-mode MS supports both 3GPP2 and 3GPP defined radio interfaces (e.g., CDMA, GSM), the mobile equipment identifier shall conform to the IMEI guidelines [3.2].

3.0 REFERENCES

Normative

3.1	3GPP2 S.R0048-A	3G Mobile Equipment Identifier (MEID)	September, 2003
3.2	GSMA PRD TW.06 Version 3.2.0	IMEI Allocation and Approval Guidelines	September 2002
3.3	3GPP2 S.R0034-0 Version 2.0	UIM ID Manufacturer's Code Assignment Guidelines and Procedures	August 2002
3.4	TIA Version 1.8	ESN Manufacturer's Code Assignment Guidelines and Procedures	December 2002
3.5	3GPP2 SC.R4001-0	Global Equipment Numbering Administrative Procedures	February 2004

Informative

3.6	Numbering JEM	Mobile Equipment Numbering JEM Final Report and Conclusions	April 2002
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4.0 ASSUMPTIONS AND CONSTRAINTS

These guidelines are based on the following assumptions and constraints:

- 4.1 These guidelines and procedures should provide the greatest latitude to manufacturers of MSs while permitting the effective and efficient management of a finite resource.

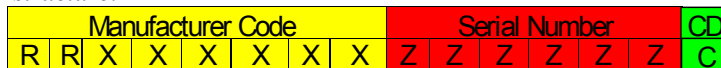
- 1 4.2 The coordinating function of the GEID administration is performed by the Global MEID
2 Administrators. [Ref. 3.5]
3
- 4 4.2.1 The function of the IMEI Global Decimal Administration (GDA) is performed by an
5 appointed IMEI Administrator.
6
- 7 4.2.2 The function of the MEID Global Hexadecimal Administration (GHA) is performed by
8 the 3GPP2 appointed MEID Administrator.
9
- 10 4.3 The guidelines and procedures for MEID assignment as set forth in this document remain in effect
11 until there is change as a result of 3GPP2 standards development or regulatory policy (where
12 applicable) direction to change them.
13
- 14 4.4 These guidelines do not describe the method by which MEIDs are transmitted across and
15 processed by networks. Network interworking arrangements are contained in other standards,
16 documents, or business agreements.
17
- 18 4.5 The applicant/assignee of an MEID MFR Code(s) should provide evidence of authorization, if
19 required, to produce MSs.
20
- 21 4.6 The GHA may appoint other regional entities as a regional reporting body with GHA assignment
22 authorization.
23
- 24 4.7 Without authorization of 3GPP2, the Administrator shall take no action and the Administration
25 and Implementation of MEID shall have no negative impact on the application and use of legacy
26 equipment and identifiers i.e., ESN, UIM.
27
28
29

30 5.0 MEID FORMAT AND FUNCTION

- 31 5.1 The MEID is a 56-bit identifier structure, which is assigned to the MS, is expected to be
32 compatible between 3GPP and 3GPP2.
33
- 34 5.2 Each MS is assigned a unique MEID.
35
- 36 5.3 The MEID identifies the manufacturer of the MS.
37
- 38 5.4 MEID Structure and Format
39
40
41

42 The MEID structure is hexadecimal encoded, and syntactically consistent with the IMEI structure.
43 This structure does not utilize all of the fields in the exact semantic manner as is currently utilized
44 with the IMEI. The numbering space is allocated in a manner that does not impact the current
45 users of the decimally encoded IMEI. The MEID structure is also consistent with the existing
46 ESN allocation scheme using 24-bit Serial Numbers.
47

48 *The MEID structure:*



52
53 *All of these fields are defined as hexadecimal values with the following valid range.*

- 54 RR - valid range A0 ... FF – globally administered
- 55 XXXXXX - valid range 000000... FFFFFFFF
- 56
- 57 ZZZZZZ - valid range 000000... FFFFFFFF
- 58 C - valid range 0... F – not transmitted over the air
- 59
- 60

Note: The distribution of the XXXXXX field may be dependent on the number of administration bodies. In the case of a small number of administration bodies, the entire XXXXXX may be allocated to identify a mobile manufacturer. In the case of a large number of regional administration bodies, the XXXXXX may be distributed to indicate the regional administration body and the mobile manufacturer, for example XXXX, XX.

5.4.1 Numbering Capacity

The MEID numbering capacity can be computed as follows:

There are 96 codes when RR is restricted to the A0 .. FF range. Note that additional 60 codes could be made available in the ranges of 0A .. 0F, 1A .. 1F, 2A .. 2F, ... , 9A .. 9F, subject to industry agreement. [3.5]

There are 16,777,215 codes in the XXXXXX field.

There are 16,777,215 Serial Numbers in ZZZZZZ field.

The total numbering capacity exceeds 281×10^{12} (281 trillion) per RR code.

The current ESN numbering space consists of:

256 Manufacturer Codes (8-bit).

16,777,215 Serial Numbers per Manufacturer Code.

The MEID provides for a raw numbering space that is 65,535 times the size of the existing ESN numbering space per RR code. The total numbering space using 96 RR codes represents a space that is 6,291,360 times as large as the current ESN numbering space.

5.5 The MEID does not specify the frequency band, air-interface technology or supported service associated with the MS.

6.0 GEID SPECIFIC GDA and GHA ASSIGNMENT GUIDELINES COORDINATION

Except as provided for Sections 6.3, 6.4, 6.5 of the Global Numbering document Ref [3.5], the working procedures and/or terms of reference of the GDA and GHA take precedence over the Global Numbering Administration Procedures (see Ref. [3.5] Section 3.3).

6.1 GHA shall be responsible for allocation of numbering space in the range: D0 = {'A' .. 'F'}; D1, ... , D13 = {'0' .. 'F'}. Requests for number allocation for terminals designed to comply with 3GPP2 specifications shall be fulfilled from this range by GHA or a regional body reporting to GHA. The total size of numbering space for this block exceeds 27.0×10^{15} (see Ref. [3.5] Section 6.3).

6.2 GDA shall be responsible for allocation of numbering space in the range: D0, ... , D13 = {'0' .. '9'}, excluding the numbering space reserved for multimode terminals allocated to GHA, as described in clause 6.5. Requests for number allocation for terminals designed to comply with 3GPP specifications shall be fulfilled from this range by GDA or a regional body reporting to GDA. The total size of numbering space for this block (assumes initial allocation to GHA per item 6.5 below) is 99.0×10^{12} . Part of this space has been allocated (see Appendix A of [1] of Global Numbering document). The GDA should make an inventory of the currently available numbering space (see Ref. [3.5] Section 6.4).

6.3 For the sole use with terminals designed to comply with both 3GPP and 3GPP2 specifications, a numbering space within the decimal range shall be delegated to GHA. GHA

1 shall use the same IMEI TAC format as GDA for these allocations. There shall be an initial
 2 allocation described as follows: [D0, D1] = '99', D2, ..., D13 = {'0', ..., '9'}. This initial
 3 numbering space shall be expandable in decrementing values of [D0, D1] to '98', '97', etc.
 4 Expansion of this initial space shall be the subject of written agreement between GDA and GHA.
 5 The expansion agreements shall be recorded in the allocation history attached to this document
 6 (Appendix A of Global Numbering document). The total size of numbering space of this initial
 7 block allocation to GHA is 1.0×10^{12} (see Global Numbering doc. Sect.6.5).
 8
 9
 10
 11
 12

13 7.0 ASSIGNMENT PRINCIPLES

14
 15
 16 7.1 MEID MFR Codes shall be assigned to permit the most effective and efficient use of a finite
 17 resource in order to maximize the existing allocated resource inventory and to defer, as long as
 18 practical, the need to request additional or replacement for MEID MFR Code resources.
 19

20
 21 7.2 Upon application, the MEID administrator assigns one MEID MFR Code for each valid MS
 22 manufacturer.

23
 24 7.3 An MEID MFR Code shall not be simultaneously assigned to more than one MEID manufacturer.
 25 An unused MEID MFR Code that is recovered or returned from the previous assignee may be
 26 reassigned to another manufacturer without limitation. A partially used MEID MFR Code may be
 27 reassigned to another manufacturer for use with limited serial numbers if a significant block of
 28 serial numbers associated to that MEID MFR Code remained unassigned.

29
 30 7.4 MEID Serial Numbers are assigned by manufacturers to their produced MSs. An MEID is unique
 31 to a single MS. The manufacturer exercises due diligence in the design and manufacture of the
 32 MS to ensure tamper resistance of the factory set MEID outside of place of manufacture and
 33 authorized service centers.

34
 35 7.5 MEID MFR Codes are a global public resource. The assignment of any MEID MFR Code does
 36 not imply ownership of the resource by either the entity to which it is assigned or by the entity
 37 performing the administrative function.

38
 39 7.6 Should a manufacturer transfer production of a type of MS to a different manufacturer, then the
 40 use of the assigned MEID MFR Code is transferable to the new manufacturer. See Form D.

41
 42 7.7 The MEID administrator:

- 43 • Assigns MEID MFR Codes in a fair, timely and impartial manner to any applicant that meets
 44 the criteria for assignment.
- 45
 46 • Assigns MEID MFR Codes on a first-come, first-served basis from the available pool of
 47 unassigned MEID MFR Codes. When all of the codes have been assigned, codes that had
 48 been assigned but never used and subsequently recovered by the MEID Administrator shall
 49 be assigned.
- 50
 51 • Makes all assignments based on the procedures in these guidelines.
- 52
 53 • Shall treat sensitive information received from applicants as proprietary and confidential,
 54 and not share with non-administrator personnel.
 55

56 7.8 Information that is requested of applicants in support of an MEID MFR Code application shall be
 57 uniform and kept to a minimum.
 58
 59
 60

- 7.9 Assigned MEID MFR Codes should start to be deployed as soon as possible, but no later than twelve months after assignment. If the assignee can demonstrate that an assigned MEID MFR Code has not been deployed solely due to delays beyond its control, the time period can be extended for up to 90 days. At the discretion of the administrator, three additional 90-day extensions may be granted.
- 7.10 An entity, which is denied an MEID MFR Code assignment or extension under these guidelines has the right to appeal that decision.
- 7.11 Entities applying for assignment of MEID MFR Code(s) (see Ref. [3.5] Section 3.3), or entities to which MEID MFR Code(s) have been assigned shall comply with these guidelines.
- 7.12 An MEID MFR Code(s) recovered or returned to the administrator for reassignment may remain dormant. If no MSs have been manufactured by the previous assignee, the code(s) may be reissued. If, however, MSs have been produced and sold, the code(s) may be blocked from future use. As the need for MEID MFR Codes becomes critical (e.g., only 10% of available codes remain), codes, which have been partially used by a previous assignee may be re-assigned with serial number range limitations. That is, if the previous assignee had only produced a limited number of MSs using a contiguous serial number range, the present assignee may use the code to produce MSs with serial numbers that do not duplicate those of the previous assignee. It should be recognized that the re-issue of an MEID MFR Code is considered an exceptional measure anticipated to be invoked only during MEID resource exhaust timeframes.
- 7.13 There may be an administrative fee associated with an application for an MEID MFR Code(s).

8.0 CRITERIA FOR MEID ASSIGNMENT

The assignment criteria in this section should be considered by a potential MEID MFR Code applicant before submitting an MEID MFR Code application and is used by the MEID administrator in reviewing and processing an MEID MFR Code application:

- 8.1 Applicants for an MEID Manufacturer Code must satisfy the Administrator that they intend to place equipment on the market. (e.g., FCC Identifier and Grant Date).
- 8.2 An MEID MFR Code is only assigned by the administrator upon receipt and approval of a completed *Form A – MEID Manufacturer’s Code Application*.
- 8.3 Form A should indicate the anticipated number of MFR Codes initially required. This information is held confidential by the MEID Administrator.

9.0 RESPONSIBILITIES OF MEID MANUFACTURER’S CODE APPLICANTS & ASSIGNEES

Entities requesting MEID MFR Code assignments shall comply with the following:

- 1 9.1 MEID MFR Code applicants and assignees must meet all conditions specified in these guidelines.
 2 Copies of the guidelines may be obtained from the MEID Administrator or overseeing industry
 3 body.
 4
- 5 9.2 Applicants must apply in writing to the MEID Administrator by completing *Form A - MEID MFR*
 6 *Codes Application*. Copies of all required forms are included in these guidelines.
 7
- 8 9.3 The MEID shall be set by the manufacturer. The manufacturer shall make every reasonable effort
 9 for the MEID to be not alterable, capable of duplication or removable outside of an manufacturer
 10 authorized service center, and any attempt to remove, tamper with, or change the MEID host
 11 component or operating system as originally programmed by the manufacturer shall render the
 12 MS inoperative. Where a dedicated MEID device is utilized, it must be permanently attached to
 13 the device that reads the MEID and the path to the device must be secured. The device shall not
 14 be removable and its pins shall not be accessible. The MEID is incorporated in an MS module,
 15 which is contained within the MS equipment. The MEID shall not be changed after the ME's final
 16 production process. It shall resist tampering, i.e. manipulation and change, by any means (e.g.
 17 physical, electrical and software). The manufacturer who is also responsible for ascertaining that
 18 each MEID is unique and keeping detailed records of produced and delivered MS should carry out
 19 implementation of each individual module.
 20
- 21 9.4 MEID MFR Code assignees shall:
 22
- 23 9.4.1 Assign a different MEID to each MS, within the range allocated to the manufacturer.
 24
- 25 9.4.2 Assign and efficiently manage the Serial Number associated with the assigned MEID
 26 MFR Codes. Maintain up-to-date and accurate assignment records that match MEIDs
 27 of their produced MSs. These records may be required for audit purposes.
 28
- 29 9.4.3 Inform the MEID administrator of changes in the information associated with an
 30 MEID MFR Code assignment by using *Form D – Request for Change in MEID*
 31 *Assignment Information*. Changes may occur because of the transfer of an MEID
 32 MFR Code(s), through merger or acquisition, to a different MS manufacturer. The
 33 initial assignee of the MEID MFR Codes involved in a transfer occurring through
 34 merger, acquisition or other means must immediately inform the MEID Administrator
 35 when such a change becomes effective. Timely submission of change information
 36 enables the MEID Administrator to maintain accurate MEID MFR Code assignment
 37 records.
 38
- 39 9.4.4 Participate in review of the MEID process, when requested.
 40
- 41 9.4.5 Deploy any MEID MFR Code, assigned either directly by the administrator or
 42 obtained through merger or acquisition, within the time period specified. Inform the
 43 MEID Administrator of MEID MFR Code deployment by submitting *Form C – MEID*
 44 *Use Declaration*.
 45
- 46 9.4.6 Apply to the MEID Administrator for an extension if the deployment requirement
 47 cannot be met and the MEID MFR Code is still required.
 48
- 49 9.4.7 Return to the Administrator, using *Form F – MEID Assignment Return*:
 50
- 51 • Any MEID MFR Code no longer needed for the production of MSs,
 - 52 • Any MEID MFR Code not deployed within the time period specified, including
 53 extensions, or
 - 54 • Any MEID MFR Code not used in conformance with these assignment
 55 guidelines.
 56
- 57
- 58 9.4.8 Return to the MEID Administrator, on an annual basis on the anniversary date of the
 59 issuance of the MEID MFR Code, a duly completed and signed *Form G*.
 60

10.0 RESPONSIBILITIES OF THE MEID ADMINISTRATOR

The role of the MEID Administrator is to manage the entire MEID resource and to directly administer the MEID MFR Code segment of the MEID. In this context, the MEID Administrator shall:

- 10.1 Provide to the industry general and specific information on the structure, proper use and management of MEIDs for MSs meeting regulatory requirements.
- 10.2 Provide copies of these guidelines and forms to MEID MFR Code applicants and assignees, and assist them in completing the required forms.
- 10.3 Review and process MEID MFR Code applications as follows:
 - 10.3.1 Review the application to determine if all requested information is provided and credible. If not, return the application to the applicant requesting that any deficiency be corrected.
 - 10.3.2 Inform applicants of the status of their requests using *Form B – MEID Manufacturer’s Code Application Disposition*. There are two possible dispositions: granted, or additional information required. Notify the applicant in writing of the disposition within thirty days from receipt of Form A. The response includes:
 - If granted, the specific MEID MFR Code(s) assigned,
 - If additional information is required, the specific information required.
 - 10.3.3 Keep confidential all information relative to anticipated volume of MSs and/or market launch details provided by applicant.
- 10.4 Use the following MEID MFR Code assignment procedures:
 - 10.4.1 The Administrator should assign MEID MFR Codes in numerical sequence.
 - 10.4.2 There may be considerations or limitations on the part of the manufacturer that require a specific assignment or preclude them being able to use the next consecutive MEID MFR Code assignment. These exceptions are set forth below and in the addenda (if any) to this document.
 - 10.4.3 The following MEID MFR Code(s) are not available for MFR Code assignment due to previous assignment and reservation (also see Section 19) e.g., test mobiles, expansion space:

Code xxxxxxxx (Not available)
 - 10.4.4 MEID MFR Code applicants eligible for multiple MEID MFR Codes may request that such codes be assigned in the next available block of numerically sequential codes (excepting those codes reserved or unavailable for assignment, pursuant to Section 9.4.2 or any subsequent addenda to these guidelines). In such cases, a separate Form A should be submitted for each MEID MFR Code required, along with a cover letter requesting their assignment in a sequential block.
- 10.5 Maintain accurate and current MEID MFR Code assignment records. Update the records as required to respond to requests for changes in assignment information reported by MEID MFR Code assignees. Respond to these requests within thirty days using *Form E – Confirmation of Change of MEID Assignment Information*.

- 1 10.6 Publish, at least quarterly, via the agreed medium, a list of assigned MEID MFR Codes. The list
 2 includes the MEID MFR Code number, the manufacturer to which the code is currently assigned,
 3 and the entity contact and number. In the case of a code that was reassigned after having been
 4 partially used by previous assignee(s), the list shall also identify the serial number range
 5 restrictions placed on the current assignee along with the serial number range used (or presumed
 6 to have been used) by each previous assignee. Track the number of MEIDs assigned and the
 7 assignment rate and report this data regularly to the applicable Standards Development
 8 Organizations.
 9
- 10 10.7 Investigate any MEID MFR Code that has not started to be deployed within the required time
 11 frame, and issue extensions if appropriate. Notify the appropriate Engineering Committee if an
 12 assignee fails to start to deploy an assigned MEID MFR Code within two extensions.
 13
- 14 10.8 Reclaim assigned MEID MFR Code(s), as needed.
- 15
- 16 10.9 Direct the MEID conservation program and conduct periodic reviews, as required, of MEID MFR
 17 Code assignee records.
 18
- 19 10.10 Inform the wireless telecommunications industry, via the agreed method, of any revisions to these
 20 guidelines.
 21
- 22 10.11 The term of the MEID Administrator shall be for one (1) year from the date of appointment by the
 23 overseeing industry body.
 24
 25
 26
 27
 28

29 11.0 MEID MANUFACTURER'S CODE RETURN AND RECLAMATION 30 PROCEDURES 31

32 33 11.1 Assignee responsibilities: 34

35 Assignees shall return MEID MFR Code(s) that are no longer required, not deployed, or not used
 36 in conformance with these assignment guidelines. In addition, assignees shall return the Code(s)
 37 and an indication of the range of Serial Numbers that have been used if the manufacturer has not
 38 manufactured a MS for at least one year.
 39

40 Assignees shall cooperate with the MEID Administrator in carrying out its reclamation and review
 41 responsibilities.
 42

43 44 11.2 Administrator responsibilities:

45 The MEID Administrator shall contact any MEID MFR Code assignee identified as not having
 46 returned to the Administrator, for reassignment, any MEID MFR Code(s) no longer required, not
 47 deployed, or not used in conformance with these assignment guidelines.
 48

49 The Administrator shall first seek clarification from the assignee regarding any alleged non-use or
 50 misuse. If the assignee provides an explanation satisfactory to the administrator, and in
 51 conformance with these assignment guidelines, the MEID MFR Code remains assigned. If no
 52 satisfactory explanation is provided, the Administrator is request a letter from the assignee
 53 returning the assigned code(s) for reassignment. If a direct contact cannot be made with the
 54 assignee to affect the above process, a registered letter is sent to the assignee address of record
 55 requesting that they contact the Administrator within thirty days regarding the alleged code non-
 56 use or misuse. If the letter is returned as non-delivered, the Administrator shall advise the
 57 overseeing industry body i.e., the body that Administrator reports to (e.g. ESN Administrator
 58
 59
 60

reports to TIA). The Administrator shall advise that the code is made available for reassignment, unless the forum advises otherwise within thirty days.

The MEID Administrator shall refer to the overseeing industry body any instance, which is not resolved through the procedures in the paragraph above.

11.3 The overseeing industry body responsibilities:

- Accept all referrals of alleged non-use or misuse of MEID MFR Codes from the MEID Administrator or any other entity,
- Investigate the referral,
- Review referrals in the context of these assignment guidelines,
- Attempt to resolve the referral, and
- Direct the MEID Administrator regarding the action, if any, to be taken (If the action to be taken is not in conformance with the existing guidelines, the overseeing industry body initiates the guidelines revision process), or
- Refer the case to the appropriate regulatory body for resolution if the overseeing industry body cannot reach consensus on a resolution, or
- Refer the case to the appropriate regulatory body if the MEID MFR Code assignee does not comply with the consensus resolution developed by the overseeing industry body.
- Material changes or exceptions to these procedures should occur with industry consensus reflected in the change process, and in accord with Global Administration Procedure evolution.

12.0 MEID RESOURCE CONSERVATION AND ASSIGNMENT REVIEWS

12.1 Assignment and management of MEID resources are undertaken with the following conservation objectives:

- To efficiently and effectively administer/manage a limited resource through code conservation, and
- To eliminate or delay the potential for MEID exhaustion.

The process to achieve these objectives should not impede the introduction of competitive wireless services which use MEIDs.

12.2 To promote the efficient and effective use of numbering resources, reviews of MEID MFR Code assignments may be performed to ensure consistent compliance with these guidelines.

12.3 The MEID Administrator tracks and monitors MEID MFR Code assignments and assignment procedures to ensure that all segments of the MEIDs are being used in an efficient and effective manner. Ongoing administrator procedures that foster conservation shall include, but not be limited to, the following:

- An active reclamation program to reclaim unused or misused MEID MFR Code,

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- Strict conformance with these guidelines by those assigning MEID MFR Codes and MEID Serial Numbers,
 - Appropriate and timely modifications to these guidelines to enhance text that may have allowed inefficient use of MEID MFR Codes,
 - Periodic specific and random reviews of assignments and assignment procedures.
- 12.4 The MEID Administrator may initiate a review of an MEID MFR Code assignee's assignment records. The review may be precipitated by a complaint from outside the Administrator's organization or by the Administrator. The review shall be initiated if a request for an MEID MFR Code assignment is received from a manufacturer that already has an MEID MFR Code assignment. The purpose of a review is to verify the MEID MFR Code assignee's compliance with the provisions set forth in these guidelines. The review is performed by the MEID Administrator or by a neutral third party acceptable to the reviewed party and the Administrator.
- 12.4.1 These reviews are conducted at the MEID MFR Code assignee's premises or at a mutually agreed to location and at a mutually agreed to time.
- 12.4.2 The MEID Administrator shall not copy or remove the information from the premises nor disclose the information to non-MEID Administrator personnel.
- 12.4.3 The MEID Administrator reviews the following information to ensure conformance with these guidelines and the proper use of the MEID resource:
- Verification that not more than one MEID MFR Code is assigned unless near serial number exhaustion has been reached under all but one of the assigned MEID MFR Codes, or, if a new MEID MFR Code assignment has been requested, verification that near serial number exhaustion has been reached under all assigned MEID MFR Codes. However, a manufacturer can request the assignment of multiple MEIDs if that manufacturer can certify that they reasonably expect to exhaust all their assigned MEIDs within six months of issuance.
 - Verification of assignment for each working MEID MFR Code, (e.g. declaration from manufacturer)
 - Date of assignment of each working MEID MFR Code,
 - Implementation date of each working MEID MFR Code,
 - Indication of MEID Serial Number assignment to mobile stations, and
 - Status and status date of each MEID MFR Code unavailable for assignment; *i.e.*, MEID MFR Codes reserved, aging, pending and/or, suspended.
- 12.5 Review results should be used to identify and recommend to the overseeing industry body specific corrective actions that may be necessary. Examples of specific corrective actions, which may be proposed are as follows:
- Modifications to these assignment guidelines to reflect the specific circumstance revealed by the review,
 - Additional training for MEID MFR Code assignees concerning the assignment guidelines,
 - Return of assigned MEID MFR Code,
 - Requirements for supporting documentation of future MEID MFR Code requests in non-compliant situations, or

- Modifications to the process in which records are maintained or MEID MFR Codes are assigned. 1
- 12.6 Review results with respect to MEID MFR Code assignee information and/or recommended MEID MFR Code assignee process modifications shall be treated on a proprietary and confidential basis. 2
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- 12.7 Failure to participate or cooperate in a review shall result in the activation of MEID MFR Code reclamation procedures. 4
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- 13.0 MEID EXHAUSTION CONTINGENCY 15
- 13.1 When 75% of all the available MEID MFR Codes have been assigned, or assignments are exceeding 10% of the resource per year, the MEID Administrator shall inform the overseeing industry body. 16
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- 13.2 When the MEID Administrator informs the overseeing industry body that the MEID MFR Codes are approaching exhaustion, the overseeing industry body: 21
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 - Conducts a review of current MEID MFR Codes assignments to ensure that efficient MEID MFR Codes utilization is in effect, and, if not, 25
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 - Recommends additional procedures to be initiated to effect more efficient MEID MFR Codes utilization, or if efficient utilization is in effect, 27
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 - Makes a determination of the most efficient method of expanding the MEID keeping in mind the requisite lead time required to adequately address the network elements which utilize the MEID. 29
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- 13.3 Using data provided by the overseeing industry body, the wireless industry shall undertake to specify the desired method and time frame needed to implement the proposed changes in the MEID. There should be concurrence from all disciplines in the wireless industry as to the method and time frame for implementation of a replacement for MEID MFR Codes. 34
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14.0 MAINTENANCE OF GUIDELINES 43 44

It may be necessary to modify the guidelines periodically to meet changing and unforeseen circumstances. The administrator, any entity in the wireless telecommunications sector or the appropriate wireless industry forum, may identify the need for guidelines modification. When need for modification is identified by other than the forum, the identifying entity submits the modification issue to the forum. The forum coordinates the modification process. Questions or concerns regarding the maintenance of the guidelines may be directed to: 45
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Engineering Committee TR-45 MEID Global Hexadecimal Administrator 52
c/o Telecommunications Industry Association 53
2500 Wilson Boulevard, Suite 300 54
Arlington, VA 2201-3834 USA 55
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Phone: +1 703-907-7700 58
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Fax: +1 703-907-7728

15.0 APPEALS PROCESS

Disagreements may arise between the MEID Administrator and MEID applicants or assignees in the context of the administration and management of MEIDs and the application of these guidelines. In all cases, the MEID Administrator and MEID applicants/assignees shall make reasonable, good faith efforts to resolve such disagreements among themselves, consistent with the guidelines, prior to pursuing any appeal. Appeals may include, but are not limited to, one or more of the following situations:

- The MEID applicant/assignee shall have the opportunity to resubmit the matter to the Administrator for reconsideration with or without additional input.
- Guidelines interpretation or clarification questions may be referred to the Industry MEID arbitration committee as arranged by the overseeing industry body for resolution. Unless otherwise mutually agreed by the parties, these questions shall be submitted in a generic manner protecting the identity of the appellant.

Reports on any resolution resulting from the above situations, the content of which is mutually agreed upon by the involved parties, and kept on file by the MEID Administrator. At a minimum, the report contains the final disposition of the appeal; e.g., whether or not an MEID was assigned.

16.0 GLOSSARY

3GPP - Third Generation Partnership Project

3GPP2— Third Generation Partnership Project Two

Assignee - The entity to which an IMEI, MEID, UIM or ESN has been assigned for the manufacture of mobile stations.

CEIR - Central Equipment Identity Register

CMRS - Commercial Mobile Radio Service. A mobile service (or functional equivalent) that is (1) provided for profit, (2) an interconnected service, and (3) available to the public, or to such classes of eligible users as to be effectively available to a substantial portion of the public.

GDA - Global Decimal Administrator

GHA - Global Hexadecimal Administrator

GEID - Global Equipment Identifier encompasses both the GDA and GHA assignable numbering range for coordinated global roaming and harmonization between 3G technologies as a universal mobile equipment identifier.

Conservation - Consideration given to the efficient and effective use of a finite resource in order to minimize the need to expand its availability while at the same time allowing the maximum flexibility in the introduction of new services, capabilities and features.

ESN - The Electronic Serial Number which uniquely identifies the mobile station.

<i>IMEI</i> - International Mobile Equipment Identity, which uniquely identifies the mobile station	1
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<i>ME</i> - Mobile Equipment. (See also Mobile station)	3
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<i>MEID</i> - Mobile Equipment Identity, which uniquely identifies the mobile station	5
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<i>Mobile station</i> - Interface equipment used to terminate the radio path at the user side. The mobile station contains an Electronic Serial Number and other identification information, either a Mobile Identification Number (MIN) or an International Mobile Station Identification (IMSI).	7
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<i>Multi-Mode MS</i> - Mobile Station designed to operate according to more than one air interface or Network specification.	11
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<i>Overseeing Industry body</i> - The body that the MEID Administrator reports to (e.g. ESN Administrator reports to TIA).	14
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<i>Regulatory Approved Licensed two-way CMRS service provider</i> - Any entity that is authorized, as appropriate, by local, state, or federal regulatory authorities to provide two-way mobile stations to the public.	17
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<i>Serial Number</i> - The portion of the MEID or IMEI that uniquely identifies the MS within the Manufacturer code allocation space.	21
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<i>UIM</i> - User Identification Module	24
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17.0 REVISION HISTORY

<i>Version 1.0</i> – January 7,2003. Initial Draft CommFlow Resources contribution release.	29
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<i>Version 1.1</i> – January 28,2003 Draft TR45 ESN/UIM Ad Hoc group contribution release.	32
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<i>Version 1.1.2</i> – April 25,2003 Draft TR45 ESN/UIM Ad Hoc group / TSG-S Numbering Ad Hoc group review of JEM group input comments.	35
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<i>Version 1.1.3</i> – May 6,2003 Draft TR45 ESN/UIM Ad Hoc group / TSG-S Numbering Ad Hoc group final review including JEM group input comments.	39
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<i>Version 1.1.4</i> – May 9,2003 Draft TR45 ESN/UIM Ad Hoc group / TSG-S Numbering Ad Hoc group editorial review. May 12,2003 Sect.19 table decimal value correction.	42
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	44
<i>Version 1.1.5</i> – May 23,2003 Draft 3GPP2 SC SDO review version 1.1.4 now includes Sect.6.3 which was inadvertently omitted.	45
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<i>Version 1.1.6</i> – December 3,2003 Draft 3GPP2 SC SDO pre-publication S.R0089-0 version	48
	49
<i>Version 1.0</i> – February, 2004 S.R0089-0 version 1.1.6 changed to 3GPP2 SC.R4002-0 publication	50
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18.0 MEID ADMINISTRATIVE REPORT INFORMATION

The MEID administrative report will be posted and found at www.tiaonline.org

19.0 MEID MANUFACTURER'S CODE ASSIGNMENT

1 The MEID administrative code assignment information will be posted and found at www.tiaonline.org

2
3 The headings for this table indicate the following:

4
5 Manufacturer assignment indicates the manufacturer to whom the range has been assigned.

6
7 Manufacturer code hexadecimal range indicates the range of serial numbers including the manufacturer
8 code assignments made by the GHA MEID Administrator.

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11 (The following table is an example extracted from a recent GHA MEID Administrator's Report distributed
12 prior to the revised Assignment Guidelines and Procedures approved version).

Manufacturer Code		Manufacturer (list manufacturer name or regional administration body and contact information when allocated)
Hexadecimal	Decimal	
A0000000	00000000	Reserved for test / prototype mobiles allocated in small quantities
A0000001	00000001	Available for allocation to regional administration bodies or mobile manufacturers
--->	--->	Available for allocation to regional administration bodies or mobile manufacturers
FFFFFFFE	4,294,967,294	Available for allocation to regional administration bodies or mobile manufacturers
FFFFFFF	4,294,967,295	Reserved

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20.0 MEID APPLICATION AND RELATED FORMS PACKAGE

The forms in this package are used for communication between the MEID Administrator and applicants for and assignees of these resources. Forms included in this package are:

Form A – Mobile Equipment Identifier (MEID) Application

Applicants complete, sign, and return this form to apply for an MEID.

Form B – Mobile Equipment Identifier (MEID) Application Disposition

The MEID GHA Administrator uses this form to notify the applicant of the outcome of his/her application, which may be a code assignment, denial, or a request for additional clarifying information.

Form C – Mobile Equipment Identifier (MEID) Use Declaration

The recipient of an Mobile Equipment Identifier (MEID) assignment uses this form to notify the MEID Administrator that the assigned code has been deployed.

Form D – Request for Change in Mobile Equipment Identifier (MEID) Assignment Information

Mobile Equipment Identifier (MEID) assignees use this form to notify the MEID Administrator of a change in any of the assignment information; for example, a change in the name, address, or phone number of the contact person in the company holding the Mobile Equipment Identifier (MEID). As a more complex example, this form should also be used to record the transfer of a Mobile Equipment Identifier (MEID) to a new company, as might happen as a result of a merger or acquisition.

Form E – Confirmation of Change in Mobile Equipment Identifier (MEID) Assignment Information

The MEID Administrator uses this form to acknowledge a change initiated by a Mobile Equipment Identifier (MEID) assignee through submission of Form D.

Form F – Mobile Equipment Identifier (MEID) Assignment Return

Mobile Equipment Identifier (MEID) assignees use this form to return to the pool any Mobile Equipment Identifier (MEID) which are no longer required.

Form G – Certification of Compliance with MEID Guidelines

Mobile Equipment Identifier (MEID) assignees use this form to certify compliance with the MEID Assignment Guidelines and Procedures.

Return completed forms to:

Engineering Committee TR-45 MEID Global Hexadecimal Administrator
 c/o Telecommunications Industry Association
 2500 Wilson Boulevard, Suite 300
 Arlington, VA 2201-3834 USA
 Phone: +1 703-907-7700
 Fax: +1 703-907-7728

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FORM A – MOBILE EQUIPMENT IDENTIFIER (MEID) APPLICATION

Entity requesting assignment:

General description of the mobile station to be provided:

.....

.....

Number of MFR Code blocks required

Regulatory Agency Reference Code (if applicable).....



Do special considerations apply or an addendum?

YES NO

If YES, please specify the special consideration needed

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The MEID shall be set by the manufacturer. The manufacturer shall make every reasonable effort for the MEID to be not alterable, capable of duplication or removable outside of an manufacturer authorized service center, and any attempt to remove, tamper with, or change the MEID host component or operating system as originally programmed by the manufacturer shall render the MS inoperative. Where a dedicated MEID device is utilized, it must be permanently attached to the device that reads the MEID and the path to the device must be secured. The device shall not be removable and its pins shall not be accessible. The MEID is incorporated in an MS module, which is contained within the MS equipment. The MEID shall not be changed after the ME’s final production process. It shall resist tampering, i.e. manipulation and change, by any means (e.g. physical, electrical and software). The manufacturer who is also responsible for ascertaining that each MEID is unique and keeping detailed records of produced and delivered MS should carry out implementation of each individual module.

FORM A – MOBILE EQUIPMENT IDENTIFIER (MEID) APPLICATION (CONTINUED)

Contact name:

Company:

Address:

Room:

City, State, ZIP:

Country:

Phone: Fax: E-mail:

Signature below indicates that the applicant:

- Certifies the accuracy of the information provided in this application,
- Commits to deploy any assigned MEID Manufacturer’s Code(s) within the time period specified by the assignment guidelines,
- Certifies that the **MOBILE EQUIPMENT IDENTIFIER (MEID)** Manufacturer’s Code will be used in mobile sets for CMRS,
- Certifies that any required authorization has been secured from the appropriate federal, state, or local regulatory bodies, and
- Understands and agrees that the use of any assigned MEID Manufacturer’s Code(s) in a manner other than in conformance with the assignment guidelines may result in forfeiture.

Authorized name:

Authorized signature:

Date of application:

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FORM A – MOBILE EQUIPMENT IDENTIFIER (MEID) APPLICATION (CONTINUED)

There may be a non-refundable application fee for each MEID Manufacturer’s Code requested and allocated by the administrator. Pricing for applications are set by the MEID Global Hexadecimal Administrator. Please refer to the TIA website for the current fee structure. Payment of the non-refundable application fee is:

by enclosed check (made payable to Telecommunications Industry Association) or

by credit card (mark one): MasterCard

Visa

American Express

Credit card number _____

Expiration date _____

Signature of card holder _____

Printed name of card holder _____

Dated: _____

Return completed application forms to:

Engineering Committee TR-45 MEID Global Hexadecimal Administrator
c/o Telecommunications Industry Association
2500 Wilson Boulevard, Suite 300
Arlington, VA 2201-3834 USA

Phone: +1 703-907-7700

Fax: +1 703-907-7728

**FORM B – MOBILE EQUIPMENT IDENTIFIER MANUFACTURER’S CODE APPLICATION
DISPOSITION**

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The MEID Administrator has reviewed your application filed for assignment of an MEID Manufacturer’s Code. The box checked below indicates the action taken:

Your application has been granted. The MEID Manufacturer’s Code(s) assigned for your use is/are:

The assignment is effective as of:

The information recorded for this assignment is shown below. Please notify the MEID Administrator immediately of any errors in or changes to this information.

(Display computer generated assignment information here.)

Your application has not been granted at this time for the following reason(s):

.....

You are entitled to appeal as specified in Section 15 of the assignment guidelines.

The following additional information is needed to process your application:

.....

Authorized name:

Authorized signature:

Date:

FORM C – MOBILE EQUIPMENT IDENTIFIER USE DECLARATION

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By submitting this form, I certify that

MEID Manufacturer's Code:

Assigned to:

Is used effective (date):

Authorized name:

Authorized signature:

Contact information:

Date of this notification:

Return completed application forms to:

Engineering Committee TR-45 MEID Global Hexadecimal Administrator
c/o Telecommunications Industry Association
2500 Wilson Boulevard, Suite 300
Arlington, VA 2201-3834 USA

Phone: +1 703-907-7700
Fax: +1 703-907-7728

FORM D – REQUEST FOR CHANGE IN MOBILE EQUIPMENT IDENTIFIER INFORMATION

Effective (date):

The assignment information for MEID Manufacturer’s Code: should be changed. The changes are described below:

Authorized name:

Authorized signature:

Contact information:

Date of this notification:

Return completed application forms to the:

Engineering Committee TR-45 MEID Global Hexadecimal Administrator
c/o Telecommunications Industry Association
2500 Wilson Boulevard, Suite 300
Arlington, VA 2201-3834 USA

Phone: +1 703-907-7700
Fax: +1 703-907-7728

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**FORM E – CONFIRMATION OF CHANGE IN MOBILE EQUIPMENT IDENTIFIER
ASSIGNMENT INFORMATION**

Your request-dated _____ for change(s) to the assignment information for MEID Manufacturer’s
Code _____ has been processed by the administrator and the changes have been made. Please
verify the revised assignment information below and report any errors or discrepancies to the administrator.

(Display computer generated assignment information here.)

Authorized name:

Authorized signature:

Contact information:

Date of this notification:

Report discrepancies to the:

Engineering Committee TR-45 MEID Global Hexadecimal Administrator
c/o Telecommunications Industry Association
2500 Wilson Boulevard, Suite 300
Arlington, VA 2201-3834 USA

Phone: +1 703-907-7700

Fax: +1 703-907-7728

FORM F – MOBILE EQUIPMENT IDENTIFIER ASSIGNMENT RETURN

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MEID Manufacturer’s Code:

Currently held by:
is no longer required effective (date) and may be returned
to the pool for assignment to another entity.

Serial Numbers used thus far are in the range of _____ to _____.

Authorized name:

Authorized signature:

Contact information:

Date of this notification:

Return completed forms to the:

Engineering Committee TR-45 MEID Global Hexadecimal Administrator
c/o Telecommunications Industry Association
2500 Wilson Boulevard, Suite 300
Arlington, VA 2201-3834 USA

Phone: +1 703-907-7700
Fax: +1 703-907-7728

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FORM G - CERTIFICATION OF COMPLIANCE WITH MEID GUIDELINES

We, _____, certify that MEID Code _____, has been used in accordance
(Assignee)
with all of the terms and provisions set forth in the MEID Guidelines as published by 3GPP2 and posted on
the latter's web site on the date of this certification ("MEID Guidelines"). We further specify that we have
complied in specific with applicable Sections of the MEID Guidelines.

We understand that failure to comply with the MEID Guidelines may result in the forfeiture of the above
MEID Code(s).

Serial Numbers used thus far are in the range of _____ to _____.

Signed: _____

Title: _____

Date: _____

Return completed Form G on an annual basis to:

Engineering Committee TR-45 MEID Global Hexadecimal Administrator
c/o Telecommunications Industry Association
2500 Wilson Boulevard, Suite 300
Arlington, VA 2201-3834 USA

Phone: +1 703-907-7700
Fax: +1 703-907-7728