GLOBAL WIRELESS EQUIPMENT NUMBERING ADMINISTRATION PROCEDURES
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1 PURPOSE AND SCOPE

This document defines administrative guidelines and procedures (“Administration Procedures” in further text) governing coordination of two bodies responsible for high level management and allocation of Equipment Numbering Identifiers (IMEI and MEID), the Global Decimal Administrator (GDA), and Global Hexadecimal Administrator (GHA).

Administration Procedures were developed by the consensus of representatives of entities within the wireless sector of telecommunications industry. Administration Procedures become effective upon recognition and or endorsement by GSMA, EICTA, ARIB, TTC, TIA, CMSA (CWTS), CMCA, TTA, etc.

The detailed management of identifiers within a block allocated to either GDA or GHA, is not within the scope of these Administration Procedures.

2 ASSUMPTIONS

2.1 There shall be a Global Decimal Administrator (GDA) and a Global Hexadecimal Administrator (GHA), or collectively, Global Administrators (GA). GDA and GHA are impartial administrators with clearly defined scope and charter. GDA and GHA shall coordinate the overall allocation of the equipment identifiers. The GA allocate numbers to regional administrators or directly to manufacturers, or both.

2.2 The allocation of identifiers that are administered by the GDA and GHA (division of identifier space between GDA and GHA) is by mutual recognition and/or endorsement by GSMA, EICTA, ARIB, TIA, CWTS, CMCA, etc, as stipulated in this document.

2.3 GDA is the global administrator with the primary responsibility for management and allocation of identifiers for wireless equipment designed to comply with specifications developed by 3GPP. The GSMA currently performs this role and the JEM Group recommends that this should continue.

2.4 GHA is the global administrator with the primary responsibility for management and allocation of identifiers for wireless equipment designed to comply with specifications developed by 3GPP2. Based on the experience of TIA in ESN allocation, the TIA is to act as GHA with recognition and/or endorsement by 3GPP2. The JEM Group also endorses this proposal.

2.5 GDA and/or regional administrators delegated by GDA shall allocate equipment identifiers to manufacturers for equipment designed to comply to 3GPP specifications, and not compliant with 3GPP2 specifications

2.6 GHA and/or regional administrators delegated by GHA shall allocate equipment identifiers to manufacturers for equipment designed to
comply with 3GPP2 specifications, and not compliant with 3GPP specifications.

2.7 Regional administrators shall adopt and abide by these Administration Procedures and the document [3] as a condition of their appointment by GDA or GHA.

2.8 A terminal designed to comply with both 3GPP and 3GPP2 specifications shall contain a single and unique equipment identifier accepted in all modes of operation. This equipment identifier may be allocated by either GDA or GHA.
3 GDA AND GHA PROCEDURES

3.1 The working procedures and/or terms of reference of both the GDA and GHA shall be consistent with these Administration Procedures, and shall contain specific references to it.

3.2 The working procedures and/or terms of reference of both the GDA and GHA shall be consistent with, and not conflict with, each other.

3.3 Except as provided for in Sections 6.3, 6.4, and 6.5 herein, the working procedures and/or terms of reference of both the GDA and GHA take precedence over these Administration Procedures.

4 GENERAL CLAUSES

4.1 The Administration Procedures apply globally, however, they do not override the regulations, procedures, or requirements of any appropriate legal authority or regulatory authority.

4.2 The Administration Procedures become effective immediately upon their approval by industry consensus. They remain in effect until changed by either industry consensus or regulatory policy direction, which may invalidate them.

4.3 Equipment identifiers must be allocated for use as defined in appropriate sections of relevant documents including [1], [2].

4.4 In the event that an issue cannot be resolved within a global administrator, then, as required, the GDA, GHA, and/or industry organisations may facilitate meetings (electronically or face to face) to discuss common problems or objectives with the intention and authority to resolve these issues.

5 NOTATION

The following notational conventions are used in this document:

Unless otherwise noted, hexadecimal notation is used to designate values of equipment identifier digits, e.g., 'A' signifies decimal 10, or binary 1010.

The ordered sequence of IMEI/MEID digits will be designated as [D0 ... D13].

A range of values will be designated as \{V_{\text{MIN}} \ldots V_{\text{MAX}}\}.

6 ALLOCATION GUIDELINES

The following constitutes common administrative guidelines for the allocation of Equipment Identifiers:
6.1 3GPP, 3GPP2, and their constituent SDOs and Market Representation
Partners should reference these guidelines where appropriate.

6.2 Coordination should exist between industry groups through the GDA and GHA to ensure that there is no conflict or overlap between the numbering ranges allocated to any group. The vehicle for such coordination on a global scale between GHA and GDA shall be these Administration Procedures. The vehicle for such coordination within the realms of GDA and GHA are within their domain, and is not subject of these Administration Procedures.

6.3 GHA shall be responsible for allocation of numbering space in the range:
\[ D_0 = \{'A' .. 'F'\}; \quad D_{1} , \ldots , D_{13} = \{'0' .. 'F'\} \]
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 \(27.0 \times 10^{15}\).

6.4 GDA shall be responsible for allocation of numbering space in the range:
\[ D_{0} , \ldots , D_{13} = \{'0' .. '9'\}, \text{excluding the numbering space reserved for multimode terminals allocated to GHA, as described in clause 6.5.} \]
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 \(99.0 \times 10^{12}\). Part of this space has been allocated (see Appendix A of [1].) The GDA must make an initial inventory of the currently available numbering space.

6.5 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 shall use the same IMEI TAC format as GDA for these allocations. There shall be an initial allocation described as follows: \([D_0, D_1] = '99', D_2, \ldots, D_{13} = \{'0', \ldots, '9'\}\). This initial numbering space shall be expandable in decrementing values of \([D_0, D_1]\) to '98', '97', etc. Expansion of this initial space shall be the subject of written agreement between GDA and GHA. The expansion agreements shall be recorded in the allocation history attached to this document (Appendix A.) The total size of numbering space of this initial block allocation to GHA is \(1.0 \times 10^{12}\).

6.6 At the time of each new allocation of numbering space to GHA for terminals designed to comply with both 3GPP2 and 3GPP specifications, the status of GDA allocations shall be recorded in Appendix A in addition to the status of GHA allocations.

6.7 GDA has already allocated equipment numbers in the decimal numbering space, as indicated in the Annex of [1]. All existing GDA allocations are in the numbering space described as follows: \([D_0, D_1] \leq '54', D_2, \ldots, D_{13} = \{'0', \ldots, '9'\}, \text{but don't fully utilise this space.} \]
Going forward, GDA shall allocate identifiers for terminals designed to comply with 3GPP specifications or terminals designed to comply with both 3GPP and 3GPP2 specifications, generally starting with unused numbering...
6.8 GHA can transfer the authority of allocation of some or all of the
allocated numbering space to the GDA. Conversely, GDA can transfer
the authority of some or all of the allocated numbering space to the GHA.
The agreement to transfer authority shall be recorded in the allocation
history attached to this document. It is anticipated that such transfers
would be free of charge.

6.9 The administrator(s) shall allocate mobile identifiers in a fair, timely, and
impartial manner to any applicant that meets the administrator’s criteria
for allocation per [1] and [2].

7 NUMBER MANAGEMENT COORDINATION BETWEEN GDA AND GHA

7.1 The GA shall periodically jointly review their processes to ensure they are
in line with these guidelines.

7.2 Regional administrators shall allocate numbers to manufacturers,
working in conjunction with the global administrators. Administrators
shall recognize allocations made by other administrators.

7.3 The GDA and GHA shall provide information to each other on all
allocations made.

7.4 The administration process shall not make available detailed information
on the numbers of specific types of terminals of one manufacturer to
other manufacturers. This information is confidential to operators and
administrators. The manufacturer may request an embargo on the
release date of new allocations to other parties.

8 MAINTENANCE OF GUIDELINES AND PROCEDURES

8.1 Upon approval, this document will be maintained under change control
by the GA. Amendments to this document must be approved by the GA
and industry partners.

9 MANAGEMENT OF UNALLOCATED NUMBERING SPACE

9.1 The numbering space described as follows is reserved.

D0 = {‘0’, ..., ‘9’}; Di = ['A', ..., 'F'], i = {1, ..., 13}
Authority for allocation of this reserved space is not assigned. The reserved numbering space shall not be allocated by either GDA or GHA until these Administration Procedures are modified to allow such allocation.

10 References

The documents that are referenced herein are for the sole purpose of identifying related normative reference sources and were used in the formulation of this document. There are no direct or indirect claims regarding the property rights, legal, or regulatory status of those documents listed. Unrelated references in these documents are not considered binding on any party.

[1] TW.06 IMEI Allocation and Approval Guidelines, version 3.2.0, September 2002
ANNEX A – ALLOCATION HISTORY

Current Allocation is summarized in Table 1 (please refer to section 6 for details):

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</tr>
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</tr>
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<td>...</td>
<td></td>
</tr>
<tr>
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<td></td>
</tr>
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</tr>
<tr>
<td>A0</td>
<td>hhhhhhhhhhh</td>
</tr>
<tr>
<td>...</td>
<td>hhhhhhhhhhh</td>
</tr>
<tr>
<td>FF</td>
<td>hhhhhhhhhhh</td>
</tr>
</tbody>
</table>

Table 1: Equipment Numbering Allocation Summary

Legend:
- d – a digit that can assume a value of 0 through 9
- h – a digit that can assume a value of 0 through F

Note: All other assignment space is not allocated.
ANNEX B - GLOSSARY AND LIST OF ACRONYMS AND ABBREVIATIONS

3GPP  Third Generation Partnership Project
3GPP2 Third Generation Partnership Project Two
ARIB  Association of Radio Industries and Businesses
CMCA China Mobile Communications Association
CWTS China Wireless Telecommunications Society
EICTA European Information, Communications, and Consumer Electronics Technology Association
ESN  Electronic Serial Number
GA   Global Administrators (Union of GDA and GHA)
GDA  Global Decimal Administrator
GHA  Global Hexadecimal Administrator
GSM  Global System for Mobile Communication
GSMA GSM Association
IMEI International Mobile Equipment Identity
JEM  Joint Expert Meeting
MEID Mobile Equipment Identity
SDO  Standards Development Organization
TIA  Telecommunication Industries Association
TAC  Type Allocation Code
TTA  Telecommunications Technology Association
TTC  Telecommunications Technology Committee

REVISION HISTORY

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<td>Ver. 1</td>
<td>Feb. 12, 2003</td>
<td>Initial draft output of London meeting</td>
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<tr>
<td>Ver. 2</td>
<td>Feb. 25, 2003</td>
<td>Text edits on teleconference; Addition of full references, glossary, and revision history</td>
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<td>Mar. 25, 2003</td>
<td>Update Section 6.7; Accept Rev. 2 changes</td>
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<td>Apr. 8, 2003</td>
<td>Include Section 2.7, 3.3, wording changes in Section 3.</td>
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<td>Ver. 0.5</td>
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<td>Add front page, Table of Contents, Initial Allocation Table</td>
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