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3G Mobile Equipment Identifier (MEID)

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2 Scope

The objective is to define and standardize the structure of the 3G Mobile Equipment Identifier.

3 References

3.1 Normative Reference

- TBD

3.2 Informative References

- TBD

4 Abbreviations

For the purpose of this document, the following abbreviations apply:

5 General

To facilitate mobile equipment identification and reduce the need to rely on ESNs to track mobiles the need for a new identifier is required. The Mobile Equipment Identifier (MEID) is proposed as a means to achieve these goals. Additionally as global roaming and harmonization between 3G technologies becomes a reality the need for a universal mobile equipment identifier is needed. The MEID is meant to address the following issues:

To ease ESN exhaustion:

The fields in the MEID are coded with either BCD or hexadecimal coding. The addressing space is quite large and can certainly resolve the ESN exhaustion issue. Can even be extended further if a hex MEID is used in place of a BCD.

To provide quality tracking for Manufacturers:

MEID can provide not only the manufacturer code of the ME, but also can provide the factory code, type approval code, and serial number. These pieces of information can be used for quality tracking.

To provide quality tracking and marketing information for Service Providers:

MEID can help service providers identify the problematic 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 information can also be used to identify quality ME to minimize the risk for any future service challenged action. The MEID could also be used to determine the quantity and model of mobiles from a particular vendor. The operator could also maintain a list of MEs that have been stolen and deny service to that particular mobile regardless of whether it has a valid subscription or not.

6 Requirements

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.

7 Procedures

7.1 Normal Procedures With Successful Outcome

This section describes the normal procedures that result in a successful outcome.

7.1.1 Authorization

TBD

7.1.2 De-Authorization

TBD

7.1.3 Registration

TBD

7.1.4 De-Registration

TBD

7.1.5 Activation

TBD

7.1.6 De-Activation

TBD

7.1.7 Invocation

TBD

7.1.8 Normal Operation with Successful Outcome

TBD

7.1.9 Call Detail Record

TBD

7.2 Exception Procedures or Unsuccessful Outcome

This section describes abnormal situations not described in "Normal Operation with Successful Outcome."

7.2.1 Registration

None identified.

7.2.2 De-Registration

None identified.

7.2.3 Activation

None identified.

7.2.4 De-Activation

None identified.

7.2.5 Invocation

None identified.

7.2.6 Exceptions While Roaming

None identified.

7.2.7 Exceptions During Intersystem Handoff

None identified.

7.3 Alternate Procedures

7.3.1 Registration

TBD

7.4 Interactions With Other Cellular Services

This section describes the interaction of MEID with other cellular services when more than one cellular feature is active.

7.4.1 Asynchronous Data Service (ADS)

For further study.

7.4.2 Call Delivery (CD)

For further study.

7.4.3 Call Forwarding—Busy (CFB)

For further study.

7.4.4 Call Forwarding—Default (CFD)

For further study.

7.4.5 Call Forwarding—No Answer (CFNA)

For further study.

7.4.6 Call Forwarding—Unconditional (CFU)

For further study.

7.4.7 Call Transfer (CT)

For further study.

7.4.8 Call Waiting (CW)

For further study.

7.4.9 Calling Name Presentation (CNAP)

For further study.

7.4.10 Calling Number Identification Presentation (CNIP)

For further study.

7.4.11 Calling Number Identification Restriction (CNIR)

For further study.

7.4.12 Conference Calling (CC)

For further study.

7.4.13 Data Privacy (DP)

For further study.

7.4.14 Do Not Disturb (DND)

For further study.

7.4.15 Emergency Services Callback (9-1-1CB)

For further study.

7.4.16 Emergency Services Reconnect (9-1-1RC)

For further study.

7.4.17 Flexible Alerting (FA)

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7.4.18 Global Emergency Call Origination (GECO)

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7.4.19 Group 3 Facsimile (G3 FAX)

For further study.

7.4.20 Incoming Call Screening

For further study.

7.4.21 Message Waiting Notification (MWN)

For further study.

7.4.22 Mobile Access Hunting (MAH)

For further study.

7.4.23 Network Directed System Selection (NDSS)

For further study.

7.4.24 Non-Public Mode Service (NP)

For further study.

7.4.25 Over-the-Air Service Provisioning (OTASP)

For further study.

7.4.26 Over-the-Air Parameter Administration (OTAPA)

For further study.

7.4.27 Password Call Acceptance (PCA)

For further study.

7.4.28 Preferred Language (PL)

For further study.

7.4.29 Priority Access and Channel Assignment (PACA)

For further study.

7.4.30 Remote Feature Control (RFC)

For further study.

7.4.31 Selective Call Acceptance (SCA)

For further study.

7.4.32 Service Programming Lock (SPL)

For further study.

7.4.33 Speech Option Selection (SOS)

For further study.

7.4.34 Subscriber PIN Access (SPINA)

For further study.

7.4.35 Subscriber PIN Intercept (SPINI)

For further study.

7.4.36 Three-Way Calling (3WC)

For further study.

7.4.37 Tiered Services (TS)

For further study.

7.4.38 User Group ID (UGID)

For further study.

7.4.39 Voice Controlled Services (VCS)

For further study.

7.4.40 Voice Message Retrieval (VMR)

For further study.

7.4.41 Voice Privacy (VP)

For further study.

