GSMA TSG-AI CHANGE REQUEST FORM

**To be Filled in by Submitter**

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| --- | --- |
| **TITLE:** | TS47 v0.9- Draft |
| **AFFECTED DOCUMENT:** | TS47 AI Mobile Device Specification v0.8 - Draft |
| **REVISION CATEGORY:** |  |
| **SUBMITTED TO:** | TSG-AI |
| **SPONSOR:** | John Humbert, T-Mobile USA |

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| --- | --- |
| **SCR REVISION HISTORY** | |
| **(DATE)** | **(CHANGE)** |
| **MM/DD/YYYY** | **10/3/19** |
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(add more rows as needed)

**To be Filled in by GSMA Office Director:**

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| --- | --- |
| **GSMA SCR NUMBER:** | (To be assigned by GSMA office) |
| **SCR ENTRY DATE:** | MM/DD/YYY |

**To be Filled in by TSG:**

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| **SCR**  **ADOPTED, REJECTED, or otherwise DISPOSITIONED for other action** | SCR is (adopted) or (rejected) or (Dispositioned for other action)  If rejected, explain reason for acceptation or rejection  If dispositioned, explain action or plan for action (such as including in future draft specification revision, or re-visiting at future date, or other) |
| **DATE SCR**  **ADOPTED or REJECTED or DISPOSITIONED** | MM/DD/YYYY |

**Summary of the Proposed Document Change(s) or Addition(s):**

1. Align the contents of the table with the text immediately above the table. Examples in a specification need to be a MAY requirement.

**Benefits as a Result of the Changes**

**Assessment of the Impact**

Corrects mistakes and clarifies

**Analysis of the Device Hardware Implication**

No impact.

**Analysis of the Device Software Implications**

No impact.

**Analysis of the Compliance Test & Interop Implications**

No impact.

**New Referenced Documents Resulting from Change**

No impact.

**Attachments**

None.

**Start of Proposed Document Change(s) or Addition(s)**

# 3 The Requirements of AI Mobile Device

## 3.1 Hardware requirements

AI mobile device hardware is required to support AI software applications efficiently.

Example hardware performance measurements can be found in the Table below TS.47\_3.1\_REQ\_001 to TS.47\_3.1\_REQ\_004 using the modified VGG network.

|  |  |
| --- | --- |
| Example Requirements | |
| TS47\_3.1\_REQ\_001 | An AI mobile device SHALL have a minimum of [1] int8 TOPS. |
| TS47\_3.1\_REQ\_002 | An AI mobile device SHALL have a minimum of [0.5] float16 TOPS |
| TS47\_3.1\_REQ\_003 | An AI mobile device SHALL have a minimum of [0.5] int8 TOPS/Watt. |
| TS47\_3.1\_REQ\_004 | An AI mobile device SHALL have a minimum of [0.3] float16 TOPS/Watt. |

**End of Proposed Document Change(s) or Addition(s)**