**3GPP TSG-SA WG1 Meeting #108 S1-244001**

**Orlando, Florida, USA, 18-22 November 2024**

Title: Drafting Agenda 6G Sensing + Verticals

Ag. Item: 1.1

Source: SA1 Chairperson

Contact: Jose Luis Almodovar Chico

**MEETING ROOMS:**

**Plenary/Drafting: Sago**

Breakout: Citron West

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|  |  | **Tuesday** | **Wednesday** |
|  |  |  |  |
| **Q4** | **16:00****18:00** | **Drafting 1:**8.1.2 6G Sensing8.1.6. Verticals=================**Drafting 2:**8.1.5 6G Massive Com8.1.3 Ubiquitous  | **Drafting 1:**8.1.2 6G Sensing8.1.6. Verticals=================**Drafting 2:**8.1.5 6G Massive Com 8.1.3 Ubiquitous  |
|  |  |  |  |
| **Q5** | **18:10****19:00** | **MMS**(19:00) | **Drafting 1:**8.1.2 6G Sensing8.1.6. Verticals=================**Drafting 2:**8.1.5 6G Massive Com8.1.3 Ubiquitous  |

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| FS\_6G-REQ [[SP-241391](https://www.3gpp.org/ftp/tsg_sa/TSG_SA/TSGS_105_Melbourne_2024-09/Docs/SP-241391.zip)] |
| Integrated Sensing and Communication |
| Cont | [S1-244037](file:///D%3A%5CTSGS1_108_Orlando%5CDocs%5CS1-244037.zip) | Nokia | Pseudo-CR on applicability of existing ISAC use cases and requirements to 6G | Revised to S1-244588 |  |
| Cont | [S1-244588](file:///D%3A%5CTSGS1_108_Orlando%5Cdocs%5CS1-244588.zip) | Nokia | Pseudo-CR on applicability of existing ISAC use cases and requirements to 6G |  | Revision of S1-244037. |
| Cont | [S1-244231](file:///D%3A%5CTSGS1_108_Orlando%5CDocs%5CS1-244231.zip) | Xiaomi  | Adoption of 5G ISAC Use Cases and Requirements to 6G FS | Noted |  |
| Cont | [S1-244095](file:///D%3A%5CTSGS1_108_Orlando%5CDocs%5CS1-244095.zip) | Qualcomm  | Baseline Sensing Requirements for 6G | Noted |  |
| Cont | [S1-244096](file:///D%3A%5CTSGS1_108_Orlando%5CDocs%5CS1-244096.zip) | Qualcomm  | Proposed Baseline for 6G Sensing Requirements  | Merged into S1-244588 |  |
| Cont | [S1-244024](file:///D%3A%5CTSGS1_108_Orlando%5CDocs%5CS1-244024.zip) | Ericsson  | Network assisted 3D-mobility | Revised to S1-244435 |  |
| Cont | [S1-244435](file:///D%3A%5CTSGS1_108_Orlando%5Cdocs%5CS1-244435.zip) | Ericsson  | Network assisted 3D-mobility | Revised to S1-244589 | Revision of S1-244024.2 |
| Cont | [S1-244589](file:///D%3A%5CTSGS1_108_Orlando%5Cdocs%5CS1-244589.zip) | Ericsson  | Network assisted 3D-mobility |  | *Revision of S1-244024.2*Revision of S1-244435. |
| Cont | [S1-244038](file:///D%3A%5CTSGS1_108_Orlando%5CDocs%5CS1-244038.zip) | IPLOOK | Use case on sensing for fiber-optic vibration service over satellite | Revised to S1-244394 |  |
| Cont | [S1-244394](file:///D%3A%5CTSGS1_108_Orlando%5Cdocs%5CS1-244394.zip) | IPLOOK | Use case on sensing for fiber-optic vibration service over satellite | Noted | Revision of S1-244038. |
| Cont | [S1-244083](file:///D%3A%5CTSGS1_108_Orlando%5CDocs%5CS1-244083.zip) | NTT DOCOMO | Recovery from a severe disaster - Sensing for ETWS | Revised to S1-244671 |  |
| Cont | [S1-244671](file:///D%3A%5CTSGS1_108_Orlando%5Cdocs%5CS1-244671.zip) | NTT DOCOMO | Recovery from a severe disaster - Sensing for ETWS |  | Revision of S1-244083. |
| Cont | [S1-244081](file:///D%3A%5CTSGS1_108_Orlando%5CDocs%5CS1-244081.zip) | NTT DOCOMO | Coordination of search and rescue missions in large disaster areas | Revised to S1-244672 |  |
| Cont | [S1-244672](file:///D%3A%5CTSGS1_108_Orlando%5Cdocs%5CS1-244672.zip) | NTT DOCOMO | Coordination of search and rescue missions in large disaster areas |  | Revision of S1-244081. |
| Cont | [S1-244094](file:///D%3A%5CTSGS1_108_Orlando%5CDocs%5CS1-244094.zip) | Qualcomm  | Enhanced XR User Navigation | Revised to S1-244590 |  |
| Cont | [S1-244590](file:///D%3A%5CTSGS1_108_Orlando%5Cdocs%5CS1-244590.zip) | Qualcomm  | Enhanced XR User Navigation |  | Revision of S1-244094. |
| Cont | [S1-244108](file:///D%3A%5CTSGS1_108_Orlando%5CDocs%5CS1-244108.zip) | NTT DOCOMO | Use case on Optimal sensing task distribution | Revised to S1-244591 |  |
| Cont | [S1-244591](file:///D%3A%5CTSGS1_108_Orlando%5Cdocs%5CS1-244591.zip) | NTT DOCOMO | Use case on Optimal sensing task distribution |  | Revision of S1-244108. |
| Cont | [S1-244113](file:///D%3A%5CTSGS1_108_Orlando%5CDocs%5CS1-244113.zip) | China Mobile | Use case on low-altitude UAV supervision | Revised to S1-244406 |  |
| Cont | [S1-244406](file:///D%3A%5CTSGS1_108_Orlando%5Cdocs%5CS1-244406.zip) | China Mobile | Use case on low-altitude UAV supervision | Revised to S1-244592 | Revision of S1-244113. |
| Cont | [S1-244592](file:///D%3A%5CTSGS1_108_Orlando%5Cdocs%5CS1-244592.zip) | China Mobile | Use case on low-altitude UAV supervision |  | *Revision of S1-244113.*Revision of S1-244406. |
| Cont | [S1-244288](file:///D%3A%5CTSGS1_108_Orlando%5CDocs%5CS1-244288.zip) | Huawei | Use case on collision prediction for UAV logistics | Merge into S1-244592 |  |
| Cont | [S1-244132](file:///D%3A%5CTSGS1_108_Orlando%5CDocs%5CS1-244132.zip) | ZTE  | Use case on comprehensive motion classification and recognization for immersive experience | Noted | Postponed by the source company. |
| Cont | [S1-244133](file:///D%3A%5CTSGS1_108_Orlando%5CDocs%5CS1-244133.zip) | ZTE  | Use case on detection of ships on the coast or in rivers | Noted | Postponed by the source company. |
| Cont | [S1-244134](file:///D%3A%5CTSGS1_108_Orlando%5CDocs%5CS1-244134.zip) | ZTE  | Use case on geological disaster monitoring | Noted | Postponed by the source company. |
| Cont | [S1-244135](file:///D%3A%5CTSGS1_108_Orlando%5CDocs%5CS1-244135.zip) | ZTE, China Mobile | Use case on intrusion detection with object and intention recognition in smart home | Revised to S1-244593 |  |
| Cont | [S1-244593](file:///D%3A%5CTSGS1_108_Orlando%5Cdocs%5CS1-244593.zip) | ZTE, China Mobile | Use case on intrusion detection with object and intention recognition in smart home |  | Revision of S1-244135. |
| Cont | [S1-244136](file:///D%3A%5CTSGS1_108_Orlando%5CDocs%5CS1-244136.zip) | ZTE  | Use case on micro-deformation monitoring on a bridge | Noted |  |
| Cont | [S1-244137](file:///D%3A%5CTSGS1_108_Orlando%5CDocs%5CS1-244137.zip) | ZTE  | Use case on sensing prediction for smart traffic management | Revised to S1-244419 |  |
| Cont | [S1-244419](file:///D%3A%5CTSGS1_108_Orlando%5Cdocs%5CS1-244419.zip) | ZTE  | Use case on sensing prediction for smart traffic management | Revised to S1-244594 | Revision of S1-244137. |
| Cont | [S1-244594](file:///D%3A%5CTSGS1_108_Orlando%5Cdocs%5CS1-244594.zip) | ZTE  | Use case on sensing prediction for smart traffic management |  | *Revision of S1-244137.*Revision of S1-244419. |
| Cont | [S1-244172](file:///D%3A%5CTSGS1_108_Orlando%5CDocs%5CS1-244172.zip) | China Mobile  | pCR on Use Case AI support for enhancement of target sensing | Merged into 4172 |  |
| Cont | [S1-244138](file:///D%3A%5CTSGS1_108_Orlando%5CDocs%5CS1-244138.zip) | ZTE, China Mobile | Use case on UAV express delivery in low-altitude economy | Noted | Postponed by the source company. |
| Cont | [S1-244139](file:///D%3A%5CTSGS1_108_Orlando%5CDocs%5CS1-244139.zip) | ZTE  | Use case on outdoor sports health monitoring | Noted | Postponed by the source company. |
| Cont | [S1-244160](file:///D%3A%5CTSGS1_108_Orlando%5CDocs%5CS1-244160.zip) | NICT | Use case on safety assistance for vulnerable pedestrians | Revised to S1-244595 |  |
| Cont | [S1-244595](file:///D%3A%5CTSGS1_108_Orlando%5Cdocs%5CS1-244595.zip) | NICT | Use case on safety assistance for vulnerable pedestrians |  | Revision of S1-244160. |
| Cont | [S1-244173](file:///D%3A%5CTSGS1_108_Orlando%5CDocs%5CS1-244173.zip) | China Mobile  | pCR Use Case Dynamic adjustment according to sensing service quality | Noted |  |
| Cont | [S1-244174](file:///D%3A%5CTSGS1_108_Orlando%5CDocs%5CS1-244174.zip) | China Mobile  | pCR on Use Case Multi-Sensor Fusion based sensing for UAV takeoff and landing | Revised to S1-244596 |  |
| Cont | [S1-244596](file:///D%3A%5CTSGS1_108_Orlando%5Cdocs%5CS1-244596.zip) | China Mobile  | pCR on Use Case Multi-Sensor Fusion based sensing for UAV takeoff and landing |  | Revision of S1-244174. |
| Cont | [S1-244175](file:///D%3A%5CTSGS1_108_Orlando%5CDocs%5CS1-244175.zip) | China Mobile  |  pCR on Use Case non-real-time sensing service | Revised to S1-244597 |  |
| Cont | [S1-244597](file:///D%3A%5CTSGS1_108_Orlando%5Cdocs%5CS1-244597.zip) | China Mobile  |  pCR on Use Case non-real-time sensing service |  | Revision of S1-244175. |
| Cont | [S1-244176](file:///D%3A%5CTSGS1_108_Orlando%5CDocs%5CS1-244176.zip) | China Mobile  |  pCR on Use Case Sensing Network Sharing | Noted | Postponed by the source company. |
| Cont | [S1-244187](file:///D%3A%5CTSGS1_108_Orlando%5CDocs%5CS1-244187.zip) | vivo | Use case on mobility management based on environmental awareness | Revised to S1-240673 |  |
| Cont | [S1-240673](file:///D%3A%5CTSGS1_108_Orlando%5Cdocs%5CS1-240673.zip) | vivo | Use case on mobility management based on environmental awareness |  | Revision of S1-244187. |
| Cont | [S1-244221](file:///D%3A%5CTSGS1_108_Orlando%5CDocs%5CS1-244221.zip) | ZTE  | Use case on sensing result validation | Revised to S1-244675 |  |
| Cont | [S1-244675](file:///D%3A%5CTSGS1_108_Orlando%5Cdocs%5CS1-244675.zip) | ZTE  | Use case on sensing result validation |  | Revision of S1-244221. |
| Cont | [S1-244229](file:///D%3A%5CTSGS1_108_Orlando%5CDocs%5CS1-244229.zip) | Xiaomi  | New use case for high-resolution topographical maps | Revised to S1-244674 |  |
| Cont | [S1-244674](file:///D%3A%5CTSGS1_108_Orlando%5Cdocs%5CS1-244674.zip) | Xiaomi  | New use case for high-resolution topographical maps |  | Revision of S1-244229. |
| Cont | [S1-244268](file:///D%3A%5CTSGS1_108_Orlando%5CDocs%5CS1-244268.zip) | NTT DOCOMO | pCR on exposing disaster victim situation | Noted |  |
| Cont | [S1-244272](file:///D%3A%5CTSGS1_108_Orlando%5CDocs%5CS1-244272.zip) | Samsung  | 22.870 pCR: Use Case on Non-3GPP Sensing Service Enablers | Noted |  |
| Cont | [S1-244287](file:///D%3A%5CTSGS1_108_Orlando%5CDocs%5CS1-244287.zip) | Huawei | Use case on environment object reconstruction | Revised to S1-244676 |  |
| Cont | [S1-244676](file:///D%3A%5CTSGS1_108_Orlando%5Cdocs%5CS1-244676.zip) | Huawei | Use case on environment object reconstruction |  | Revision of S1-244287. |
| Cont | [S1-244289](file:///D%3A%5CTSGS1_108_Orlando%5CDocs%5CS1-244289.zip) | Huawei | Use case on road digitalization | Revised to S1-244677 |  |
| Cont | [S1-244677](file:///D%3A%5CTSGS1_108_Orlando%5Cdocs%5CS1-244677.zip) | Huawei | Use case on road digitalization |  | Revision of S1-244289. |
| Cont | [S1-244369](file:///D%3A%5CTSGS1_108_Orlando%5CDocs%5CS1-244369.zip) | InterDigital, TNO | Collaborative Robots Using Digital Twinning | Revised to S1-244678 |  |
| Cont | [S1-244678](file:///D%3A%5CTSGS1_108_Orlando%5Cdocs%5CS1-244678.zip) | InterDigital, TNO | Collaborative Robots Using Digital Twinning |  | Revision of S1-244369. |
| Cont | [S1-244371](file:///D%3A%5CTSGS1_108_Orlando%5CDocs%5CS1-244371.zip) | InterDigital | Emergency Vehicle Driving and Route Management | Revised to S1-244679 |  |
| Cont | [S1-244679](file:///D%3A%5CTSGS1_108_Orlando%5Cdocs%5CS1-244679.zip) | InterDigital | Emergency Vehicle Driving and Route Management |  | Revision of S1-244371. |
| Cont | [S1-244374](file:///D%3A%5CTSGS1_108_Orlando%5CDocs%5CS1-244374.zip) | NTT DOCOMO | pCR on Improving the Credibility of Visuals by using sensing | Revised to S1-244680 |  |
| Cont | [S1-244680](file:///D%3A%5CTSGS1_108_Orlando%5Cdocs%5CS1-244680.zip) | NTT DOCOMO | pCR on Improving the Credibility of Visuals by using sensing |  | Revision of S1-244374. |
| Cont | S1-244355 | Reliance Jio | 6G inputs from Reliance Jio  | Noted | LATE contribution |
| Cont | S1-244263 | Reliance Jio | Use case on 6G Integrated Sensing and Communications | Noted | LATE contribution |
| Further Use Cases on Industry and Verticals |
| Cont | [S1-244018](file:///D%3A%5CTSGS1_108_Orlando%5CDocs%5CS1-244018.zip) | Nokia | New use case on Realtime Digital Twins | Revised to S1-244412 |  |
| Cont | [S1-244412](file:///D%3A%5CTSGS1_108_Orlando%5Cdocs%5CS1-244412.zip) | Nokia | New use case on Realtime Digital Twins | Revised to S1-244681 | Revision of S1-244018. |
| Cont | [S1-244681](file:///D%3A%5CTSGS1_108_Orlando%5Cdocs%5CS1-244681.zip) | Nokia | New use case on Realtime Digital Twins |  | *Revision of S1-244018.*Revision of S1-244412. |
| Cont | [S1-244048](file:///D%3A%5CTSGS1_108_Orlando%5CDocs%5CS1-244048.zip) | ZTE  | Use case on digital twin for Industrial IoT | Noted | Postponed by the source company. |
| Cont | [S1-244049](file:///D%3A%5CTSGS1_108_Orlando%5CDocs%5CS1-244049.zip) | ZTE  | Use case on SLA for Industrial IoT | Noted | Postponed by the source company. |
| Cont | [S1-244102](file:///D%3A%5CTSGS1_108_Orlando%5CDocs%5CS1-244102.zip) | NEC  | Ubiquitous Computing service in Autonomous Delivery Drone Fleet | Revised to S1-244430 |  |
| Cont | [S1-244430](file:///D%3A%5CTSGS1_108_Orlando%5Cdocs%5CS1-244430.zip) | NEC  | Ubiquitous Computing service in Autonomous Delivery Drone Fleet | Revised to S1-244682 | Revision of S1-244102. |
| Cont | [S1-244682](file:///D%3A%5CTSGS1_108_Orlando%5Cdocs%5CS1-244682.zip) | NEC  | Ubiquitous Computing service in Autonomous Delivery Drone Fleet |  | *Revision of S1-244102.*Revision of S1-244430. |
| Cont | [S1-244105](file:///D%3A%5CTSGS1_108_Orlando%5CDocs%5CS1-244105.zip) | NEC  | Data Services for Connected Vehicle by Telecom network | Revised to S1-244431 |  |
| Cont | [S1-244431](file:///D%3A%5CTSGS1_108_Orlando%5Cdocs%5CS1-244431.zip) | NEC  | Data Services for Connected Vehicle by Telecom network |  | Revision of S1-244105.Still open |
| Cont | [S1-244115](file:///D%3A%5CTSGS1_108_Orlando%5CDocs%5CS1-244115.zip) | China Mobile | Use case on distributed autonomous network for vertical industry | Revised to S1-244683 |  |
| Cont | [S1-244683](file:///D%3A%5CTSGS1_108_Orlando%5Cdocs%5CS1-244683.zip) | China Mobile | Use case on distributed autonomous network for vertical industry |  | Revision of S1-244115. |
| Cont | [S1-244116](file:///D%3A%5CTSGS1_108_Orlando%5CDocs%5CS1-244116.zip) | China Mobile | Use case on Network intelligence and simplification | Revised to S1-244691 |  |
| Cont | [S1-244691](docs%5CS1-244691.zip) | China Mobile | Use case on Network intelligence and simplification |  | Revision of S1-244116. |
| Cont | [S1-244143](file:///D%3A%5CTSGS1_108_Orlando%5CDocs%5CS1-244143.zip) | LG. | Immersive Media Services for AAM Enabled by 6G TN and NTN | Revised to S1-244684 |  |
| Cont | [S1-244684](file:///D%3A%5CTSGS1_108_Orlando%5Cdocs%5CS1-244684.zip) | LG. | Immersive Media Services for AAM Enabled by 6G TN and NTN |  | Revision of S1-244143. |
| Cont | [S1-244144](file:///D%3A%5CTSGS1_108_Orlando%5CDocs%5CS1-244144.zip) | LG. | Collaborative Awareness in Dynamic Environments Enhancing Mutual Decision-Making through Real-Time Data Sharing |  | Still open |
| Cont | [S1-244145](file:///D%3A%5CTSGS1_108_Orlando%5CDocs%5CS1-244145.zip) | LG. | Supporting Intelligence Leveraging Nearby Entities for Real-Time Awareness  | Revised to S1-244689 |  |
| Cont | [S1-244689](file:///D%3A%5CTSGS1_108_Orlando%5Cdocs%5CS1-244689.zip) | LG. | Supporting Intelligence Leveraging Nearby Entities for Real-Time Awareness  |  | Revision of S1-244145. |
| Cont | [S1-244151](file:///D%3A%5CTSGS1_108_Orlando%5CDocs%5CS1-244151.zip) | NICT, ESA | Use Case on Remote and Automatic Construction | Revised to S1-244154 |  |
| Cont | [S1-244154](file:///D%3A%5CTSGS1_108_Orlando%5CDocs%5CS1-244154.zip) | NICT, ESA | Use Case on Remote and Automatic Construction | Revised to S1-244690 | Revision of S1-244151. |
| Cont | [S1-244690](docs%5CS1-244690.zip) | NICT, ESA | Use Case on Remote and Automatic Construction |  | *Revision of S1-244151.*Revision of S1-244154. |
| Cont | [S1-244159](file:///D%3A%5CTSGS1_108_Orlando%5CDocs%5CS1-244159.zip) | NICT, ESA | Use Case on Critical infrastructure Monitoring | Revised to S1-244685 |  |
| Cont | [S1-244685](file:///D%3A%5CTSGS1_108_Orlando%5Cdocs%5CS1-244685.zip) | NICT, ESA | Use Case on Critical infrastructure Monitoring |  | Revision of S1-244159. |
| Cont | [S1-244177](file:///D%3A%5CTSGS1_108_Orlando%5CDocs%5CS1-244177.zip) | ZTE  | Use case on 3D factory model based XR guided task | Revised to S1-244686 |  |
| Cont | [S1-244686](file:///D%3A%5CTSGS1_108_Orlando%5Cdocs%5CS1-244686.zip) | ZTE  | Use case on 3D factory model based XR guided task |  | Revision of S1-244177. |
| Cont | [S1-244179](file:///D%3A%5CTSGS1_108_Orlando%5CDocs%5CS1-244179.zip) | ZTE  | Use case on Spatial Computing enabled Dynamic Material Management | Noted | Postponed by the source company. |
| Cont | [S1-244181](file:///D%3A%5CTSGS1_108_Orlando%5CDocs%5CS1-244181.zip) | ZTE  | Use case on Independent 6G local network for factory |  | Still open |
| Cont | [S1-244183](file:///D%3A%5CTSGS1_108_Orlando%5CDocs%5CS1-244183.zip) | ZTE  | Use case on Robots collaborative working in smart factory |  | Still open |
| Cont | [S1-244432](file:///D%3A%5CTSGS1_108_Orlando%5Cdocs%5CS1-244432.zip) | MITRE  | Discussion - USE CASE ON RESILIENT CRITICAL INFRASTRUCTURE | Noted |  |
| Cont | [S1-244245](file:///D%3A%5CTSGS1_108_Orlando%5CDocs%5CS1-244245.zip) | MITRE  | USE CASE ON RESILIENT CRITICAL INFRASTRUCTURE | Revised to S1-244433 |  |
| Cont | [S1-244433](file:///D%3A%5CTSGS1_108_Orlando%5Cdocs%5CS1-244433.zip) | MITRE  | USE CASE ON RESILIENT CRITICAL INFRASTRUCTURE | Revised to S1-244688 | Revision of S1-244245. |
| Cont | [S1-244688](file:///D%3A%5CTSGS1_108_Orlando%5Cdocs%5CS1-244688.zip) | MITRE  | USE CASE ON RESILIENT CRITICAL INFRASTRUCTURE |  | *Revision of S1-244245.*Revision of S1-244433. |
| Cont | [S1-244296](file:///D%3A%5CTSGS1_108_Orlando%5Cdocs%5CS1-244296.zip) | Huawei | Use case on smart construction | Revised to S1-244687 |  |
| Cont | [S1-244687](file:///D%3A%5CTSGS1_108_Orlando%5Cdocs%5CS1-244687.zip) | Huawei | Use case on smart construction |  | Revision of S1-244296. |
| Cont | [S1-244297](file:///D%3A%5CTSGS1_108_Orlando%5CDocs%5CS1-244297.zip) | Huawei | Use Case on communication on board of UAM aircrafts |  | Still open |
| Cont | [S1-244247](file:///D%3A%5CTSGS1_108_Orlando%5CDocs%5CS1-244247.zip) | TOYOTA  | Use case on End-to-End AI for connected cars | Moved to 8.1.7 |  |
| Tdoc numbers NOT allocated during drafting session (admin purposes only) |
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| Summary of drafting session |
| *Highlight the following items:;* *
 |
| Close |