**3GPP TSG- Meeting #-bis-e**

**, -**

|  |
| --- |
| *CR-Form-v12.0* |
| **CHANGE REQUEST** |
|  |
|  |  | **CR** |  **0257** | **rev** | **-** | **Current version:** |  |  |
|  |
| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* |
|  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed changeaffects:*** | UICC apps |  | ME | **X** | Radio Access Network | **X** | Core Network | **X** |

|  |
| --- |
|  |
| ***Title:***  |  Update missed out definition for Information Element NavModel-NavIC-KeplerianSet |
|  |  |
| ***Source to WG:*** | Reliance Jio |
| ***Source to TSG:*** | R2 |
|  |  |
| ***Work item code:*** | LCS\_NAVIC-core |  | ***Date:*** | 2020-04-18 |
|  |  |  |  |  |
| ***Category:*** | F |  | ***Release:*** |  |
|  | *Use one of the following categories:****F*** *(correction)****A*** *(mirror corresponding to a change in an earlier release)****B*** *(addition of feature),* ***C*** *(functional modification of feature)****D*** *(editorial modification)*Detailed explanations of the above categories canbe found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | *Use one of the following releases:Rel-8 (Release 8)Rel-9 (Release 9)Rel-10 (Release 10)Rel-11 (Release 11)Rel-12 (Release 12)**Rel-13 (Release 13)Rel-14 (Release 14)Rel-15 (Release 15)Rel-16 (Release 16)* |
|  |  |
| ***Reason for change:*** | Populated the IE NavModel-NavIC-KeplerianSet definition |
|  |  |
| ***Summary of change:*** | GNSS assistance data elements section updated with deinition of IE NavModel-NavIC-KeplerianSet |
|  |  |
| ***Consequences if not approved:*** | ASN.1 compilation breaks. |
|  |  |
| ***Clauses affected:*** | 6.5.2.2 |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** |  | **X** |  Other core specifications  | TS/TR ... CR ...  |
| ***affected:*** |  | **X** |  Test specifications | TS/TR ... CR ...  |
| ***(show related CRs)*** |  | **X** |  O&M Specifications | TS/TR ... CR ...  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

----------------------------Start of change----------------------

## 6.5 Positioning Method IEs

**< Unchanged parts are omitted >**

### 6.5.2 A-GNSS Positioning

**< Unchanged parts are omitted >**

#### 6.5.2.2 GNSS Assistance Data Elements

**< Unchanged parts are omitted >**

#### – *NavModel-NavIC-KeplerianSet*

-- ASN1START

NavModel-NavIC-KeplerianSet-r16 ::= SEQUENCE {

 navic-Toe-r16 INTEGER (0 .. 65536),

 navic-URAI-r16 INTEGER (0 .. 15),

 navic-W-r16 INTEGER (-2147483648..2147483647),

 navic-DeltaN-r16 INTEGER (-2097152.. 2097151),

 navic-M0-r16 INTEGER (-2147483648..2147483647),

 navic-OmegaDot-r16 INTEGER (-2147483648..2147483647),

 navic-E-r16 INTEGER (0..4294967295),

 navic-IDot-r16 INTEGER (-8192..8191),

 navic-APowerHalf-r16 INTEGER (0.. 4294967295),

 navic-I0-r16 INTEGER (-2147483648..2147483647),

 navic-Omega0-r16 INTEGER (-2147483648..2147483647),

 navic-Crs-r16 INTEGER (-32768..32767),

 navic-Cis-r16 INTEGER (-32768..32767),

 navic-Cus-r16 INTEGER (-32768..32767),

 navic-Crc-r16 INTEGER (-32768..32767),

 navic-Cic-r16 INTEGER (-32768..32767),

 navic-Cuc-r16 INTEGER (-32768..32767),

 ...

}

-- ASN1STOP

| *NavModel-NavIC-KeplerianSet* field descriptions |
| --- |
| ***navic-Toe***Parameter toe, time-of-ephemeris in seconds [38].Scale factor 24 seconds |
| ***navic-URAI***Parameter User Range Accuracy Index in meters. This is a one-sigma estimate of the user range errors in the navigation data for the transmitting satellite as described under clause 6.2.1.4 in [38] |
| ***navic-W***Parameter ω, argument of perigee (semi-circles) [38].Scale factor 2-31 semi-circles. |
| ***navic-DeltaN***Parameter n, mean motion difference from computed value (semi-circles/sec) [38]Scale factor 2-41 semi-circles/second |
| ***navic-M0***Parameter M0, mean anomaly at reference time (semi-circles) [38]Scale factor 2-31 semi-circles. |
| ***navic-OmegaDot***Parameter OMEGAdot, rate of change of right ascension (semi-circles/sec) [38]Scale factor 2-41 semi-circles/second |
| ***navic-E***Parameter e, eccentricity [38]Scale factor 2-33. |
| ***navic-IDot***Parameter Idot, rate of change of inclination angle (semi-circles/sec) [38]Scale factor 2-43 semi-circles/second. |
| ***navic-APowerHalf***Parameter sqrtA, square root of semi-major Axis in (meters)½ [38]Scale factor 2-19 meters ½. |
| ***navic-I0***Parameter i0, inclination angle at reference time (semi-circles) [38]Scale factor 2-31 semi-circles. |
| ***navic-Omega0***Parameter OMEGA0, longitude of ascending node of orbit plane at weekly epoch (semi-circles) [38]Scale factor 2-31 semi-circles. |
| ***navic-Crs***Parameter Crs, amplitude of the sine harmonic correction term to the orbit radius (meters) [38]Scale factor 2-4 meters |
| ***navic-Cis***Parameter Cis, amplitude of the sine harmonic correction term to the angle of inclination (radians) [38]Scale factor 2-28 radians |
| ***navic-Cus***Parameter Cus, amplitude of the sine harmonic correction term to the argument of latitude (radians) [38]Scale factor 2-28 radians |
| ***navic-Crc***Parameter Crc, amplitude of the cosine harmonic correction term to the orbit radius (meters) [38]Scale factor 2-4 meters |
| ***navic-Cic***Parameter Cic, amplitude of the cosine harmonic correction term to the angle of inclination (radians) [38]Scale factor 2-28 radians |
| ***navic-Cuc***Parameter Cuc, amplitude of the cosine harmonic correction term to the argument of latitude (radians) [38]Scale factor 2-28 radians |

----------------------------End of change----------------------