**SA WG2 Meeting #144E S2-210xxxx**

**12 - 16 April 2021, Elbonia (revision of S2-2100356)**

**Source: Ericsson (Rapporteur)**

**Title: eNPN work plan**

**Document for: Information**

**Agenda Item: 8.2.2**

**Work Item / Release: eNPN / Rel-17**

*Abstract of the contribution: This contribution proposes a work plan for eNPN.*

# Work areas and coordination input

This is the work plan for eNPN work item.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **General** | | | | | | | | |
| **Tasks** | | **Title** | | **SA2#143E**  **Volunteer/driver**  **(company, mail address)** | | **Status/Comments** | **Clause impacted** | |
| General:1 | | Support of PWS using SNPN | |  | | See LS from SA1 in S2-2102119 |  | |
| General:2 | | Support for eCall using SNPN | |  | | See discussions related to S2-2100656 |  | |
| **"Key Issue #1"**  **Enhancements to Support SNPN along with credentials owned by an entity separate from the SNPN** | | | | | | | | |
| **Tasks** | **Title** | | **SA2#143E**  **Volunteer/driver**  **(company, mail address)** | | **Status/Comments** | | | **Clause impacted** |
| KI#1: T1 | Updating the CH lists for SNPN selection | | **Qianghua (Huawei)**  **Jianning**  **(Xiaomi)** | | SoR or UPU (two ENs).  Wait for LS reply to S2-2101077 from CT1, SA3.  See S2-2100578, S2-2100579, S2-2100986, S2-2100987 discussions at SA2#143e | | | 23.501 clause 5.30.2.3  23.502 clause 4.20 or 5.2.3.3.1 |
| KI#1: T2 | Network control of UE access to SNPNs using CH credentials | | **Peter Hedman (Ericsson)**  **Qianghua (Huawei)** | | See S2-2100580 discussions at SA2#143e | | | 23.501 clause 5.30.2.4 |
| KI#1: T3 | Service discovery between SNPN and CH hosting AUSF and UDM | | **Peter Hedman (Ericsson)**  **Hualin (Huawei)** | | See S2-2100505 discussions at SA2#143e | | | 23.502? |
| KI#1: T4 | Interface between AAA-S and SNPN | | **Peter Hedman (Ericsson),**  **Devaki Chandramouli (Nokia)**  **Jianning**  **(Xiaomi)** | | Related to ENs "Whether an intermediate function is needed between the AUSF and the AAA-S is FFS" and " Interface between AAA Server and SNPN is FFS ". | | |  |
| KI#1: T5 | Enable mobility between networks | | **Fei Lu (OPPO)**  **Qianghua (Huawei)** | | See S2-2100582, S2-2100583, S2-2100607, S2-2100608, S2-2100574 discussions at SA2#143e  See LS from SA1 in S2-2102116 | | | 23.501 clause 5.30.2.X  23.502 clause 4.9  23.502 cluase 4.2.2.2.2 |
| KI#1: T6 | Handling of 5G-GUTI at registration | | **Devaki Chandramouli (Nokia)**  **Fei Lu (OPPO)** | | See S2-2100820 discussions at SA2#143e | | |  |
| KI#1: T7 | Procedure updates | |  | |  | | | 23.502 |
| **"Key Issue #2"**  **NPN support for Video, Imaging and Audio for Professional Applications (VIAPA)** | | | | | | | | |
| **Tasks** | **Title** | | **SA2#143E**  **Volunteer/driver**  **(company, mail address)** | | **Status/Comments** | | |  |
| KI#2:T1 | To support service continuity for VIAPA:  Informative guideline for mapping between standardized 5QI/ARP and DSCP marking to enable the PLMN and SNPN to use the same mapping values for UL and DL user plane traffic within SNPN and PLMN | | **Peter Hedman (Ericsson),**  **Devaki Chandramouli (Nokia)**  Amanda Xiang ( Futurewei) | | See S2-2100282 and S2-2100655. | | | TS 23.501  Updates to Annex D |
| KI#2:T2 | To support UE to receive data services from one network (e.g. NPN), and paging as well as data services from another network (e.g. PLMN) simultaneously.  Specific, when N3IWF based solution is used, the overlay network and its service AF can use existing NEF notification procedures. | | Amanda Xiang ( Futurewei) | | See S2-2100368  Possible to be merged with T1 as part of information guideline on QoS support between these two networks. | | | TS 23.501  Update to Annex D |
| KI#2:T3 | To support UE to receive data services from one network (e.g. NPN), and paging as well as data services from another network (e.g. PLMN) simultaneously. | | **Qianghua (Huawei)** | | See [S2-2100280](D:\\Z_Dummy_Meeting\\TDHandler\\Docs\\S2-2100280.zip" \t "_blank), [S2-2100360](D:\\Z_Dummy_Meeting\\TDHandler\\Docs\\S2-2100360.zip" \t "_blank), [S2-2100576](D:\\Z_Dummy_Meeting\\TDHandler\\Docs\\S2-2100576.zip" \t "_blank) discussions at SA2#143e | | | TS 23.501 |
| **"Key Issue #3"**  **Support of IMS voice and emergency services for SNPN** | | | | | | | | |
| **Tasks** | **Title** | | **SA2#143E**  **Volunteer/driver**  **(company, mail address)** | | **Status/Comments** | | |  |
| KI#3:T1 | Use of IMC when USIM or ISIM is not available | | George Foti (Ericsson) | | See solution #21 and discussions for S2-2100184. | | | TS 23.228 |
| KI#3:T2 | Reuse of USIM credentials for IMS AKA shall be possible when USIM is available in UEs accessing IMS via an SNPN | |  | | Q: Any SA2 changes required? | | |  |
| KI#3:T3 | Support of emergency services with SNPN | | George Foti (Ericsson) | | See S2-2100805 | | | TS 23.501 |
| KI#3:T4 | Domain selection for voice and emergency | | George Foti (Ericsson) | | See S2-2100803. | | | TS 23.167 |
| KI#3:T5 | Support for IMS separate from the SNPN | | George Foti (Ericsson) | | See S2-2100185 | | | TS 23.228 |
| **"Key Issue #4"**  **UE onboarding and remote provisioning** | | | | | | | | |
| **Tasks** | **Title** | | **SA2#143E**  **Volunteer/driver**  **(company, mail address)** | | **Status/Comments** | | |  |
| KI#4: OI-1 | Deregistration | | **Qianghua (Huawei)** | | Details on UE and/or network deregistering the UE after provisioning.  See S2-2100586, S2-2100587, S2-2100357 discussions at SA2#143e | | |  |
| KI#4: OI-2 | Provisioning of PVS data into ON-SNPN | |  | | Is the provisioning of PVS data into ON-SNPN in scope of the work? | | |  |
| KI#4: OI-3 | PNI-NPN | | **Hualin (Huawei)** | | Do we include prvisioning for NSSAA and secondary authentication as part of PNI-NPN (5.30.3.x) or as a standalone new clause 5.x or 5.30.x in 23.501? | | | TS 23.501  TS 23.502 |
| KI#4:T1 | General intro of feature and references (SNPN and PNI-NPN) | | **Hualin (Huawei)** | | A general introduction to the feature  See S2-2100502 | | | TS 23.501  Updates to 5.30.1 |
| KI#4:T2 | T2: UE Onboarding Component #1: 3GPP connectivity for UE to realize remote provisioning (SNPN) | | **Peter Hedman (Ericsson)**  **Qianghua (Huawei)**  **Mike Starsinic (Convida Wireless)**  **Amanda Xiang ( Futurewei)** | | Impacts for component #1, Architecture, SIB, UE configuration, Network Selection, Registration.  See S2-2100357, S2-2100586 | | | TS 23.501 |
| **Qianghua (Huawei)**  **Jianning**  **(Xiaomi)** | | Separate Registration.  See S2-2100587 | | | TS 23.502 |
| KI#4:T3 | UE Onboarding component #2: Enabling restricted PDU Session for remote provisioning of UE using User Plane (SNPN+PNI-NPN)  When O-SNPN as ON. | | **Rainer Liebhart (Nokia)**  **Amanda Xiang**  **(Futurewei)** | | See S2-2101086 for restricted PDU Session  See S2-2100421r11 for UE configuration | | | TS 23.501 |
|  | | See S2-2100422 | | | TS 23.502 |
|  | | See S2-2100611 | | | TS 23.503 |
| UE Onboarding component #2: Enabling restricted PDU Session for remote provisioning of UE using User Plane (SNPN+PNI-NPN).  When PLMN as ON | | **Hualin (Huawei)** | |  | | | TS 23.501  TS 23.502 |
| KI#4:T4 | UE onboarding Component #2: Enabling remote provisioning of UE using Control Plane for PNI-NPN | |  | | See S2-2100503 and S2-2100550  Not yet any feedback from SA3, do we postpone until SA2#145e? | | | TS 23.501 |
|  | | See S2-2100553 and S2-2100504  Not yet any feedback from SA3, do we postpone until SA2#145e? | | | TS 23.502 |
| **KI#4: T5** | O-SNPN selection | | **Devaki Chandramouli (Nokia)**  **Mike Starsinic (Convida Wireles)**  **Jianning**  **(Xiaomi)** | |  | | |  |