**SA WG2 Meeting #143E S2-20xxxxx**

**24 February-09 March 2021, Elbonia (revision of S2-20xxxx)**

**Source: Ericsson (Rapporteur)**

**Title: eNPN work plan**

**Document for: Information**

**Agenda Item: TBD**

**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 to identify work areas and volunteers for eNPN work item.

1. Identify the required tasks (e.g. CRs and content) of the work plan below, ready by DATE-1?
2. When tasks are settled, identify volunteers to write and drive CR(s) per task of the work plan below
3. Volunteers should upload first draft of normative CR(s) to the SA2#143E DRAFT folder by DATE-2(?), to allow other companies to provide comments, updates and cosigning (discussions to use SA2 discussion mail list).
4. During the SA2#143E meeting, it is recommended to use the corresponding volunteer’s CR as the baseline unless the volunteer's CR doesn’t help reach consensus and the concerns against the volunteer’s CRs are well justified to consider other CRs.
	1. If we are unable to reach consensus, we can also highlight the issues during CC#1 to determine the way forward.

NOTE: The work plan below includes aspects that are concluded and agreed to be part of the WID, i.e. aspects requiring further study in Q1 2021 are excluded.

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| **"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-a | Feature description: General |  |  - A general introduction to the feature.  | Clause 5.30.2.0: Add general description on access to SNPNs using credentials from a separate entity.  |
| KI#1:T1-b | Feature description: Architectures for access to SNPN using credentials from a separate entity | Devaki (Nokia) | - Separate entity with AUSF and UDM - Separate entity with PLMN subscription | New clause 5.30.2.X "Architectures for access to SNPN using credentials from a separate entity" |
| KI#1:T1-c | Feature description: SNPN selection and related aspects (SIB enhancements, UE configuration) | Sebastian (Qualcomm) |  | 5.30.2.2; 5.30.2.3, 5.30.2.4, 5.30.2.6 |
| KI#1:T2 | Procedure updates |  |  | 23.502 |
| KI#1:T3 | separate entity with AAA - … | Devaki / (Nokia)**Qianghua (Huawei)** | Normative work will start after feedback from SA3 is received on whether new NF or existing AUSF is enhanced. | 23.501 clause 5.30.2.X (see above)23.502 new clause |
| KI#1:T4 | Update of Separate entity controlled prioritized list of preferred SNPNs | **Qianghua (Huawei)**Fei (OPPO) | LS out first in Q1 | 23.501 clause 5.30.2.323.502 clause 4.20 or 5.2.3.3.1 |
| KI#1: T5 | Enable mobility between networks | **Qianghua (Huawei)** |  | 23.501 clause 5.30.2.X23.502 clause 4.9 |
| **"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 | Informative guideline for how to use existing Rel-16 mechanisms and information to support VIAPA servicesSpecific for service continuity using existing Rel-16 N3IWF-architecture is used as the basis |  |  | TS 23.501Updates to Annex D |
| KI#2:T2 | 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 | Devaki (Nokia) |  | TS 23.501Updates to Annex D or new Annex? |
| KI#2:T3-a | 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, for single radio UE, keep overlay network connection always in CM-CONNECTED.  | **Hualin(Huawei)** |  | TS 23.501Updates to Annex D |
| KI#2:T3-b | 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. |  |  |  |
| **"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  |  | See solution #21LS out to WGs responsible of specs identified by solution #21? | 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 voice and emergency services with SNPN | Haris (Qualcomm) | Excluding EPS fallback and T-ADSUpdates to IMS Emergency support functional description when the serving network is a SNPN | TS 23.501 |
|  |  | TS 23.502 |
|  |  | TS 23.503 |
| KI#3:T4 | Domain selection for voice and emergency | Haris (Qualcomm) | Introduction of support of emergency calls from SNPN in TS 23.167 inc. domain selection | TS 23.167 Update Annex H |
| **"Key Issue #4"****UE onboarding and remote provisioning** |
| **Tasks** | **Title** | **SA2#143E****Volunteer/driver****(company, mail address)** | **Status/Comments** |  |
| KI#4:T1-a | GeneralArchitecture (SNPN and PNI-NPN) | **Hualin(Huawei)** | A general introduction to the feature and architecture (for SNPN and PNI-NPN) | TS 23.501New clause 5.x? |
| KI#4: T1-b | Impact to SIB indicator for onboarding support (O-SNPN selection) to enable Network sharing | **Devaki (Nokia)** |  | TS 23.501 |
| KI#4:T2 | T2-a: UE Onboarding Component #1: 3GPP connectivity for UE to realize remote provisioning (SNPN) excluding T2-b  | **Qianghua (Huawei)** |  | TS 23.501 |
| **Qianghua (Huawei)** |  | TS 23.502 |
| T2-b: Impact to RRC indication and NAS indication for onboarding | Fei (OPPO) |  | TS 23.502 clause 4.2.2.2  |
| KI#4:T3 | UE Onboarding component #2: Enabling restricted PDU Session for remote provisioning of UE using User Plane (SNPN+PNI-NPN) | **Rainer (Nokia)** |  | TS 23.501 |
| **Rainer (Nokia)** |  | TS 23.502 |
|  |  | TS 23.503 |
| KI#4:T4 | UE onboarding Component #2: Enabling remote provisioning of UE using Control Plane for PNI-NPN | **Yi (China Mobile)****Hualin(Huawei)** | Based on sol #32 using SoR; | TS 23.501 |
| **Yi (China Mobile)****Hualin(Huawei)** | Based on sol #32 using SoR | TS 23.502 |