

# Non 3GPP Mob Enhancement SA3 study discussion

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# Agenda

- **TR related discussion**
  - **Missing pCR implementation**
  - **KI1 and KI3 conclusion**
  - **KI2 Conclusion**
  - **KI4 Conclusion**
- **TS related discussion**
  - **Draft CR Skelton**
  - **Fast BSS for TNAP pCR**

# TR related discussion

- **TR to be concluded in this meeting.** If we don't get the agreement on conclusion, KI will be closed stating no conclusion.
- **Missing pCR implementation**
  - IPSec and MOBIKE based solution for IPSec connection optimization between UE and TNGF  
([https://www.3gpp.org/ftp/Email\\_Discussions/SA3/SA3%23117/Non3GPPMob\\_Sec/S3-24xxx\\_Missed%20pCR%20implementation.doc](https://www.3gpp.org/ftp/Email_Discussions/SA3/SA3%23117/Non3GPPMob_Sec/S3-24xxx_Missed%20pCR%20implementation.doc))

Solutions	KI# 1	KI# 2	KI# 3	KI# 4
Solution #1: TNAP mobility solution with rand	X			
Solution #2: TNAP mobility solution with count	X			
Solution #3: Using Fast BSS Transition for TNAP mobility	X			
Solution #4: Security Establishment for TNAP Mobility	X			
Solution #5: TNAP mobility solution without full authentication	X			
Solution #6: TNAP mobility using modified ERP	X			
Solution #7: Using Fast BSS Transition for N5CW mobility			X	
Solution #8: N5CW device reconnecting			X	
Solution #9: N5CW device mobility solution with Nonce			X	
Solution #10: FBSS over 5G architecture	X		X	
Solution #11: Mobility of N5CW devices			X	
Solution #12: AUN3 device mobility solution with Nonce		X		
Solution #13: ERP based re-authentication for NSWO				X
Solution #14: solution for UE connecting to a new WLAN AP connected via the same NSWOF.				X
Solution #15: Using FT for NSWO				X
Solution #16: N5CW device mobility using security context in AMF			X	
Solution #17: N5CW device mobility solution without AMF impact			X	
Solution #18: AUN3 device reconnecting		X		
Solution #19: AUN3 device mobility solution without AMF impact		X		
Solution #20: Using Fast BSS Transition for AUN3 mobility		X		
Solution #21: IPSec and MOBIKE based solution for IPSec connection optimization between UE and TNGF during re-authentication	X			

# TR related discussion

KI1, KI3 related pending aspect:

- Concluded in the last meeting with Fast BSS based solution. Further conclusion to be agreed in this meeting
  - **Option1:** Conclude the Fast BSS based solution for 802 protocol and for other protocols, there is no need for mobility and no solution is required. Remove the EN
  - **Option2:** Define conclusion for other protocol.

- Need to adopt IPsec based on MOBIKE

*Note: Last meeting to decide anything in Option2.  
Requesting companies to create some position so that we can decide option1 or option2.*

Category of Solutions for KI1/KI3	Solution mapping
Fast BSS	Sol 3, 10
Key derivation-based solution	1,2,4,5
IPsec mobility enhancement (MOBIKE)	Solution 21

# TR related discussion

## KI2 related pending aspect:

- No conclusion till yet.
  - **Option 1:** Fast BSS where ROKH is location in wifi domain, not a part of WAGF/AMF.
  - **Option 2:** AMF based solution
  - **Option 3:** WAGF based solution. It includes Fast BSS based solution as well if ROKH is located at WAGF.
  - *Option 4: “No conclusion”*

Category of Solutions for KI2	Solution mapping
Fast BSS	*Sol 20
AMF based key derivation	Sol 12, 18
WAGF based key derivation	Sol 19 *Sol 20 (if ROKH is deployed in WAGF)

# TR related discussion

## KI4 related pending aspect:

- No conclusion till yet.
  - **Option 1:** ERP based solution.
  - **Option 2:** NSWOF/AUSF based key derivation
  - **Option 3:** Fast BSS based solution
    - Issue associated with Fast BSS deployment for NSWOF
  - *Option 4: “No conclusion”*

Category of Solution for KI4	Solution mapping
ERP based solution (AUSF impact)	Sol 13
NSWOF/AUSF based key derivation	Sol 14
Fast BSS	Sol 15

# TS related discussion

## Skeleton for Draft CR

- Draft CR skeleton
- TNAP Draft CR