# ENs in KI

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| KI#4：Editor's Note: SA1 is consulted for feedback on applicability of the KI.Action：This can be directly removed  |

# ENs in Sol#1

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| Section  | ENs list | Action（vivo） |
| 7.2 | Editor's note: Further updates of PINAPP architecture is needed. | Removed at last TR |
| 7.2.1 | Editor's Note: Whether the suggested architecture for PINAPP is sufficient to meet the PIN related requirements or not is FFS | Removed at last TR |
| 7.2.1.1 | Editor's Note: Whether authorized user apart from PEMC is allowed to manage a PIN is FFS. | For now, the authorized user can communicate with other PINE in PIN, but didn’t see that the authorized user can have the control plane interaction with PEMC. Need requirements or verification of this procedure. |
| 7.2.2.1 | Editor's note: Whether configurations are required to enable direct communication and to enable communication when the gateway device is unavailable is FFS. | I think this is needed. Whether the communication via gateway should be defined or clarify, because this is the convenience that PIN provide. And, also, we should define that the whether the PINE can communicate with other PINE via PEGC.  |
| 7.2.3 | Editor's note: The supports of each reference point is FFS. | Removed at last TR |

# ENs in Sol#2

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| Section  | ENs list | Action（vivo） |
| 7.3.2.1 | Editor's note: The access control information should be coordinated with SA2 and wait for further update.  | Send LS to SA2, and see whether and which information should be sent to PIN server.  |
|  | Editor's note: Whether the PIN modification can be triggered or accomplished internal PIN needs more study.  | I think this should be supported. And the 7.3.2.3.4 has been written in 7.3.2.3.4. PIN modification that internal of PIN should be supported. |
| 7.3.2.2 | Editor's note: Whether those PEMC list provided by the PEMC during modification/creation automatically become the PIN members without explicitly joining the PIN is FFS. | PIN server can decide, which PEMC is active at this moment. Only the active PEMC can manage the PIN, or only the active PEMC can have the maximum permission of this PIN |
|  | Editor's note: How to guarantee there is only on active PEMC at a time and determine the currently active PEMC is FFS. | Add a new parameters or attributes in PIN profile in PEMC. Active or not, or some of the PIN management can be consumed by the PEMC. |
|  | Editor's Note: Whether and how the 5GC involved in the PIN creation is FFS. | Send LS to SA2, see whether there are any interaction between PIN server and 5GC |
| 7.3.2.3.7 | Editor's Note: How the concept of PIN localization is to be captured in this specification, and its alignment with relevant text in 3GPP TS 22.261[2] and 3GPP TR 22.859[3], are FFS. | PIN only has the service area, no location area. So, this should be clarified the localization is service level, not geographic area.  |
| 7.3.3 | Editor's Note: More evaluation of this solution is waited for updated. | Update in SA6 51e |

# ENs in Sol#3

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| Section  | ENs list | Action（vivo） |
| 7.4.2.2.1 | Editor's note: The authorization procedure between PIN client and PEMC should be captured in SA3 scope.  | Send LS to SA3, PEMC authorizes the PINE  |
|  | Editor's note: The access control information should be coordinated with SA2 for further study.  | Send LS to SA2, and see whether and which information should be sent to PIN server. |
| 7.4.2.2.3 | Editor's note: The authorization procedure between PIN client and PEMC should be captured in SA3 scope.  | Send LS to SA3, and give the security procedure and details. |

# ENs in Sol#4

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| Section  | ENs list | Action（vivo） |
| 7.5.2.2.1 | Editor's note: The security credentials design and the authorization procedure is in the scope of SA3.  | Send LS to SA3, security issues between PEMC and PIN server.  |
| 7.5.2.2.2 | Editor's note: The access control information in PEGC should be coordinated with SA2.  | Send LS to SA2, and see whether and which information should be sent to PIN server. |

# ENs in Sol#5

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| Section  | ENs list | Action（vivo） |
| 7.6.2.2.1 | Editor's note: The authorization and authentication procedure should be defined in SA3 and wait for SA3 to reply. | Send LS to SA3, PEMC performs authorization to PINE. |

# ENs in Sol#6

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| Section  | ENs list | Action（vivo） |
| 7.7.2.2 | Editor's note: Other parameters will be defined of updated in PIN in future.  | Remove at last TR phase |
| 7.7.2.3 | Editor's note: Relationship between the PIN profile and dynamic profile information of PIN is FFS.  | In my view, PIN profile likes the configuration of a PIN; but the dynamic PIN profile, sounds like the PIN context, and the PIN context will be released after PIN released.  |

# ENs in Sol#7

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| Section  | ENs list | Action（vivo） |
| 7.8.2.2.2 | Editor's note: Whether and how the PIN elements discover the PIN server needs more study.  | One the PINE sends the discovery request to PEGC, and PEGC routes to the PEMC or PIN server.Another is, the PEGC directly response with PINE of PIN server IP or PEMC IP address.Prefers the first one.  |
|  | Editor's note: Whether and how the PEMC distributes the PIN server IP address to other PIN elements needs more study. | PEMC can update the PIN server IP address to other PINEs via control plane.  |

# ENs in Sol#10

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| Section  | ENs list | Action（vivo） |
| 7.11.2.2 | Editor's note: The authorization check needs SA3 for feedback.  | Sends LS to SA3, PEMC and PINE procedure |
| 7.11.3 | Editor's Note: More evaluation of this solution is waited for updated. | Update in SA6 51e |

# ENs in Sol#12

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| Section  | ENs list | Action（vivo） |
| 7.13.2.2.2 | Editor's note: whether and how to 5GS check the UE identified by the GPSI has subscribed to be a PEMC is in SA2 scope.  | Sends LS to SA2, whether the 5GC can check the UE ID that can be a PEMC. Or, the procedure is only PIN server can check and the user has subscription with PIN server. |

# ENs in Sol#14

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| Section  | ENs list | Action（vivo） |
| 7.15.2.2 | Editor's note: How to the PIN server interacts with 5GS to establish PDU session for PINE is in SA2 scope.  | Sends LS to SA2, whether the AF can trigger the PDU session establishment or QoS establishment. (As far as I know, this is the existing procedure, as long as the parameters are provided by PIN server, AF) |
| 7.15.2.3 | Editor's note: How to the PIN server interacts with 5GS to receive credentials is in SA2 scope. And the definition and architecture of credentials for PINE is in SA3 scope. | Sends LS to SA2 and SA3, whether there has the credentials delivery in SA2, and how to design the credentials.  |