AN-CN Functional Division in 3GPP-BBF context

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Some Observations

- Access and core network dependencies can be minimized by specifying a converged access-agnostic core with a common AN - CN interface which integrates different 3GPP and non-3GPP access types
- Access/core network decoupling allows for parallel and independent design and evolution of access networks and core networks
- Basically in scope will be LTE, 5G New Radio, non-3GPP access

Open Issues and Questions

- **Mainly two types of convergence, Functional and Structural:**
  - **Functional convergence by using Functional decomposition (Access and Core)**
    - Access-specific functionality: such functionality applies only to a specific (set of) AN(s)
    - Common Access functionality: such functionality applies to all ANs, though the set of information/parameters/policies used for the functionality may be dependent on the specific AN and is hence of key relevance for the BBF
    - Core functionality: Fixed core network functions? (BNG?)
    - Common Core functionality
    - Signalling: Can it be considered that UEs that access the NextGen CN over non-3GPP access utilize the 3GPP NextGen NAS signalling?
  - Structural convergence:
    - Can this be realized by using a common platform?
- **Working phases and focus (or content) to be identified in the Workshop:**
  - 3GPP SA2 agreed for the first phase of 5G normative specification that: “Standalone" non-3GPP accesses are in the scope
    - Are only untrusted non-3GPP accesses activities considered in 3GPP 5G Phase 1?
    - Will the solution for untrusted would basically just carry over existing interworking mechanism?
  - Will Trusted non-3GPP accesses be considered at a later phase (in 3GPP 5G Phase 2) of this work?

Thank You

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