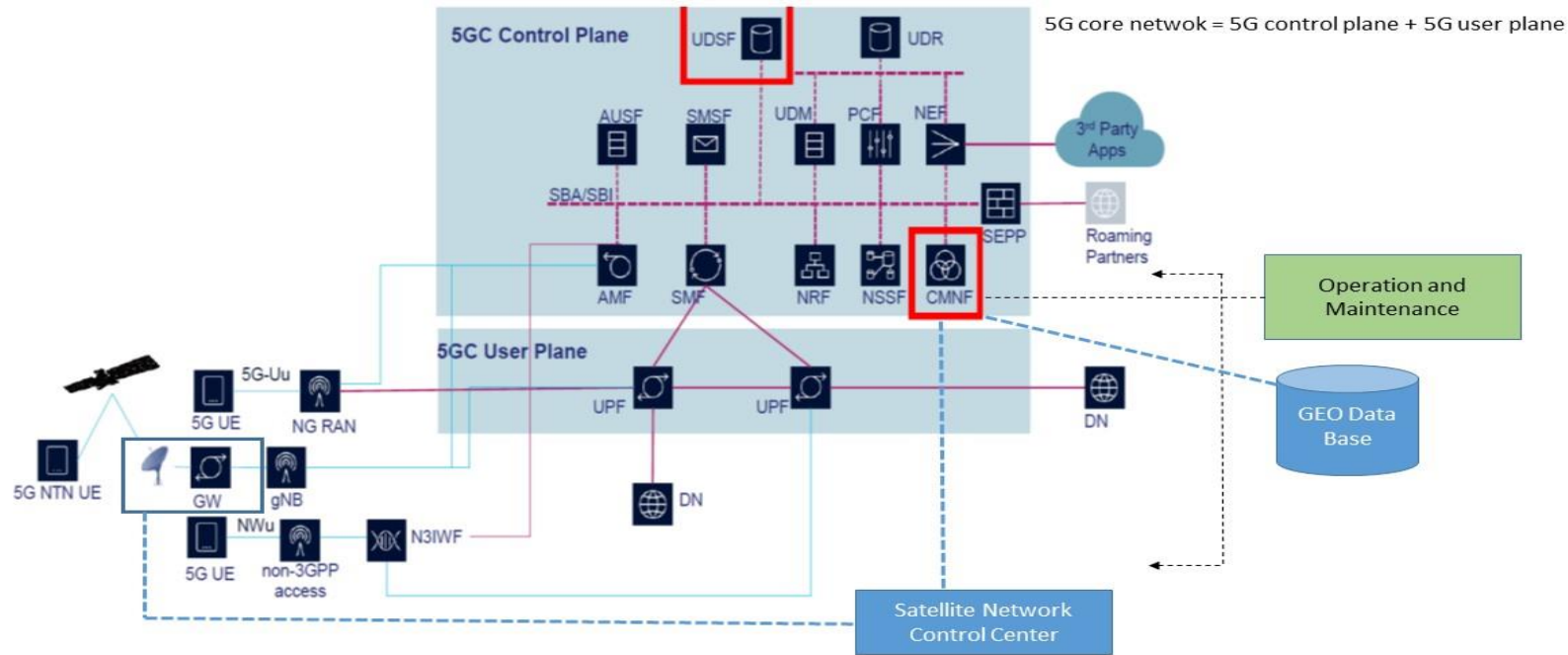To go beyond R17 solution based on ephemeris and assistance data broadcast on SIB , a complete **coverage map service** need to be available in network side, to be more accurate, complete and save UE power.

5G core network functions that may need it, such as AMF (Access and Mobility Management), in charge of managing network access and terminal mobility, or NEF (Network Exposure Function), which provides network-related information to third-party services, or any other service like PS, will have to interface with as many proprietary interfaces, generating additional integration costs.

To leverage on benefits inherent to SBA/SBI architecture of the network:

- Standardization of interfaces and methods of access to information allowing the centralization and distribution of the same information (mapping, events) to other network functions (NF)
- Integration with the operator's NF virtualisation and slicing policy
- Lifecycle management functions common to other NFs.
- Security

=> **It is proposed to consider introducing an new NF: CMNF <u>Coverage Map Network Function in the 5GC</u>**

Thales, discussion slides for Call Conference 11th July 2022