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5G Multicast Broadcast Services

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5G Multicast Broadcast Services (MBS)
Quick guide

Which specifications are under implementation?

- 5g-mag.github.io/Standards/pages/5g-multicast-broadcast-services.html

Which reference implementations are made available?

- 5g-mag.github.io/Getting-Started/pages/5g-multicast-broadcast-services/
- **Repositories**
- **Projects**

How can I play?

- **Tutorials**

Note that these tools may require other components such as:

- Multimedia Content Delivery Protocols

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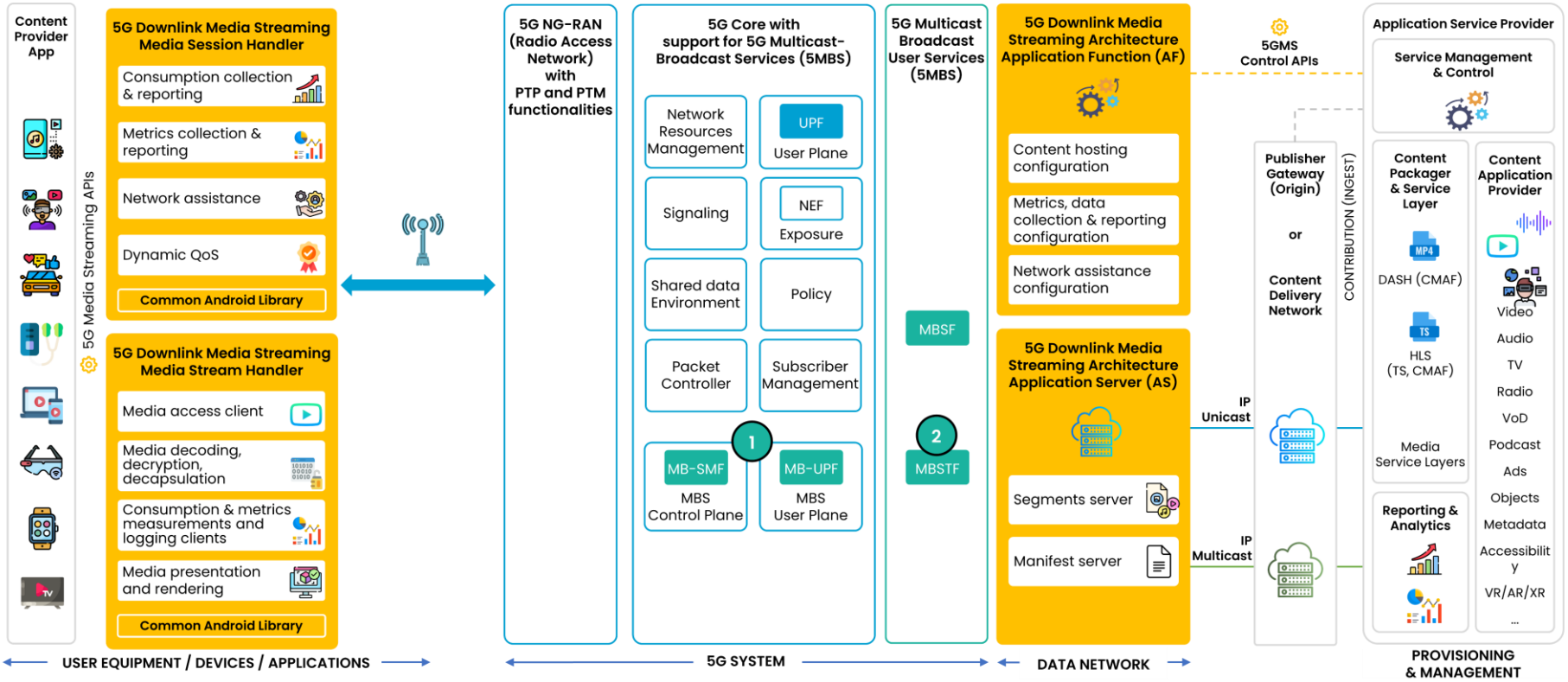
5G Multicast Broadcast Services (MBS)

What is being implemented?



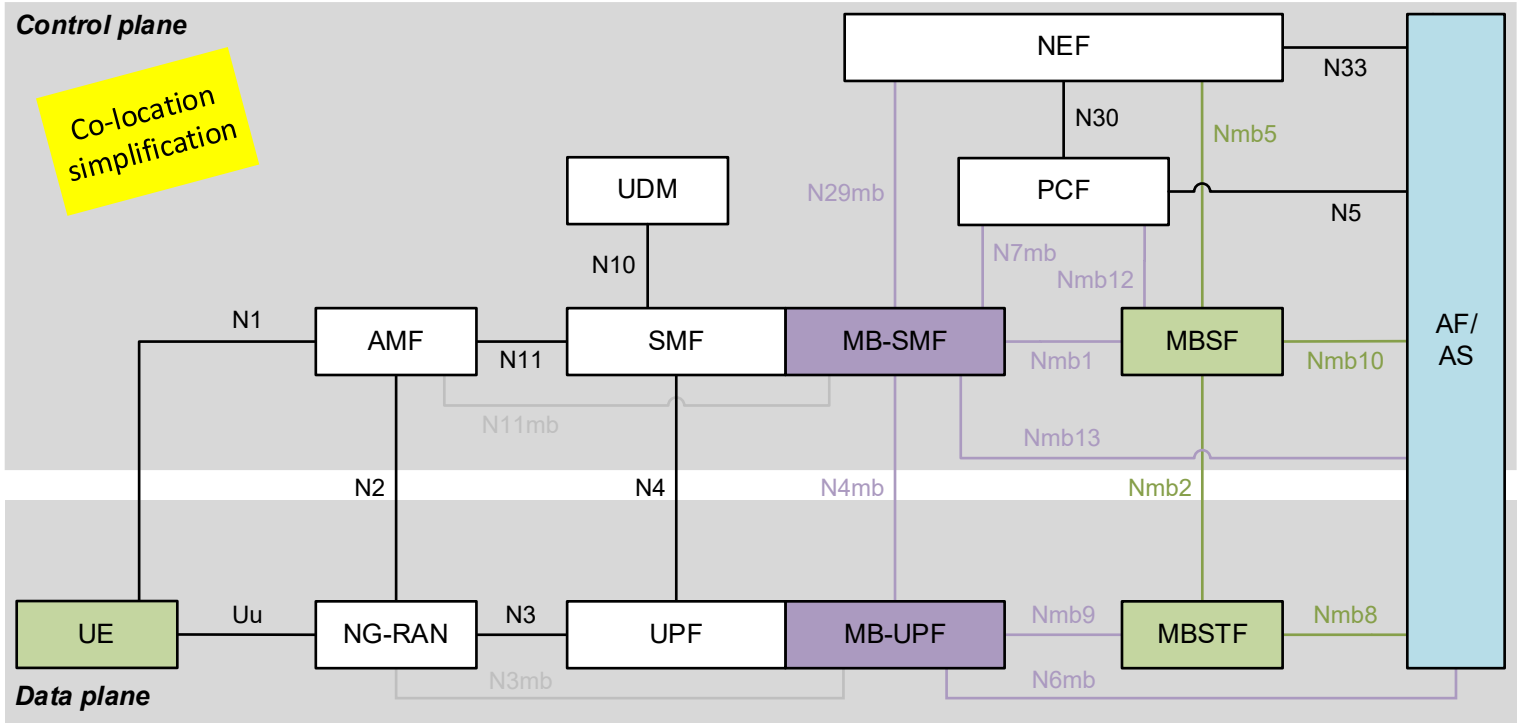
5G Multicast Broadcast Services (MBS)

What is being implemented?

1. **open5gs/mbs**
   (Branch implementing MBS Core components)
   AGPLv3.0
2. **rt-mbs-transport-function**
   (MBS User Services MBSTF)
3. **rt-mbs-examples**
   (MBS Examples)
   5G-MAG PLv1.0

Public release · Early Access · Linux · Windows · Android · APK · Docker · Cloud · Postman API · Web Interface · Dependency · Code Licence

- Initial support of 5G Multicast Broadcast services (MBS)



Projects

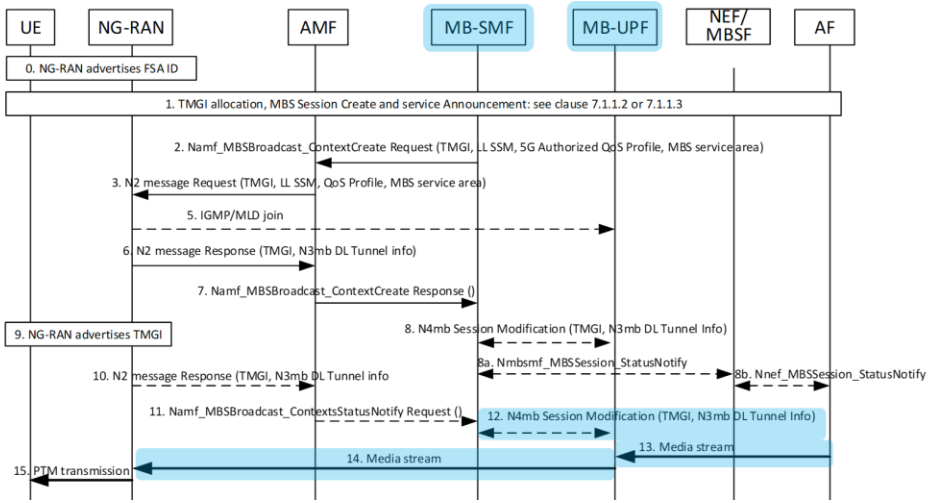
5MBS Core functions

The reference implementation makes two simplifications:

- MB-SMF implementation is co-located with the SMF, so reference point **N16mb** is subsumed.
- MB-UPF implementation is co-located with the UPF, so reference point **N19mb** is subsumed.

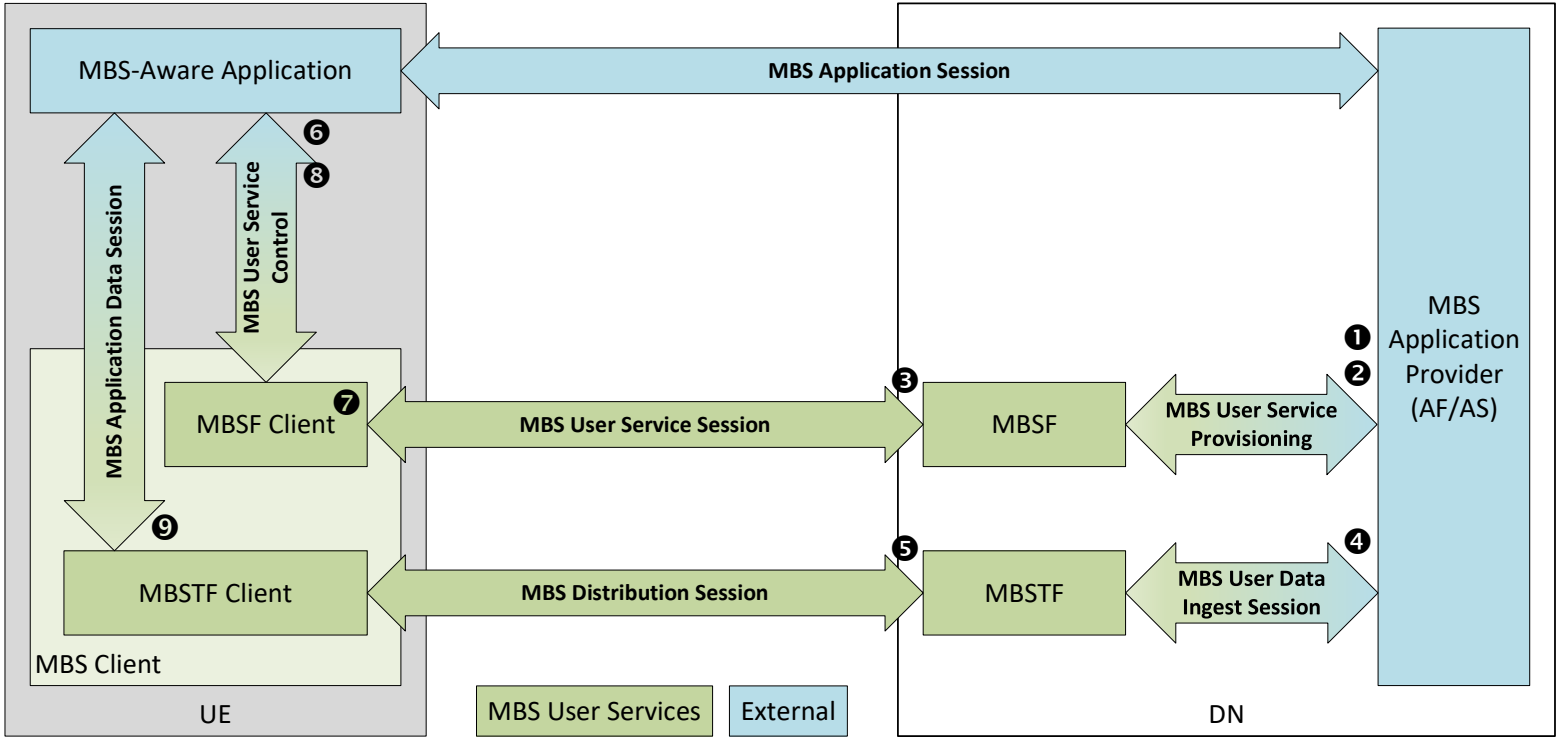
- **Under development…**
  - Start with Broadcast mode in RAN and 5G Core
    - MVP#0: only user plane – MB-UPF
    - MVP#0.1: user plane and control plane* – MB-UPF, MB-SMF* and AMF*
  - Continue with Multicast mode in 5G Core (only shared subset with Broadcast)

- **Not implemented and welcome…**
  - Support for MBS in gNodeB
  - MBS User Services
  - Linux-based Modem with MBS support



Network Functions available
AMF (with Rel-17 MBS features)
SMF + MB-SMF
UPF + MB-UPF
Test MBS AF/AS
gNB (with Rel-17 MBS features)
UE (with Rel-17 MBS features)

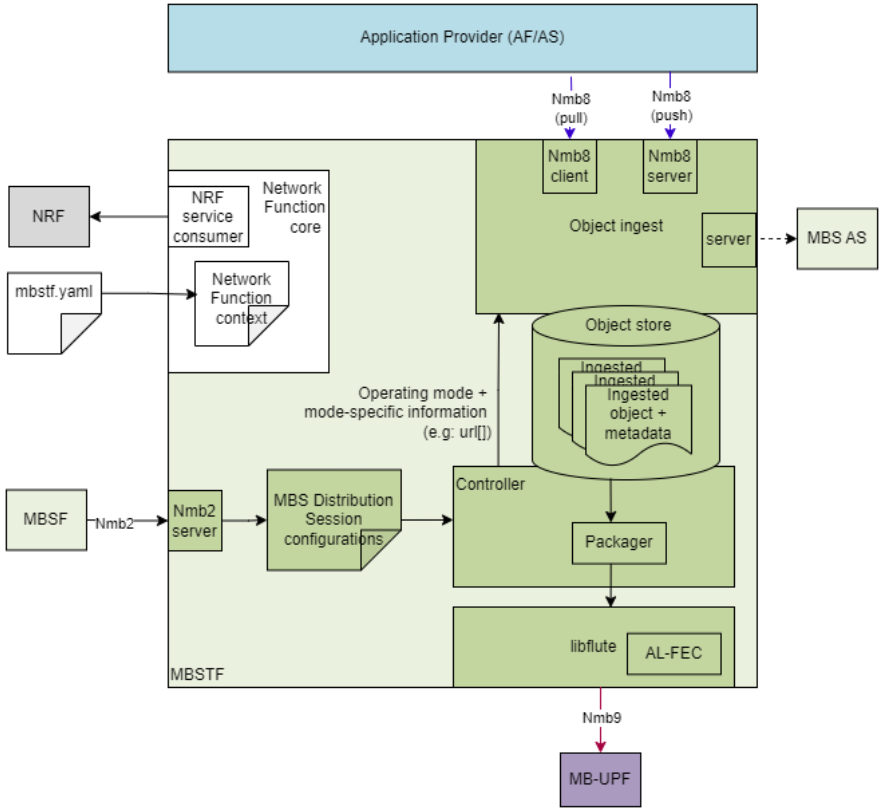
- Initial support of 5MBS User Services



Projects

5MBS: User Services initial release

This Project has recently started. More information soon.



5G Multicast Broadcast Services (MBS)
Tutorials

- How to use the tools? Check the GitHub Tutorials
- Developer Xchanges and Updates: 5g-mag.com/tutorials
- Video library for 5G Multicast Broadcast Services (MBS): https://youtube.com/playlist?list=PLFqKJZ78_IWXSCsSEKeyAay10luuVF9io

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