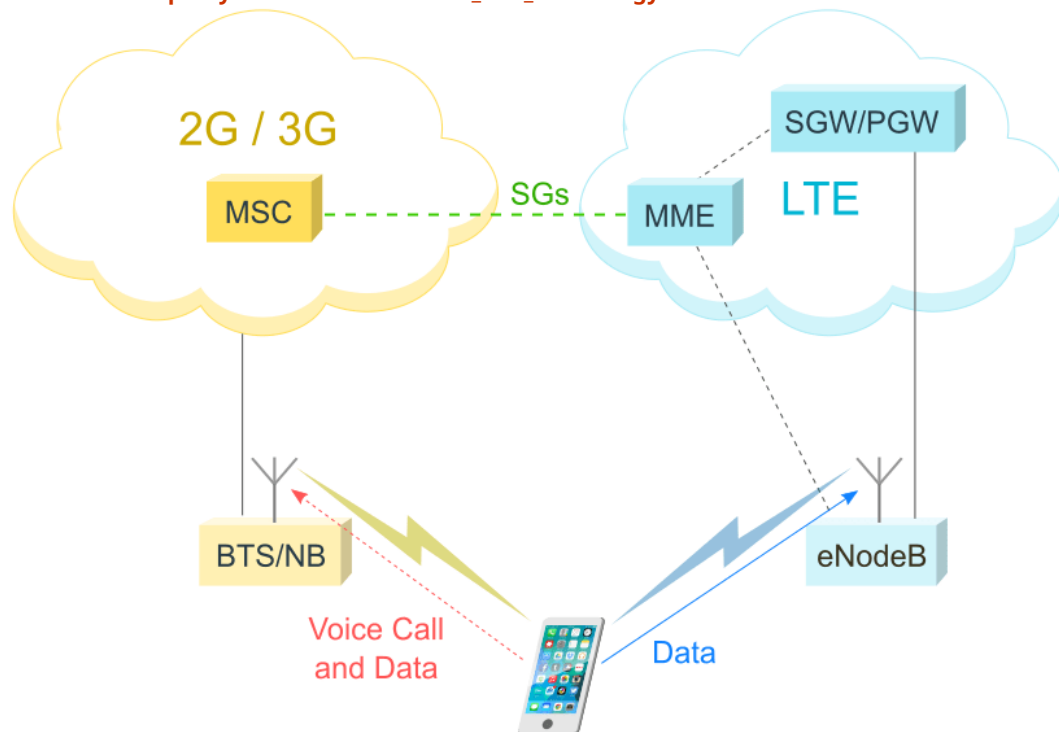


# Voz: CSFB ou VoLTE

[https://yatebts.com/solutions\\_and\\_technology/csfb-to-volte-evolution/](https://yatebts.com/solutions_and_technology/csfb-to-volte-evolution/)



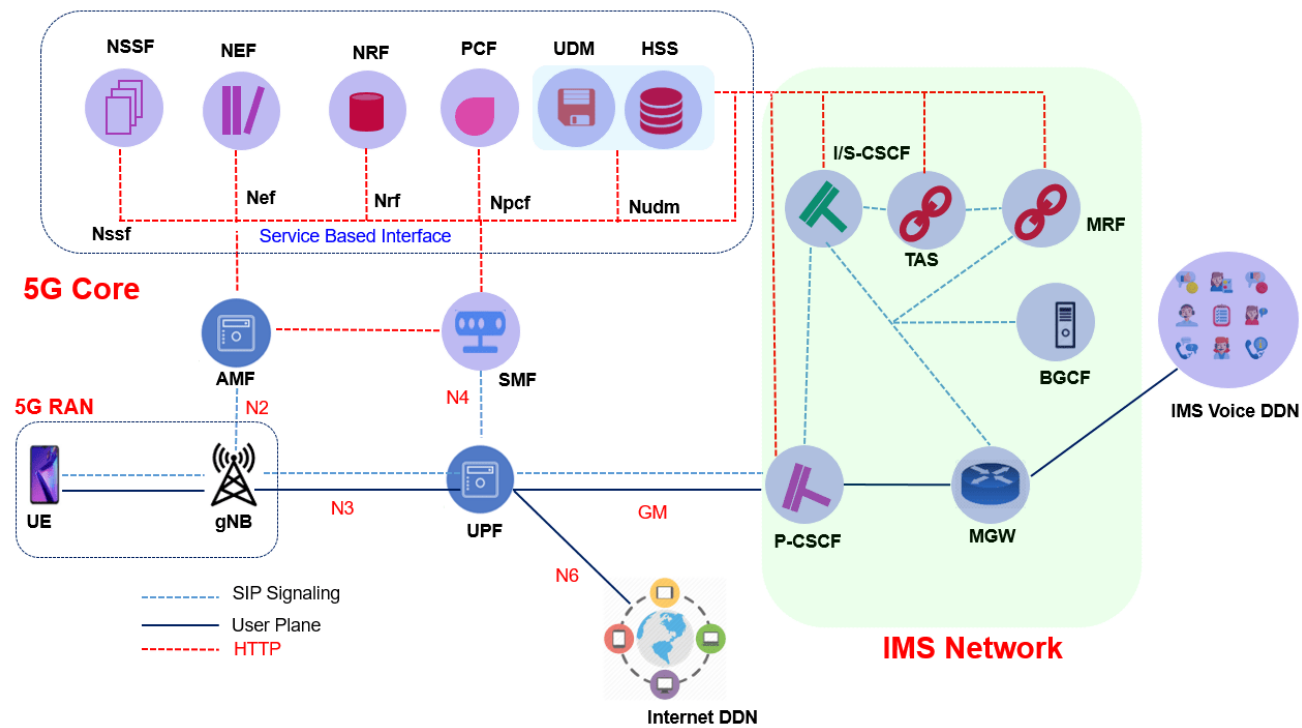
<https://www.mpirical.com/blog/delivering-5g-voice-services>

| Feature                   | CSFB                                       | VoLTE                                   |
|---------------------------|--|---|
| Easy of Deployment        | Challenging, but not as difficult as VoLTE | Numerous major challenges to overcome   |
| Economic Considerations   | Minor                                      | Major                                   |
| LTE Coverage Requirements | Low  | High                                    |
| Call Setup Time           | Approx. 3-7 secs                           | Approx. 2-4 secs                        |
| Voice Quality             | Acceptable                                 | HD Voice                                |
| Lifespan                  | 2G and 3G limited life                     | IMS forms basis for 5G voice and beyond |

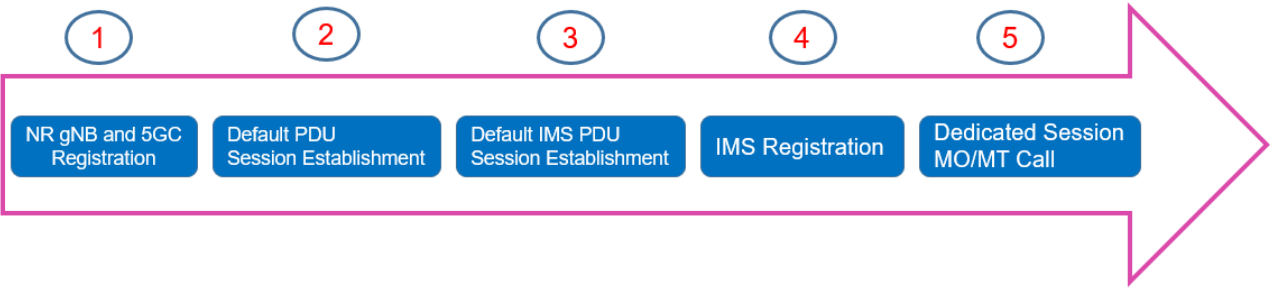
CSFB (Circuit Switch Fallback) é uma tecnologia que suporta serviços de voz e SMS em redes 4G utilizando sistemas 2G/3G.

Já VoLTE (Voice over LTE), significa que uma chamada é feita através de uma rede 4G (Fazer chamadas por IP).

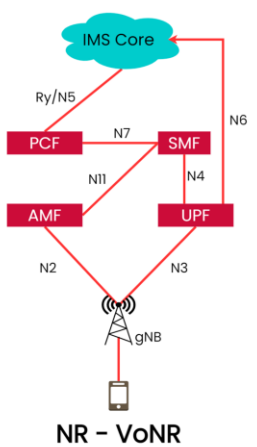
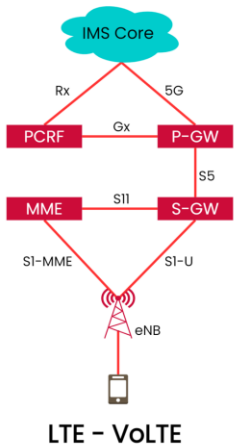
# Exemplo: VoNR



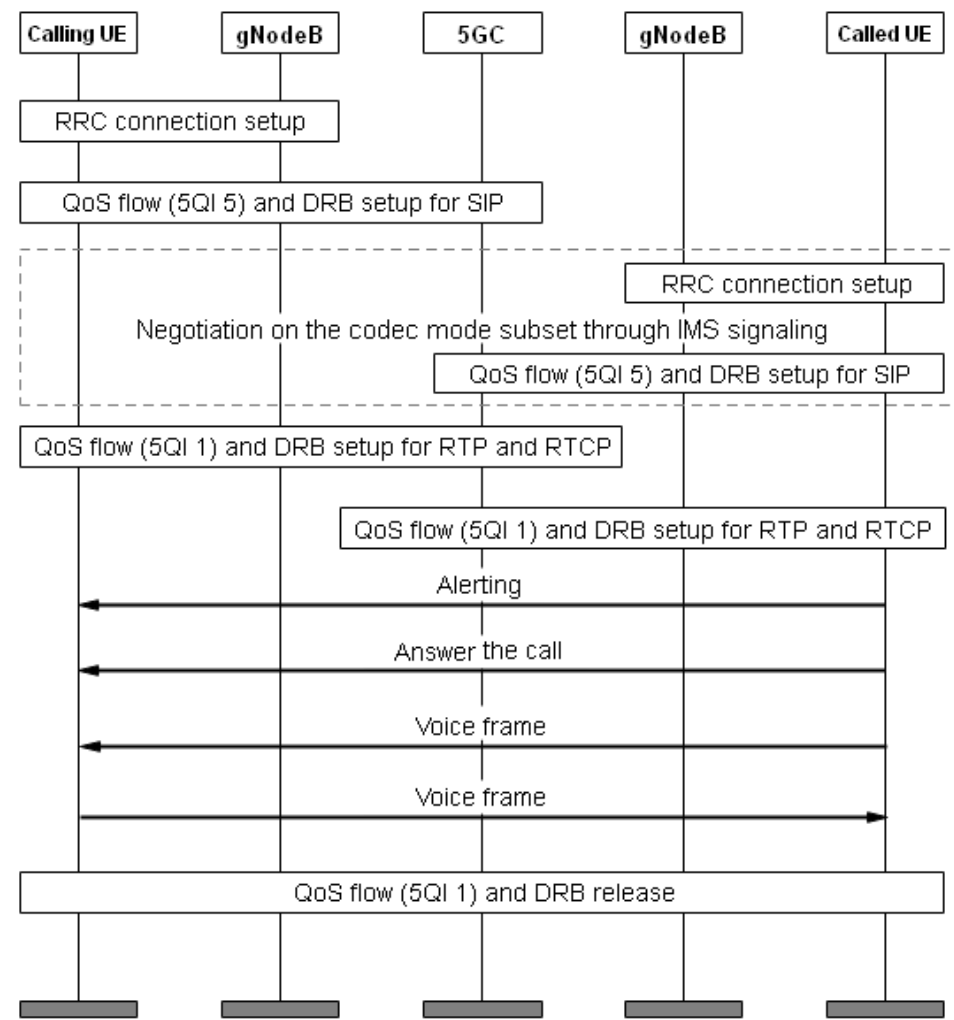
## VoNR Call Setup



- Componentes principais: 5G RAN, 5G Core, IMS
- Estabelecimento de sessões específicas de PDU
- QoS



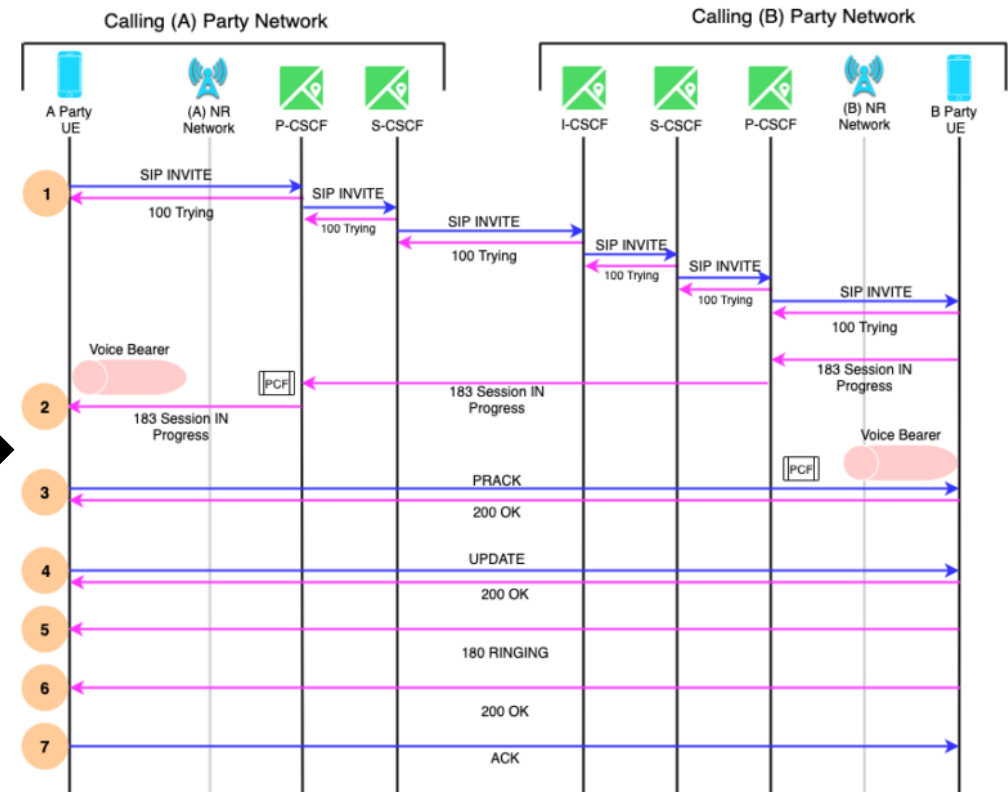
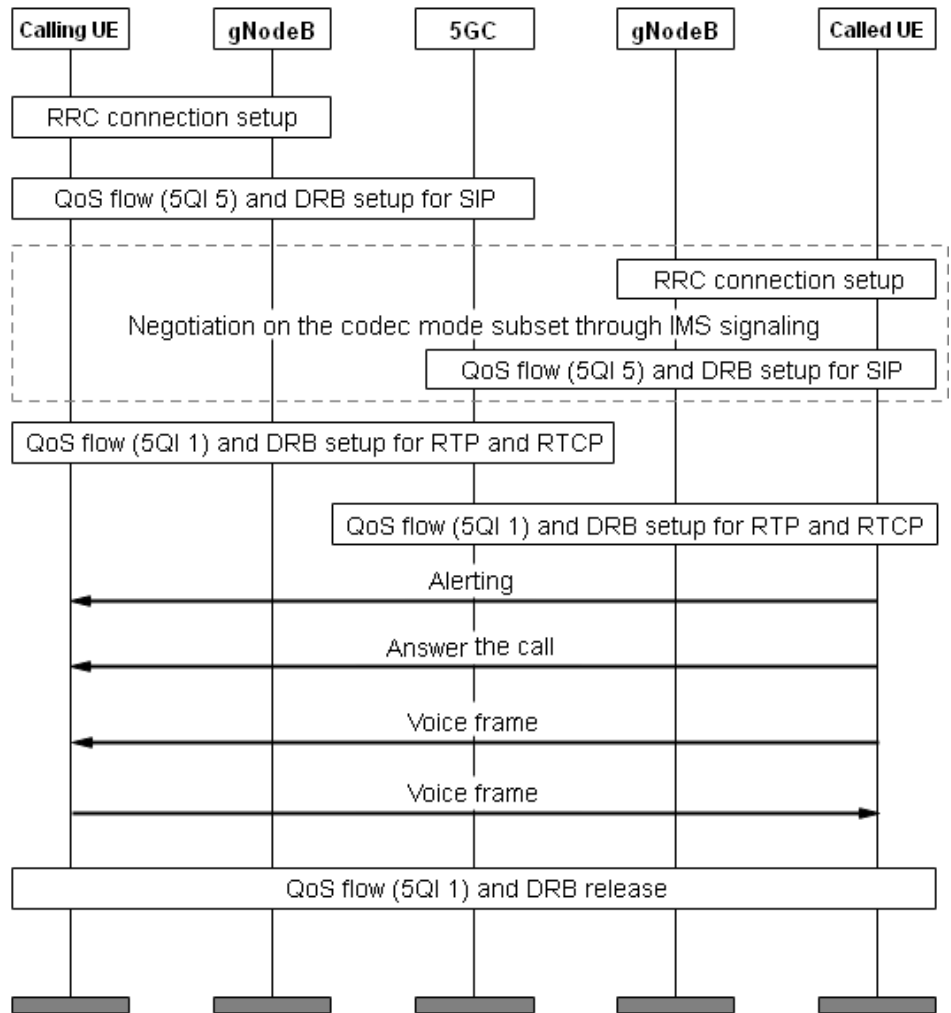
Fluxo de chamadas VoNR



<https://www.5gworldpro.com/blog/2021/05/30/voice-over-nr-call-flow/>

<https://www.techplayon.com/5g-nr-sa-registration-attach-call-flow/>

## Fluxo de chamadas VoNR



<https://www.5gworldpro.com/blog/2021/05/30/voice-over-nr-call-flow/>