draft-kh-spring-ip-ran-use-case-01.txt

SPRING WG
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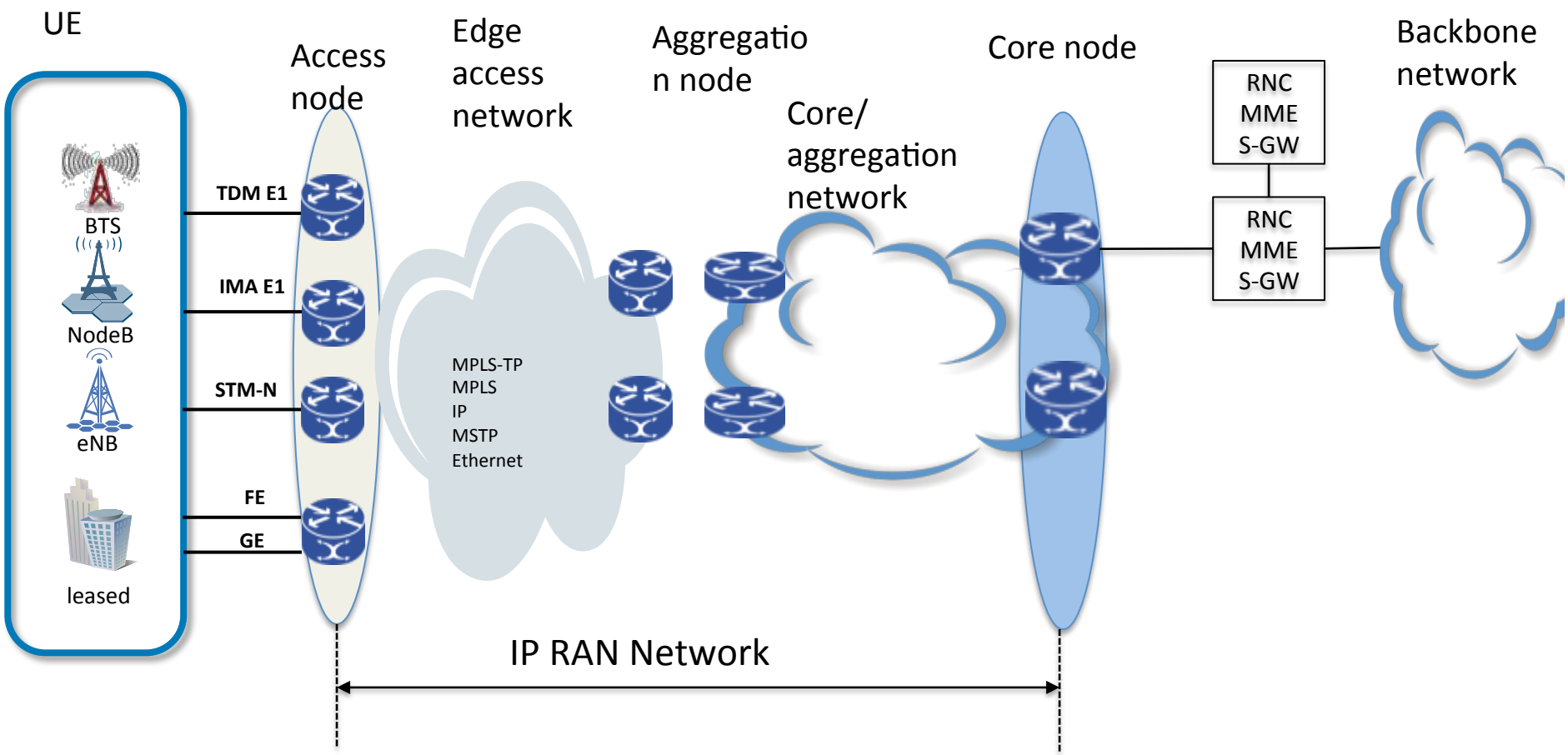
Motivation

- Try to analysis the segment routing use case in IP RAN network
- Initiate the discussion of the topic
- Have a consistent agreement
  - Segment routing is useful and helpful for IP RAN network (based on discussion with Operators)

Traditional IP RAN network



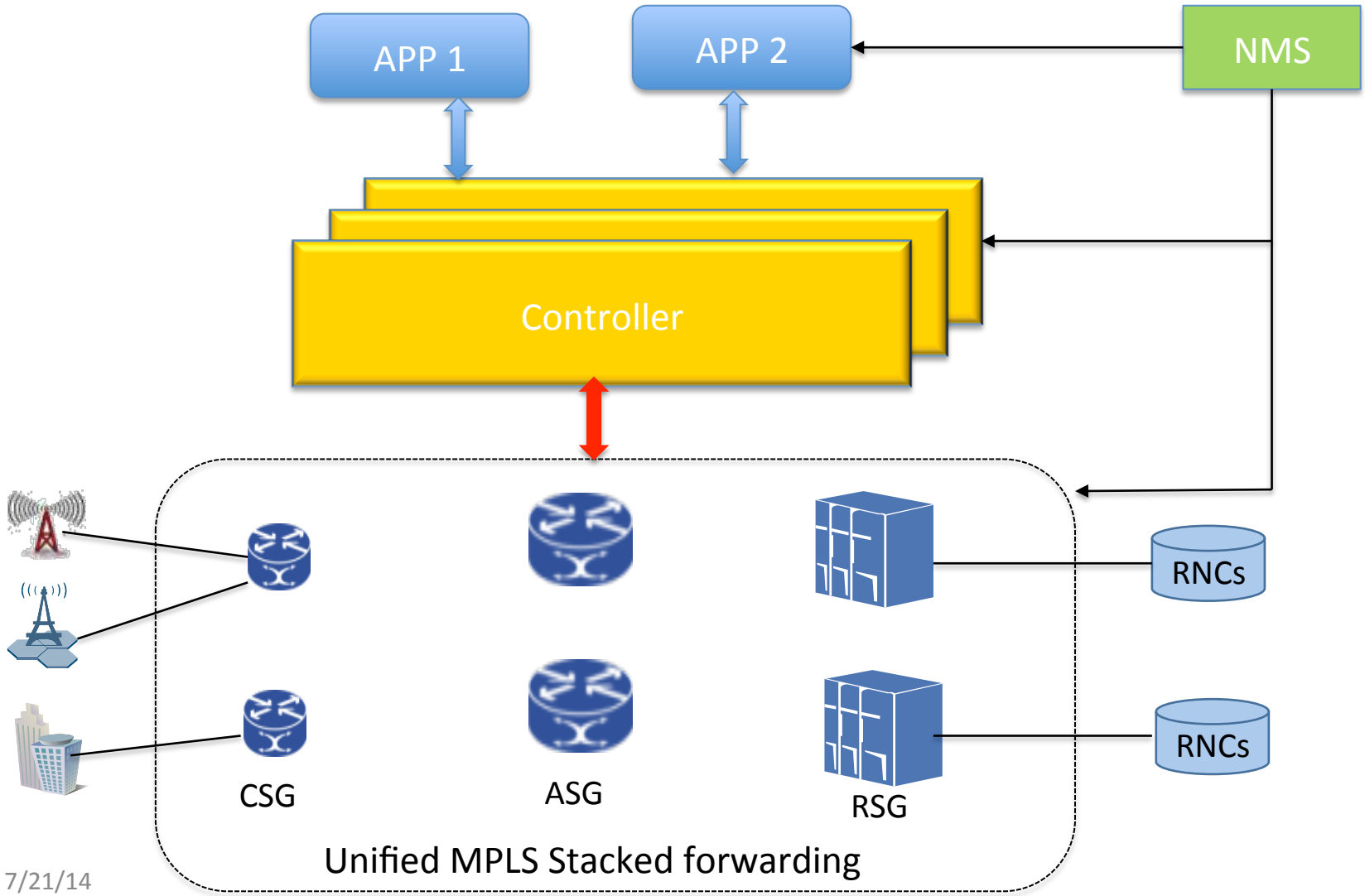
Requirements for traditional IP RAN network

- End-to-end transport LSP
- OAM
- Protection
- Scalability
- Security
- Survivability
- Flexibility and Overheads

What Segment Routing can bring to IP RAN

- Simplifies
  - end-to-end LSP tunnel establishment
  - management and operations
- Supports
  - Network virtualization
  - Unified OAM mechanism
  - Traffic engineering
  - Fast ReRoute
  - Flexible policy deployment

Unified Service Deployment



Requirements for the controller

- Needs to support
  - Network topology collection
  - Network resource management
  - Route computation
  - Distribution of MPLS label to the forwarding nodes
  - Interworking and extensions
- Support service chaining
- Support secure channel

Next Step

- Solicited request for comments and suggestions
- Inviting others to work with us on this topics

Thank you!

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