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Mobile network: network function virtualization

Data center

Mobile Core

Internet traffic

Access Network

Access Network

Access Network

Access Network

Internet traffic

MN11

MN21

CN4

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Mobile network: network function virtualization with DP-CP separation architecture

Control plane: Location Management, Route Management RM-CP

Data plane: Route Management RM-DP

Access Network

Internet traffic

Mobile Core

RM-CP

LM

RM1-DP

Access Network

MN11

RM3-DP

Access Network

MN21

RM2-DP

Access Network

CN4

RM4-DP

Internet traffic

LM

RM-CP

RM1-DP

Access Network

MN11

RM3-DP

Access Network

MN21

RM2-DP

Access Network

CN4

RM4-DP

Mobile Core

Network function virtualization with DP-CP separation architecture
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Mobility management options

Route optimization under same network

Internet traffic

Move
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Mobility management options

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Internet traffic

New IP addr

Move

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Mobility management options

Internet traffic

Move IP addr

Access Network

RM1-DP

RM3-DP

RM2-DP

RM4-DP

Mobile Core

LM

RM-CP

MN11

MN11

Move

Move IP addr

Internet traffic

Access Network

Access Network

Access Network

Access Network

CN4

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Comments and suggestions are welcome

Thank you