The paradigm shift towards distributed and data centric networks in the cloud

Michael Clever
Vice President Converged Core, Nokia
Future 5G networks have extremely diverse requirements
Move processing capacity to the edge - but hold the data in one place

Common Data

- Low latency
- High Performance

Capacity
- >10 Gbps peak data rates
- 100 Mbps whenever needed
- 10 years on battery
- Massive machine communication
- Critical machine communication

Connectivity
- 1,000,000 devices per km²

Latency
- <1 ms radio latency

Reliability
- 5G, LTE Macro & small cell
- Edge data center
- 1,000,000 devices per km²
- >10 Gbps peak data rates
- 10 years on battery
- Massive machine communication
- Critical machine communication

100 Mbps whenever needed

Future 5G networks have extremely diverse requirements:
- Capacity
- Connectivity
- Latency
- Reliability

- 10 years on battery
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1,000,000 devices per km²

100 Mbps whenever needed

<1 ms radio latency
The Role of the Shared Data Layer
A paradigm shift towards a data centric network architecture

- Open export API
- Analytics
- API exposure
- Data exposure
- Data sharing
- Shared Data Layer
- Subsriber
- Session
- Policy
- Other
- Multivendor API
- VNfs
- HSS
- AAA
- EPC
- TAS
- CSCF
- 3rd Party
- 3rd Party
Shared Data Layer benefits – Example 1

Unlimited capacity - Use network resources only when needed

“State efficient” VNFs for more capacity
Seamless services at radically reduced costs
Shared Data Layer benefits – Example 2
New revenues streams and network optimization – Real time big data analytics

Traffic and network optimization

RAN Cloud and Mobile Edge Computing

Real-time analytics

Data exposure

New Services and Revenue Streams

Shared Data Layer
New solution for future networks
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<td>Consolidating data in one place (Shared Data Layer)</td>
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<td>Real time big data analytics</td>
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<td>Unlimited capacity</td>
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<td>Ultimate robustness</td>
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