

Smart Networks and Services

Future research challenges on Software Networks

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(SDN&NFV) and Cloud Computing

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Trusted partner for your Digital Journey

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SOTA SDN/NFV gaps and research challenges to move forward on smart networks

1. Unification of network and cloud resources management

 Full integration between network management and virtualization is not solved. → e.g. needs of advanced OAM mechanisms within SDN (gaps on fault management SFC) that should be driving cloud/NFV placement decisions

2. Cloud-native NFV orchestration

- VNFs are broken into microservices/CNFs
- increasing self-management capabilities: auto-provisioning, auto-redundancy.
- but, there are existing networking gaps as for example current integration of NFVO solutions into containers orchestration

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Research Challenges for future work – Next Generation Cloud Computing











