Multi-domain Orchestration for Software Defined Infrastructures

The European 5G Exchange (5GEx) enables efficient business and technical cross-domain orchestration of services over multiple intra-domain administrations, with the goal of automatically assigning and mapping virtualised service elements, which represent service and network functions and components.

5GEx creates opportunities for operators to buy, sell, and integrate infrastructure services in an automated and cost-effective manner.

5GEx is building a working end-to-end system and deploy a proof-of-concept prototype, which includes the concept of a Sandbox Exchange, intended to enable new ways of experimentation and use case validation close to an operating environment facilitating the transition from experimentation to piloting and further to real-world operation.

The 5GEx architecture proposes a system based on SDN and NFV principles.

At a high level, the multi-domain orchestrator governs and manages domain orchestrators and controllers in charge of enforcing the services on the underlying network, compute, and storage components. A third-party orchestrator can also be part of the different envisaged scenarios.

Through interface 2, network operators can interwork to exchange information, functions and control, while they process customer request through interface 1.

Our Mission

• Enable cross-domain service orchestration
• Realize composite services built on cross-domain resources
• Develop business models for operators to trade 5G services
• Build and deploy a system prototype, based on “Sandbox Exchange”
• Contribute to standard forums and Open Source communities.

http://www.5gex.eu/