SENDATE from an SME's perspective

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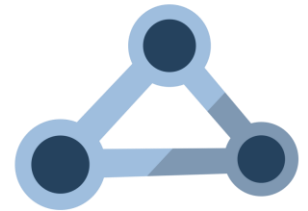
BISDN

- Founded 2012

- 12 employees from all over Europe
  - Initial team from EU-funded project OFELIA

- Self-funded

- Close cooperation with DT Innovation Labs
  - Contract work for system integrators

What we do

- Prototypes of virtualised network functions (VNF) since 2012

  - vBRAS, SGW, PGW

  - WiFi Access Gateway, vCPE

- Currently: Field trial for WiFi managed network

- Products on white-boxes

  - DataCenter Switch / OpenStack integration

  - WiFi Access Points and Access Controllers
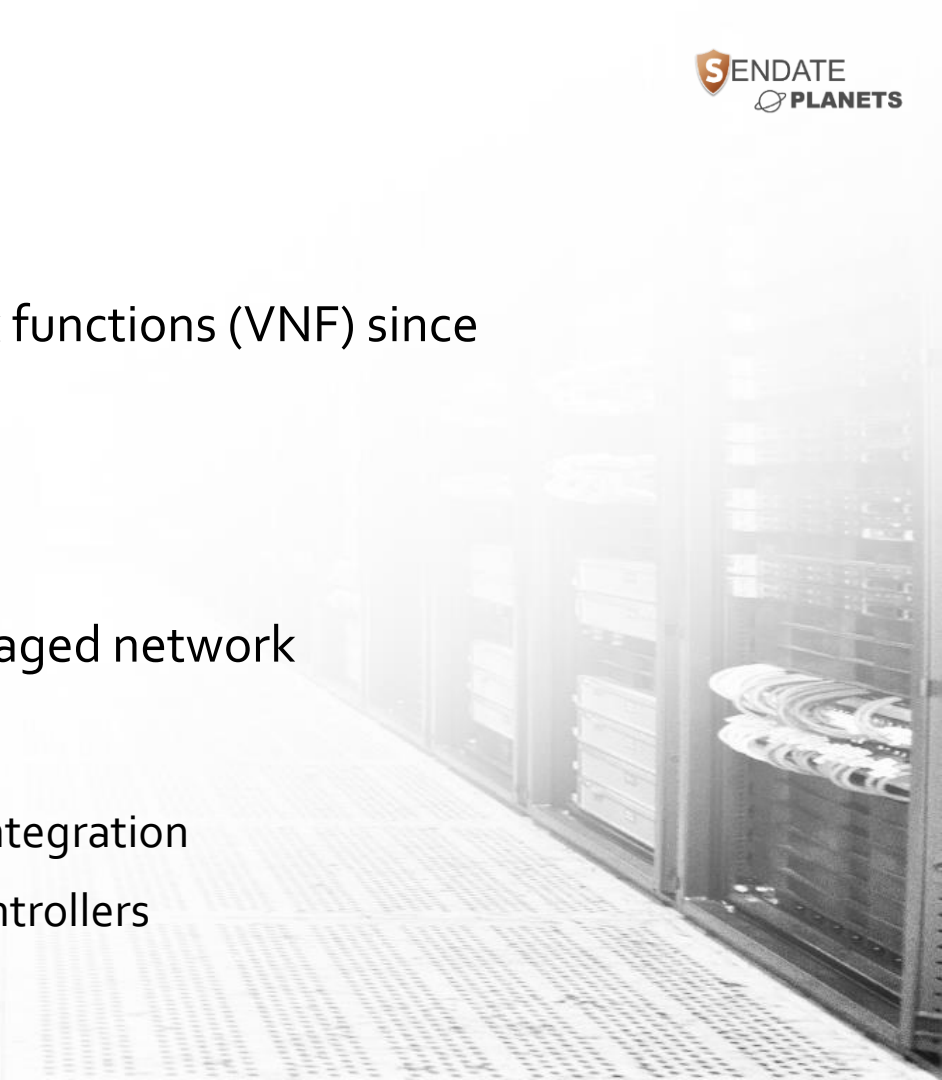
White-box?

- Silicon vendors => *SDK*

- ODM => *BSP*

- SMEs (and many of them together) =>   open OS
  - SDK: Software Development Kit
  - ODM: Original Device Manufacturer
  - BSP: Board Support Package
  - SME: Small&Medium Enterprise
  - OS: Operating System
  - *NDA: Non-disclosure agreement needed for SDK and BSP*

**White boxes are a means to an end:
Bring innovation back to networks.**

What innovation?

- IPSec needs hardware acceleration

- WiFi encryption/decryption

- Virtualized I/O for OpenStack and containers needs hardware acceleration

- QoS (traffic policing and shaping)...

- **Open platforms with hardware acceleration are rare**

- Whiteboxes get this problem out of the way.

Why we participate

- Collaboration on tools makes sense

- Commercial solutions can be built on top

- BMBF funded project allows pre-competitive development

- PLUS: **IPR remains with us**