Discussion on Virtualization of ForCES Functions (CE, FE, etc.)

ForCES WG/Routing Area, IETF86
Bhumip Khasnabish
(bhumip.khasnabish@zteusa.com, vumip1@gmail.com,)
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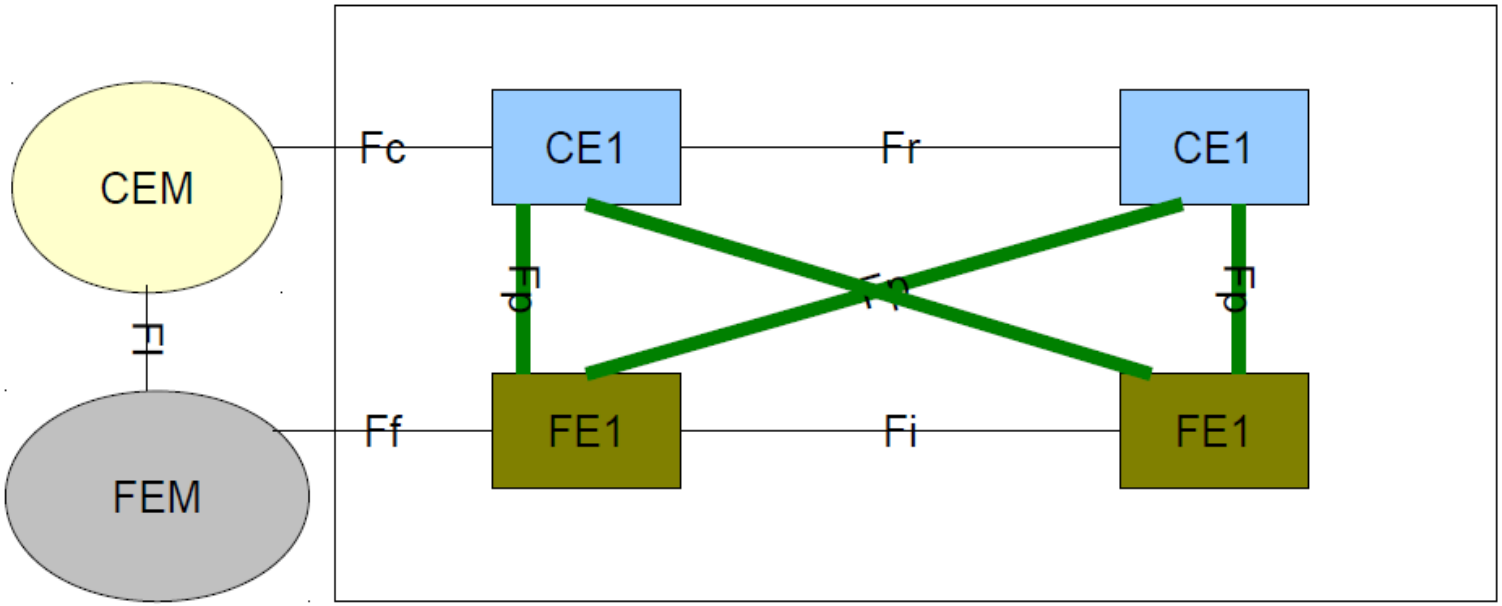
Outline

- Current ForCES Architecture
- Virtualization of ForCES Functions
  - CE/FE/… virtualization
- Updated Model
- Advantages of the Updates
- Possible New Work Items
  - Call for Contributions/Participation
- Discussion, and Next Steps

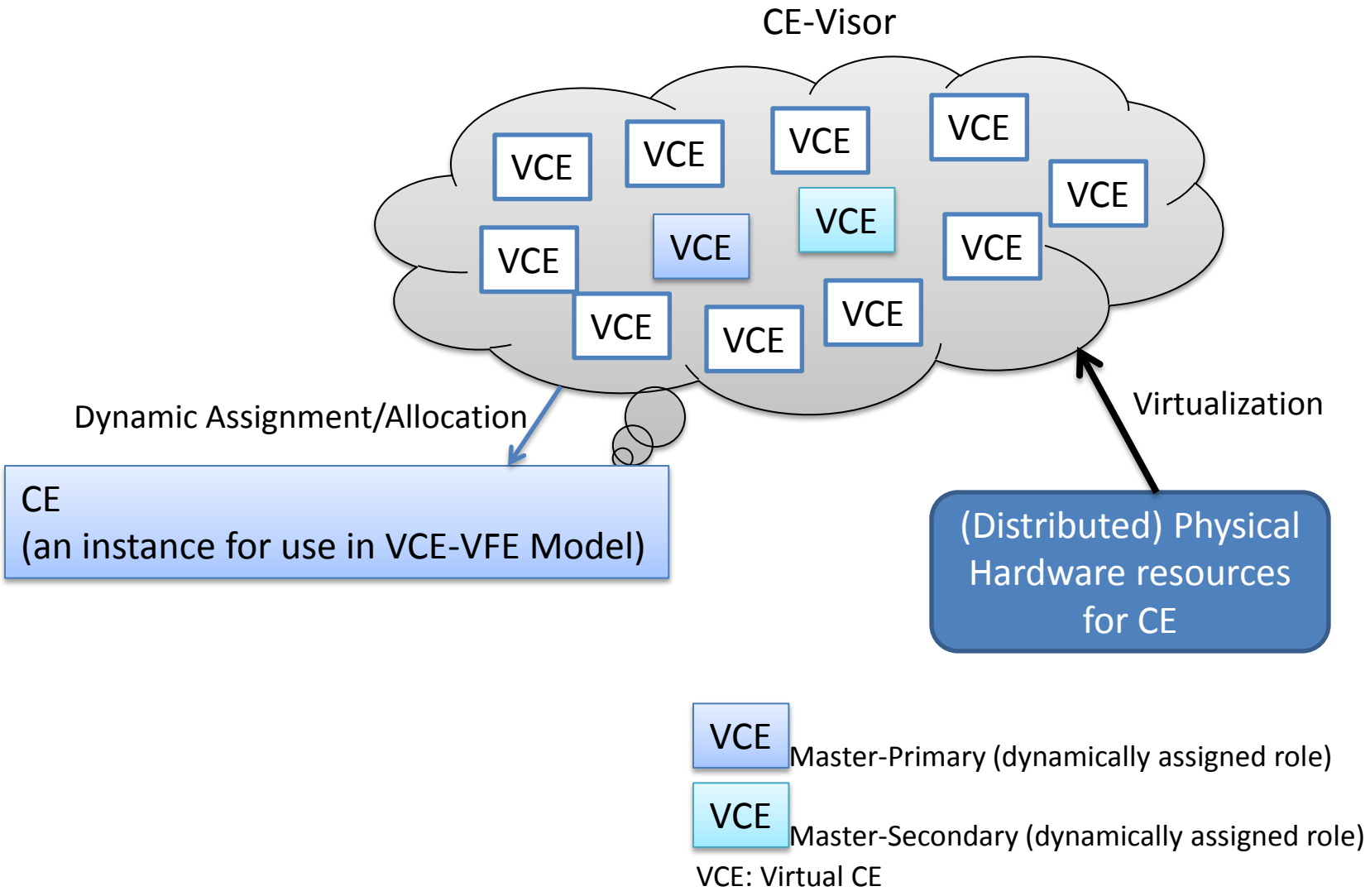
Current ForCES Architecture



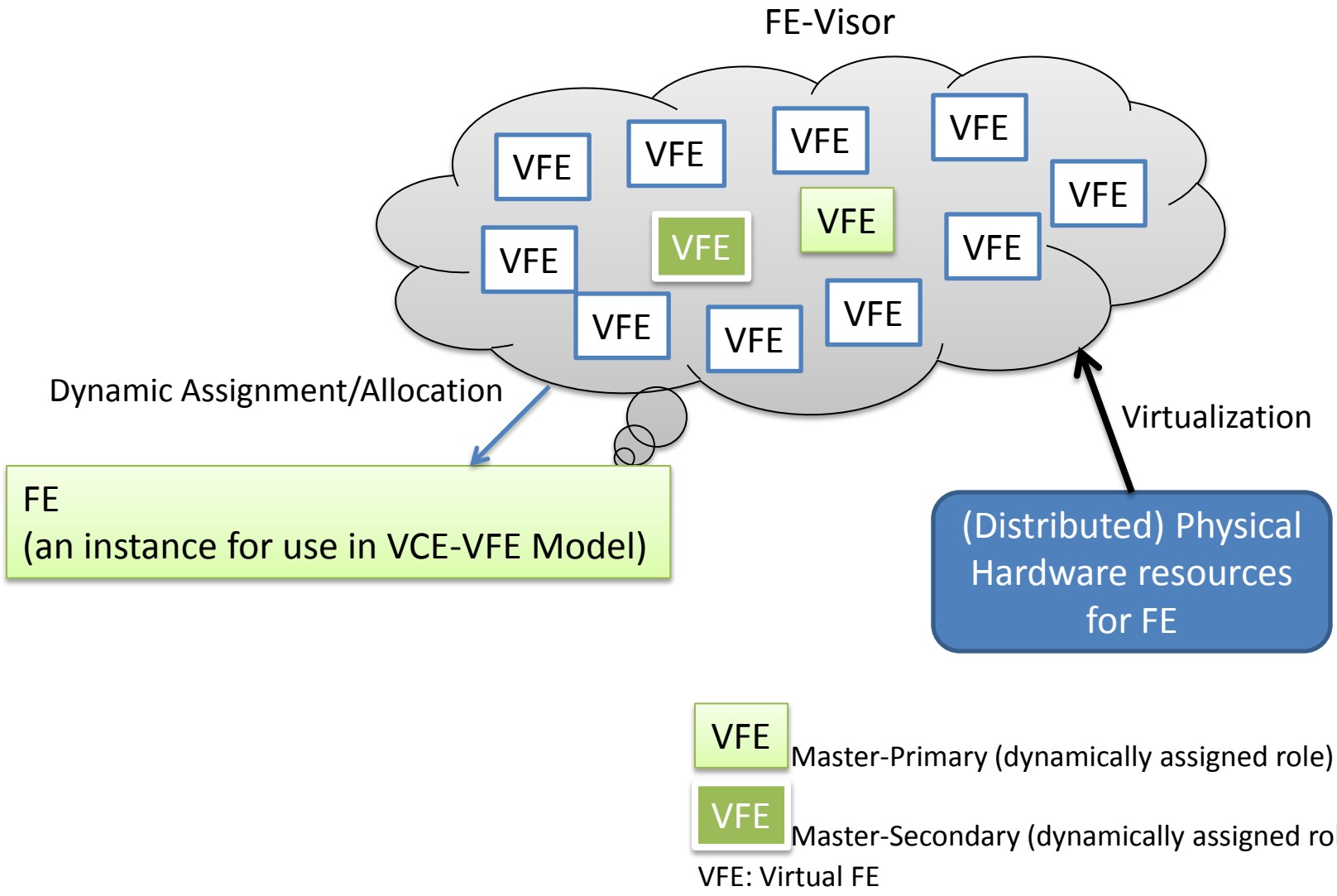
- We have new drafts on all interfaces except for Fr

Source: http://www.ietf.org/proceedings/85/slides/slides-85-forces-1.pdf

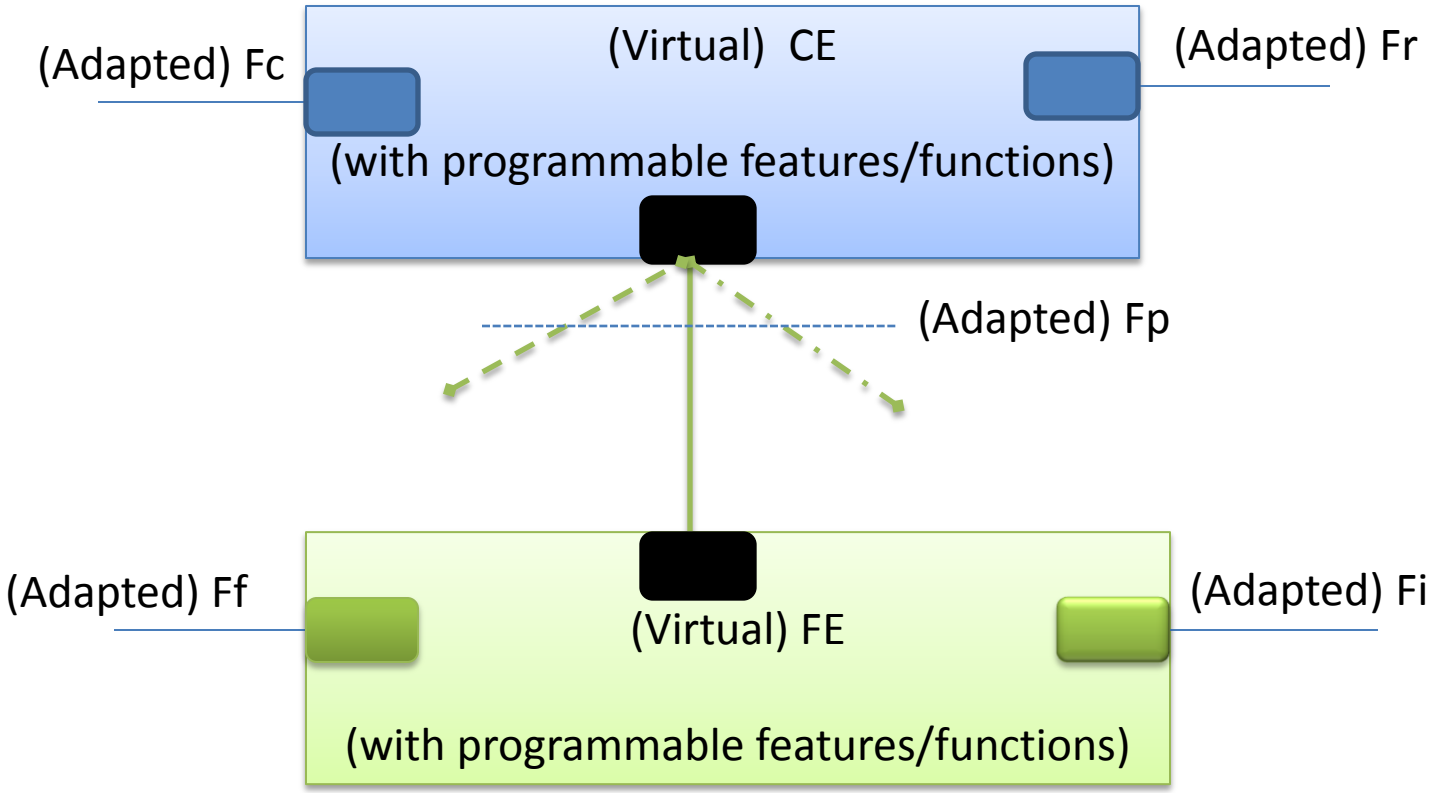
Virtualization of CE



Virtualization of FE



Proposed/Updated CE-FE Model



Advantages of the Updated Model

- Improved Availability/Reliability of CE and FE
- Low-Cost Service Implementation/Adaptation
- Seamless Load Balancing
- Fine-grained Automated Disaster Recover (ASR)
- Support of Scalability
- … … ….

Possible New Work Items

(updating of the existing drafts or new drafts)

- Use cases updates (overlay, extensions, …)
- Architecture / Framework updates
- ForCES Functions Virtualization
- CE, FE and other sub-functions HA updates
- Service Implementation/Automation updates
- ::: ::: :::

Discussion

- Questions
- Comments
- Suggestions

Thanks for Your Kind Attention !

Background Information

Relevant Works

- Internal to IETF and IRTF
  - NVO3, I2RS, SDN-RG, … …
- Outside IETF/IRTF
  - DMTF, ONF, ETSI/NFV, … …