

ARCHITECTURE PROPOSALS

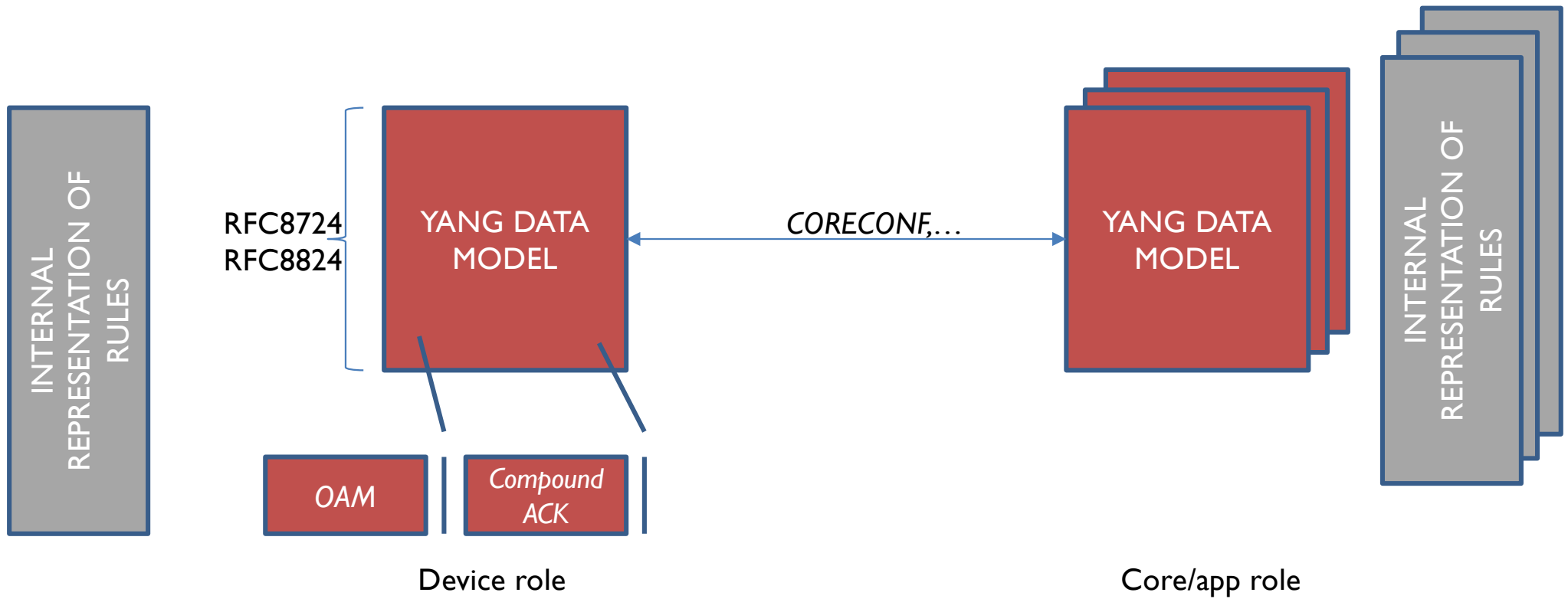
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ARCHITECTURE

((LPWAN))



LPWAN@IETF115

draft ...

COMPRESSION RULE



Rule 1

ID1	ID2	ID3	ID4	ID5	ID7	ID7
FieldID1	length	FPos	FDir	TargetValue	Match.Op.	C/D Action
FieldID2	length	FPos	FDir	TargetValue	Match.Op.	C/D Action
FieldID3	length	FPos	FDir	TargetValue	Match.Op.	C/D Action
⋮	⋮	⋮	⋮	⋮	⋮	⋮
FieldIDM	length	FPos	FDir	TargetValue	Match.Op.	C/D Action

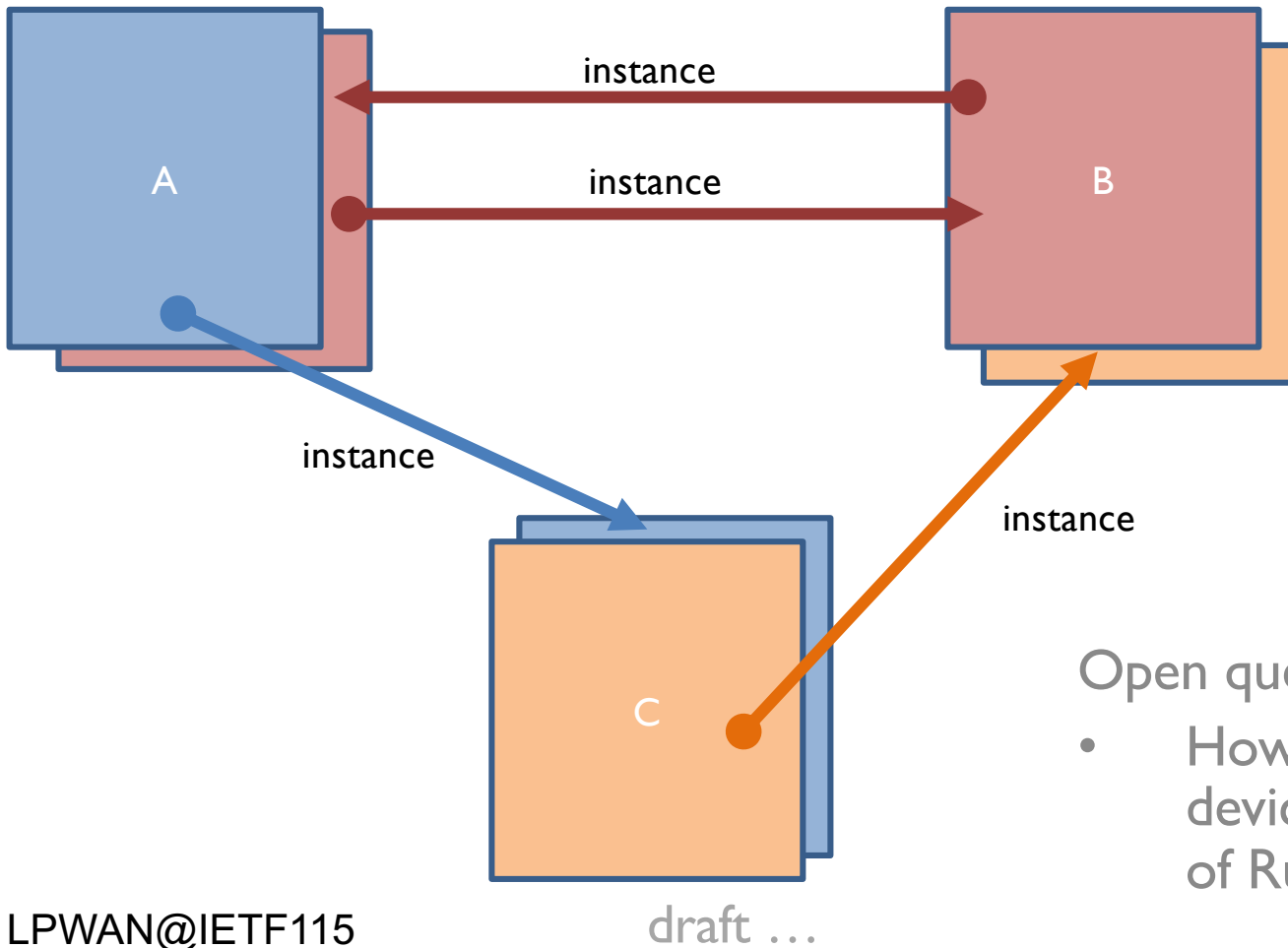
Security Questions:

- Security considerations:
 - Avoid a device to manipulate other devices in the core
 - Device **MUST** only manipulate its own rules
 - Avoid a device to write a specific part of the rule in the core/app
 - Current r/w protection mechanisms are based on YANG leaves
 - Not enough to avoid to change the TV when FieldID is App prefix.

Securing management exchange ((LPWAN))

- Securing management exchange:
 - What are the IP addresses of dev and core/app instances ?
 - Define an optional security layer
 - Propose compression rules management protocol.

Mesh Network – draft-martinez-lpwan-meshed-rules-00.txt



Approach in Arch draft:

- A Set of Rules per Instance / Session
- In a mesh it means multiplying by the number of rules since a node may be Dev or App

Open question :

- How do we identify the role of a device without defining several Set of Rules per device?