

Subsidiary Management

Forwarding and Control Element Separation
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Context

- Implementation experience shows fit for config as is for control
 - Precedence exists in FEPO and FEO
- Some examples of runtime configs:
 - Adding a new CE and IP address for HA
 - Initializing a new vFE in a running PFE
- Proposal: FEM LFB to update runtime configuration

Sample FEM config file

```
fe = {  
    name = "fe02"  
    feid = "0x2"  
    feip = "10.0.0.2"  
    allces = [  
        ["0x3", "10.0.0.1"],  
        ["5", "10.0.0.127"],  
    ]  
    ifbs = [  
        ["1027", "OFFlowTables"],  
        ["1034", "EtherMACIn"],  
    ]  
    debug = "3"  
    background = "false"  
    associate = "true"  
    //operenable = "true"  
    syslog = "false"  
    consolelog = "true"  
    HAmode = "hot-standby"  
    HArestart = "graceful"  
} //end fe02 definition
```

FEM config to LFB

```
fe = {  
  name = "fe02"  
  feid = "0x2"  
  feip = "10.0.0.2"  
  allces = [  
    ["0x3", "10.0.0.1"],  
    ["5", "10.0.0.127"],  
  ]  
  lfbs = [  
    ["1027", "FIB"],  
    ["1034", "EtherMACIn"],  
  ]  
  debug = "3"  
  background = "false"  
  associate = "true"  
  //operenable = "true"  
  syslog = "false"  
  consolelog = "true"  
  HAmode = "hot-standby"  
  HArestart = "graceful"  
}
```

Table of fes (showing one row)

```
string: name (RO)  
uint32: feid (RO)  
ipv4addr: feip (RO)  
Table of allces (RW)  
  struct {uint32: CEID, ipv4addr: CEIP}  
Table lfbs of lfbs (RW)  
  struct {uint32: vLfbClass, string: LFBname}  
uint32: debug (RW)  
bool: background (RO)  
bool: associate (RO)  
bool: operenable(RO)  
bool syslog (RW)
```

```
string: name (RO)  
uint32: feid (RO)  
.....
```