802.1AXdz
YANG for Link Aggregation:

Editor's Report: November 2024
Version 1

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November 13, 2024

802.1AXdz status

- AXdz-d0.2 went to Task Group ballot on October 30, 2024 through November 3, 2024.

- Ballot results:
  - 3 yes; 4 no; 11 abstain.
  - 24 comments from 4 commenters.

- Preliminary disposition:
  - 802-1AXdz-d0-2-pdis-v01.pdf

Quick (hopefully) resolutions

- 14 comments are simple/obvious changes.

  Easy Editorial: 7, 10, 19, 22, 24

  Easy Technical Required: 2, 11, 20
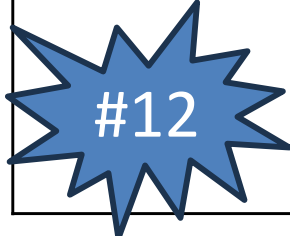
  Ranges: 13, 14, 15, 16, 17, 21

Comment numbers in blue were discussed in YANGsters

Discussion Topics

- Proposed Reject: 6, 8, 18
- Defaults: 12, 5, 9
- UML-like diagram: 1
- DRNI if-features: 3, 4
- System MAC address: 23

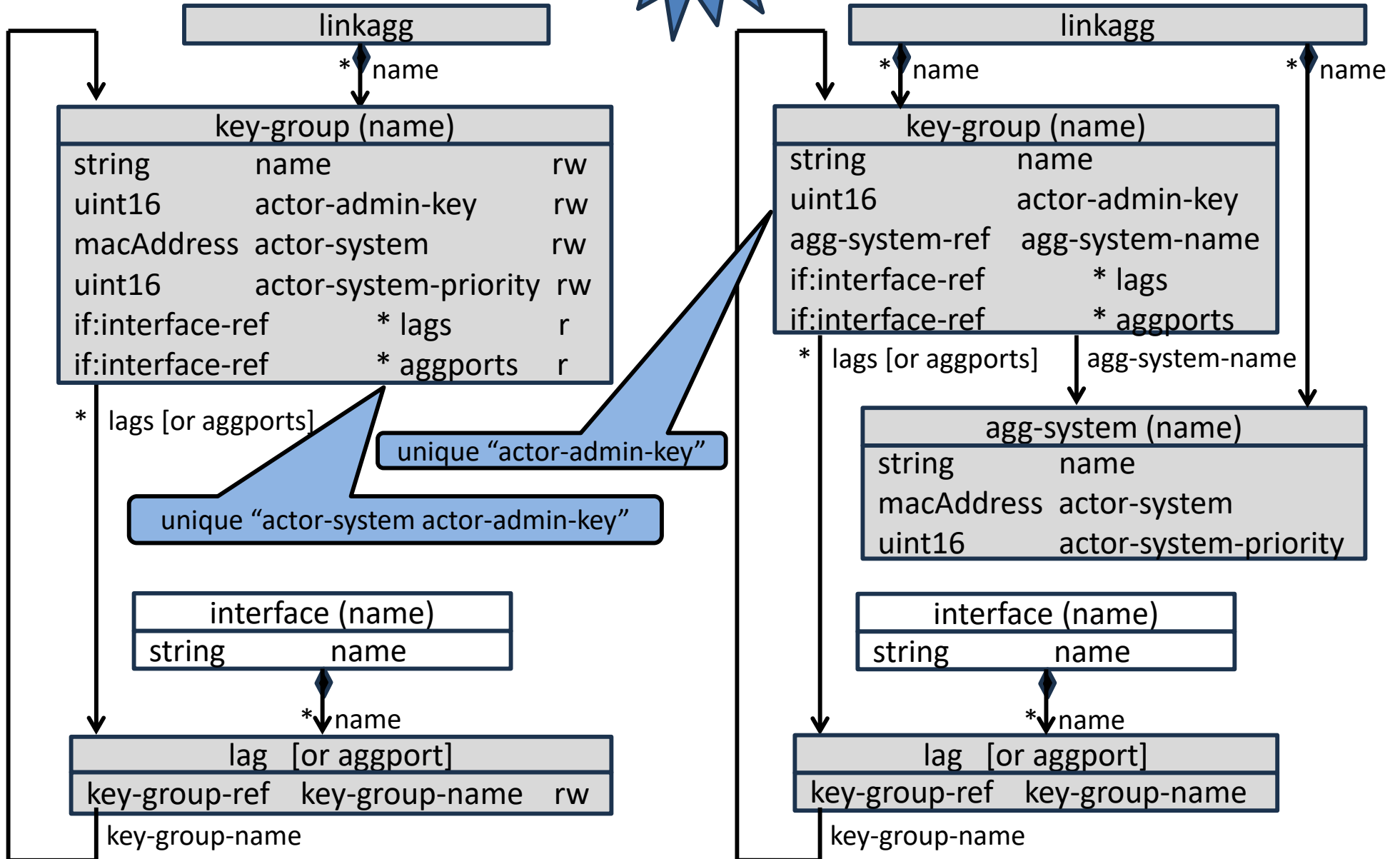# Effect of Activity flags in the admin port states when Sonny connects to Cher

Sonny / Cher		Actor_Admin.Activity : Partner_Admin.Activity			
		1 : 1	1 : 0	0 : 0	0 : 1
Actor_Admin.Activity : Partner_Admin.Activity	1 : 1	Both sing (Both transmit LACPDUs)	Both sing	Cher sings. Sonny sings when hears Cher.	Both sing
	1 : 0	Both sing	Both sing	Cher sings. Sonny sings when hears Cher.	Both sing
	0 : 0	Sonny sings. Cher sings when hears Sonny.	Sonny sings. Cher sings when hears Sonny.	Neither sing	Sonny sings
	0 : 1	Both sing	Both sing	Cher sings	Both sing, then both stop when hear the other. Timeout and repeat.

#12

Current

Proposed

#23

linkagg

* name

key-group (name)		
string	name	rw
uint16	actor-admin-key	rw
macAddress	actor-system	rw
uint16	actor-system-priority	rw
if:interface-ref	* lags	r
if:interface-ref	* aggports	r

* lags [or aggports]

unique "actor-system actor-admin-key"

interface (name)	
string	name

*name

lag [or aggport]		
key-group-ref	key-group-name	rw

key-group-name

linkagg

* name   * name

key-group (name)		
string	name	
uint16	actor-admin-key	
agg-system-ref	agg-system-name	
if:interface-ref	* lags	
if:interface-ref	* aggports	

unique "actor-admin-key"

* lags [or aggports]   agg-system-name

agg-system (name)	
string	name
macAddress	actor-system
uint16	actor-system-priority

interface (name)	
string	name

*name

lag [or aggport]	
key-group-ref	key-group-name

key-group-name

Current and proposed example config (json)

```json
{
  "ieee802-dot1ax-linkagg:linkagg": {
  "key-group": [
    {
      "name": "Key-1",
              "actor-admin-key": 1,
              "actor-system": "00-80-C2-00-00-01"
    }
   ]
  },
  "ietf-interfaces:interfaces": {
   "interface": [
    {
      "name": "eth1",
      "type": "iana-if-type:ethernetCsmacd",
      "ieee802-dot1ax-linkagg:aggport": {
        "key-group-name": "Key-1"
      }
    },
    {
      "name": "lag1",
      "type": "iana-if-type:ieee8023adLag",
      "ieee802-dot1ax-linkagg:lag": {
        "key-group-name": "Key-1"
      }
    }
    ]
  }
}
```

```json
{
  "ieee802-dot1ax-linkagg:linkagg": {
  "agg-system": [
    {
      "name": "my-system"
    }
  ],
  "key-group": [
    {
      "name": "Key-1",
              "actor-admin-key": 1,
              "agg-system-name": "my-system"
    }
   ]
  },
  "ietf-interfaces:interfaces": {
   "interface": [
    {
      "name": "eth1",
      "type": "iana-if-type:ethernetCsmacd",
      "ieee802-dot1ax-linkagg:aggport": {
        "key-group-name": "Key-1"
      }
    },
    {
      "name": "lag1",
      "type": "iana-if-type:ieee8023adLag",
      "ieee802-dot1ax-linkagg:lag": {
        "key-group-name": "Key-1"
      }
    }
    ]
  }
}
```
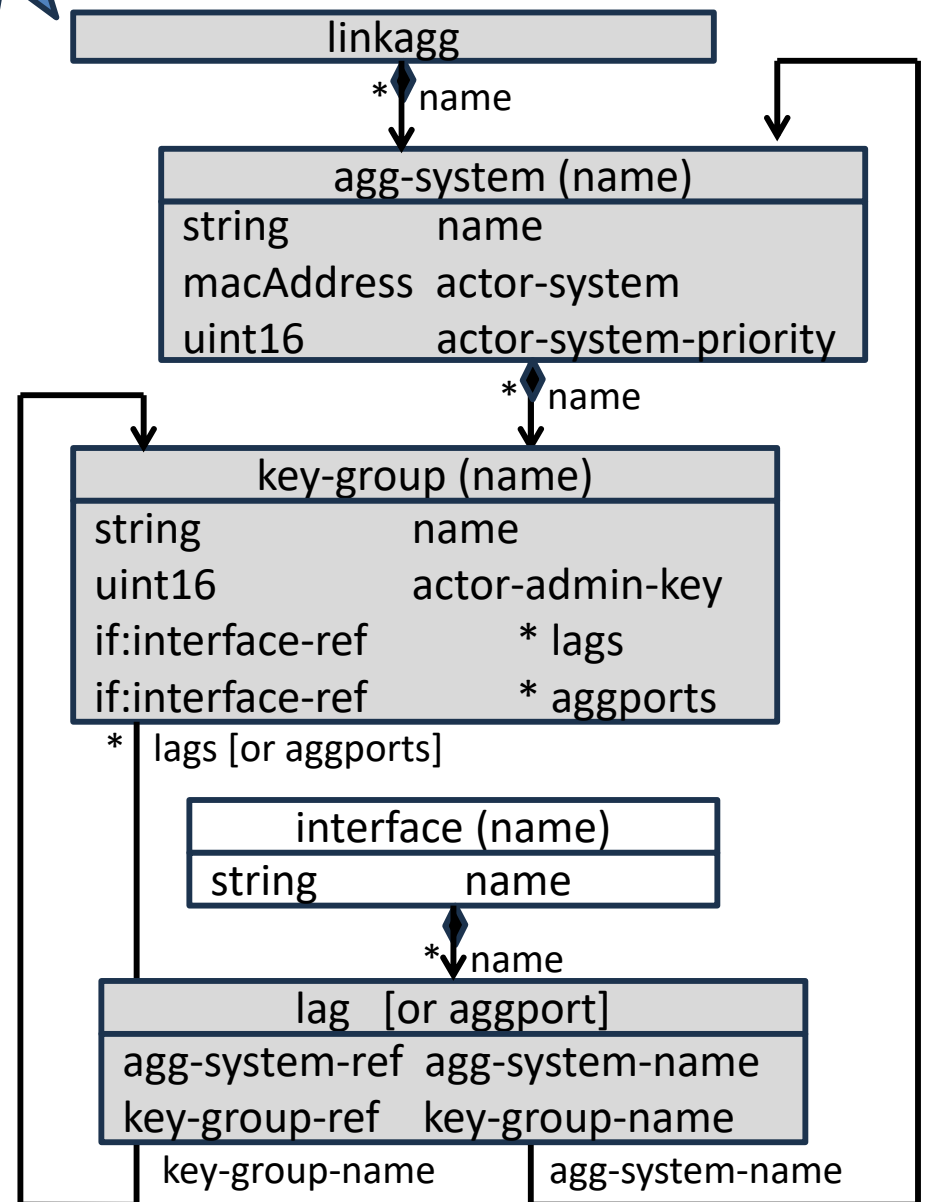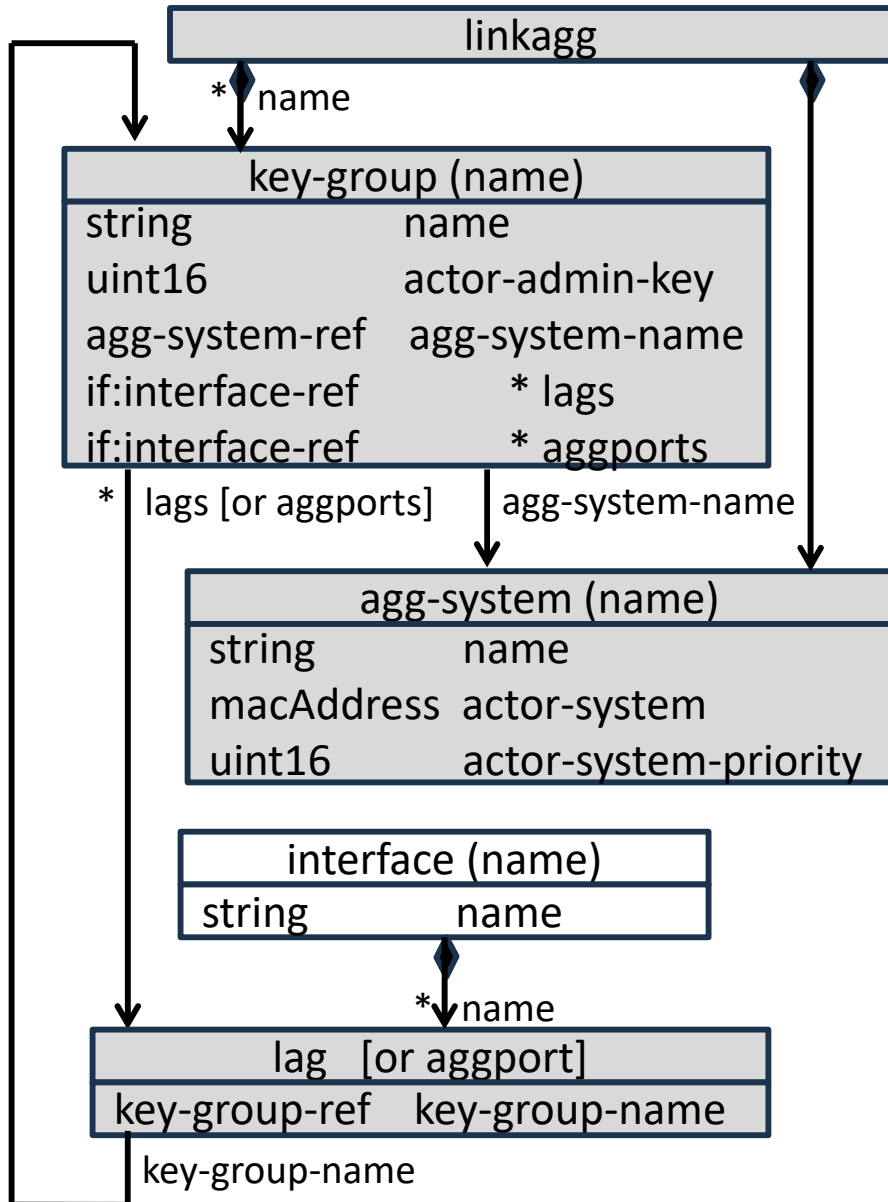
Next steps

- Working Group Ballot?

Back up slides

Proposed

#23

Alternative

linkagg

* name

key-group (name)

string	name
uint16	actor-admin-key
agg-system-ref	agg-system-name
if:interface-ref	* lags
if:interface-ref	* aggports

* lags [or aggports]

agg-system-name

agg-system (name)

string	name
macAddress	actor-system
uint16	actor-system-priority

interface (name)

string	name

* name

lag   [or aggport]

key-group-ref	key-group-name

key-group-name

---

linkagg

* name

agg-system (name)

string	name
macAddress	actor-system
uint16	actor-system-priority

* name

key-group (name)

string	name
uint16	actor-admin-key
if:interface-ref	* lags
if:interface-ref	* aggports

* lags [or aggports]

interface (name)

string	name

* name

lag   [or aggport]

agg-system-ref	agg-system-name
key-group-ref	key-group-name

key-group-name

agg-system-name

Thank You