



# Database for LHCONE prefixes

Edoardo Martelli

LHCONE meeting #47

12<sup>th</sup> October 2021

# recap

Needs for a database to store network information, as:

- LHCONE and LHCOPN prefixes
- ASN
- Bandwidth
- AUP ack
- perfSONAR
- Monitoring links

The list of prefixes can be used to create filters to secure the LHCONE routing tables. It has also been used by (and originally implemented for) NOTED

# CRIC

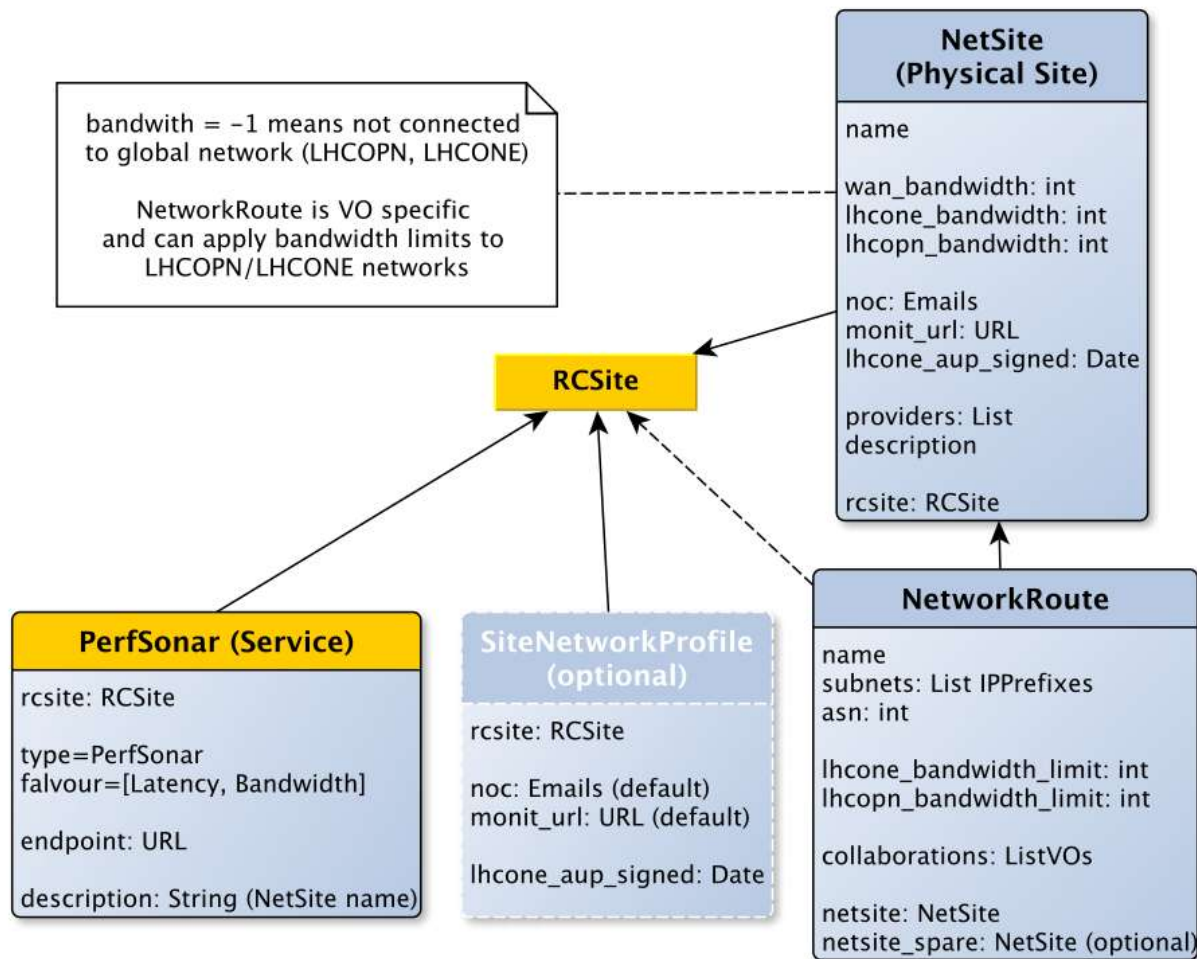
The CRIC (Computing Resources Information Catalogue) database has been chosen to store this information.

CRIC is the on-line database for WLCG Computing Resources:

<http://wlcg-cric.cern.ch/>

- Used by ATLAS and CMS, other experiments may follow
- not-WLCG sites can also be added as Virtual Organizations

# New DB schema being implemented



# Status and next steps

- New schema being developed
- Scheduled for availability in Q1 2022

## Next steps:

- populate database: the [LHCONE twiki](#) page will be used as starting data
- Regularly update LHCONE RIPE route object from CRIC content

*Questions?*

*edoardo.martelli@cern.ch*



# RS-LHCONE route object

The **RS-LHCONE** route object with the list of all the LHCONE prefixes will be periodically updated with the content of the CRIC database. The update script can be run at CERN

The route object is stored in the RIPE whois database:

<https://apps.db.ripe.net/db-web-ui/query?searchtext=rs-lhcone>

# RS-LHCONE route object

```
whois -h whois.ripe.net rs-lhcone
```

```
% Information related to 'RS-LHCONE'
```

```
route-set:      RS-LHCONE
descr:          List of prefixes available in LHCONE
tech-c:         LHC1
admin-c:        LHC1
mnt-by:         LHCONE-MNT
mnt-by:         CERN-MNT
created:        2020-07-07T12:35:15Z
last-modified: 2020-11-04T13:50:39Z
source:        RIPE
members:       150.244.246.0/23
members:       193.48.101.0/24
members:       81.180.86.0/24
members:       144.206.236.0/24
members:       131.154.128.0/17
members:       128.227.253.0/24
members:       90.147.67.0/24
members:       130.246.152.240/28
members:       212.193.96.0/26
...
```

```
...
mp-members:    2001:48a8:68f7::/48
mp-members:    2001:67c:1bdc:200::/64
mp-members:    2620:0:2b3d:100::/56
mp-members:    2400:4500:0:2::/64
mp-members:    2001:1459:301::/48
mp-members:    2a00:139c::/45
mp-members:    2001:678:7d8:2000::/52
mp-members:    2001:638:700:10a0::/64
mp-members:    2001:67c:1148:200::/64
mp-members:    2620:0:210::/48
mp-members:    2607:f8f0:660:1::/64
mp-members:    2001:67c:1bdc:201::/64
mp-members:    2001:67c:1148:201::/64
mp-members:    2001:1458:301::/48
mp-members:    2001:638:700:10c0::/64
mp-members:    2001:760:4205::/48
```