

An update on BCOP efforts in North America

NA-BCOP

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A new home!

<http://nabcop.org>

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Best Current Operational Practices

Documented best practices for Engineers by Engineers.

About BCOP

The NABCOP wiki is a community based project, Best Current Operational Practice (BCOP) aimed at collecting the best practices known within the operations community and capturing those practices in a series of documents. These "living documents" are peer reviewed by community technology experts who actually deploy and manage these environments. We believe the best documentation is when it is based on real-world implementations. This is a community project and is open to all to participate and get involved. We welcome your participation and look forward to working together to build better documentation for the entire community. To learn more about what we're doing here and how, including our purpose, philosophy, scope, principles, criteria, and process, read the [NANOG-BCOP-DP](#).

Join Us

Join the conversation!

This grass-roots, bottom-up, for engineers by engineers effort only works because of the involvement of people like you. Please jump in and help out where you can.

- Subscribe to the NABCOP Mail List at <http://nabcop.org/cgi-bin/mailman/listinfo/bcop-support> [↗](#)
- Questions or suggestions about BCOP should be directed to [bcop-support at nabcop dot org](#) [↗](#)

Jump In

To learn more, visit the following pages

[Appeals](#) - List of potential BCOPs, shepherds, and SMEs. Find ideas for new BCOPs.

[BCOP Drafts](#) - Recently added BCOPs. Learn about topics currently under review/discussion

Migration from NANOG

- NANOG delegated track decisions to PC
- NANOG Board concluded it is not a standard body and supports facilitating regional efforts to contribute to a global BCOP org
- NA BCOP will continue to meet at NANOG meetings as needed
 - Tracks to be proposed to PC at each meeting as needed
- Other forums being evaluated for outreach
- In search of a home for regional repository
- Majority of work takes place on mailing lists, con-calls, etc.

BCOP growth globally

- ⦿ Change is the only constant
- ⦿ Temporary shift of focus to evolve
- ⦿ Regional coordination efforts underway
- ⦿ Global efforts continue to grow
- ⦿ Work continues on several draft BCOPs
- ⦿ Regular new submissions

Recently ratified BCOPs

- DDoS/DoS Attack

- Shepard: Yardiel Fuentes
- Subject Matter Expert(s) (SME): Rich Compton, Prabhu Gurumurthy, John W, Damon Fortune, Yardiel Fuentes

- Accepted at NANOG 64 BCOP Track

“a guide of practices that have proven effective in production network environments of what to do before, during and after a DDoS/DoS attack.”

Draft BCOPs in Progress

- ⦿ Maintenance Notification
 - Establishing conventions, and tools!
- ⦿ EBGP Configuration
 - eBGP interconnection and stewardship
- ⦿ Public Peering Exchange Participant
 - Update to [BCOP-Exchange Points v2](#)
 - Focus on tenants ([Euro-IX BCOP for Ops](#))
- ⦿ Anti-Spoofing
 - Don't call it BCP38!

Maintenance Notifications: Goals

- ⦿ Establish conventions for formatting
 - Preserve existing human facing content
 - Add on formatted information
 - Machine parsable (primary)
 - Human readable (secondary)
- ⦿ Conventions support tooling and automation
- ⦿ Should be general enough to be useful for any service, not just network services
- ⦿ Create libraries and example scripts to support implementation

Maintenance Notifications:

Progress

- ◎ Draft BCOP started
 - Mandatory fields specified
 - Co-evolve with coding
- ◎ Code structure determined
 - Extend Python icalendar library to implement primitives
 - New library to abstract common notification workflow
 - Example scripts that demonstrate the common notification workflow
- ◎ Github project started
- ◎ Join our Facebook group:
 - <https://www.facebook.com/groups/855738444449323/>
- ◎ Or contact Erik Klavon:
 - erik.klavon@gmail.com

Other BCOPs in progress

- EBGW Configuration
- Public Peering Exchange Participant
- Anti-Spoofing

Global BCOP Activities

- ⦿ Active BCOP efforts underway in the following regions
 - NA / ARIN
 - RIPE
 - LACNOG
 - AfNOG
- ⦿ BCOP efforts are developing
 - JPNOG
 - NZNOG
 - More!
- ⦿ There may be a need in near future for global coordination between regional efforts
 - Discussion took place before last IETF

Global update Prague (IETF93)

- First meeting of majority of regional BCOP meetings
- Concluded that IETF was a good home for global coordination
- Concluded that the majority of BCOP documents were more global and less regional
- Created plan with RFC Editors

Global update Prague (IETF93)

- Regional BCOP efforts agreed to document what worked well and what did not.
- Use the data to start template for any region to participate
- Initially will use independent submission stream with low hanging fruit to help decide the area ops/bcop/something else

GBCOP

- ⦿ Gbcop.org registered
- ⦿ Lists and website in progress
- ⦿ Next steps
 - Aggregate BCOP participants lists to gbcop
 - Assess complete list of BCOPs globally and select a few candidates for independent submissions
 - Work with RFC Editors on streamline process

Get Involved!

- BCOP Appeals (questions to answer):
<http://nabcop.org/index.php/Appeals>
- Draft BCOPs (in progress):
http://nabcop.org/index.php/BCOP_Drafts
- Mailing List:
<http://nabcop.org/cgi-bin/mailman/listinfo/bcop-support>

Questions?

Discussion?

Volunteers?

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