NFD - Task #4731

RIB: deduplicate RibManager::FaceIdSet and Rib::FaceLookupTable

09/10/2018 06:32 PM - Junxiao Shi

Status:	Feedback		Start date:	
Priority:	Low		**Due date:**	
Assignee:			**% Done:**	60%
Category:	RIB		**Estimated time:**	3.00 hours
Target version:				

Description

RibManager maintains a FaceIdSet to detect missed face destroyed events.
Rib maintains a FaceLookupTable to delete affected routes when a face is destroyed.
These two data structures contain partially duplicate information, and should be combined.
Furthermore, FaceMonitor does not rely on RibManager's command processing and signature validation functions, so that it could be moved down to Rib class.

Related issues:

Blocked by NFD - Feature #4529: Merge NFD-RIB into management thread	**New**

History

#1 - 09/22/2018 08:34 AM - Davide Pesavento

- Tags changed from code-cleanup to CodeCleanup

#2 - 06/20/2019 06:08 AM - Junxiao Shi

- Status changed from New to In Progress

- Target version set to v0.7

#3 - 06/20/2019 07:04 AM - Junxiao Shi

- % Done changed from 0 to 40

https://gerrit.named-data.net/5483 is the first Change. FaceMonitor moves next.

#4 - 07/10/2019 07:28 AM - Junxiao Shi

- % Done changed from 40 to 50

https://gerrit.named-data.net/5518
I'm working on moving FaceMonitor. I plan to introduce a FaceSync type that works alongside Rib, instead of inserting the logic into Rib type itself; it is similar to FibUpdater type but probably less coupled. This keeps communications out of Rib type and reduces its complexity.

#5 - 07/18/2019 06:59 AM - Junxiao Shi

https://gerrit.named-data.net/c/NFD/+/5578 changes Rib::onFibUpdateSuccess Rib::onFibUpdateFailure Rib::findDescendants Rib::findDescendantsForNonInsertedName from public to private. This is in preparation of FaceSync refactoring.
I understand that findDescendants findDescendantsForNonInsertedName functions have problematic names and semantics, but I'd keep them unchanged for now.

#6 - 08/20/2019 08:54 AM - Junxiao Shi

- % Done changed from 50 to 60

https://gerrit.named-data.net/5518

Still working on this. It's as complicated as I expected.

#7 - 08/23/2019 10:00 AM - Junxiao Shi

I'm seeing some problems in test cases related to mocked FIB responses. https://gerrit.named-data.net/c/NFD/+/5664 changes mocking method.

#8 - 11/09/2019 02:43 PM - Davide Pesavento

- Target version changed from v0.7 to v0.8

#9 - 02/07/2020 06:32 AM - Junxiao Shi

- Assignee deleted (Junxiao Shi)

I will no longer work on this issue because FaceSync would become unnecessary after [#4529](#4529).

#10 - 05/28/2020 12:05 AM - Davide Pesavento

- Status changed from In Progress to Feedback

#11 - 06/07/2020 10:29 AM - Davide Pesavento

- Tags changed from CodeCleanup to code-cleanup

#12 - 04/03/2021 01:14 AM - Davide Pesavento

- Priority changed from Normal to Low

- Target version deleted (v0.8)

#13 - 04/03/2021 01:15 AM - Davide Pesavento

- Blocked by Feature #4529: Merge NFD-RIB into management thread added