

## NFD - Task #1992

### Replace FaceFlags with individual fields

09/20/2014 05:05 PM - Junxiao Shi

<b>Status:</b>	Closed	<b>Start date:</b>	
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Chengyu Fan	<b>% Done:</b>	100%
<b>Category:</b>	Management	<b>Estimated time:</b>	6.00 hours
<b>Target version:</b>	v0.3		
<b>Description</b>			
Replace FaceFlags field with individual fields: FaceScope, FacePersistency, LinkType.			
Spec: <a href="#">FaceMgmt</a> rev41.			
This Task involves changes in the following places:			
<ul style="list-style-type: none"><li>• ndn::nfd::FaceStatus type</li><li>• ndn::nfd::FaceEventNotification type</li><li>• Face::getFaceStatus and Face Dataset</li><li>• Face Status Change Notification</li></ul>			
Recommended:			
<ol style="list-style-type: none"><li>1. Declare a base class for common fields in FaceStatus and FaceEventNotification types, or declare a concept for getters and setters of those common fields.</li><li>2. Modify Face::getFaceStatus to use this base class or concept.</li><li>3. Populate face status change notification with modified Face::getFaceStatus.</li></ol>			
<b>Related issues:</b>			
Related to NFD - Task #1991: Display face attribute fields instead of FaceFlags		<b>Closed</b>	
Blocks NFD - Task #1993: Face query operation		<b>Closed</b>	

### History

#### #1 - 09/20/2014 05:05 PM - Junxiao Shi

- Related to Task #1991: Display face attribute fields instead of FaceFlags added

#### #2 - 09/20/2014 05:08 PM - Junxiao Shi

This Task has interlocked dependency with [#1991](#). Suggested procedure is:

1. In [#1992](#), make changes to ndn::nfd::FaceStatus type, and mark old API as obsolete.
2. [#1991](#) and rest of [#1992](#) can be worked in parallel.
3. In [#1992](#), delete old API after [#1991](#) is completed.

#### #3 - 09/20/2014 05:12 PM - Junxiao Shi

- Blocks Task #1993: Face query operation added

#### #4 - 09/22/2014 10:56 AM - Chengyu Fan

- Assignee set to Chengyu Fan

#### #5 - 09/23/2014 02:30 PM - Chengyu Fan

- Status changed from New to In Progress

**#6 - 09/25/2014 01:01 PM - Chengyu Fan**

- % Done changed from 0 to 70

**#7 - 09/29/2014 02:24 PM - Chengyu Fan**

Another part of this task is change Face::getFaceStatus and Face Dataset, should this part submit with [#1991](#) or just submit as [#1992](#) in NFD repository?

**#8 - 09/29/2014 02:49 PM - Junxiao Shi**

After the Change for ndn::nfd::FaceStatus type and ndn::nfd::FaceEventNotification type is merged, you can make two separate Changes for [#1991](#) and rest of [#1992](#) (except deleting old API). Those can be worked on in parallel.

After both of those Changes are merged, make a fourth Change to delete old API.

**#9 - 10/01/2014 12:47 PM - Alex Afanasyev**

Changes have been merged into ndn-cxx and corresponding changes need to be made to NFD. Currently, the master branch of NFD doesn't compile with the master branch of ndn-cxx.

**#10 - 10/01/2014 12:50 PM - Chengyu Fan**

will commit the change soon

**#11 - 10/01/2014 01:09 PM - Junxiao Shi**

The recently merged ndn-cxx commit is designed to be backwards-compatible, but a file is renamed and we forget to set a alias at old file name.

We should make a urgent commit to ndn-cxx that makes a symbolic link from nfd-face-flags.hpp to nfd-face-traits.hpp.

**#12 - 10/01/2014 01:11 PM - Chengyu Fan**

Can I just quickly commit the one to fix this issue, and latter commit others?

**#13 - 10/01/2014 01:13 PM - Chengyu Fan**

The quick fix is let face/face.hpp include the header nfd-face-traits.hpp, instead of nfd-face-flags.hpp.

**#14 - 10/01/2014 01:16 PM - Junxiao Shi**

No, you should update ndn-cxx to make it backward-compatible, not update NFD.

To test for backwards-compatibility, compile unchanged NFD and NLSR, and they should succeed.

**#15 - 10/08/2014 09:57 PM - Chengyu Fan**

- Status changed from In Progress to Code review

- % Done changed from 70 to 100

**#16 - 10/09/2014 07:16 PM - Chengyu Fan**

- Status changed from Code review to Closed

**#17 - 10/09/2014 07:45 PM - Junxiao Shi**

- Status changed from Closed to Feedback

This Task also includes deleting deprecated APIs, after [#1991](#) is closed.

**#18 - 10/13/2014 11:37 AM - Chengyu Fan**

For deleting deprecated APIs, do you mean delete the deprecated APIs in ndn-cxx?

Should it be done recently?

**#19 - 10/13/2014 11:43 AM - Junxiao Shi**

Yes, obsolete APIs can be deleted now.

The purpose of making the first commit backwards-compatible is to avoid breaking NFD outright. After [#1991](#) completion, NFD shouldn't have any code using obsolete APIs.

**#20 - 10/13/2014 12:48 PM - Chengyu Fan**

I think the obsolete APIs contain the face flag setter and getter, isLocal, isOnDemand, and FaceFlags enum.

But there are still some NFD codes use some of them:

1. tests/daemon/mgmt/face-manager.cppm line 1602, 1664 use setFlags()
2. tools/nfd-autoreg.cpp, line 162, 167, and 298 use isLocal or isOnDemand

I'll modify them first, and then move the obsolete APIs in ndn-cxx.

If I misunderstand anything, please let me know.

**#21 - 10/13/2014 12:53 PM - Junxiao Shi**

If there's any NFD code that uses obsolete APIs, they should be changed as part of this Task.

**#22 - 10/15/2014 02:45 PM - Chengyu Fan**

- Status changed from Feedback to Closed