

jndn - Bug #4575

fail to register prefix with NFD-android using NDN-DOT-NET library

04/10/2018 12:59 PM - Yanbiao Li

Status:	Closed	Start date:	04/10/2018
Priority:	Urgent	Due date:	
Assignee:	Jeff Thompson	% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:			

Description

we were trying to register a prefix from the APP (built on top of NDN-NOT-NET) to NFD-Android, but it failed. But it succeeded to register the same prefix with a remote NFD.

Finally, we figured out that the reason why it fails with NFD-Andorid is: the command Interest is always started from /localhop/nfd and NFD-Andorid does not enable /localhop handler by default.

We created a TCP connection (using 127.0.0.1 as the address) between the APP and NFD-android, it should hit, after checking isLocal(), the branch which adopts /localhost/nfd prefix but it didn't.

Is there any issue with the isLocal() check?

History

#1 - 04/10/2018 01:29 PM - Jeff Thompson

Do you think it would work if it used /localhost ?

#2 - 04/10/2018 01:39 PM - Yanbiao Li

I would say yes.

Since the registration succeeded on the remote NFD, I think the command itself is ok. It fails with NFD-android is just because NFD-android has no clue to proceed /localhop commands.

On the other hand, I think the only difference between two cases (/localhost commands and /localhop commands) is their trust policy, configured with different parts in the config file, may be different. But, so far, we do not enable any security check toward local registrations. Therefore, I think the command succeeded with remote NFD would success with the NFD-android as long as the right prefix (/localhost) is adopted.

#3 - 04/10/2018 02:03 PM - Jeff Thompson

- Status changed from New to Feedback

I pushed a fix to implement isLocal() using the .NET IsLoopback.

<https://github.com/named-data/ndn-dot-net/blob/2becb13e31e4714071f9c99cc6d77aed28a90ab2/src/async-tcp-transport.cs#L112>

It works on macOS, but I haven't tested it on Android. Can you pull the latest from GitHub and try it?

#4 - 04/10/2018 02:04 PM - Yanbiao Li

sure, thanks

#5 - 04/10/2018 11:48 PM - Yanbiao Li

it works now, thanks

#6 - 04/11/2018 08:25 AM - Jeff Thompson

- Status changed from Feedback to Closed

Great. Closing.