

## ndnSIM - Task #4985

### Better route calculation for ndnSIM

08/27/2019 12:18 PM - Klaus Schneider

<b>Status:</b>	Closed	<b>Start date:</b>	
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Klaus Schneider	<b>% Done:</b>	100%
<b>Category:</b>	helpers	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>			
<b>Description</b>			
Existing ndnSIM route calculation provides two algorithms:			
<ul style="list-style-type: none"><li>• CalculateRoutes(): Only provides a single shortest path nexthop.</li><li>• CalculateAllPossibleRoutes(): Provides all possible nexthops, but many of them lead to loops.</li></ul>			
To improve on that, I want to implement LFID (Loop-Free Inport-Dependent) routing, which maximizes the nexthop choice while also completely avoiding loops.			
The code is available here: <a href="https://github.com/schneiderklaus/ndnSIM-routing">https://github.com/schneiderklaus/ndnSIM-routing</a>			
And you can find the tech report of the design: <a href="https://named-data.net/publications/techreports/mp_routing_tech_report/">https://named-data.net/publications/techreports/mp_routing_tech_report/</a>			
<b>Related issues:</b>			
Blocked by NFD - Feature #4992: Add Random Forwarding Strategy		<b>Closed</b>	

#### History

##### #1 - 08/31/2019 09:26 PM - Klaus Schneider

Gerrit code: <https://gerrit.named-data.net/c/ndnSIM/+5672>

##### #2 - 09/09/2019 09:20 AM - Davide Pesavento

- Blocked by Feature #4992: Add Random Forwarding Strategy added

##### #3 - 10/21/2019 01:29 PM - Klaus Schneider

- Status changed from New to Closed

- % Done changed from 0 to 100

The Gerrit code has merged.