

## Open Infrastructure - Task #9401

### Building an IPv6 only Matrix network

06/07/2021 08:10 PM - Nico Schottelius

<b>Status:</b>	New	<b>Start date:</b>	06/07/2021
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Nico Schottelius	<b>% Done:</b>	0%
<b>Category:</b>		<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>			
<b>PM Check date:</b>			
<b>Description</b>			
<b>Objective</b>			
Have a test case of an IPv6 only Matrix network or rooms. Servers/client that want to join are required to have IPv6.			
<b>Implementation core network</b>			
<ul style="list-style-type: none"><li>• Synapse running IPv6 only</li><li>• No outgoing NAT64/DNS64</li><li>• Possibly using the domain "ipv6.social" for the matrix domains (i.e. ungleich could run on @xyz:ungleich.ipv6.social, anyone joining can select a DNS name of their choice)<ul style="list-style-type: none"><li>◦ Only if of interest for a common view towards outside</li></ul></li><li>• Only incoming IPv6<ul style="list-style-type: none"><li>◦ No proxies or similar to bridge from the IPv4 world</li></ul></li><li>• Maybe removing A records from DNS</li></ul>			
<b>Implementation federation / "other Servers"</b>			
<ul style="list-style-type: none"><li>• Other servers can be IPv6 only on dual stack<ul style="list-style-type: none"><li>◦ Need to define whether the federation should accept dual stack or not</li></ul></li></ul>			