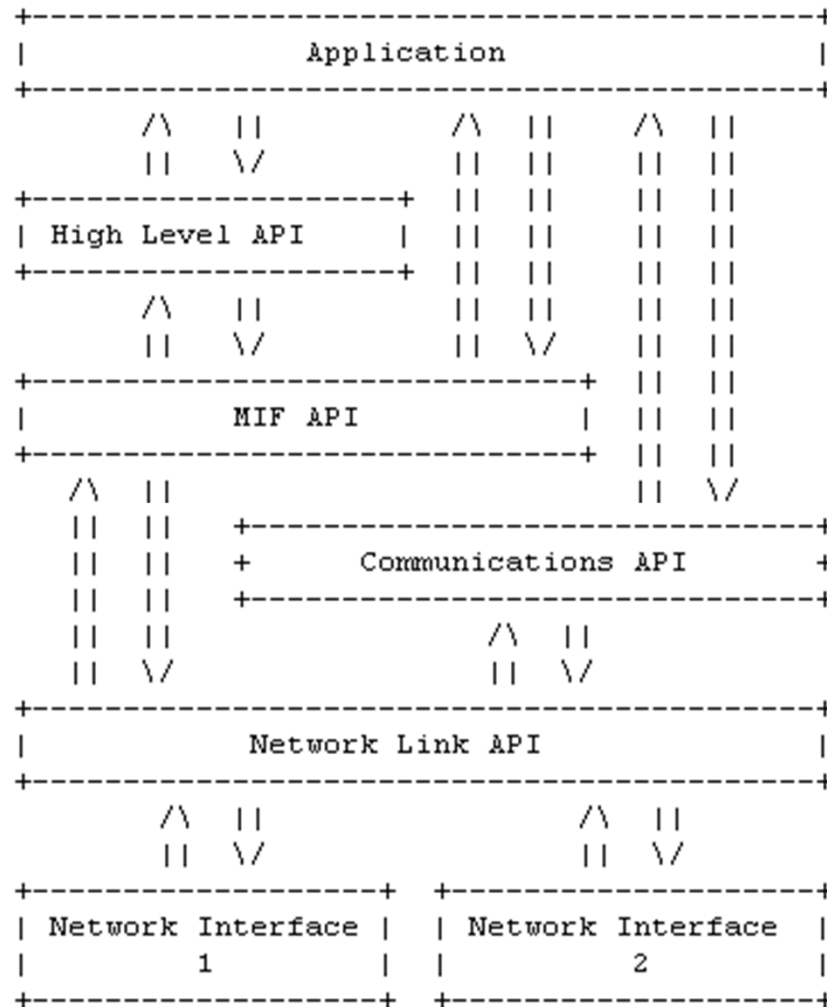


MIF API

draft-ietf-mif-api-extension-01

Basic Concept of MIF API

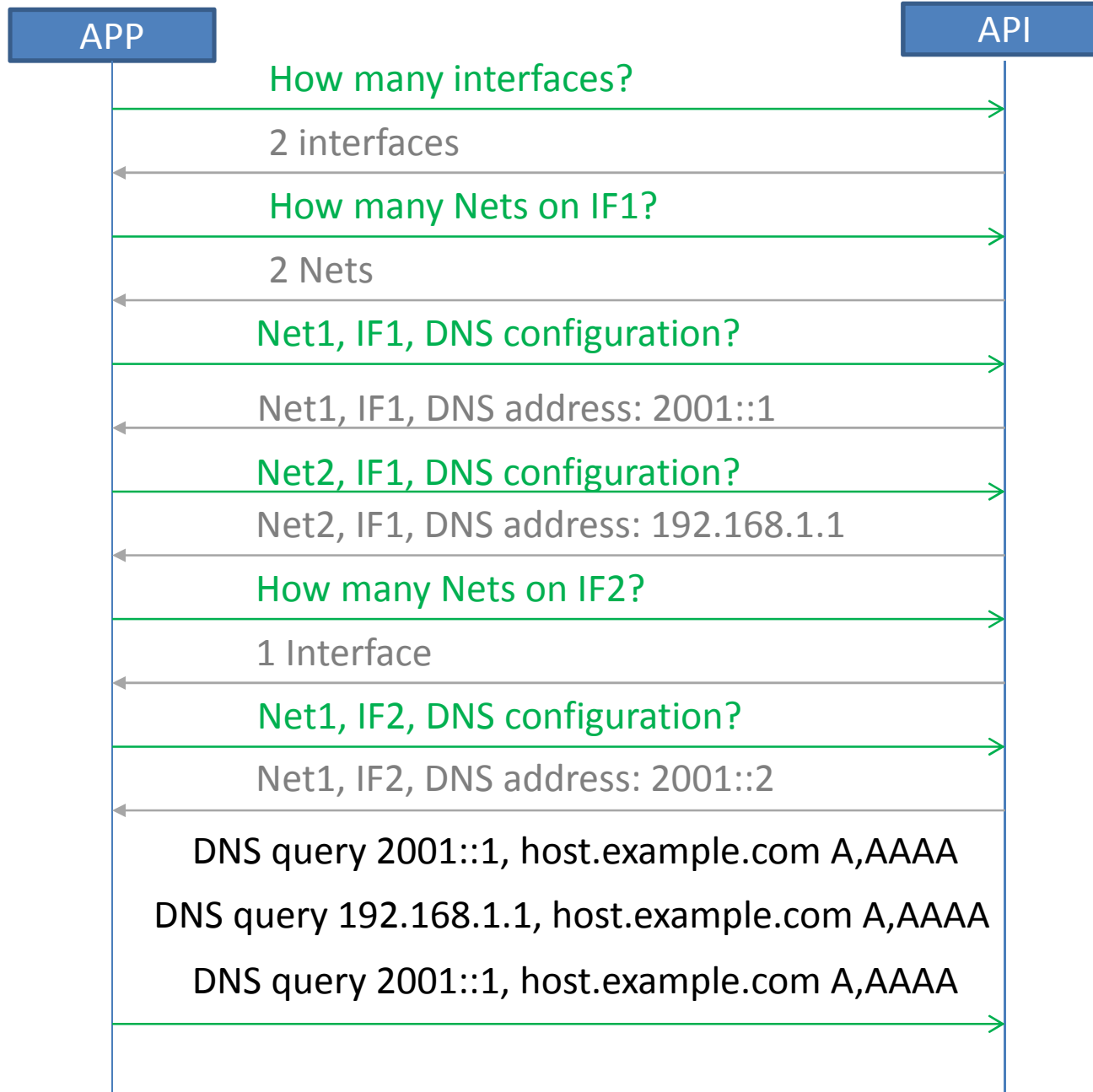


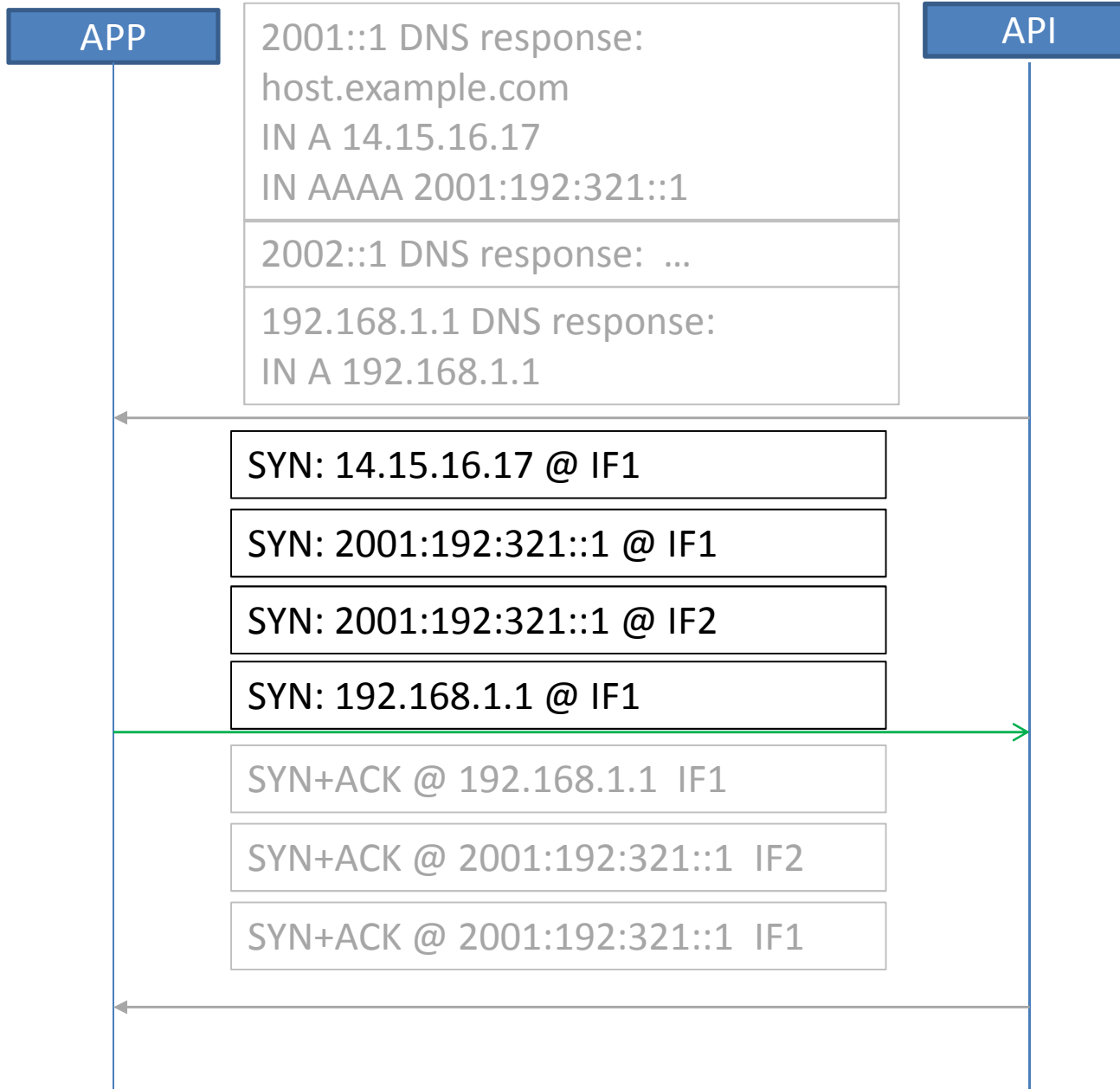
- Application
- High Level API:
 - general-purpose high-level API
- MIF API:
 - used by higher-level APIs
 - it is permissible for applications to use the MIF API when it is deemed necessary
- Communication API
 - E.g. POSIX socket API and a variety of other related APIs
- Network Link API
 - the software that is responsible for actually managing whatever network links are present on a node, whether these are physical links or tunnels.

Communication Model

- POST MESSAGE call
 - Post message, then returns
- CHECK MESSAGE call
 - Check to see if there is a message waiting from the High Level API, the MIF API, or the Communications API.
- GET MESSAGE call
 - Check to see if there is a message waiting.

MIF API Usage Example





Update From the Previous Version

- Application Connectivity Management

Application: Wants to Connect

- This message is sent by the application to the MIF API that indicates the application wants to connect to the network.

Application: Connection Is Idle

- This message is sent by the application to the MIF API to indicate that although connection is open, it is idle, it may be terminated if necessary but it is preferred to keep open.

Application: Connection Can Be Broken

- This message is sent by the application to the MIF API that indicates that the application can tolerate to connection broken with no penalty.

Interface Is Going Away

- This message is sent by the MIF API to the application that indicates the interface is going away. This may be due to the switch off of an interface.

Interface Is Going Up

- This message is sent by the MIF API to the application that indicates the interface is going up. This may be due to the switch on of an interface.

Next Step

- New version of draft add more of functionality discussed in Paris meeting.
- We solicit criticism from working group members particularly those who have worked on related problems.
- We would like to do a final version of the document and go to last call before the next meeting.

- Q&A?