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## **QKD MODULE APIs**

## Southbound interface: QKS to QKD Module

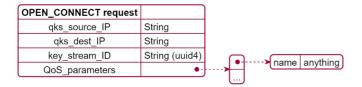
method	path	action	note
open_connect	/api/v1/qkdm/actions/open_connect	POST	
close	/api/v1/qkdm/actions/close	POST	
get_key	/api/v1/qkdm/actions/get_key	POST	
get_key_ids	/api/v1/qkdm/actions/get_ID/< key_stream_ID>?count=	GET	
check_id	/api/v1/qkdm/actions/check_ID	POST	
attach to server	/api/v1/gkdm/actions/attach	POST	

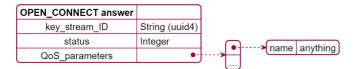
## QKD Module to QKD Module interface

method	path	action	note
open_stream	/api/v1/qkdm/actions/open_stream	POST	
exchange	/api/v1/qkdm/actions/exchange	POST	

## JSONs format

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GET_KEY request		
key_stream_ID	String (uuid4)	
index	Integer	
metadata	•-	} <b>&gt;</b>

GET_KEY answer	
key	String
index	Integer
status	Integer
metadata	•-

CLOSE request	
key stream ID	String (uuid4)

<b>CLOSE</b> answer	
status	Integer

GET_KEY_IDs request	
key_stream_ID	String (uuid4)

<b>GET_KEY_IDs</b> answer				
key_stream_ID	String (uuid4)		Integer	
indexes	•-	····>	Integer	

CHECK_KEY_IDs request			
key_stream_ID	String (uuid4)		Integer
indexes	•-	>	Integer

attachToServer request	
qks_src_IP	String
qks_src_port	Integer
qks_src_ID	String
qks_dest_ID	String

open_stream request	
key_stream_ID	String
source	String
destination	String

close_stream request	
key_stream_ID	String

exchange request		
key str	eam ID	String