

- **1XX – Joining and leaving the network**

ID	Name	Payload	Type of messaging	Description	Response
100	Join_network	[Name, ip add, port no.]	Multicast	Peer joins the network and introduces itself	Direct message is sent by every peer with their name, ip add and port
101	Disjoin_network	[Name, ip add, port no.]	Multicast	Peer disjoins the network	Other peers accept the message by sending name, ip add and port

- **2XX – Processing the requests**

ID	Name	Payload	Type of messaging	Description	Response
200	Create_File	[file id]	Multicast	Peer creates its own files	Other peers accept the message by sending name, ip add and port
201	Get_File	[file id, ip add, port no.]	Direct	Requests a file with the specified id	File is sent to the requesting peer with file id, ip add and port no.
202	Update_File	[file id]	Direct	Requests to update or modify the file with the specified id	File is sent to the requesting peer with file id, ip add and port no
203	Delete_File	[file id]	Direct	Requests to delete the file with a specified id	File is deleted by the peers who possess the same file id

- **3XX – Responses**

ID	Name	Payload	Type of messaging	Description	Response
300	Welcome_network	[file id, ip add, port no.]	Direct	User enters into the peer network	Registers the name, ip add and port no.
301	Your_File	[file id]	Direct	The peer receives the file he requests	Accepts the file with specified file id
302	YourNew_File	[file id]	Direct	The peer receives the file he requests for modifying or updating	Accepts the file and updates its version number
303	YourDeleted_File	[file id]	Direct	The peer receives the file which he wishes to delete	Accepts the file and deletes it

- **4XX- Failures and errors**

ID	Name	Payload	Type of messaging	Description	Response
401	File_Notfound	[file id, ip address, port no.]	Direct	The user cannot find the requested file	The file id is not accepted
402	Write_Fail	[file id]	Direct	The user cannot perform write operation on	The file id is not accepted

				the file	
403	Delete_Fail	[file id]	Direct	The user cannot delete the file	The file id is not accepted
404	File_Lock	[file id]	Direct	The peer cannot access the contents of the file	The file id is not accepted
405	Update_Fail	[file id]	Direct	The peer is unable to update or modifies the contents of the file he requests	The file id is not accepted
406	Network_Fail	[file id, ip address, port no]	Multicast	The user is unable to access the p2p network	The file id, ip address and port no. is not accepted
407	Version_Fail	[file id]	Direct	The peer is unable to update the version of the file	The file id is not accepted
408	Multicast_Error	[name, file id, ip add, port no.]	Direct	The peer is unable to multicast its messages	The name, file id , ip address and port no. are not accepted