



*<< interface type >>*  
*IGroupManagement*

getGroupIds(in rid: ResearcherId): GroupId [ ]  
getGroupDetails(in gid: GroupId): GroupDetails  
getGroupDetailsForMany(in gids: GroupId [ ]): GroupDetails [ ]  
leaveGroup(in rid: ResearcherId, in gid: GroupId): bool  
joinGroup(in rid: ResearcherId, in gid: GroupId, in password: String): bool  
createGroup(in name: String, in type: enum {PROJECT\_GROUP, RESEARCH\_GROUP}, in password: String): GroupId  
getMemberIds(in gid: GroupId): ResearcherId [ ]  
checkPassword(in gid: GroupId, in password: String): bool



*<< core >>*  
*Group*

gid: GroupId  
Name: String  
Password: String  
creator: ResearcherId

addMember(in rid: ResearcherId): bool  
deleteMember(in rid: ResearcherId): bool

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*<< data type >>*  
*GroupDetails*

gid: GroupId  
name: String  
type: GroupType  
members: ResearcherId [ ]