THECONCEPTOFMULTILEVELORHIERARCHICALSECRETSHARINGWASCONSIDEREDBYSEVERALAUTHORSSEEFOREXAMPLESHAMIRKOTHARIITOANDCHARNESSHAMIRSUGGESTSTHATTHRESHOLDSCHEMESFORHIERARCHICALGROUPSCANBEREALIZEDBYGIVINGMORESHARESTOHIGHERLEVELPARTICIPANTSKOTHARICONSIDEREDHIERARCHICALTHRESHOLDSCHEMESINWHICHASIMPLETINITHRESHOLDSCHEMEISASSOCIATEDWITHTHEITHLEVELOFAMULTILEVELGROUPTHEOBVIOUSDRAWBACKOFTHISSOLUTIONISTHATITDOESNOTPROVIDECONCURRENCYAMONGDIFFERENTLEVELSOFHIERARCHICALGROUPSITODISCUSSEDSECRETSHARINGFORGENERALACCESSSTRUCTURESANDPROVEDTHATEVERYACCESSSTRUCTURECANBEREALIZEDBYAPERFECTSECRETSHARINGSCHEMETHEMAINDRAWBACKOFTHEIRSCHEMEISTHATTHEMOREPRIVILEGEDPARTICIPANTSAREASSIGNEDLONGERSHARESSIMMONSPOINTEDOUTTHATTHESOLUTIONSFORSECRETSHARINGINMULTILEVELGROUPSPROPOSEDBYEARLIERAUTHORSARENOTEFFICIENTHESUGGESTEDEFFICIENTGEOMETRICALSECRETSHARINGSCHEMESWITHTHEREQUIREDPROPERTIESHOWEVERHISSOLUTIONISAPPLICABLEONLYTOAPARTICULARCASEOFMULTILEVELGROUPSMOREPRECISELYHEDISCUSSEDSECRETSHARINGINMULTILEVELGROUPSWITHPARTICULARACCESSSTRUCT