DlogGroupFactory examples

1. Example of how to create a DlogGroup instance with DlogGroupFactory for a specific known group:

DlogGroup dlogGroup = DlogGroupFactory.*getInstance*().getObject(("DlogECFp(P-224)", “Miracl”);

1. Example of how to create a DlogGroup instance with DlogGroupFactory for a group that is known only at runtime, for example the name is read from a configuration file:

**class** DlogGroupConfig{

String dlogGroup = **null**;

String dlogProvider = **null**;

String algorithmParameterSpec = **null**;

}

DlogGroupConfig config = readConfigFile(fileName);

DlogGroup dlogGroup = DlogGroupFactory.*getInstance*().getObject(config.dlogGroup+"("+config.algorithmParameterSpec+")", config.dlogProvider);

Where the configuration file can look as follows:

DlogGroup.ini:

dlogGroup = DlogZpSafePrime

dlogProvider = CryptoPP

algorithmParameterSpec = 1024

dlogGroup = DlogECFp

dlogProvider = Miracl

algorithmParameterSpec = P-224

dlogGroup = DlogECF2m

dlogProvider = BC

algorithmParameterSpec = B-233