Формирование запроса PKCS#10

```
#include "rutoken/pki-core-cpp.h"
#include <iostream>

using namespace rutoken::pkicore;

class PkiCore
{
public:
        explicit PkiCore(const std::string& path)
        {
                initialize(path);
        }
        ~PkiCore() throw()
        {
                try {
                        deinitialize();
                }
                catch (...) {
                        //EXPECT_TRUE(false);
                }
        }
};

int main()
{
        try {
                PkiCore p("./");

                auto deviceList = Pkcs11Device::enumerate();

                for (auto& d : deviceList)
                                std::cout << d.getLabel() << std::endl;

                deviceList.front().login("12345678");

                auto keyA = deviceList.front().generateKeyPair(Pkcs11Device::Gost34102001KeyGenParams
(Gost34102001Paramset::a));

                X500Dn x500Dn;
                //     utf8:  http://en.cppreference.com/w/cpp/language/string_literal
                x500Dn.setRdn(X500Dn::RdnId::commonName, u8"  ");
                x500Dn.setRdn(X500Dn::RdnId::surname, "Ivanov");
                x500Dn.setRdn(X500Dn::RdnId::givenName, "Ivan");
                x500Dn.setRdn(X500Dn::RdnId::title, "king");
                x500Dn.setRdn(X500Dn::RdnId::pseudonym, "Ivan");
                x500Dn.setRdn(X500Dn::RdnId::emailAddress, "example@example.com");
                x500Dn.setRdn(X500Dn::RdnId::countryName, "RU");
                x500Dn.setRdn(X500Dn::RdnId::localityName, "Moscow");
                x500Dn.setRdn(X500Dn::RdnId::stateOrProvinceName, "Moscow");
                x500Dn.setRdn(X500Dn::RdnId::organization, "Aktiv");
                x500Dn.setRdn(X500Dn::RdnId::organizationalUnit, "IT");
                x500Dn.setRdn(X500Dn::RdnId::street, "STREET");
                x500Dn.setRdn(X500Dn::RdnId::ogrn, "12345678987")
                                .setRdn(X500Dn::RdnId::ogrnip, "12345678987")
                                .setRdn(X500Dn::RdnId::snils, "12345678987")
                                .setRdn(X500Dn::RdnId::inn, "12345678987");

                unsigned char customExtensionASN1Data[] = {
                        0x0C, 0x33, 0x30, 0x30, 0x43, 0x41, 0x30, 0x31,
                        0x37, 0x38, 0x69, 0xD0, 0x90, 0xD0, 0xA0, 0xD0,
                        0x9C, 0x20, 0xD0, 0x98, 0xD0, 0xBD, 0xD0, 0xB8,
                        0xD1, 0x86, 0xD0, 0xB8, 0xD0, 0xB0, 0xD0, 0xBB,
                        0xD0, 0xB8, 0xD0, 0xB7, 0xD0, 0xB0, 0xD1, 0x86,
                        0xD0, 0xB8, 0xD0, 0xB8, 0x20, 0xD0, 0xA2, 0xD0,
                        0x95, 0xD0, 0xA1, 0xD0, 0xA2,
                };
```

```
                Pkcs10RequestInfo requestInfo;
                requestInfo.setSubject(x500Dn)
                                                .addKeyUsage(Pkcs10RequestInfo::X509KeyUsage::digitalSignature)
                                                .addKeyUsage(Pkcs10RequestInfo::X509KeyUsage::nonRepudiation)
                                                .addExtendedKeyUsage(Pkcs10RequestInfo::X509ExtendedKeyUsage::
emailProtection)
                                                .addExtendedKeyUsageByOid("1.2.643.2.2.34.6") // CryptoPro RA
user
                                                .addCustomExtension("1.2.643.3.123.3.1",
customExtensionASN1Data, sizeof(customExtensionASN1Data), fasle)
                                                .addSubjectSignTool();

                Pkcs10Request request = createPkcs10Request(keyA, requestInfo);
                auto data = request.toPem();

                std::cout << data << std::endl;

                return 0;
        } catch (const std::exception& e) {
                std::cout << e.what() << std::endl;
        }
}
```