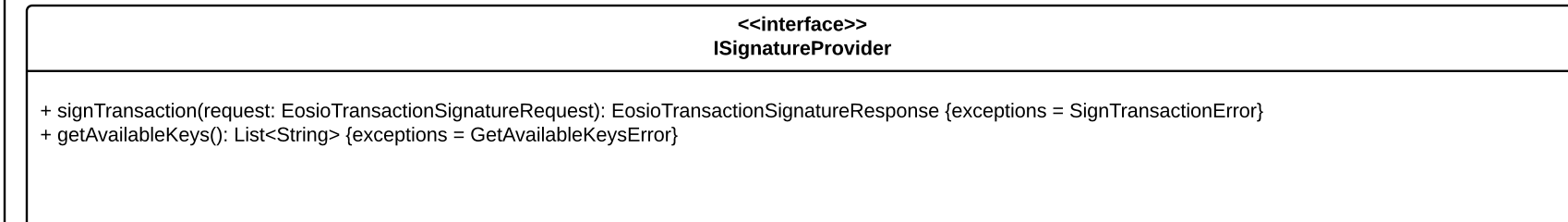
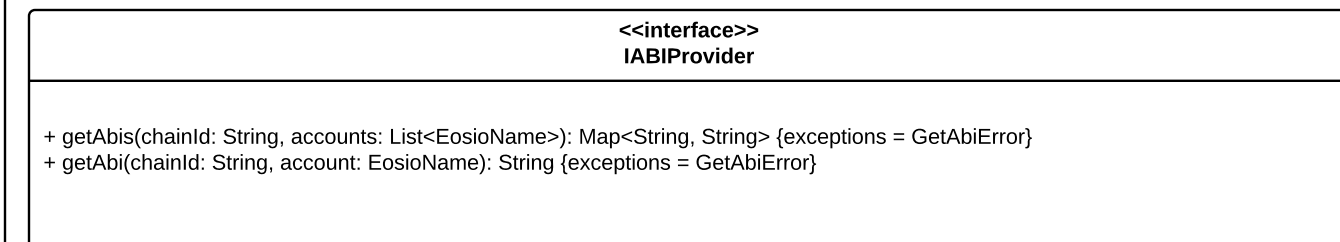
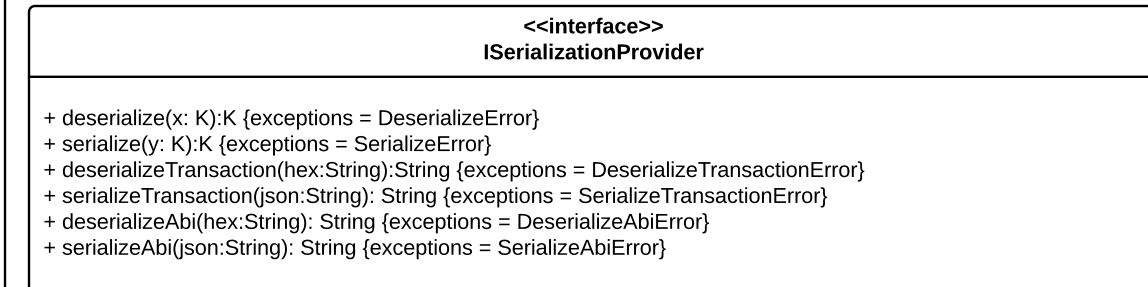
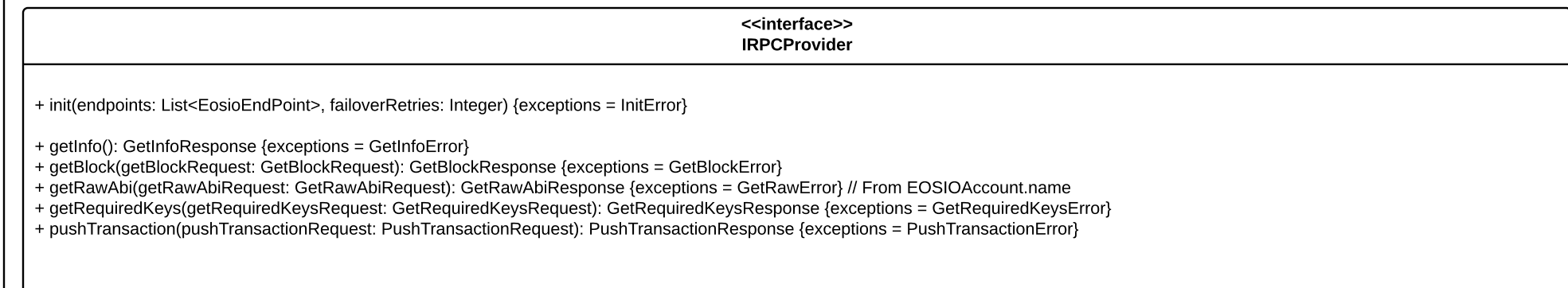


one block: eosiojava.interfaces



Note - With this model the implementor is forced to handle the error for the method being called.

SAMPLE IMPLEMENTATION

class SignatureProviderImpl implements SignatureProvider{

```
    @Override
    public List<String> getAvailableKeys() throws GetAvailableKeyError {
        throw new GetAvailableKeyError("Get Available key error", new NullPointerException());
    }
}
```

```
interface SignatureProvider {
    List<String> getAvailableKeys() throws GetAvailableKeyError;
}
```

```
@Test
public void testSignatureProviderError() {
    try {
        new SignatureProviderImpl().getAvailableKeys();
    } catch (SignatureProviderError error) {
        error.printStackTrace();
    }
}
```

```
@Test
public void testGetAvailableKeyErrorChain() {
    try {
        try {
            new SignatureProviderImpl().getAvailableKeys();
        } catch (GetAvailableKeyError error) {
            throw new SignatureProviderError("Signature provider chain with getAvailableKey error", error);
        }
    } catch (SignatureProviderError error) {
        error.printStackTrace();
    }
}
```

LOGS:

For testGetAvailableKeyErrorChain() test.... (In this implementation we receive the whole chain.)

com.example.kenscarberrysignature.error.SignatureProviderError: Signature provider chain with getAvailableKey error at com.example.kenscarberrysignature.crypto.ErrorTest3.testGetAvailableKeyErrorChain(ErrorTest3.java:50)

.....
Caused by: com.example.kenscarberrysignature.error.GetAvailableKeyError: Get Available key error at com.example.kenscarberrysignature.crypto.ErrorTest3\$SignatureProviderImpl.getAvailableKeys(ErrorTest3.java:61)
at com.example.kenscarberrysignature.crypto.ErrorTest3.testGetAvailableKeyErrorChain(ErrorTest3.java:48)
... 22 more

Caused by: java.lang.NullPointerException
... 24 more

For testSignatureProviderError test... (In this implementation we receive the root cause.)

com.example.kenscarberrysignature.error.GetAvailableKeyError: Get Available key error at com.example.kenscarberrysignature.crypto.ErrorTest3\$SignatureProviderImpl.getAvailableKeys(ErrorTest3.java:38)
at com.example.kenscarberrysignature.crypto.ErrorTest3.testSignatureProviderError(ErrorTest3.java:49)
.....

Caused by: java.lang.NullPointerException
... 24 more

one block: eosiojava.error

