

1 Why haxe

Haxe is a practical cross-platform toolkit making it simpler to maintain multi-platform projects. In this document we outline our reasons for choosing Haxe by showing sample listing of the various targets that get generated by Haxe. In addition to these files, it supports multiple targets including native support for iPhone and Android; the platforms that are relevant to the current dApp.

2 Sample haxe code

```
class BlockHeaderWithData {
    var header : BlockHeader;
    /*
     * TODO: Bytes types wraps platform dependent bytes.
     * Check on irc if this is the right way to doing this.
     */
    var data : Bytes;
}

class IdPoint {
    var address : String;
    var port : Int;
}

class ConnectionVersion {
    var name : String;
    var major : Int;
    var minor : Int;
}

class Metadata {
    var data : Bytes; //TO Be completed
}

class ConnectionInformation {
    var incoming : Bool;
    var peerId : PeerId;
    var idPoint : IdPoint;
    var remoteSocketPort : Int;
    var versions : List<ConnectionVersion>;
}
```

3 Generated cpp code

```

// Generated by Haxe 3.4.7
#include <hxcpp.h>

#ifndef INCLUDED_realitz_tezos_rpc_ConnectionVersion
#include <realitz/tezos/rpc/ConnectionVersion.h>
#endif

namespace realitz{
namespace tezos{
namespace rpc{

void ConnectionVersion_obj::__construct() { }

Dynamic ConnectionVersion_obj::__CreateEmpty() { return new ConnectionVersion_obj(); }

void *ConnectionVersion_obj::__hx_vtable = 0;

Dynamic ConnectionVersion_obj::__Create(hx::DynamicArray inArgs)
{
    hx::ObjectPtr< ConnectionVersion_obj > _hx_result = new ConnectionVersion_obj();
    _hx_result->__construct();
    return _hx_result;
}

bool ConnectionVersion_obj::__hx_isInstanceOf(int inClassId) {
    return inClassId==(int)0x00000001 || inClassId==(int)0x7c21c9d1;
}

```

4 Generated Java code

```

// Generated by Haxe 3.4.7
package realitz.tezos.rpc;

import haxe.root.*;

@SuppressWarnings(value={"rawtypes", "unchecked"})
public class ConnectionVersion extends haxe.lang.HxObject
{
    public ConnectionVersion(haxe.lang.EmptyObject empty)
    {
    }

    public ConnectionVersion()
    {
        //line 144 "/home/dinkarg/realitz/src/haxe/realitz/tezos/rpc/BlockHeader.hx"
    }

```

```

    realitz.tezos.rpc.ConnectionVersion._hx_ctor_realitz_tezos_rpc_ConnectionVe
}

public static void _hx_ctor_realitz_tezos_rpc_ConnectionVersion(realitz.tezos
{
}

public java.lang.String name;

public int major;

public int minor;

```