ProxyObject creation phase

Participants: ObjectProxyFactory, objectProxy : ObjectProxy, type : TDataMember, method: TMethod, exports: Local<Value>, • Proxy

createObjectProxy(type, scope, holder) → ObjectProxyFactory

alt ["type->Property() & kIsClass" case]

ObjectProxyFactory → objectProxy : ObjectProxy : ObjectProxy(type, scope)
objectProxy : ObjectProxy --> ObjectProxyFactory : objectProxy

ObjectProxyFactory → objectProxy : ObjectProxy : get()
objectProxy : ObjectProxy --> ObjectProxyFactory : exports

ObjectProxyFactory → type : TDataMember : getClass()
type : TDataMember --> ObjectProxyFactory : klass

loop ["klass->GetListOfAllPublicMethods() : method"]

ObjectProxyFactory → method: TMethod : GetName()
method: TMethod --> ObjectProxyFactory : methodName

ObjectProxyFactory → exports: Local<Value> : Set(methodName, CallbackHandler::functionCallback)
exports: Local<Value> --> ObjectProxyFactory

loop ["klass->GetListOfAllPublicDataMembers : dataMember"]

ObjectProxyFactory → ObjectProxyFactory : createObjectProxy(dataMember, scope, holder)
ObjectProxyFactory --> ObjectProxyFactory : objectProxy

ObjectProxyFactory → exports: Local<Value> : Set(dataMemberName, objectProxy)
exports: Local<Value> --> ObjectProxyFactory

ObjectProxyFactory → objectProxy : ObjectProxy : setProxy(exports)
objectProxy : ObjectProxy --> ObjectProxyFactory

ObjectProxyFactory → • Proxy : • Proxy(type, scope)

> **Note:** To select the right Proxy
> (e.g. StringProxy, NumberProxy, ...)
> we might use hashing or just a usual
> map, this will be decided during
> implementation

• Proxy --> ObjectProxyFactory : objectProxy

ObjectProxyFactory --> objectProxy