# dotNetRDF Design Document

## dotNetRDF 0.5.0

Library: dotNetRDF.dll  
Version: 0.5.0  
Target Date: August 2011  
Author: Rob Vesse  
Proposed Implementer: Rob Vesse  
Last Updated: 04/07/2011 11:07:00

## Required Features

* Extend IRdfHandler and ISparqlResultsHandler to be available for use in every appropriate place
* Add additional handlers and associated required classes for serializing direct to other formats like RDF/XML, SPARQL XML etc
* Implement all features originally planned for the 0.4.2 and 0.4.3 releases, see relevant design documents for details

## Time Permitting Features

* TBC

## Known Issues/Bugs to Fix

* Any remaining bugs from the 0.4.x series

# Design

## Extend Handlers Interfaces

### 1 – Use with Query Processors

* Add an overload which takes a IRdfHandler and a ISparqlResultsHandler for processing the results as appropriate

### 2 – Use with IGenericIOManager

* Add a LoadGraph() method that takes a IRdfHandler instead of a IGraph
* Add a Query() method that takes a IRdfHandler and a ISparqlResultsHandler for processing the results

### 3 – Use with SparqlRemoteEndpoint

* Add QueryWithResultSet() and QueryWithResultGraph() methods that use ISparqlResultsHandler and IRdfHandler instead

### 4 – Use with all other Query Methods

Any method which executes a SPARQL Query should be capable of taking an IRdfHandler and a ISparqlResultsHandler for use as appropriate

## Additional Handlers

Define new interfaces for allowing formatting of data into formats that require a header and/or footer such as XML based formats. Alter existing write through handlers to support these. Add a write through handler for SPARQL results