

# How to read the RIM artefact Diff Logs

## What the Diff Logs contain

There are five diff logs provided in the artefacts. These are for the:

- schema (.xsd .diff file)
- schematron (.sch .diff file)
- descriptive sample (.xml .diff file)
- schema valid sample (.xml .diff file)
- all (a merged set of all of the above diff logs)

Each diff log contains any information that is different between the two sets of files. The way you can tell if the detail is from the new version or the old version is based on the + / - sign at the beginning of the line. The + information is the new content. The - information is the content that has been removed. If the line doesn't start with + / - sign, it is unchanged and provided only for context. HINT: If you use a text editor with context highlighting, you will see these colour-coded to ease navigation.

## Detailed format of the diff logs

The diff logs are a modified version of a standard Unix “unified diff” file. Unlike standard unified diffs, the diff logs do not contain the 2-line header or line numbers in the chunk header. These items are omitted because the removal of extraneous differences from the diff logs would make these unreliable. NB. The modified nature of the format of the diff logs makes them unsuitable for use with the standard Unix ‘patch’ command. Since all versions of the artefacts are freely available, preparation of a diff suitable for use with patch should be done with the standard Unix ‘diff’ command.

## How to use each of the RIM artefact Diff Logs

### Schema

This diff file will tell you any changes that have occurred to the schema provided in the RIM artefacts. This will show you what changes are required to the structure of the XML submissions provided.

### Schematron

This diff file provides you with the details of validation rule changes beyond those driven by the schema. Here are some hints for using this file:

Schematron rules are grouped by the element in the schema they are triggered from.

- From `sch:rule`, the `context` attribute provides the path to the schema element the rule is applied to. You can use this information to navigate to the appropriate location in the SpecDoc where the rule has changed.
- The validation rules and their rule descriptions are in `sch:assert` elements.
- Rules could have moved position (added to a different element in the schema) or could have been changed (in which case you would see both a - and a + `assert` element both containing the same `id` attribute. It is

possible that the rule is the same, but that only the descriptions have changed. You will see this represented as a - and a + `assert` element both containing the same `id` attribute, where the rule text is identical, but the description is different.

- Remember that a - row represents a rule removal from that location and a + row represents a rule addition from that location.
- The benefit of the `assert` element containing the rule description text is that you can use this information to trace a rule change in the SpecDoc if you want to check against that RIM artefact.

Other differences in a schematron diff relate to the `sch:diagnostic` element.

- There can be one or many `sch:diagnostic` elements for a particular rule, relating to the error codes and error messages. If an error message or code has changed, you will see this represented as a - and a + `sch:diagnostic` element.
- A set of diagnostic elements link to an `assert` element in the main schematron file (in the `assert` element they are referenced as a space separated list in the “diagnostics” attribute), but will not necessarily have a matching `assert` element in the diff. This is because although an error code or message has changed, it may not follow that the rule has changed, and vice versa.

- Error code diagnostics have `id` attributes starting with “errorCode”, for example;

```
<sch:diagnostic  
id='errorCode.INLINEXBRLDOCUMENT.1.0'>9901</sch:diagnostic>
```

- Error message diagnostics have `id` attributes starting with “transactional”, for example:

```
<sch:diagnostic id='transactional.INLINEXBRLDOCUMENT.1.0'>You  
have tried to submit multi page accounts or computations but  
have not identified the main or primary page with an Entry  
Point attribute.</sch:diagnostic>
```

## Descriptive sample

This diff file allows you to consider the change to the information regarding what the schema elements should contain. This is particularly useful if the meaning of items changes over time.

## Schema valid sample

Here you will see content changes that we needed to make to ensure the schema valid sample we provide with the artefacts is still schema valid. As usual, content that is added will start with a + and content that can or must be removed starts with a -.

## All.diff

This file captures all the differences from all the diff files listed above. You could choose either the individual diff files or the merged ‘all’ file to identify the various differences in the artefacts.