



## **Feasibility Study for DCEG to Docbook Conversion and Product Generation**

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**[www.iictechnologies.com](http://www.iictechnologies.com)**

***Task: Test the feasibility of converting the DCEG S-100 builder to docbook S-410 catalogue***

The IHO S-100 Geospatial Registry Domain contains a build the S-100 DCEG feature and catalogue builder that will convert the S-10X exchange into useable documentation, within PDF format.

The IEHG already contains its S-401 catalogue in docbook format, open source software.

IIC was tasked to test the feasibility of synchronizing the builder to docbook, with the attempt to seamless digest content from S-100 DECG builder and insert it within the latest docbook settings, outputting a new Encoding Guide as either register progresses.

## ***Docbook Overview***

DocBook is a semantic markup language for technical documentation providing a vast number of semantic element tags, divided into three broad categories: structural, *block-level*, and *inline*.

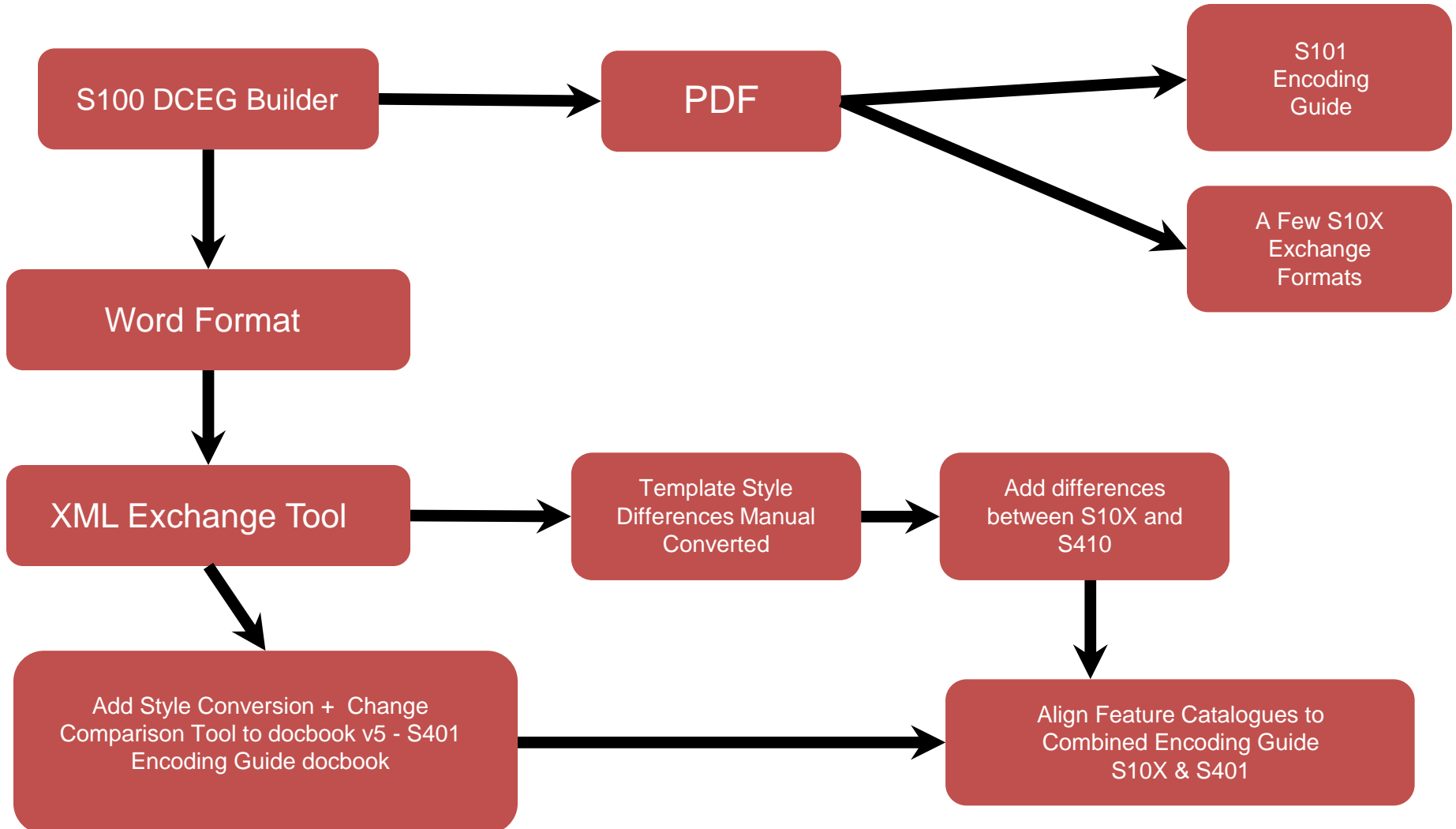
DocBook content can be published in a variety of formats, including HTML, PDF, WebHelp, and EPUB

Technical writers can focus on the content, and the appearance will be taken care by the stylesheets

Uniformity of documents appearance – title pages, headers, footers

## ***RESEARCH METHODOLOGY***

1. Digest docbook v5 guidelines and data structure
2. Digest the S-100 DCEG Builder with the S-100 Domain Register
3. Explore direct conversion to docbook
4. Explore exchange mediums for DCEG to docbook conversion
5. Implement test bed strategy to covert from DCEG to docbook.
6. Test conversion process and results



## **RESULTS**

1. A majority of the styles and templates will convert via the XML exchange methods used for testing.
2. Potentially rethink the design of certain sections, to make it a seamless operation without additional styles needing to be converted between formats.
3. Test of conversion tool saw success with headers, sub-headers, and body
4. Conversion of feature object template a success, along with images, header, sub-header, and body.
5. IIC is confident a conversion and comparison tool can be designed to align the DCEG with docbook, synchronizing both EG into a single repository.

***THANK YOU***