



Word DNR plugin

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Background

- ASCE has powerful plugin engine
- Includes ability to extract and manage content from external sources
- Key technology is the DNR – dynamic Narrative Region

Existing DNRS

- DNRS exist for wide range of formats
 - Excel
 - Databases (MS Access, ODBC)
 - Other ASCE networks
 - PDF
 - DOORS
 - Embedded issues
 - ...

Linking to Word

- A lot of evidence is held in Word files
- We can already link to the file as a whole
 - Could be 100 pages
 - Any change to the file would be detected
 - But we wouldn't know what changed
- But could we do similar thing to other DNRS?
 - Extract a section of word document
 - Often requested by users

Why not so far?

- ASCE uses open standards
- Node narrative is plain HTML
 - Allows export
 - Data longevity
- Need to get content from Word document as HTML
 - Word created HTML is verbose
 - Needs cleaning
- Performance hit
 - Need to open full MS document in the background, convert to HTML, then extract content
 - Could be slow for large documents

Word DNR

- Solved the problem of cleaning Word HTML
- To address performance problem we can cache the temporary HTML generated from Word
- So first extraction is slower, subsequent one are fast
 - Multiple extractions from a document same cost as a single one
- Still needs more work, but we have a working beta

Demo – plugin form

- Plugin form
- Shows selecting a word document
- Table of contents analysed
- A particular heading is selected
- Number of subsequent paragraphs can be specified
- Preview of content shown

Edit the embedded Dynamic Narrative Region (DNR)

Word DNR

File ...

Heading/Bookmark

Extract paragraphs from to

Preview of content:

Recommendations

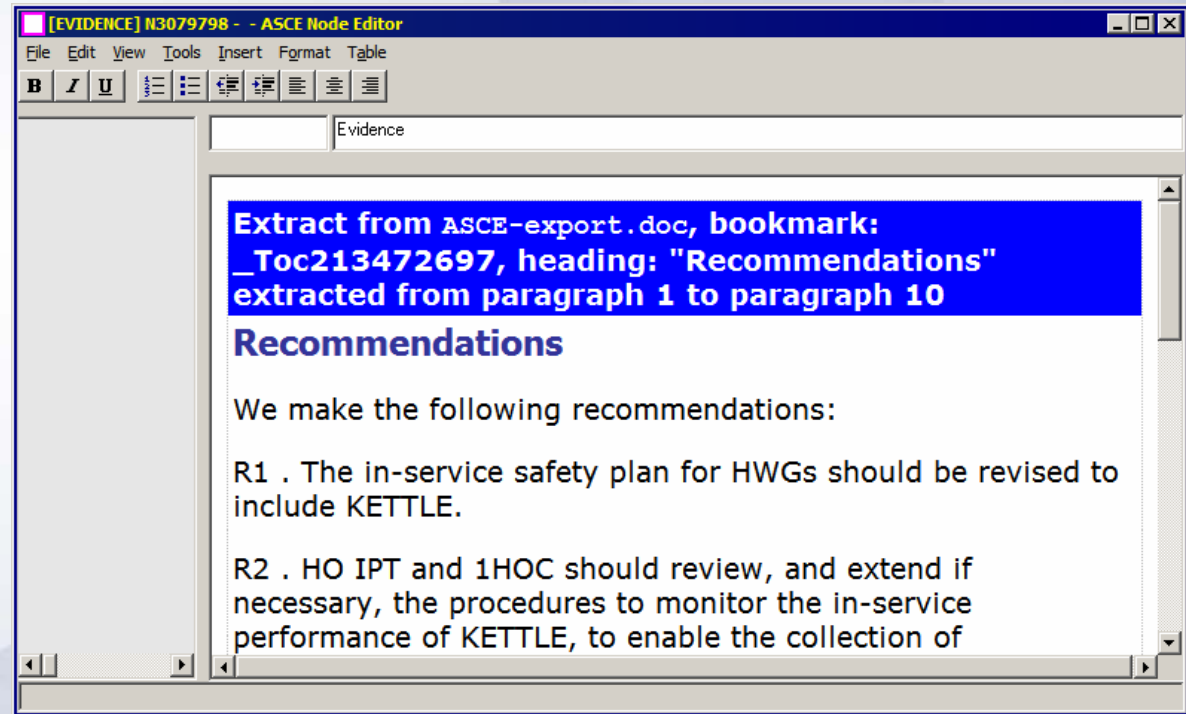
We make the following recommendations:

R1 . The in-service safety plan for HWGs should be revised to include KETTLE.

R2 . HO IPT and IHOC should review, and extend if necessary, the procedures to monitor the in-service performance of KETTLE, to enable the collection of

DNR updated

- DNR content generated and displayed in node narrative
- As with other DNRS, changes to the underlying content can be detected and shown



Availability

- Beta available for evaluation
- Contact asce_support@adelard.com if you are interested in trying it and giving some feedback



End of slides