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SVG Tests

Abstract

This memo is for experimenting with SVG in the context of RFC production.

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Author's Address

1. Introduction

This memo is for experimenting with SVG in the context of RFC production.

This document assumes a kramdown-rfc2629 based editing flow.

1.1. Conventions used in this document

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "NOT RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in BCP 14 [RFC2119] [RFC8174] when, and only when, they appear in all capitals, as shown here.

2. Code Layout

The code is structured as follows:

In particular, the art directory contains the diagrams in ASCII art.

3. From ASCII art to SVG

The Makefile contains bunch of variables and a pattern rule to deal with automatic generation of SVG from ASCII using a Golang tool called goat. Another tool, svgcheck, is used to make sure xml2rfc will like the SVG.

```
# The "art" variables:
art_src := $(wildcard $(art_dir)/*.ascii-art)
art_svg := $(art_src:.ascii-art=.svg)

# The pattern rule used to transform each and every ASCII
# art into SVG:

%.svg: %.ascii-art
    @$(goat) $< | $(svgcheck) -r -o $@ 2>/dev/null || true
    To install goat and svgcheck, do:

$ go get github.com/blampe/goat
$ pip install svgcheck
```

4. Building the XML

The Submit tool on the Datatracker wants the submitted XML to be self contained.

To inline the diagrams you need to do the following:

```
$ kramdown-rfc2629 --v3 \
          draft-fossati-svg-test.md > draft-fossati-svg-test.xml
$ xml2rfc --v3 --preptool draft-fossati-svg-test.xml
$ xml2rfc --v3 --expand draft-fossati-svg-test.prepped.xml
$ mv draft-fossati-svg-test.prepped.exp.xml \
          draft-fossati-svg-test.xml
$ rm -f draft-fossati-svg-test.prepped.xml
```

The "prepped" and "expanded" draft-fossati-svg-test.xml inlines both the ASCII and the SVG in the artset and is ready for submission.

Of course, from there you can also do the usual TXT / HTML generation:

```
$ xml2rfc --v3 draft-fossati-svg-test.xml \
    draft-fossati-svg-test.txt
$ xml2rfc --v3 --html draft-fossati-svg-test.xml \
    draft-fossati-svg-test.html
```

5. Examples

5.1. A Sequence Diagram

kramdown does not support artset natively. So the artset must be inserted using native xml2rfc syntax. The SVG is included in artwork as a local file. The SVG file is created from its ASCII art equivalent as explained in <u>Section 3</u>.

The result is shown in Figure 1.

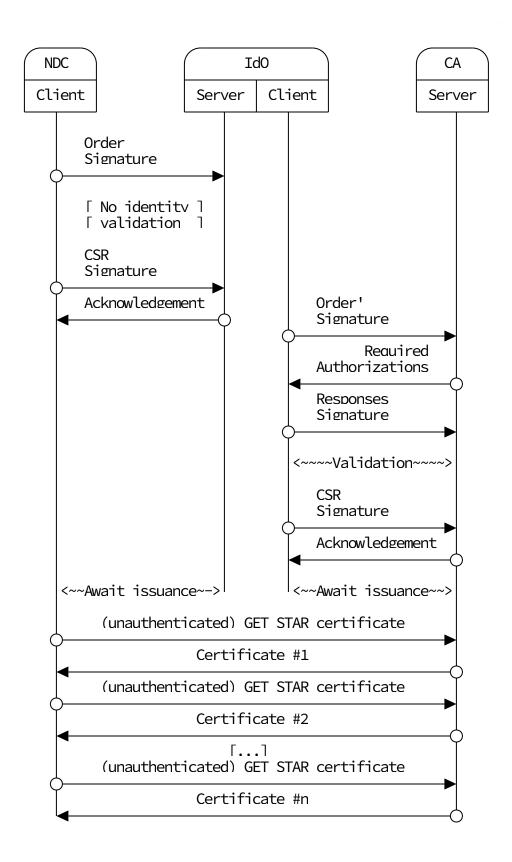


Figure 1: End to end STAR delegation flow

5.2. Lots of Boxes and Arrows

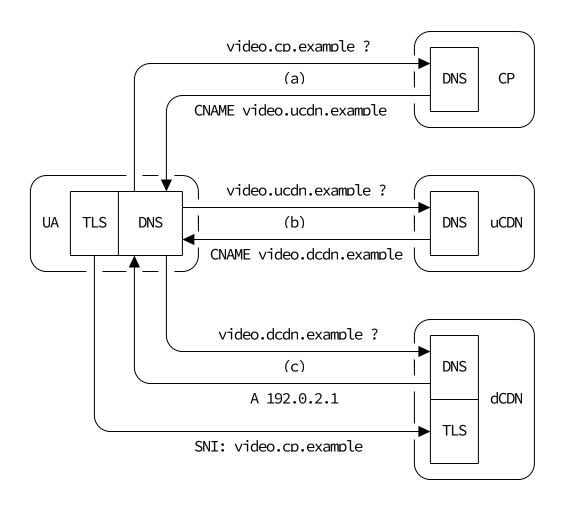


Figure 2: DNS Redirection

5.3. Even More Boxes and Numbered Arrows

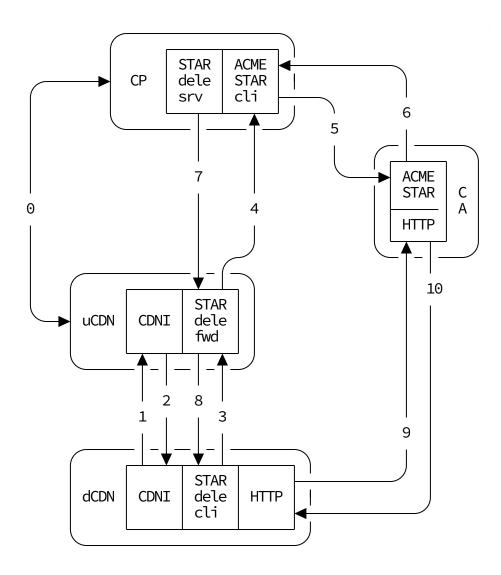


Figure 3: Two levels delegation in CDNI

5.4. And Another One

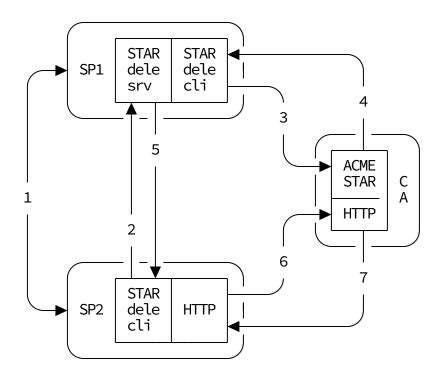


Figure 4: Delegation in STIR

6. IANA Considerations

No requests are made to IANA.

7. Security Considerations

There are none.

8. Acknowledgments

Yaron for pointing out the current limitations in the tooling and providing the workaround.

9. Normative References

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