

Workgroup: None
Internet-Draft: draft-fossati-svg-test-03
Published: 13 March 2020
Intended Status: Informational
Expires: 14 September 2020
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SVG Fun with kramdown-rfc2629

Abstract

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

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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.

1.2. Tools

Install goat and svgcheck (Go and Python are obvious prerequisites):

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

Install kramdown-rfc2629 (at least 1.3.2):

```
$ gem install kramdown-rfc2629 -v '>= 1.3.2'
```

2. Draw

Two options:

*Either inline your ASCII / UTF-8 art:

```
~~~ goat
  .-.
 |o o|
C| | |D
 | - |
  ___
~~~
```

*Or source it from an external file:

```
~~~ goat
{::include my-diagram.txt}
~~~
{: #dia-1 title="My Diagram"}
```

3. Build

To go from markdown to XML, HTML and TXT:

```
$ kdrfc -3h draft-fossati-svg-test.md
```

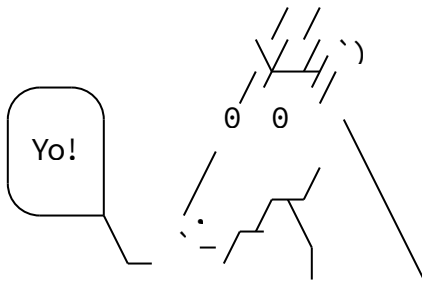
Before submitting to the datatracker the XML file needs to be "prepped":

```
$ xml2rfc --preptool --v3 draft-fossati-svg-test.xml
```

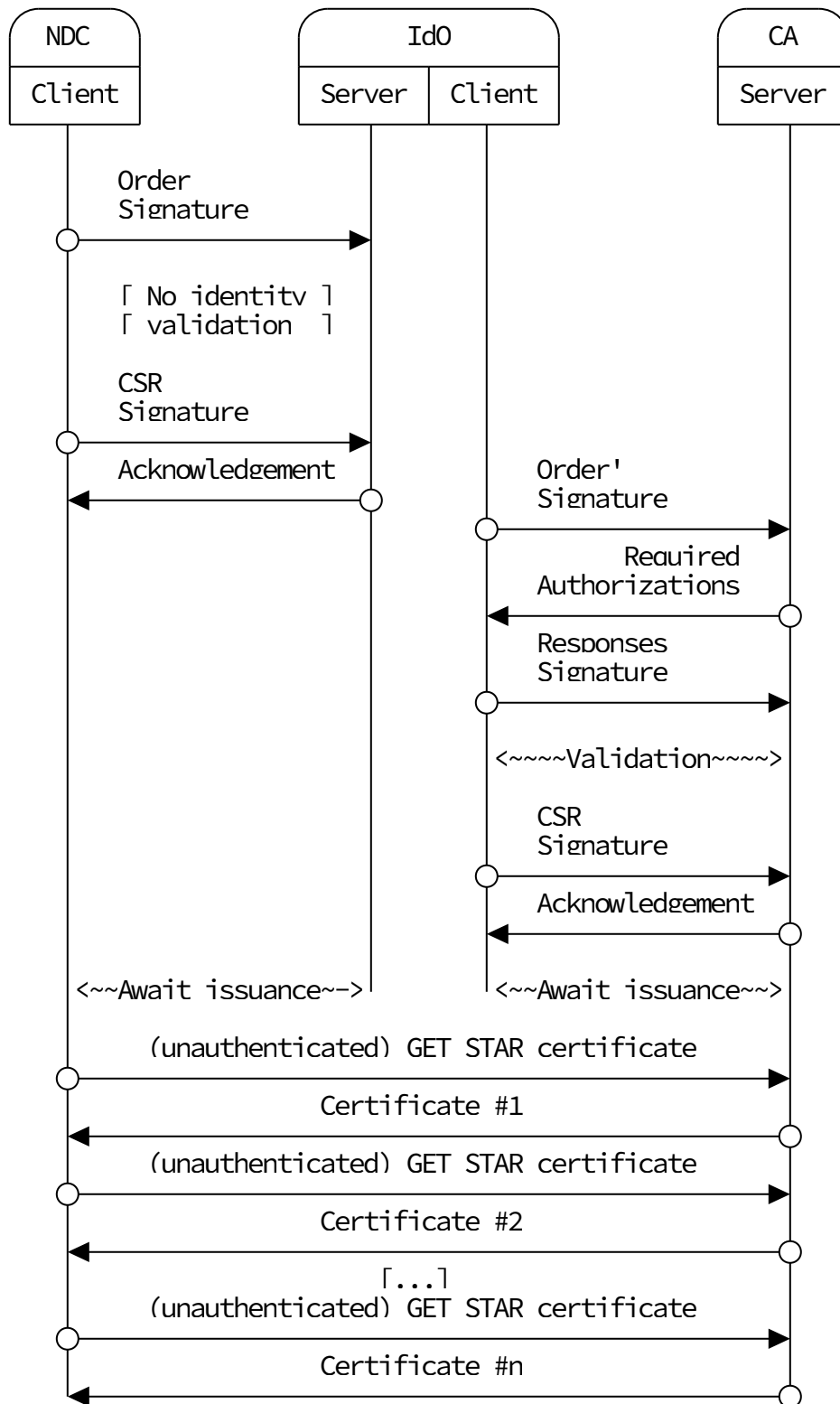
The "prepped" file, draft-fossati-svg-test.prepped.xml in this case, is what needs to be uploaded to the datatracker.

4. Examples

4.1. Hello World



4.2. An Inlined Sequence Diagram



4.3. A Sourced "Box and Arrows" Diagram

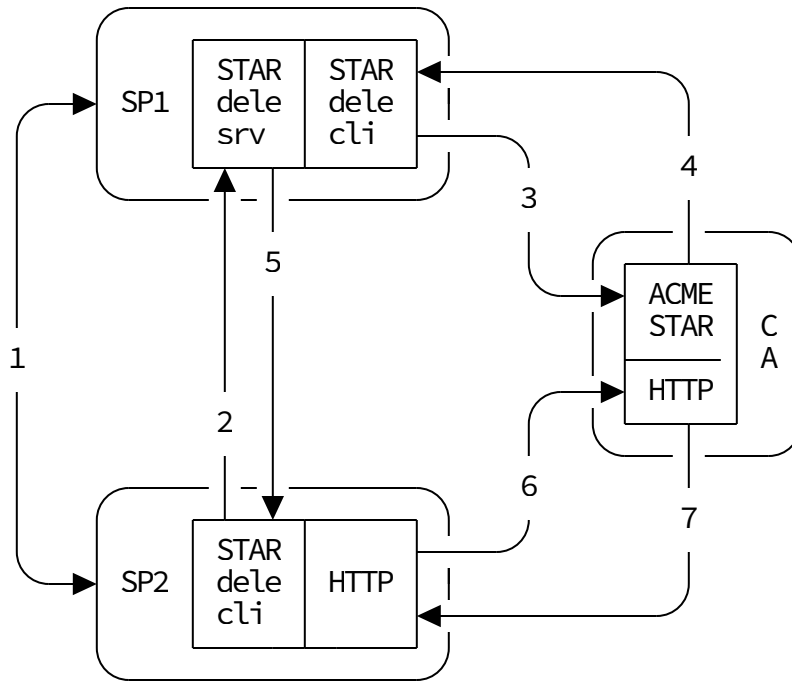


Figure 1: STIR Delegation Flow

5. IANA Considerations

No requests are made to IANA.

6. Security Considerations

There are none.

7. Acknowledgments

Yaron for pointing out the current limitations in the tooling and providing the workaround. Carsten for working the kramdown magic.

8. Normative References

- [RFC2119] Bradner, S., "Key words for use in RFCs to Indicate Requirement Levels", BCP 14, RFC 2119, DOI 10.17487/RFC2119, March 1997, <<https://www.rfc-editor.org/info/rfc2119>>.
- [RFC8174] Leiba, B., "Ambiguity of Uppercase vs Lowercase in RFC 2119 Key Words", BCP 14, RFC 8174, DOI 10.17487/RFC8174, May 2017, <<https://www.rfc-editor.org/info/rfc8174>>.

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