

XDI Statements for XDI Graph Patterns

2012-02-06

This document contains the XDI statements (and, for the first example, the JSON serialization) corresponding to each of the example graphs in the XDI Graph Patterns document of the same date. For the latest version of both documents see:

<http://wiki.oasis-open.org/xdi/XdiGraphModel>

Notes:

1. There is exactly one XDI statement for every arc in the corresponding XDI graph.
2. Although these sets of XDI statements represent a 100% of the information in the corresponding XDI graphs, this does not mean that XDI messages need to include all of this information. As a rule, XDI messages do not need to include explicit context statements (where “()” is the predicate)—this information can be inferred from other XDI statements.
3. The statements in an XDI graph are not ordered—order is added explicitly via XRIs and ordinals. In these examples, statements begin with those in which the current root node is the XDI subject.

I-names, I-numbers and synonyms

XDI Statements

1. ()/()/(<http://example.com/ox/#!/0999.a7b2.25fd.c609>)
2. ()/()/(!0999.a7b2.25fd.c609)
3. ()/()/=abc
4. ()/()/#!/0999.a7b2.25fd.c609
5. ()/\$is\$is/(<http://example.com/ox/#!/0999.a7b2.25fd.c609>)
6. ()/\$is\$is/(!0999.a7b2.25fd.c609)
7. =abc/\$is/#!/0999.a7b2.25fd.c609
8. !0999.a7b2.25fd.c609/()/+pea-patch
9. !0999.a7b2.25fd.c609/()/+garden
10. !0999.a7b2.25fd.c609/()/!1
11. !0999.a7b2.25fd.c609+pea-patch/\$is/#!/0999.a7b2.25fd.c609!1
12. !0999.a7b2.25fd.c609+garden/\$is/#!/0999.a7b2.25fd.c609!1

JSON Serialization

```
{
  "0/0": [
    "(http://example.com/ox/=!0999.a7b2.25fd.c609)",
    "(=!0999.a7b2.25fd.c609)",
    "=abc",
    "=!0999.a7b2.25fd.c609"
  ],
  "0/$is$is": [
    "(http://example.com/ox/=!0999.a7b2.25fd.c609)",
    "(=!0999.a7b2.25fd.c609)"
  ],
  "=abc/$is": [
    "=!0999.a7b2.25fd.c609"
  ],
  "=!0999.a7b2.25fd.c609/0": [
    "+pea-patch",
    "+garden",
    "!1"
  ],
  "=!0999.a7b2.25fd.c609+pea-patch/$is": [
    "=!0999.a7b2.25fd.c609!1"
  ],
  "=!0999.a7b2.25fd.c609+garden/$is": [
    "=!0999.a7b2.25fd.c609!1"
  ]
}
```

Local graphs and XDI discovery

1. 0/0/(=!0111.7af3.65d5.8cb7)
2. 0/0/(@!0111.db4a.e317.7a12)
3. 0/0/(=!0222.e3f2.76cb.904a)

4. ()/\$is\$is/(=!0111.7af3.65d5.8cb7)
5. (!0111.7af3.65d5.8cb7)/()/\$uri
6. (!0111.7af3.65d5.8cb7)\$uri/()/!1
7. (!0111.7af3.65d5.8cb7)\$uri!1!/!(data,
http://xdi.example/com/=!0111.7af3.65d5.8cb7)
8. (@!0111.db4a.e317.7a12)/()/\$uri
9. (@!0111.db4a.e317.7a12)\$uri/()/!1
10. (@!0111.db4a.e317.7a12)\$uri!1!/!(data,
http://xdi.example/com/@!0111.db4a.e317.7a12)
11. (!0222.e3f2.76cb.904a)/()/\$uri
12. (!0222.e3f2.76cb.904a)\$uri/()/!1
13. (!0222.e3f2.76cb.904a)\$uri!1!/!(data,
http://xdi.example/com/=!0222.e3f2.76cb.904a)

Social graphs

1. ()/()/(!1111)
2. ()/()/=abc
3. ()/()/=!1111
4. ()/()/=xyz
5. ()/()/=!2222
6. ()/()(http://facebook.com)
7. ()/()+seattle
8. ()/\$is\$is/(=!1111)
9. =abc/\$is/=!1111
10. =xyz/\$is/=!2222
11. (http://facebook.com)/()/=xyz
12. (http://facebook.com)/()/=!2222
13. (http://facebook.com)=xyz/\$is/(http://facebook.com)=!2222
14. +seattle/()/+soccer
15. +seattle+soccer/()/=xyz
16. +seattle+soccer/()/=!2222
17. +seattle+soccer=xyz/\$is/+seattle+soccer=!2222
18. =!1111/+best+friend/=!2222

19. =!1111/+friend/(http://facebook.com)=!2222

20. =!1111/+teammate/+seattle+soccer=!2222

Literal contexts and versioning

1. ()/=abc
2. ()/=!1111
3. =abc/\$is/=!1111
4. =!1111/()+age
5. =!1111+age/()/\$d
6. =!1111+age/()/\$v
7. =!1111+age/!(data:,33)
8. =!1111+age\$d/!(data:,2010-10-10T11:12:13Z)
9. =!1111+age\$v/()/!1
10. =!1111+age\$v/()/!2
11. =!1111+age\$v/\$v/!2
12. =!1111+age\$v!1/()/\$d
13. =!1111+age\$v!1/!(data:,32)
14. =!1111+age\$v!1\$d/!(data:,2010-09-09T10:11:12Z)
15. =abc+age\$v!2/\$is/=abc+age

Simple contexts and ordering

1. ()/=abc
2. ()/=!1111
3. =abc/\$is/=!1111
4. =!1111/()+tel
5. =!1111+tel/()/!1
6. =!1111+tel/()/!2
7. =!1111+tel/()*1
8. =!1111+tel/()*2
9. =!1111+tel/()/\$d
10. =!1111+tel/()/\$v
11. =!1111+tel*1/\$is/!2

12. =!1111+tel*2/\$is/!1
13. =!1111+tel/+home/!1
14. =!1111+tel/+home+fax/!1
15. =!1111+tel/+work/!2
16. =!1111+tel!1/!(data:+1.206.555.1111)
17. =!1111+tel!2/!(data:+1.206.555.2222)
18. =!1111+tel!2()/ \$d
19. =!1111+tel!2()/ \$v

Complex contexts

1. ()/=abc
2. ()/=!1111
3. =abc/\$is/=!1111
4. =!1111/()+passport
5. =!1111+passport/()/!1
6. =!1111+passport/()/!2
7. =!1111+passport/()+ca
8. =!1111+passport/()+nz
9. =!1111+passport/() \$d
10. =!1111+passport/() \$v
11. =!1111+passport+ca/\$is/!1
12. =!1111+passpor+nz/\$is/!2
13. =!1111+passport!1/()+country
14. =!1111+passport!1/()+num
15. =!1111+passport!1/()+expires
16. =!1111+passport!2/()+country
17. =!1111+passport!2/()+num
18. =!1111+passport!2/()+expires
19. =!1111+passport!2/() \$d
20. =!1111+passport!2/() \$v
21. =!1111+passport!1+country/!(data:Canada)
22. =!1111+passport!1+num/!(data:987654321)

23. =!1111+passport!1+expires!/!(data:,2005-01-01T00:00:00Z)
24. =!1111+passport!2+country!/!(data:,New%20Zealand)
25. =!1111+passport!2+num!/!(data:,123456789)
26. =!1111+passport!2+expires!/!(data:,2010-10-01T00:00:00Z)
27. =!1111+passport!2+expires/()/ \$d
28. =!1111+passport!2+expires/()/ \$v

Personas and roles

1. ()/()/=abc
2. ()/()/=!1111
3. ()/()/@example.co
4. ()/()/@!4444
5. =abc/\$is/=!1111
6. @example.co/\$is/@!4444
7. =!1111/()/!1
8. =!1111/()/!2
9. =!1111/()/+home
10. =!1111/()/+work
11. =!1111/()/+age
12. =!1111+home/\$is/!1
13. =!1111+work/\$is/!2
14. =!1111+age!/!(data:,33)
15. =!1111!2/(\$)/=!1111+age
16. @!4444/+president/=!1111!2

Link contracts (1)

1. ()/()/(!0999.a7b2.25fd.c609)
2. ()/()/=abc
3. ()/()/!0999.a7b2.25fd.c609
4. ()/()/ \$do
5. ()/\$is\$is/(!0999.a7b2.25fd.c609)
6. =abc/\$is/!0999.a7b2.25fd.c609

7. \$do/\$all/()
8. \$do/\$is\$do/!=!0999.a7b2.25fd.c609

Link contracts (2)

1. ()/()/=abc
2. ()/()/!=!1111
3. ()/()/@example.co
4. ()/()/@!4444
5. =abc/\$is/!=!1111
6. @example.co/\$is/@!4444
7. !=!1111/()/!1
8. !=!1111/()/!2
9. !=!1111/()/+home
10. !=!1111/()/+work
11. !=!1111/()/+age
12. !=!1111+home/\$is/!1
13. !=!1111+work/\$is/!2
14. !=!1111+age/!/(data:,33)
15. !=!1111!2/(\$)/!=!1111+age
16. @!4444/+president/!=!1111!2
17. !=!1111!2/()/ \$do
18. !=!1111!2\$do/\$get/!=!1111!2
19. !=!1111!2\$do/\$is\$do/@!4444

Policy expression

1. ()/()/(!1111)
2. ()/()/!=!1111
3. () /\$is\$is/!=!1111
4. !=!1111/()/!2
5. !=!1111!2/()/ \$do
6. !=!1111!2\$do/()/ \$if
7. !=!1111!2\$do \$if/()/ \$and

8. =!1111!2\$do\$if\$and/()/!1
9. =!1111!2\$do\$if\$and/()/ \$or
10. =!1111!2\$do\$if\$and/()/ \$not
11. =!1111!2\$do\$if\$and!1!/!(data:,{policy})
12. =!1111!2\$do\$if\$and\$or/()/!1
13. =!1111!2\$do\$if\$and\$or/()/!2
14. =!1111!2\$do\$if\$and\$or!1!/!(data:,{policy})
15. =!1111!2\$do\$if\$and\$or!2!/!(data:,{policy})
16. =!1111!2\$do\$if\$and\$not/()/!1
17. =!1111!2\$do\$if\$and\$not!1!/!(data:,{policy})

Messages

1. ()/()/(!1111)
2. ()/()/!1111
3. ()/()/(!2222)
4. ()/()/!2222
5. (!1111)/()/(!3)
6. ()/\$is\$is/(!1111)(!3)
7. !=2222/()/!1
8. !=2222!1/()/ \$do
9. !=2222!1\$do/\$get/!=2222!1
10. !=2222!1\$do/\$is\$do/!=1111
11. !=1111/()/ \$msg
12. !=1111\$msg/()/!1234
13. !=1111\$msg!1234/()/ \$d
14. !=1111\$msg!1234/()/ \$do
15. (!1111)(!3)/ \$add/!=1111\$msg!1234
16. !=1111\$msg!1234/\$is()/(!2222)
17. !=1111\$msg!1234\$d/!(data:,2010-12-22T22:22:22Z)
18. !=1111\$msg!1234\$do/\$do/!=2222!1\$do
19. !=1111\$msg!1234\$do/\$get/!=2222!1