

# XDI Statements for XDI Graph Patterns

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This document contains the XDI statements (and, in two cases, the corresponding JSON serialization) corresponding to each of the example graphs in the XDI Graph Patterns document of the same date. See [http://www.oasis-open.org/committees/documents.php?wg\\_abbrev=xdi](http://www.oasis-open.org/committees/documents.php?wg_abbrev=xdi) for the latest version of both documents.

Although the statements in an XDI graph are not ordered, this document uses the following ordering convention for readability:

1. For each context starting with the root context, the subcontext statements (where the predicate is “()”) appear first.
2. Relational statements (where the predicate does not end in “!”) appear second.
3. Literal statements (where the predicate ends in “!”) appear third.

## Root contexts and synonyms

### XDI Statements

()/()/(<http://example.com/ox/>!=!0999.a7b2.25fd.c609)

()/()/(!0999.a7b2.25fd.c609)

()/()/!0999.a7b2.25fd.c609

()/()/=abc

()/\$()/(<http://example.com/ox/>!=!0999.a7b2.25fd.c609)

()/\$()/(!0999.a7b2.25fd.c609)

=abc/\$/!=!0999.a7b2.25fd.c609

=!0999.a7b2.25fd.c609/()/+pea-patch

=!0999.a7b2.25fd.c609/()/+garden

=!0999.a7b2.25fd.c609/()/!1

=!0999.a7b2.25fd.c609+pea-patch/\$/!=!0999.a7b2.25fd.c609!1

=!0999.a7b2.25fd.c609+garden/\$/!=!0999.a7b2.25fd.c609!1

### JSON Serialization

```
{  
  "()/()": [
```

```

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

```

## Simple properties

### XDI Statements

O/O/=abc

=abc/O/+age

=abc/+age!/(data:,33)

=abc+age/O/\$v

=abc+age/\$v/=abc+age\$v!2

=abc+age/\$d!/(data:,2010-10-10T11:12:13Z)  
=abc+age\$v/()/!1  
=abc+age\$v/()/!2  
=abc+age\$v!/2/(=abc/+age!)  
=abc+age\$v!/1!/(data:,32)  
=abc+age\$v!1/\$d!/(data:,2010-09-09T10:11:12Z)  
=abc+age\$v!2/\$d!/(data:,2010-10-10T11:12:13Z)

### JSON Serialization (Proposed New Flat Format)

```
{  
  "O/O": [  
    "=abc"  
  ],  
  "=abc/O": [  
    "+age"  
  ],  
  "=abc/+age!": [  
    33  
  ],  
  "=abc+age/$v": [  
    "=abc+age$v!2"  
  ],  
  "=abc+age/()": [  
    "$v"  
  ],  
  "=abc+age/$d!": [  
    "2010-10-10T11:12:13Z"  
  ],  
  "=abc+age$v/()": [  
    "!1",  
    "!2"  
  ],  
  "=abc+age$v!/2": [  
    "2010-09-09T10:11:12Z",  
    "2010-10-10T11:12:13Z"  
  ]  
}
```

```

    "(=abc/+age!)"
  ],
  "=abc+age$v/!1!": [
    32
  ],
  "=abc+age$v!1/$d!": [
    "2010-09-09T10:11:12Z"
  ],
  "=abc+age$v!2/$d!": [
    "2010-10-10T11:12:13Z"
  ]
}

```

## Complex properties

### XDI Statements

```

()/(=abc
=abc/()/+tel
=abc+tel/()/!1
=abc+tel/()/!2
=abc+tel/()/v
=abc+tel/*1/!2!
=abc+tel/*2/!1!
=abc+tel/+home/!1!
=abc+tel/+home+fax/!1!
=abc+tel/+work/!2!
=abc+tel/$v/=abc+tel$v!2
=abc+tel/!1/(data:,+1.206.555.1111)
=abc+tel/!2/(data:,+1.206.555.2222)
=abc+tel!1/$d!/(data:,2010-11-11T11:11:11Z)
=abc+tel!2/$d!/(data:,2010-12-22T22:22:22Z)
=abc+tel$v/()/!1

```

=abc+tel\$v/()/!2  
=abc+tel\$v!2/\$/+abc+tel

## Simple subjects

### XDI Statements

()/()/=abc  
=abc/()/+passport  
=abc+passport/()/!1  
=abc+passport/()/!2  
=abc+passport/()/()   
=abc+passport/()/ \$v  
=abc+passport/\*1/=abc+passport!1  
=abc+passport/\*2/=abc+passport!2  
=abc+passport/\$v/=abc+passport\$v!2  
=abc+passport!1/+country!/(data:,Canada)  
=abc+passport!1/+number!/(data:,987654321)  
=abc+passport!1/\$d!/(data:,2005-01-01T00:00:00Z)  
=abc+passport!2/+country!/(data:,New%20Zealand)  
=abc+passport!2/+number!/(data:,123456789)  
=abc+passport!2/\$d!/(data:,2010-10-01T00:00:00Z)  
=abc+passport()/()/!1  
=abc+passport()/()/!2  
=abc+passport()/!1/\$d!/(data:,2010-11-11T11:11:11Z)  
=abc+passport()/!2/\$d!/(data:,2010-12-22T22:22:22Z)  
=abc+passport\$v/()/!1  
=abc+passport\$v/()/!2  
=abc+passport\$v!2/\$/=abc+passport

## Complex subjects

### XDI Statements

()/()/=abc  
=abc/()/+tel

=abc()/+passport  
=abc()/!1  
=abc()/!2  
=abc()/0  
=abc()/v  
=abc/v/=abcv!2  
=abc/+age!/(data:,33)  
=abc()/!1  
=abc()/!2  
=abc()!1/\$d!/(data:,2010-11-11T11:11:11Z)  
=abc()!2/\$d!/(data:,2010-12-22T22:22:22Z)  
=abcv()/!1  
=abcv()/!2  
=abcv!2/\$/=abc

## Social graphs

### XDI Statements

()/()(=abc)  
()/()/=abc  
()/()/=xyz  
()/()(http://facebook.com)  
()/()/+seattle  
()/\$(=abc)  
=abc/+best+friend/=xyz  
=abc/+friend/(http://facebook.com)=xyz  
=abc/+teammate/+seattle+soccer=xyz  
(http://facebook.com)/()/=xyz  
+seattle/()/+soccer  
+seattle+soccer/()/+xyz

## Link contracts

### XDI Statements

()/()/ (=xyz)  
()/()/ =xyz  
()/()/ =abc  
=xyz/()/ \$msg  
=abc/()/ +tel  
=abc/()/ +passport  
=abc/()/ !1  
=abc/+age!/(data:,33)  
=abc!1/()/ \$do  
=abc!1/(\$)/(=abc/+age!)  
=abc!1/(\$)/=abc+tel  
=abc!1\$do/()/ (=xyz)  
=abc!1\$do/\$get/=abc!1  
=abc!1\$do/\$add/=xyz\$msg

## Messages

### XDI Statements

()/()/ (=!0111.2222.3333.4444)  
()/()/ =!0111.2222.3333.4444  
()/()/ (=!0999.a7b2.25fd.c609)  
()/()/ =!0999.a7b2.25fd.c609  
()/\$/()/ (=!0999.a7b2.25fd.c609)  
=!0111.2222.3333.4444/()/ !1  
=!0999.a7b2.25fd.c609/()/ \$msg  
=!0999.a7b2.25fd.c609\$msg/()/ !1234  
=!0999.a7b2.25fd.c609\$msg!1234/()/ \$do  
=!0999.a7b2.25fd.c609\$msg!1234/\$/()/ (=!0111.2222.3333.4444)  
=!0999.a7b2.25fd.c609\$msg!1234/\$d!/(data:,2010-12-22T22:22:22Z)  
=!0999.a7b2.25fd.c609\$msg!1234\$do/\$get/=!0111.2222.3333.4444!1

