# XRI Data Interchange Specification, v1.0
# The XDI Graph Model

# Contents

# Chapter

# 1

# XDI Graph Pattern Examples

This section contains the XDI statements (and, in some cases, the corresponding 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*

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, with their JSON serialization, that demonstrate the root contexts and synonyms XDI graph patterns

**XDI Statements**

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

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

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

()/()/=abc

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

()/$is/(=!0999.a7b2.25fd.c609)

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

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

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

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

=!0999.a7b2.25fd.c609+peaJpatch/$is/=!0999.a7b2.25fd.c609!1

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

**JSON Serialization**

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

## Simple Subjects

XDI statements, and their JSON serialization, that demonstrate the simple properties XDI graph pattern.

### XDI Statements

()/()/=abc

=abc/()/+age

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

=abc+age/()/$v

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

=abc+age/$d!/(data:,2010J10J10T11:12:13Z)

=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:,2010J09J09T10:11:12Z)

=abc+age$v!2/$d!/(data:,2010J10J10T11:12:13Z)

### JSON Serialization

```
{
    "()/()":[
        "=abc"
    ],
    "=abc/()":[
        "+age"
    ],
    "=abc/+age!":[
        33
    ],
    "=abc+age/$v":[
        "=abc+age$v!2"
    ],
    "=abc+age/()":[
        "$v"
    ],
    "=abc+age/$d!":[
        "2010J10J10T11:12:13Z"
    ],
    "=abc+age$v/()":[
        "!1",
        "!2"
    ],
    "=abc+age$v/!2":[
        "(=abc/+age!)"
    ],
    "=abc+age$v/!1!":[
        32
    ],
```

```
    "=abc+age$v!1/$d!":[
        "2010J09J09T10:11:12Z"
    ],
    "=abc+age$v!2/$d!":[
        "2010J10J10T11:12:13Z"
    ]
}
```

## Complex Properties

XDI statements demonstrating the complex properties XDI graph pattern.

### 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:,2010J11J11T11:11:11Z)

=abc+tel!2/$d!/(data:,2010J12J22T22:22:22Z)

=abc+tel$v/()/!1

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

=abc+tel$v!2/$is/=abc+tel

### JSON Serialization

**Note:** This section has not been written

## Simple Subjects

XDI statements demonstrating the simple subjects XDI graph pattern.

**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:,2005J01J01T00:00:00Z)

=abc+passport!2/+country!/(data:,New%20Zealand)

=abc+passport!2/+number!/(data:,123456789)

=abc+passport!2/$d!/(data:,2010J10J01T00:00:00Z)

=abc+passport()/()/!1

=abc+passport()/()/!2

=abc+passport()!1/$d!/(data:,2010J11J11T11:11:11Z)

=abc+passport()!2/$d!/(data:,2010J12J22T22:22:22Z)

=abc+passport$v/()/!1

=abc+passport$v/()/!2

=abc+passport$v!2/$is/=abc+passport

**JSON Serialization**

**Note:** This section has not been written

# Complex Subjects

XDI statements demonstrating the complex subjects XDI graph pattern.

**XDI Statements**

()/()/=abc

=abc/()/+tel

=abc/()/+passport

=abc/()/!1

=abc/()/!2

=abc/()/()

=abc/()/$v

=abc/$v/=abc$v!2

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

=abc()/()/!1

=abc()/()/!2

=abc()!1/$d!/(data:,2010J11J11T11:11:11Z)

=abc()!2/$d!/(data:,2010J12J22T22:22:22Z)

=abc$v/()/!1

=abc$v/()/!2

=abc$v!2/$is/=abc

### JSON Serialization

**Note:** This section has not been written

# Social Graphs

Examples for social graphs

### XDI Statements

()/()/(=abc)

()/()/=abc

()/()/=xyz

()/()/(http://facebook.com)

()/()/+seattle

()/$is/(=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

### JSON Serialization

**Note:** This section has not been written

# Link Contracts

XDI statements demonstrating the link contracts XDI graph pattern.

### XDI Statements

()/()/(=!1111)

()/()/=!1111

()/()/=!2222

()/()/=!3333

()/()/@!4444

()/()/=abc

()/$is/(=!1111)

=abc/$is/=!1111

=!1111/()/+tel

=!1111/()/+passport

=!1111/()/!1

=!1111/()/=!2222

=!1111/+age!/(data:,33)

=!1111!1/()/$do

=!1111!1/($)/(=!1111/+age!)

=!1111!1/($)/=!1111+tel

=!1111!1$do/$get/=!1111!1

=!1111!1$do/$for/@!4444$policy!1

=!1111!1$do/$is$do/=!2222

=!1111!1$do/$is$do/=!3333

=!1111=!2222/()/$do

=!1111=!2222$do/$add/=!2222$msg

=!1111=!2222$do/$is$do/=!2222

=!2222/()/$msg

@!4444/()/$policy

@!4444$policy/()/!1

@!4444$policy!1/()/$uri

### JSON Serialization

**Note:** This section has not been written

## Messages

XDI statements demonstrating the messages XDI graph pattern.

### XDI Statements

()/()/(=!1111)

()/()/=!1111

()/()/(=!2222)

()/()/=!2222

()/$is/(=!1111)

=!1111/()/$msg

=!1111$msg/()/!1234

=!1111$msg!1234/()/$do

=!1111!1234/$is()/(=!2222)

=!1111$msg!1234/$d!/(data:,2010J12J22T22:22:22Z)

=!1111$msg!1234$do/$get/=!2222!1

=!2222/()/!1

### JSON Serialization

**Note:** This section has not been written