

This diagram is an attempt to map the semantics of the "Contract Proposal" on [http://wiki.openid.net/Trusted\\_Data\\_Exchange](http://wiki.openid.net/Trusted_Data_Exchange) to an XDI link contract template. Equivalent sections of the two documents are marked with colors.

### Trusted Data Exchange Contract Proposal

```
<xml xmlns="xri://$xrcp*($v*1.0)">
  <ContractProposals issuer="@RP">
    <ContractProposal type="@RP/EnduserInformationDiscrodure">
      <IssuedDate>
        2007-12-25T12:34:56+09:00
      </IssuedDate>
      <PolicyDescription>
        Human readable policy statement is here.
      </PolicyDescription>
      <CompactPolicy>
        MACHINE_READABLE_POLICY
      </CompactPolicy>
      <RequerstingAttributes>
        <Attribute type="@RP/(+firstname)($v*1.0)" required="true">
          <DisplayName lang="ja_JP">
            First Name
          </DisplayName>
        </Attribute>
        <Attribute type="@RP/(+email)($v*1.0)" required="true">
          <DisplayName lang="ja_JP">
            e-mail Address
          </DisplayName>
        </Attribute>
      </RequerstingAttributes>
      <AutoUpdate request="true" />
      <Signature xmlns="http://www.w3.org/2000/09/xmldsig#" >
        [XML Signature for ContractProposal]
      </Signature>
    </ContractProposal>
  </ContractProposals>
</xml>
```

### XDI Link Contract Template

```
@RP
  $has
    $contract
  @RP$contract
    $is$a
      $contract
      $contract*trusted.data.exchange
      $contract@RP*enduser.information.disclosure
    $d
      "2007-12-25T12:34:56+09:00"
    $a$xsd$string
      "Human readable policy statement is here."
    $contract
      /
        @RP
          $get$req
            /
              $$
                @RP+firstname$v!1
                @RP+email$v!1
          $get$opt
            /
              $$
                [optional attributes here]
    $autoupdate
      "1"
    $sig
      "[XDI Signature for XDI Link Contract Template]"
  @RP+firstname$v!1
    $a$xsd$string$1*ja_JP
      "名前"
  @RP+email$v!1
    $a$xsd$string$1*ja_JP
      "メルアド"
```

This diagram is an attempt to map the semantics of the "Contract" on [http://wiki.openid.net/Trusted\\_Data\\_Exchange](http://wiki.openid.net/Trusted_Data_Exchange) to an instantiated XDI link contract. Equivalent sections of the two documents are marked with colors.

#### Trusted Data Exchange Contract

```
<xml xmlns="xri://$xrcp*($v*1.0)">
<Contract Id="@OP/(+contract)*($v*1.0)/0123456789">
  <ContractProposal type="@RP/EnduserInformationDiscrodure">
    [Here goes a copy of the accepted contract proposal from
    page 1. It is omitted here for compactness.]
  </ContractProposal>
  <TimeStamp>
    2007-12-25T12:34:56+09:00
  </TimeStamp>
  <ContractConclusion type="@RP/EnduserInformationDiscrodure">
    <Attributes>
      <Attribute type="@RP/(+firstname)($v*1.0)" />
      <Attribute type="@RP/(+email)($v*1.0)" />
    </Attributes>
    <AutoUpdate Permit="true" />
    <ExpireDay>
      2007-12-25T12:34:56+09:00
    </ExpireDay>
  </ContractConclusion>
  <Signature xmlns="http://www.w3.org/2000/09/xmlsig#" >
    [XML Signature for ContractProposal and ContractConclusion]
  </Signature>
</Contract>
</xml>
```

#### Instantiated XDI Link Contract

```
@OP
  $has$a
    @RP$contract
  @RP$contract
    /
      $
        $d
          "2007-12-25T12:34:56+09:00"
        $d$expires
          "2007-12-25T12:34:56+09:00"
        $autoupdate
          "1"
        $sig
          "[XDI Signature for XDI Link Contract]"
      @RP
        $get
          /
            {user-identifier}
              @RP+firstname$v!1
              @RP+email$v!1
    [Here goes a copy of the accepted link contract template from
    page 1. It is omitted here for compactness.]
```

#### Notes:

- {user-identifier} is the OpenID of the user that was authenticated by the OP.
- The XDI link contract itself does not have a handle or id. The OP should just keep a list or database of the link contracts granted to RPs.

# Changelog

**Version 1: Initial Version**

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