

```

:-include(appendixB).

/*D. Testing Inference of Opposing Dependent Views*/
test(all):-
    test(104,106),
    test(104,107),
    test(104,000),
    test(104).
/*D.1. Fig. 4: The vendor view (106) derived from the evaluation
scenario (104)*/
test(104,106):-
    test('106::101'),
    test('106::102'),
    test('104::102'),
    test('106::104'),
    test('104::113'),
    test('106::113'),
    test('106::114'),
    test('106::102,106::104'),
    test('106::113,106::104'),
    test('106::113,106::102'),
    test('106::101,106::102'),
    test('106::114,106::113').
test('106::114'):-oebto_role(114,is_a,cash,to,106).
test('106::101'):-oebto_role(101,is_a,product,to,106).
test('106::102'):-dependent_role_event(102,is_a,sale,to,106).
test('104::102'):-dependent_role_event(102,is_a,purchase,to,104).
test('106::113'):-dependent_role_event(113,is_a,cash-receipt,to,
106).
test('104::113'):-dependent_role_event(113,is_a,cash-
disbursement,to,104).
test('106::104'):-dependent_role_agent(104,is_a,buyer,to,106,in,
[102,104]).
test('106::102,106::104'):-oebto_relator([102,104],is_a,to,to,106).
test('106::113,106::104'):-oebto_relator([113,104],is_a,from,to,
106).
test('106::113,106::102'):-oebto_relator([102,113],is_a,transfer-
duality,to,106).
test('106::101,106::102'):-
dependent_relator([101,102],is_a,outflow,to,106).
test('106::114,106::113'):-
dependent_relator([114,113],is_a,inflow,to,106).

/*D.2. Fig. 5: The customer view (107) derived from the evaluation
scenario (104)*/
test(104,107):-
    test('107::104'),
    test('107::115'),
    test('104::115'),
    test('107::112'),
    test('107::117'),
    test('104::117'),
    test('107::114'),
    test('107::117,107::104'),

```

```

        test('107::115,107::104'),
        test('107::115,107::117'),
        test('107::114,107::117'),
        test('107::112,107::115').
test('107::104'):-dependent_role_agent(104,is_a,seller,to,107,in,
[115,104]).
test('107::115'):-dependent_role_event(115,is_a,purchase,to,107).
test('104::115'):-dependent_role_event(115,is_a,sale,to,104).
test('107::112'):-oebto_role(112,is_a,product,to,107).
test('107::117'):-dependent_role_event(117,is_a,cash-
disbursement,to,107).
test('104::117'):-dependent_role_event(117,is_a,cash-receipt,to,
104).
test('107::114'):-oebto_role(114,is_a,cash,to,107).
test('107::117,107::104'):-oebto_relator([117,104],is_a,to,to,107).
test('107::115,107::104'):-oebto_relator([115,104],is_a,from,to,
107).
test('107::115,107::117'):-oebto_relator([117,115],is_a,transfer-
duality,to,107).
test('107::114,107::117'):-
dependent_relator([114,117],is_a,outflow,to,107).
test('107::112,107::115'):-
dependent_relator([112,115],is_a,inflow,to,107).

```

/*D.3. Fig. 6: The independent view (000) derived from the
evaluation scenario (104)*/

```

test(104,000):-
    test('000::101'),
    test('000::112'),
    test('000::114'),
    test('000::102'),
    test('000::115'),
    test('000::113'),
    test('000::117'),
    test('000::104'),
    test('000::106'),
    test('000::107'),
    test('000:101,000:102'),
    test('000:112,000:115'),
    test('000:114,000:113'),
    test('000:114,000:117'),
    test('000:102,000:113'),
    test('000:117,000:115'),
    test('000:102,000:106'),
    test('000:113,000:106'),
    test('000:115,000:107'),
    test('000:117,000:107'),
    test('000:102,000:104'),
    test('000:113,000:104'),
    test('000:115,000:104'),
    test('000:117,000:104').

```

/*D.3.1. Role*/

```

test('000::101'):-oebto_role(101,is_a,product,to,000).
test('000::112'):-oebto_role(112,is_a,product,to,000).

```

```

test('000::114'):-oebto_role(114,is_a,cash,to,000).
test('000::102'):-oebto_role(102,is_a,delivery,to,000).
test('000::115'):-oebto_role(115,is_a,delivery,to,000).
test('000::113'):-oebto_role(113,is_a,payment,to,000).
test('000::117'):-oebto_role(117,is_a,payment,to,000).
test('000::104'):-oebto_role(104,is_a,trading-partner,to,000).
test('000::106'):-oebto_role(106,is_a,trading-partner,to,000).
test('000::107'):-oebto_role(107,is_a,trading-partner,to,000).

```

/*D.3.2. Relators*/

```

test('000:101,000:102'):-oebto_relator([101,102],is_a,stock-flow,to,000).
test('000:112,000:115'):-oebto_relator([112,115],is_a,stock-flow,to,000).
test('000:114,000:113'):-oebto_relator([114,113],is_a,stock-flow,to,000).
test('000:114,000:117'):-oebto_relator([114,117],is_a,stock-flow,to,000).
test('000:102,000:113'):-oebto_relator([102,113],is_a,transfer-duality,to,000).
test('000:117,000:115'):-oebto_relator([117,115],is_a,transfer-duality,to,000).
test('000:102,000:106'):-oebto_relator([102,106],is_a,from,to,000).
test('000:113,000:106'):-oebto_relator([113,106],is_a,to,to,000).
test('000:115,000:107'):-oebto_relator([115,107],is_a,to,to,000).
test('000:117,000:107'):-oebto_relator([117,107],is_a,from,to,000).
test('000:102,000:104'):-oebto_relator([102,104],is_a,to,to,000).
test('000:113,000:104'):-oebto_relator([113,104],is_a,from,to,000).
test('000:115,000:104'):-oebto_relator([115,104],is_a,from,to,000).
test('000:117,000:104'):-oebto_relator([117,104],is_a,to,to,000).

```

/*D.4. Fig. X: The independent view derived from the evaluation scenario (104)*/

```

test(104):-
    test('101'),
    test('112'),
    test('114'),
    test('114'),
    test('102'),
    test('115'),
    test('113'),
    test('117'),
    test('105'),
    test('110'),
    test('104'),
    test('106'),
    test('107'),
    test('101,102'),
    test('112,115'),
    test('114,113'),
    test('114,117'),
    test('102,113'),
    test('117,115'),
    test('102,106'),

```

```

        test('113,106'),
        test('115,107'),
        test('117,107'),
        test('102,104'),
        test('113,104'),
        test('115,104'),
        test('117,104'),
        test('105,104'),
        test('110,104'),
        test('101,105'),
        test('112,110').
/*D.4.1. RoleMixins*/
test('101'):-blockchain_role(101,is_a,product).
test('112'):-blockchain_role(112,is_a,product).
test('114'):-blockchain_role(114,is_a,cash).
test('102'):-blockchain_role(102,is_a,delivery).
test('115'):-blockchain_role(115,is_a,delivery).
test('113'):-blockchain_role(113,is_a,payment).
test('117'):-blockchain_role(117,is_a,payment).
test('105'):-blockchain_role(105,is_a,consume).
test('110'):-blockchain_role(110,is_a,produce).
test('104'):-blockchain_role(104,is_a,trading-partner).
test('106'):-blockchain_role(106,is_a,trading-partner).
test('107'):-blockchain_role(107,is_a,trading-partner).

/*D.4.2. Relators*/
test('101,102'):-blockchain_relator([101,102],is_a,stock-flow).
test('112,115'):-blockchain_relator([112,115],is_a,stock-flow).
test('114,113'):-blockchain_relator([114,113],is_a,stock-flow).
test('114,117'):-blockchain_relator([114,117],is_a,stock-flow).
test('101,105'):-blockchain_relator([101,105],is_a,stock-flow).
test('112,110'):-blockchain_relator([112,110],is_a,stock-flow).
test('102,113'):-blockchain_relator([102,113],is_a,transfer-
duality).
test('117,115'):-blockchain_relator([117,115],is_a,transfer-
duality).
test('105,110'):-blockchain_relator([105,110],is_a,transer-duality).
test('102,106'):-blockchain_relator([102,106],is_a,from).
test('113,106'):-blockchain_relator([113,106],is_a,to).
test('115,107'):-blockchain_relator([115,107],is_a,to).
test('117,107'):-blockchain_relator([117,107],is_a,from).
test('102,104'):-blockchain_relator([102,104],is_a,to).
test('113,104'):-blockchain_relator([113,104],is_a,from).
test('115,104'):-blockchain_relator([115,104],is_a,from).
test('117,104'):-blockchain_relator([117,104],is_a,to).
test('105,104'):-blockchain_relator([105,104],is_a,inside-party).
test('110,104'):-blockchain_relator([110,104],is_a,inside-party).

```

