

Property Registration Network

This defines a business network where seller can sell property to buyer and get sales agreement registered with network using authorized Registrar.

Business network :

Participant : Seller , Buyer , Registrar .

Asset : Property , PropertyListing

Transaction : Created , Intent of Sale , Registered

Important Note & Assumptions:

Seller and Buyer can only **View the property if they own it**. Only Registrar is authorized to perform **Transaction** in network. Admin create basic assets and participants because if property owner has access then he may create corrupt data. hence except Registrar all other participants have READ access only. For any transaction of assets the other participants will request registrar to submit transaction as he is authorized participant with all access.

Prerequisite:

Admin is responsible to creation of Assets and Participant as a prerequisite for network.

Participants Role:

- Seller can see only his details and **property owned by him only** on the network.
- Seller can get property Created on network by Registrar .
- Seller can get property listed by asking Registrar to submit Intent of Sale transaction for Property .
- Seller and Buyer can get there sale agreement Registered by getting Property registered by Registrar .
- Buyer can view properties with status of Intent of Sale on PropertyListing
- Buyer can see only his details and **property owned by him only** on the network.

Permissions

Registrar has ALL access for **Property & PropertyListing** .

Seller has READ access for **Property Owned by him** .

Buyer has READ access for **Property with status 'Intent of Sale' on propertyListing**.

Admin has ALL access of all resources in the network.

To test this Business Network Definition in the Test tab:

Create Buyer .

```
{ "$class": "org.propertyregistration.network.Buyer", "name": "buyer1", "email": "buyer1@gmail.com", "id": "buyer1", "bankName": "HDFC", "bank": "HDFC" }
```

Create Seller .

```
{ "$class": "org.propertyregistration.network.Seller", "name": "seller1", "email": "seller1@gmail.com", "id": "seller1", "bankName": "KOTAK", "bank": "KOTAK" }
```

Create Registrar

```
{ "$class": "org.propertyregistration.network.Registrar", "id": "registrar1", "name": "registrar1", "email": "registrar1@gmail.com" }
```

Create Property .

```
{ "$class": "org.propertyregistration.network.Property", "PID": "1", "owner": "seller1", "registrationDate": "15.06.2019", "type": "TWO_BHK", "address": "123 Main St, New York, NY 10001" }
```

Create PropertyListing .

```
{ "$class": "org.propertyregistration.network.PropertyListing", "PLID": "1", "owner": "seller1", "registrationDate": "15.06.2019", "type": "TWO_BHK", "property": "resource:org.propertyregistration.network.Property#1" }
```

Submit Created transaction.

```
{ "$class": "org.propertyregistration.network.Created", "PID": "10", "property": "resource:org.propertyregistration.network.Property#1" }
```

Submit IntentOfSale transaction.

```
{ "$class": "org.propertyregistration.network.IntentOfSale", "seller": "resource:org.propertyregistration.network.Seller#seller1", "propertyListing": "resource:org.propertyregistration.network.PropertyListing#1" }
```

Submit Registered transaction.

```
{ "$class": "org.propertyregistration.network.Registered", "PID": "10", "propertyListing": "resource:org.propertyregistration.network.PropertyListing#1" }
```