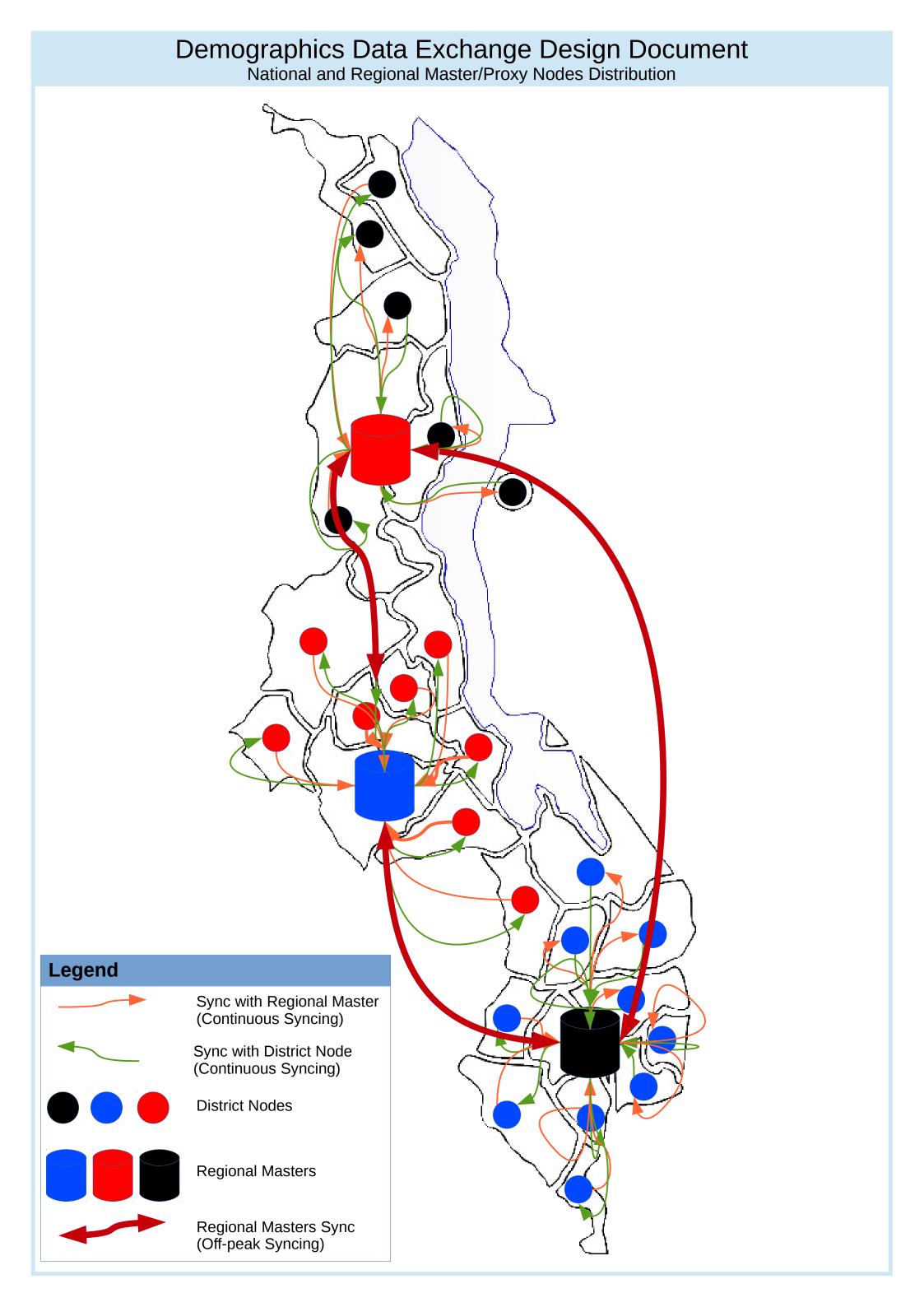
## Demographics Data Exchange Design Document Global Proxy View **ART** ANC Maternity **ADT** DDE Proxy OPD TB CCC Under 5 Legend Feedback Register / Update / Query



#### Demographics Data Exchange Design Document DDE Proxy Server Person Management Flow Diagram **START** Yes Person Data? No Yes No **Record Has** Valid V.4 ID? Find By ID? Yes Search for Record Search for Record Search for Record No Yes No No Match Found? Match Found? Match Found? ¥ Yes Yes Confirm Update Confirm Update of Matched of Matched Yes No Record(s) with Record(s) with National IDs User (HTML View) User (HTML View) Available? Inform User Yes Assign Available National IDs Not Inform User Match Confirmed? National ID To Available. To Assign No Match Found Person Data Temporary ID (HTML View) (HTML View) No **Update Record** Create Person Record **Assign Temporary** Site ID Incrementing By Site Prefixed With Site Code Record Requesting **Application and Site** Code Get Person Record Return Person Record (JSON Object) **FINISH**

#### Demographics Data Exchange Design Document DDE Master Server Identifier Management Flow Diagram **START** Yes Get Unassigned IDs List Free IDs? No Yes Get All Sites List Sites? , No Yes Add Site? Get Site Name Get Site Code Create Site Record No Is there a Sites exists No Queued Site? That Have Reached Thresholds? Yes Yes Is the current No Que Each Found Flag Done Site ID count Display Result Site (HTML View) < Threshold? Yes Get Site Code Get Batch Size Assign IDs To Site Master Background Processes **FINISH**

**DDE Classes** 

#### Person

- names:{
   family\_name:String,
   given\_name:String
  }
  gender:String
  birthdate:String
  birthdate\_estimated:Integer
  attributes:{
   citizenship:String,
   occupation:String,
   cell\_phone\_number:String,
   home\_phone\_number:String,
   race:String
  }
- patient:{
   Identifiers:{}
  }
   addresses:{
   current\_residence:String,
   current\_village:String,
   current\_ta:String,
   current\_district:String,
   home\_village:String,
   home\_ta:String,
   home\_tdistrict:String
  }

- patient assigned:Boolean

assigned\_site:String

#### Utils::Person

- ~ match confirmed:JSON
- ~ matches\_found:Array(JSON)
- + process person data(JSON):JSON
- record\_has\_v4\_id(JSON):BOOLEAN
- search\_for\_record\_by\_params(
   first\_name:String,
   last\_name:String,
   gender:String,
   date\_of\_birth:String(OPTIONAL),
   home\_t\_a:String(OPTIONAL),
   home\_district:String(OPTIONAL)
  ):JSON
- confirm\_record\_to\_update(JSON):Array(JSON)
- create person record(JSON):BOOLEAN
- update\_person\_record(JSON):BOOLEAN
- get\_person\_record(npid:String):JSON
- + search\_by\_npid(npid:String):Array(JSON)

#### **Npid**

- national id:String
- assigned:BOOLEAN
- site code:String

- region:String

#### **JSON Object Definition**

```
"application":"",
"site_code":"",
                               All missing fields
                               Can be left empty
"names":
                               And ignored when
     "family_name":""
"given_name":""
                                Working with the
                                 JSON Objects
                                      Passed.
   'gender":"M",
   "attributes":{
      "occupation":""
     "cell_phone_number":""
   "birthdate":"YYYY-MM-DD",
      "identifiers":{
        "other_identifier":""
   "birthdate_estimated":"0",
   'addresses":{
     "current_residence": null,
     "current_village": null,
"current_ta": null,
     "current_district": null,
"home_village": null,
      "home_ta": null,
```

"home\_district": null

#### **Footprint**

- npid:String
- application:String
- site\_code:String

#### RequestsQue

- site\_code:String
- region:String
- threshold:Integer
- request processed:Boolean

#### **Utils::Proxy**

- + check\_if\_npids\_available():BOOLEAN
- + assign npid to person(JSON):JSON
- + assign\_temporary\_npid(JSON):JSON
- + get\_unassigned\_npids():Array(JSON)

#### **Utils::Master**

- + add\_site(site:String, site\_code:String, region:String, threshold:Integer):BOOLEAN
- + get\_unassigned\_npids():Array(JSON)
- + get all sites():Array(JSON)
- + que\_site(
   site:String, site\_code:String,
   threshold:Integer, region:String
  ):BOOLEAN
- + check\_site\_thresholds():BOOLEAN
- + process queued sites():BOOLEAN
- + assign\_npids\_to\_region(
   region:String, quantity:Integer
  ):BOOLEAN

#### Site

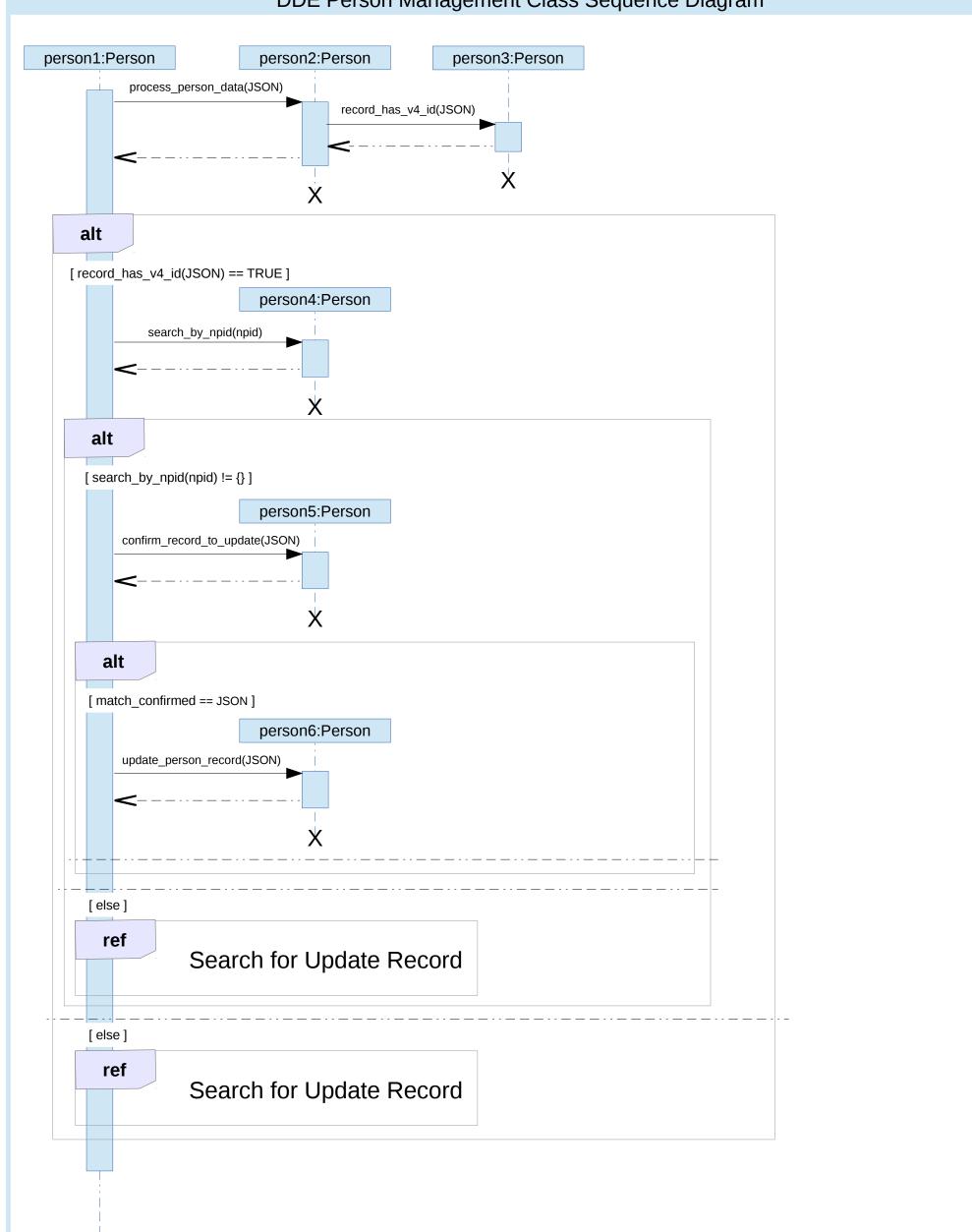
- name:String
  - g threshold:Integer
- description:Stringsite code:String
- region:String

#### **Utils::Footprint**

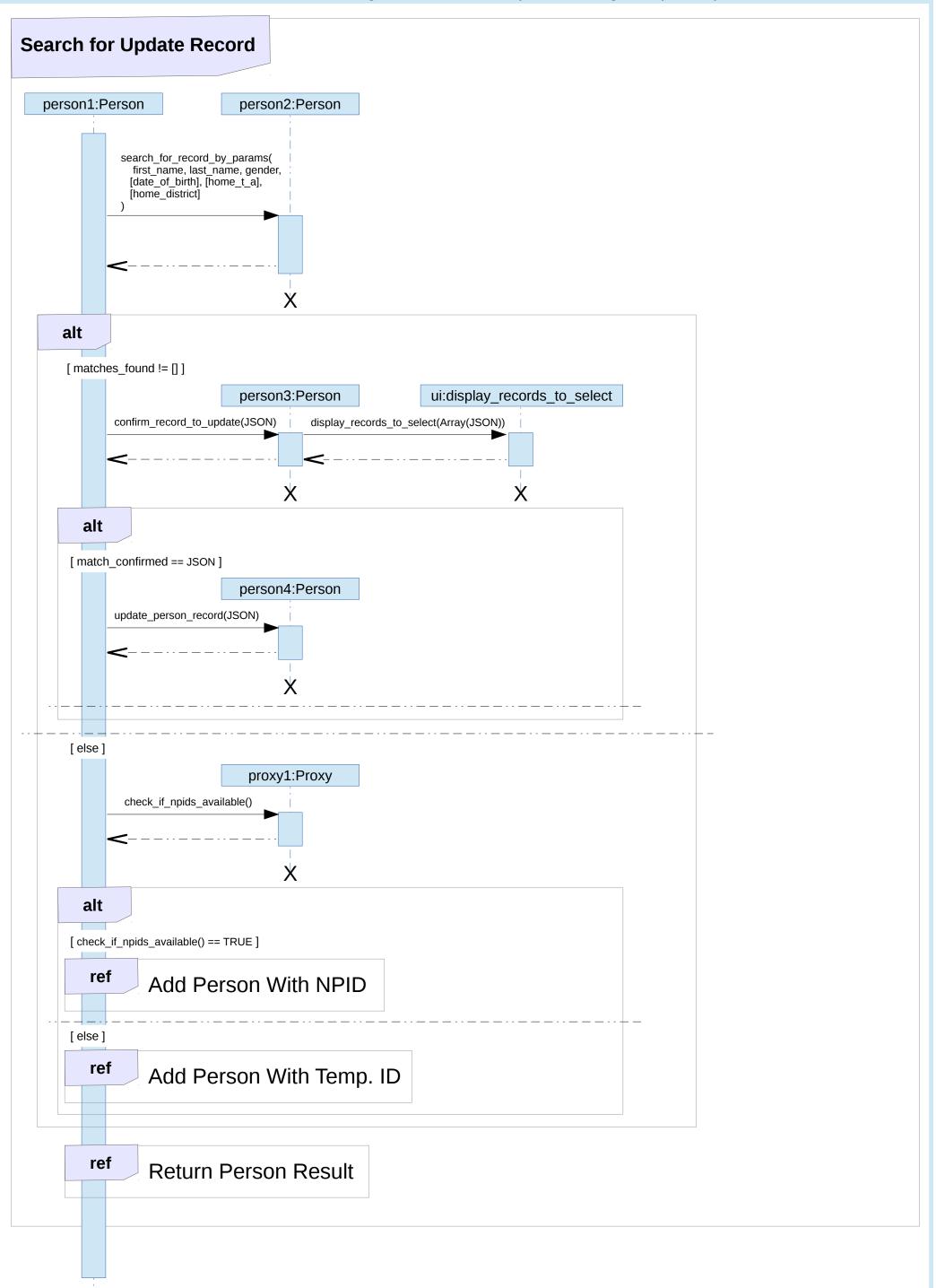
+ log\_application\_and\_site(json:JSON):Array(JSON)

# Class Name Class Name Class Methods OPTIONAL Parameter is optional H Method/Attribute Public Method/Attribute Private JSON JSON Object Type (Associative Array) Array(Type) Array collection of data type 'Type'

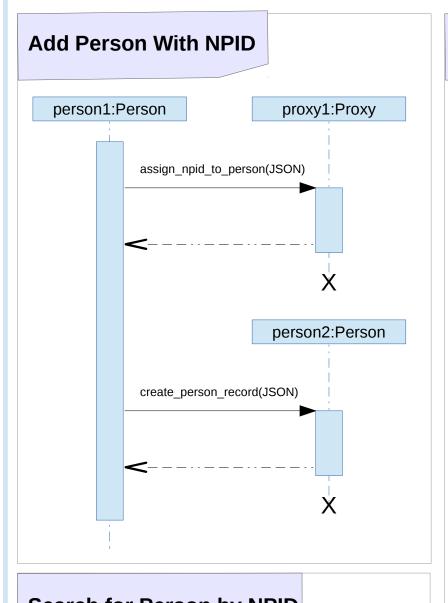
### Demographics Data Exchange Design Document DDE Person Management Class Sequence Diagram

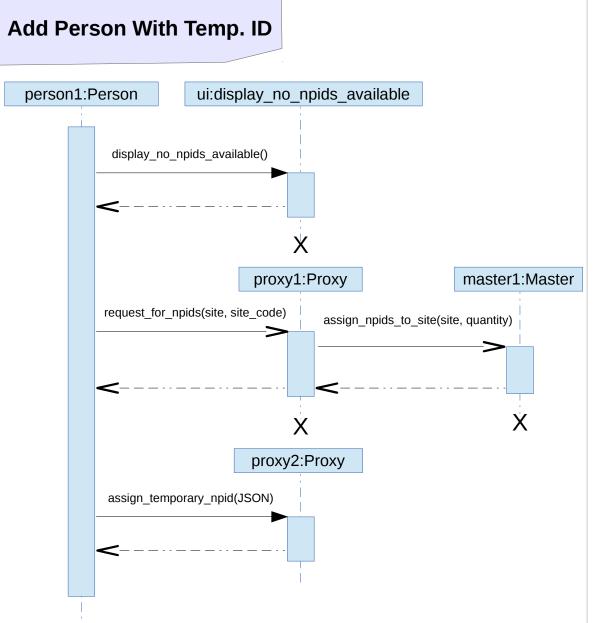


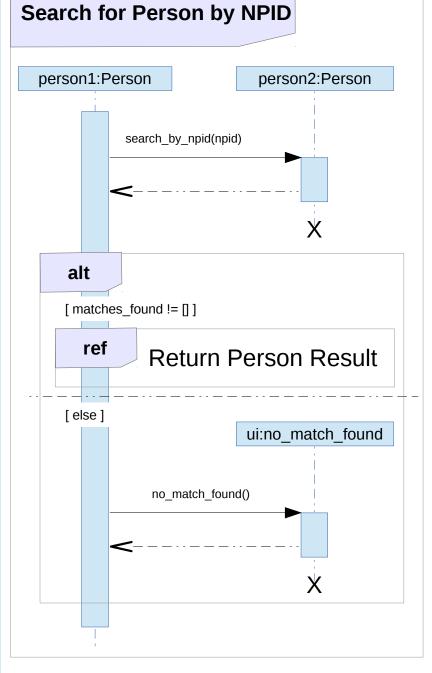
DDE Person Management Class Sequence Diagram (cont'd)

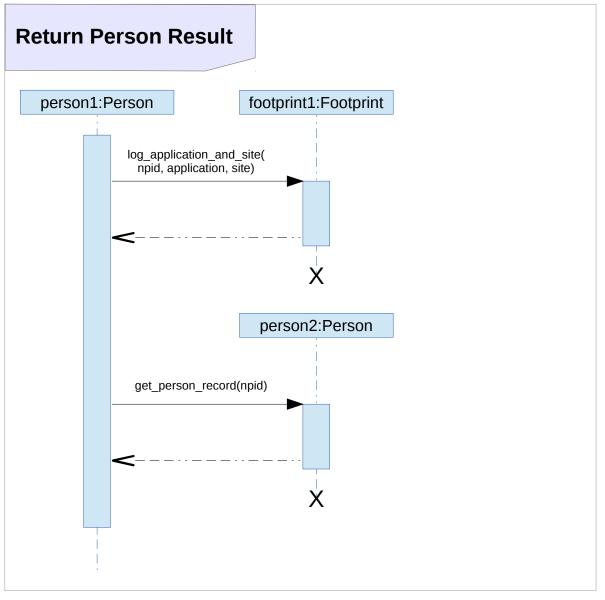


DDE Person Management Class Sequence Diagram (cont'd)









**DDE Person Management Class Views** 

ui:display\_records\_to\_select(Array(JSON))

#### Select Patient From The Following List

First Name: Test

Last Name: Test

Age: Age

National ID: NPID

Home Village: Village

Home T/A: T/A

Home District: District

First Name Last Name, NPID, Gender, Age, Home T/A

First Name Last Name, NPID, Gender, Age, Home T/A

First Name Last Name, NPID, Gender, Age, Home T/A

Test Test, NPID, Gender, Age, Home T/A

First Name Last Name, NPID, Gender, Age, Home T/A

First Name Last Name, NPID, Gender, Age, Home T/A

Cancel Select Patient

#### ui:no\_match\_found()

Sorry! No Match Found!

ui:display\_no\_ids\_available()

No National IDs Are Available Now.

Patient Will Be given A Temporary ID For Replacement Later.