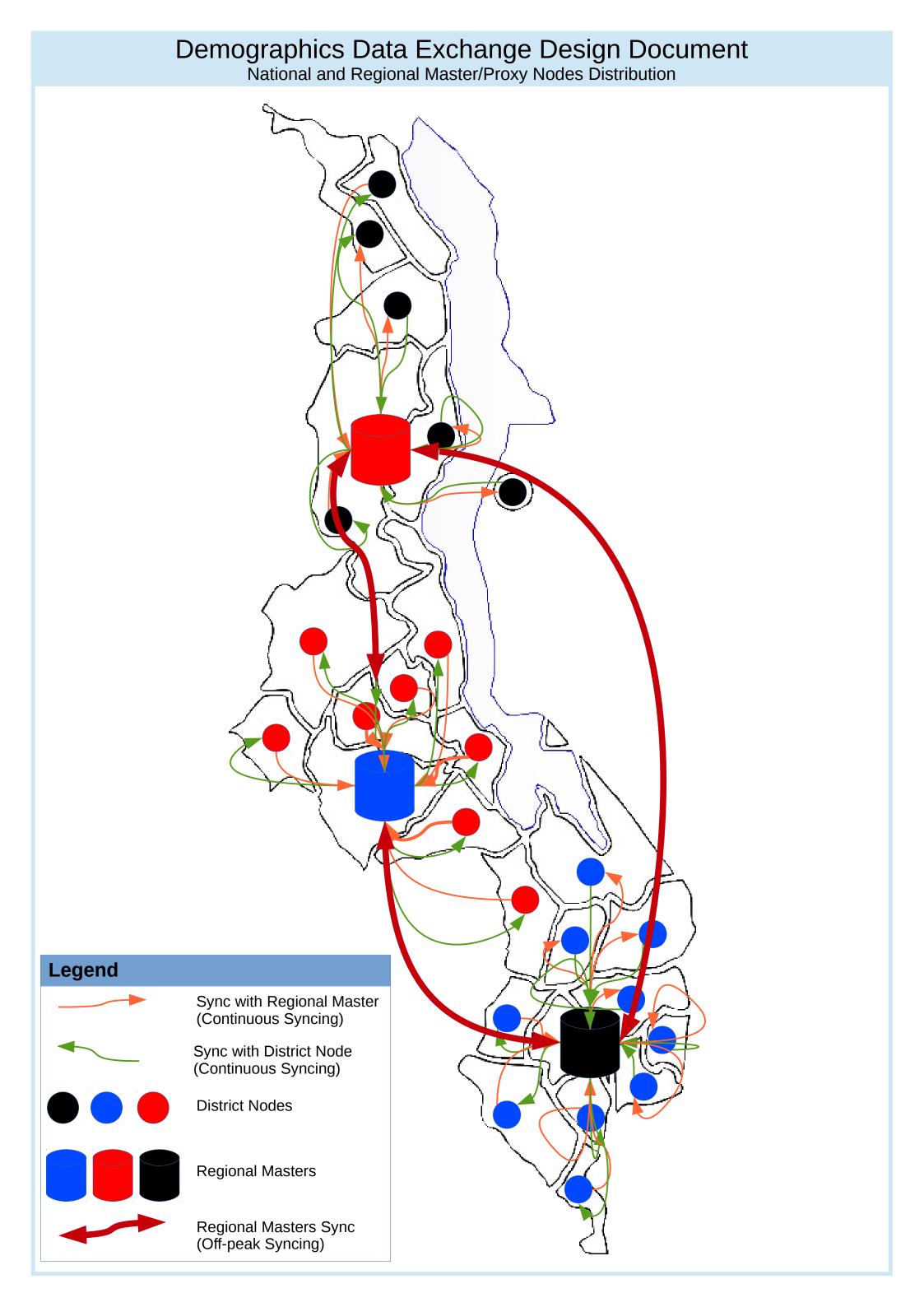
Demographics Data Exchange Design Document Global Proxy View **ART** ANC Maternity **ADT** DDE Proxy OPD TB CCC Under 5 Legend Feedback Register / Update / Query



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** Request For Create Person New National IDs Record Batch **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 Assign IDs? No Get Site Code Yes List Sites? Get All Sites Get Batch Size **₩** No Yes Add Site? Assign IDs To Site Get Site Name Display Result (HTML View) Get Site Code Create Site Record Display Result (HTML View) **FINISH**

Demographics Data Exchange Design Document DDE Classes

Person ~ match_confirmed:JSON - patient:{ Identifiers:{} ~ matches_found:Array(JSON) - names:{ - addresses:{ family_name:String, current_residence:String, given_name:String current_village:String, current_ta:String, gender:String current district: String, - birthdate:String home_village:String, - birthdate estimated:Integer home_ta:String, - attributes:{ home_district:String citizenship:String, occupation:String, - patient assigned:Boolean cell phone number:String, assigned site:String home_phone_number:String, race:String + 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)

Footprint

+ create_person_record(JSON):BOOLEAN+ update_person_record(JSON):BOOLEAN

+ search_by_npid(npid:String):Array(JSON)

+ get_person_record(npid:String):JSON

- npid:String
- application:String
- site:String
- + log_application_and_site(npid:String, application:String, site:String):Array(JSON)

Proxy

- + check_if_npids_available():BOOLEAN
- + assign_npid_to_person(JSON):JSON
- + assign_temporary_npid(JSON):JSON
- + get unassigned npids():Array(JSON)
- + request_for_npids(site:String, site_code:String):BOOLEAN

Master

- site:String, site_code:String
):BOOLEAN
- + get_unassigned_npids():Array(JSON)
- + get_all_sites():Array(JSON)

Site

- name:String
- description:String
- site_code:String

Npid

- national id:String
- assigned:BOOLEAN
- site_code:String

JSON Object Definition

```
"application":"",
 "site_code":""
       "family name":""
       "given_name":""
    'gender":"M",
    'attributes":{
       "occupation":""
       "cell phone number":""
    "birthdate":"YYYY-MM-DD",
    "patient":{
       '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
}
```

Legend

Class Name

Class Methods

Constituent Class

Note:

All missing fields
Can be left empty
And ignored when
Working with the
JSON Objects
Passed.

OPTIONAL Parameter is optional

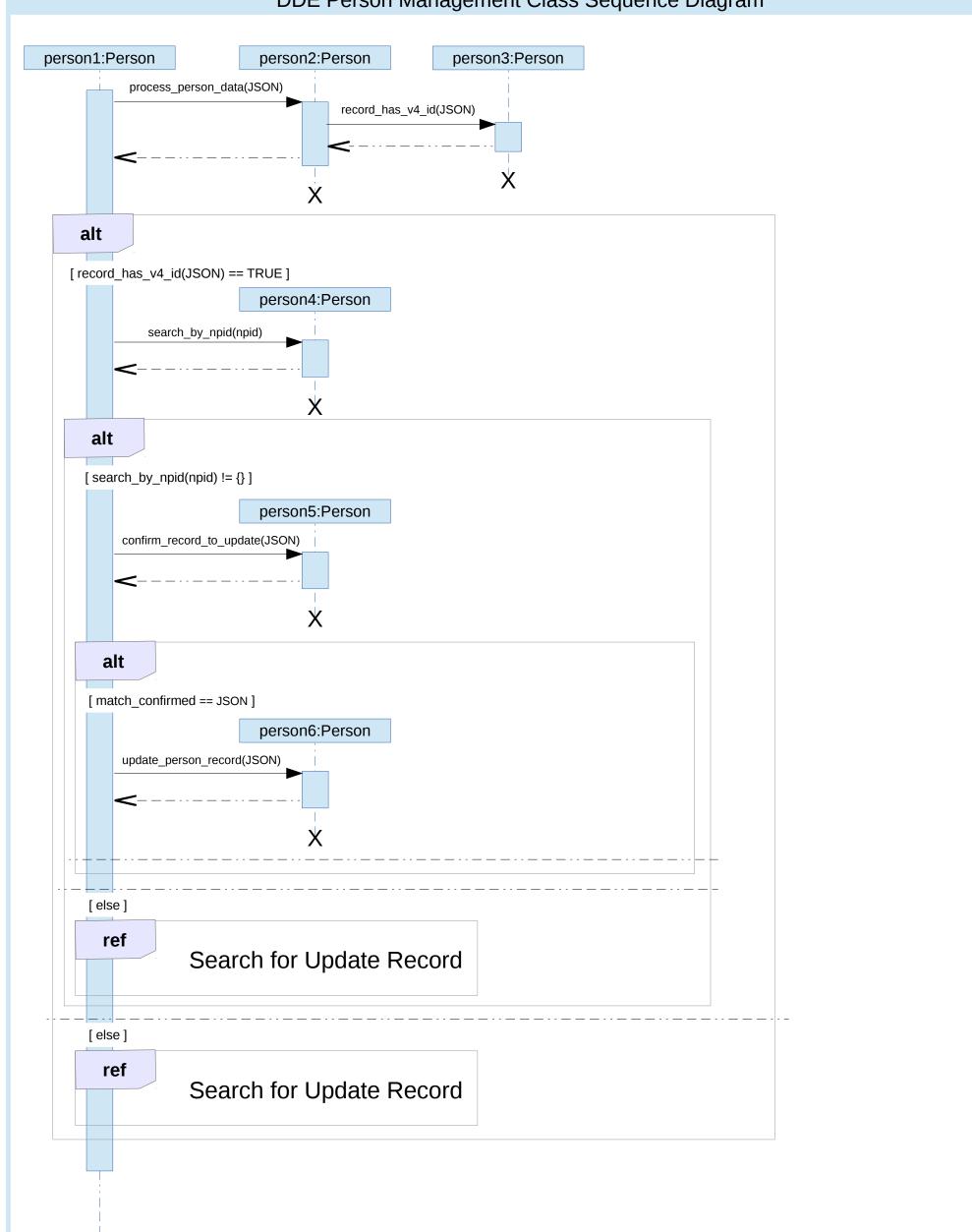
Method/Attribute Public

Method/Attribute Private

JSON JSON Object Type (Associative Array)

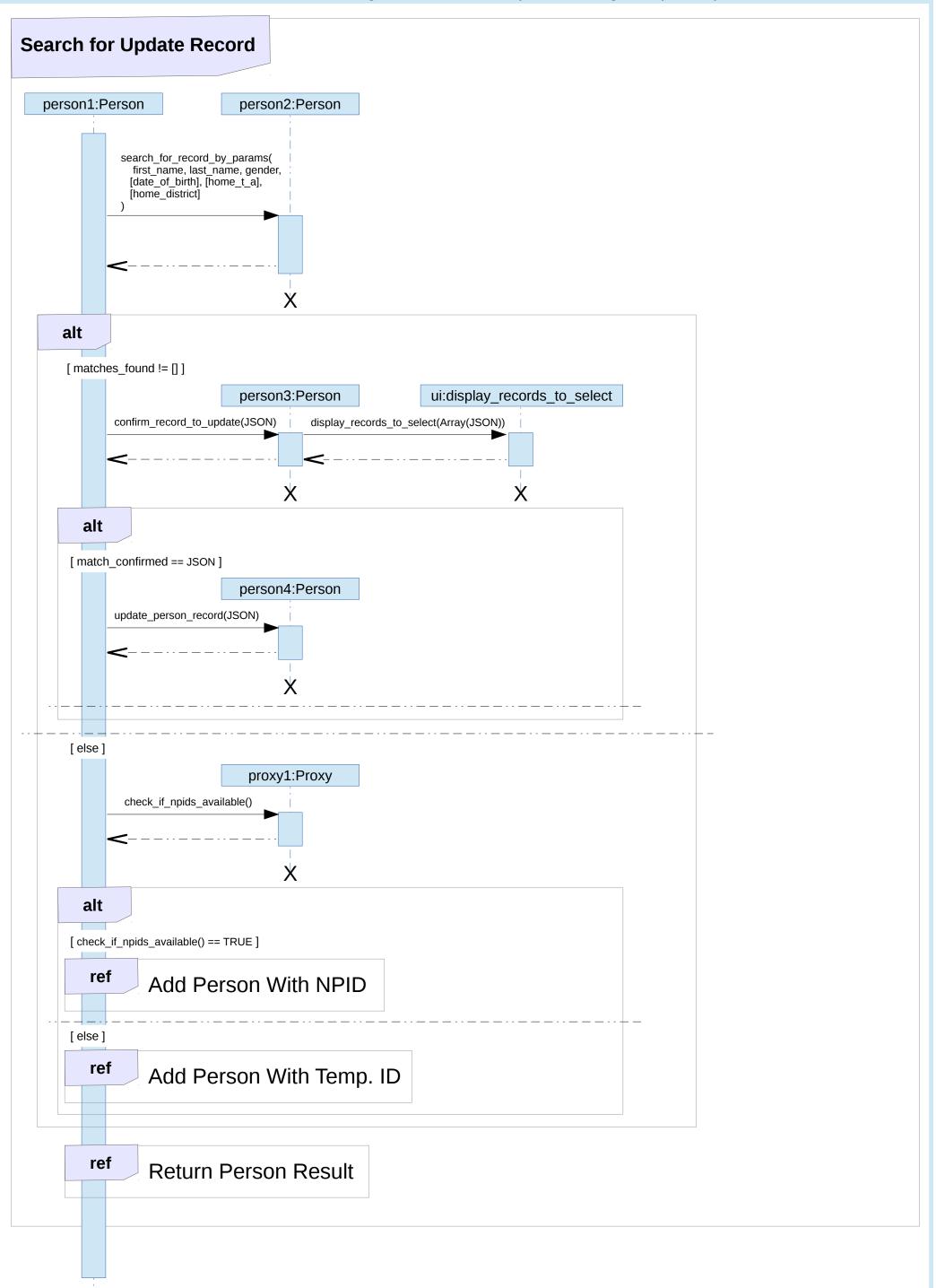
Array(*Type*) Array collection of data type '*Type*'

Demographics Data Exchange Design Document DDE Person Management Class Sequence Diagram



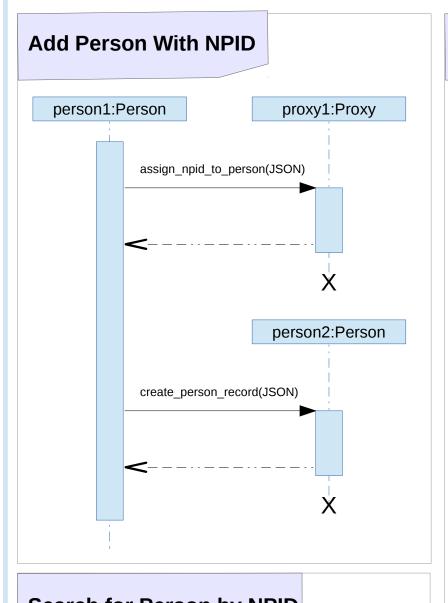
Demographics Data Exchange Design Document

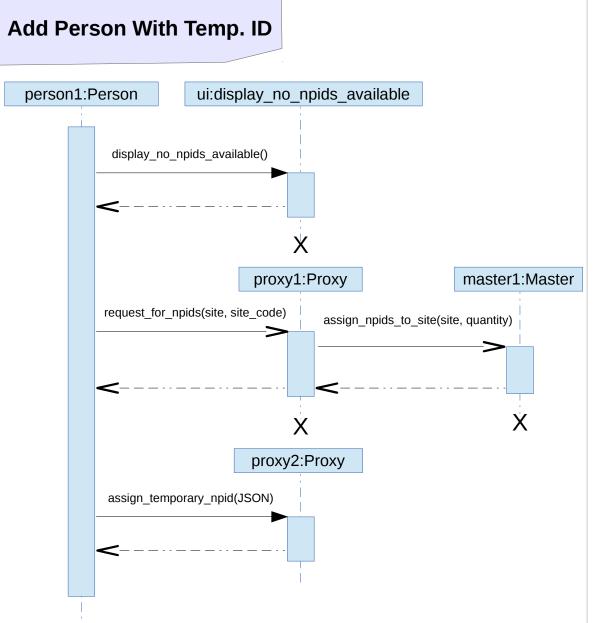
DDE Person Management Class Sequence Diagram (cont'd)

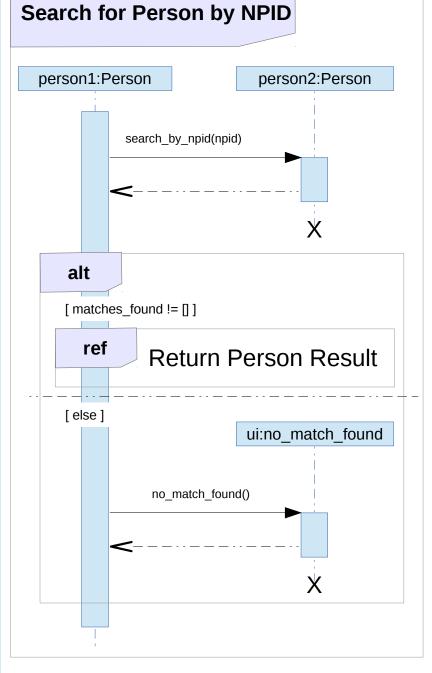


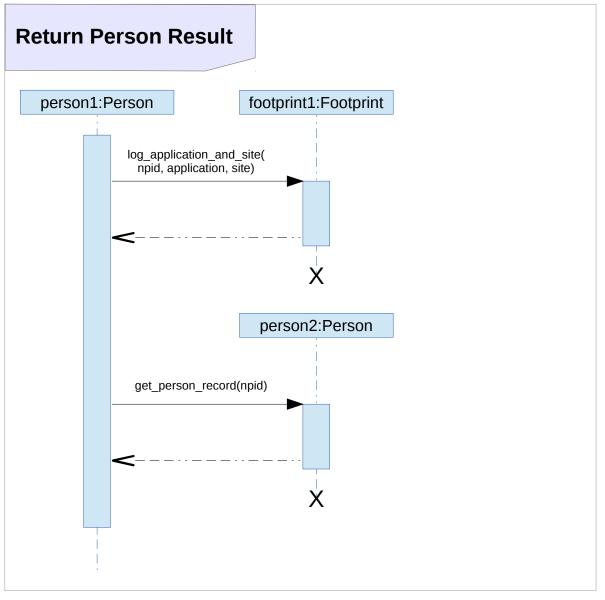
Demographics Data Exchange Design Document

DDE Person Management Class Sequence Diagram (cont'd)









Demographics Data Exchange Design Document

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.