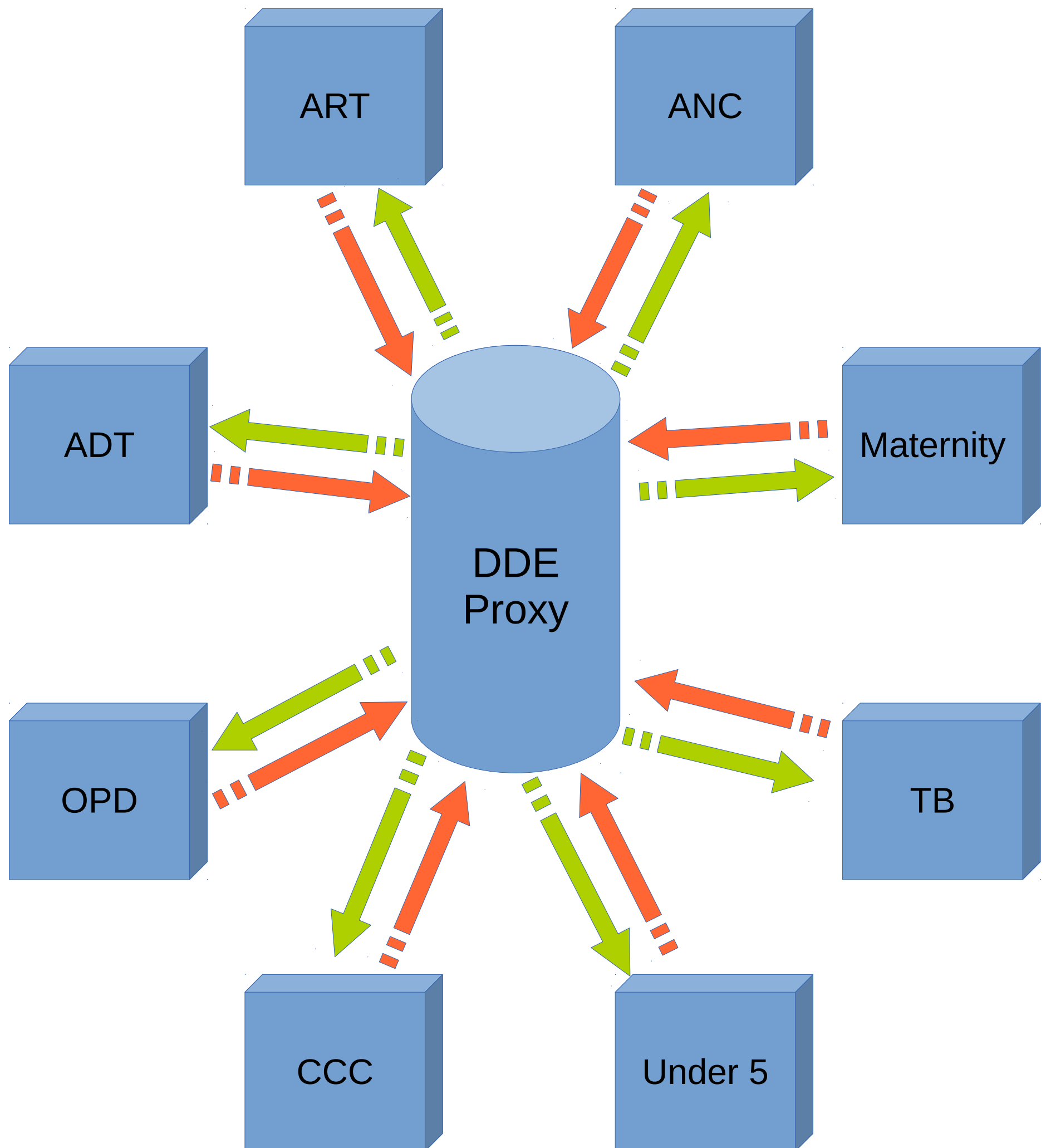


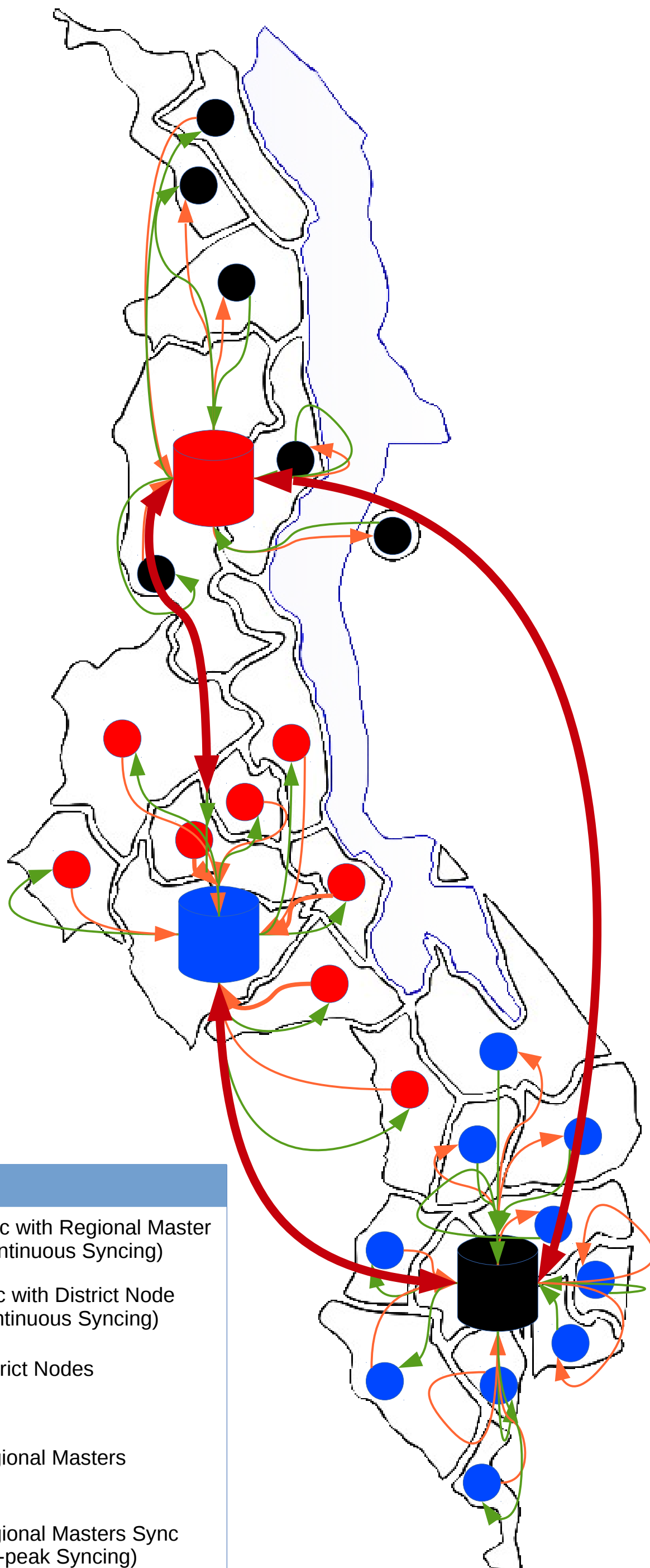
Demographics Data Exchange Design Document

Global Proxy View



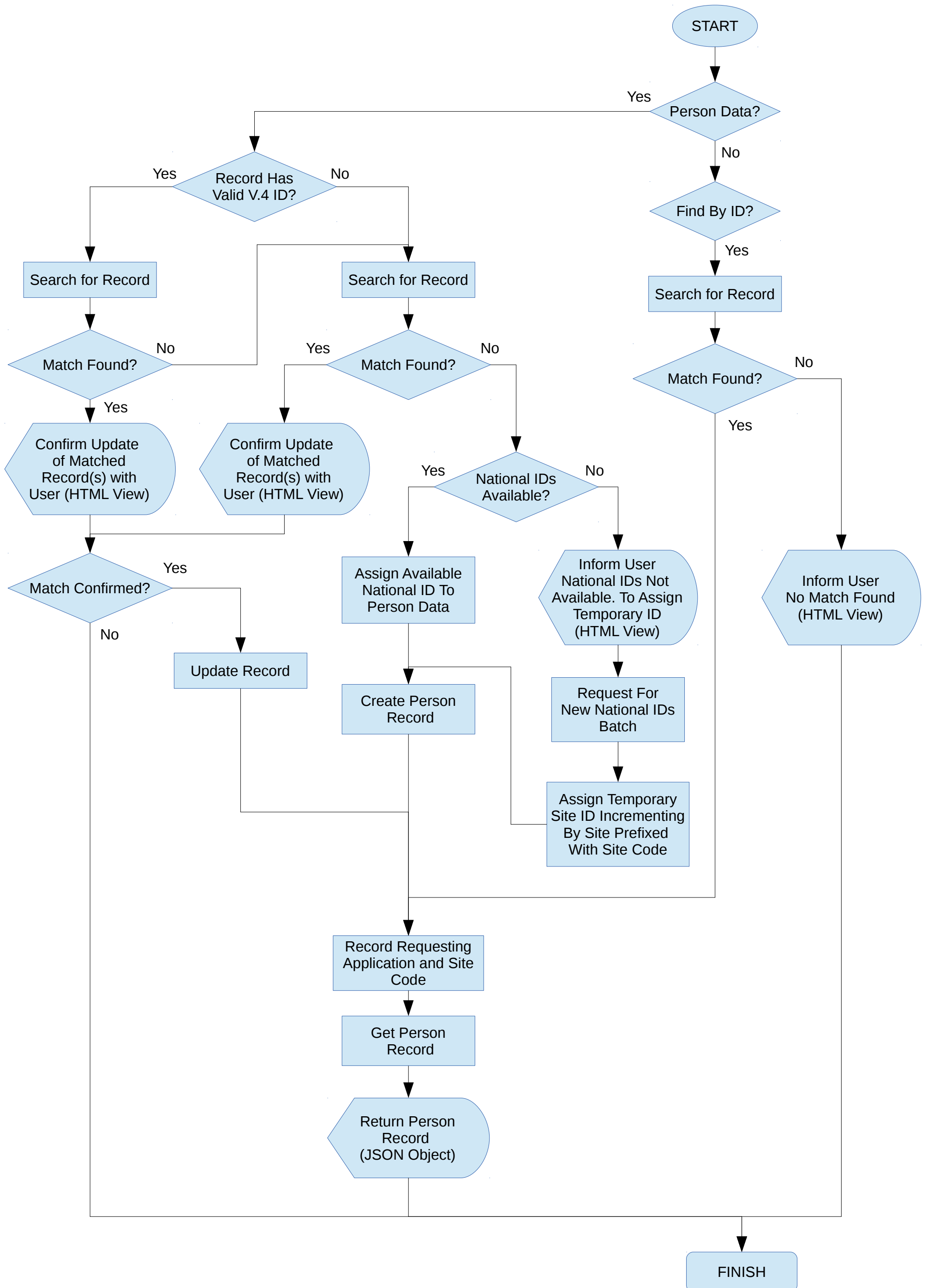
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National and Regional Master/Proxy Nodes Distribution



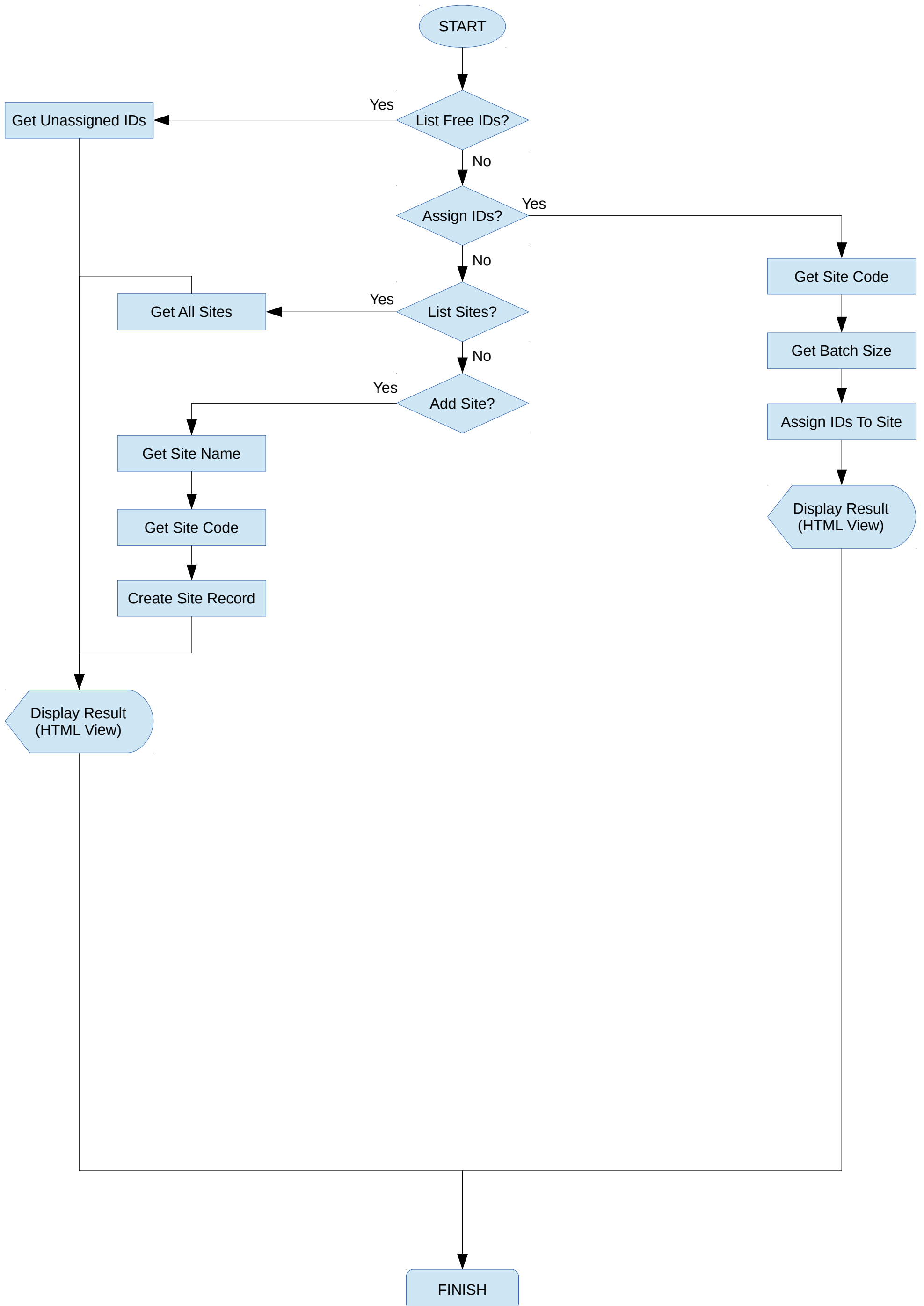
Demographics Data Exchange Design Document

DDE Proxy Server Person Management Flow Diagram



Demographics Data Exchange Design Document

DDE Master Server Identifier Management Flow Diagram



Demographics Data Exchange Design Document

DDE Classes

Person	
<div>- 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 }</div>	<div>- patient:{ Identifiers:{} } - addresses:{ current_residence:String, current_village:String, current_ta:String, current_district:String, home_village:String, home_ta:String, home_district:String } - patient_assigned:Boolean - assigned_site:String</div>

Utils::Person
<div>~ match_confirmed:JSON ~ matches_found:Array(JSON)</div>
<div>+ 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)</div>

Npid
<div>- national_id:String - assigned:BOOLEAN - site_code:String</div>

Utils::Proxy
<div>+ 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</div>

Utils::Master
<div>+ assign_npids_to_site(site:String, quantity:Integer):BOOLEAN + add_site(site:String, site_code:String):BOOLEAN + get_unassigned_npids():Array(JSON) + get_all_sites():Array(JSON)</div>

Site
<div>- name:String - description:String - site_code:String</div>

Footprint
<div>- npid:String - application:String - site_code:String</div>
<div>+ log_application_and_site(npid:String, application:String, site:String):Array(JSON)</div>

JSON Object Definition
<pre>{ "npid":""," "application":""," "site_code":""," "names": { "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 } }</pre>

Legend

Class Name

Class Methods

Constituent Class

OPTIONAL

Parameter is optional

+

Method/Attribute Public

-

Method/Attribute Private

JSON

JSON Object Type (Associative Array)

Array(*Type*)

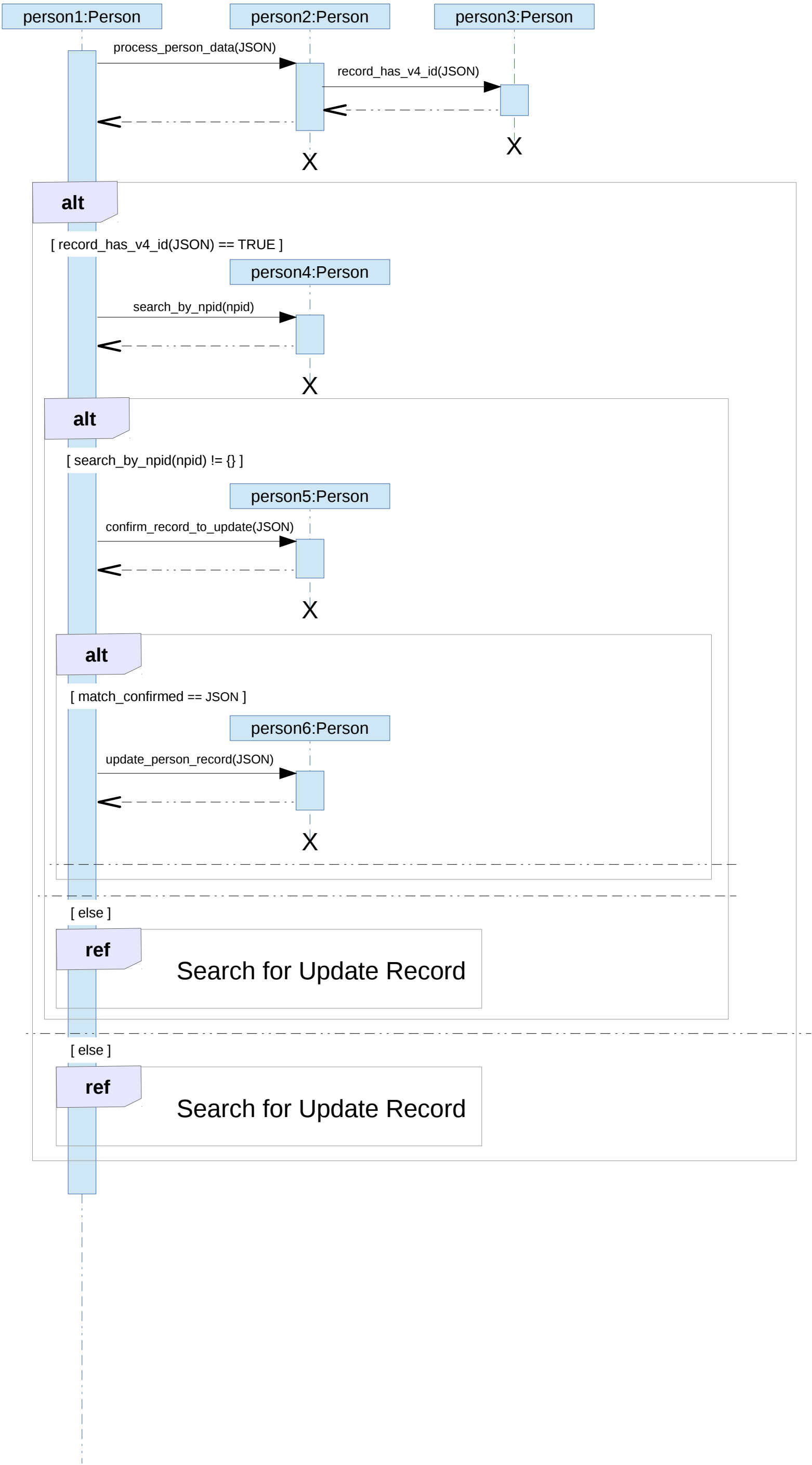
Array collection of data type '*Type*'

Note:

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

Demographics Data Exchange Design Document

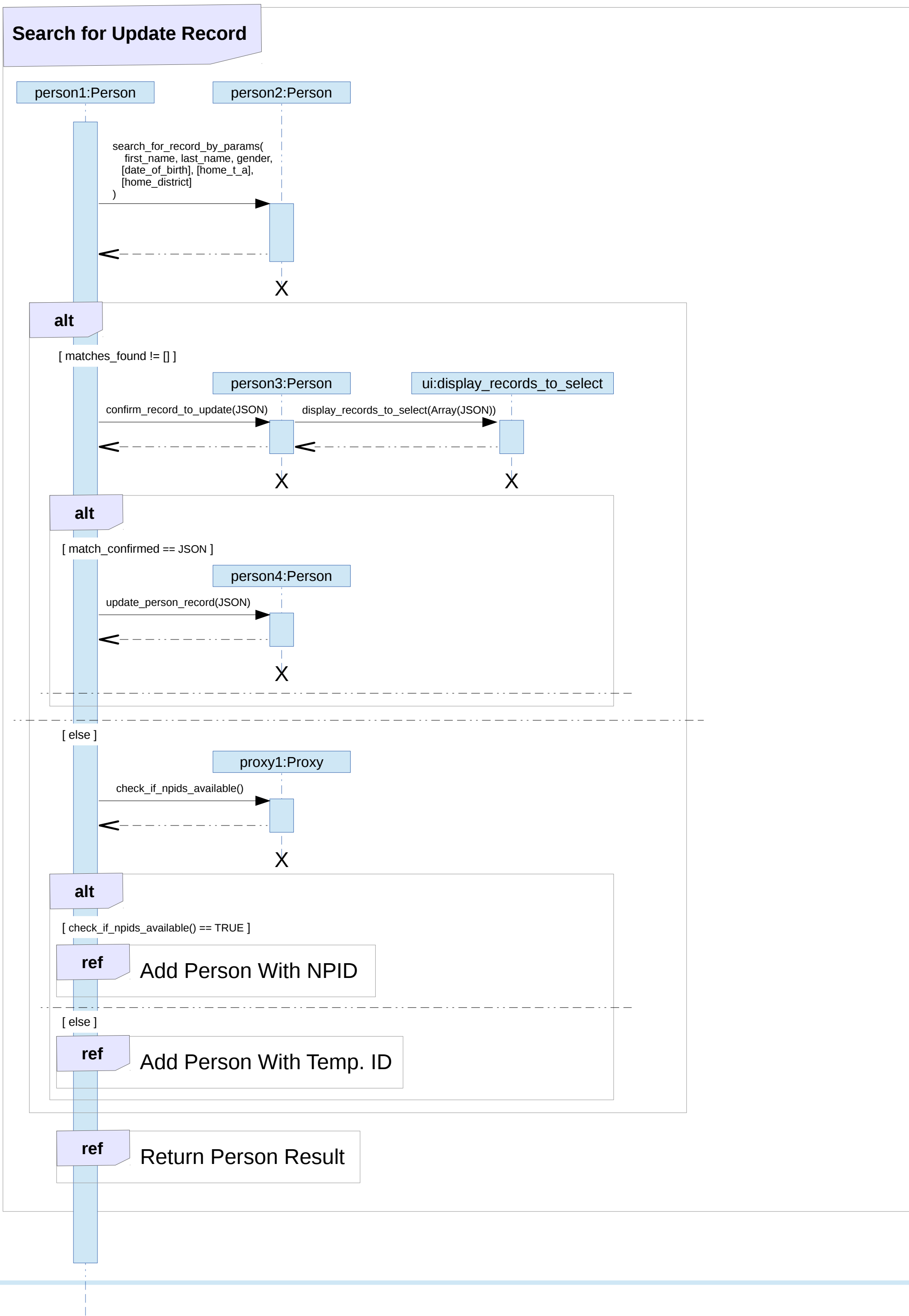
DDE Person Management Class Sequence Diagram



Demographics Data Exchange Design Document

DDE Person Management Class Sequence Diagram (cont'd)

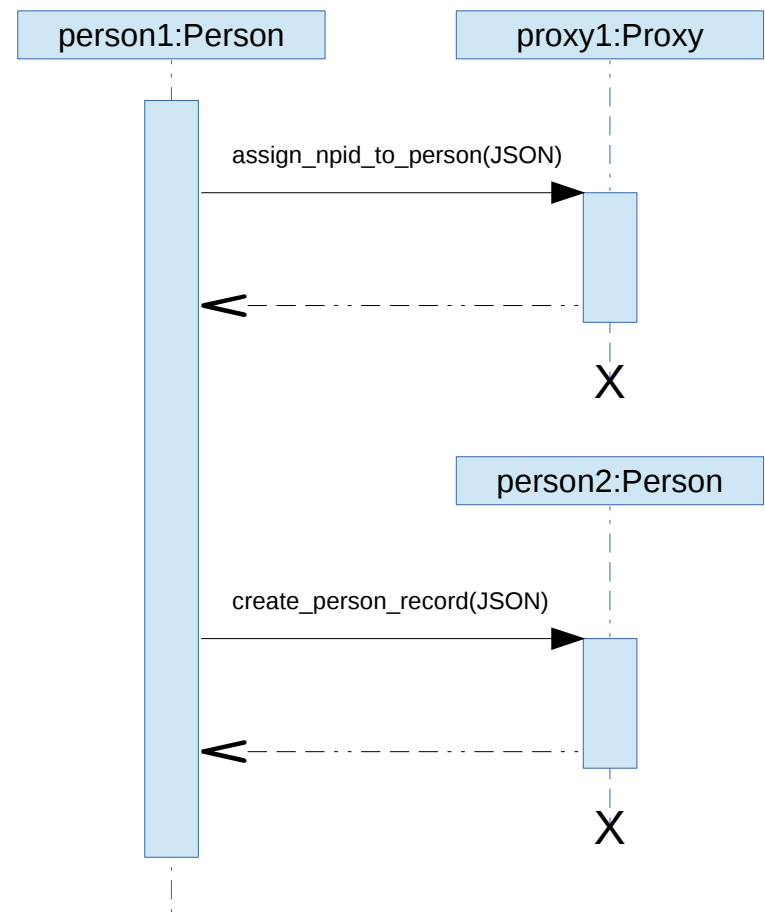
Search for Update Record



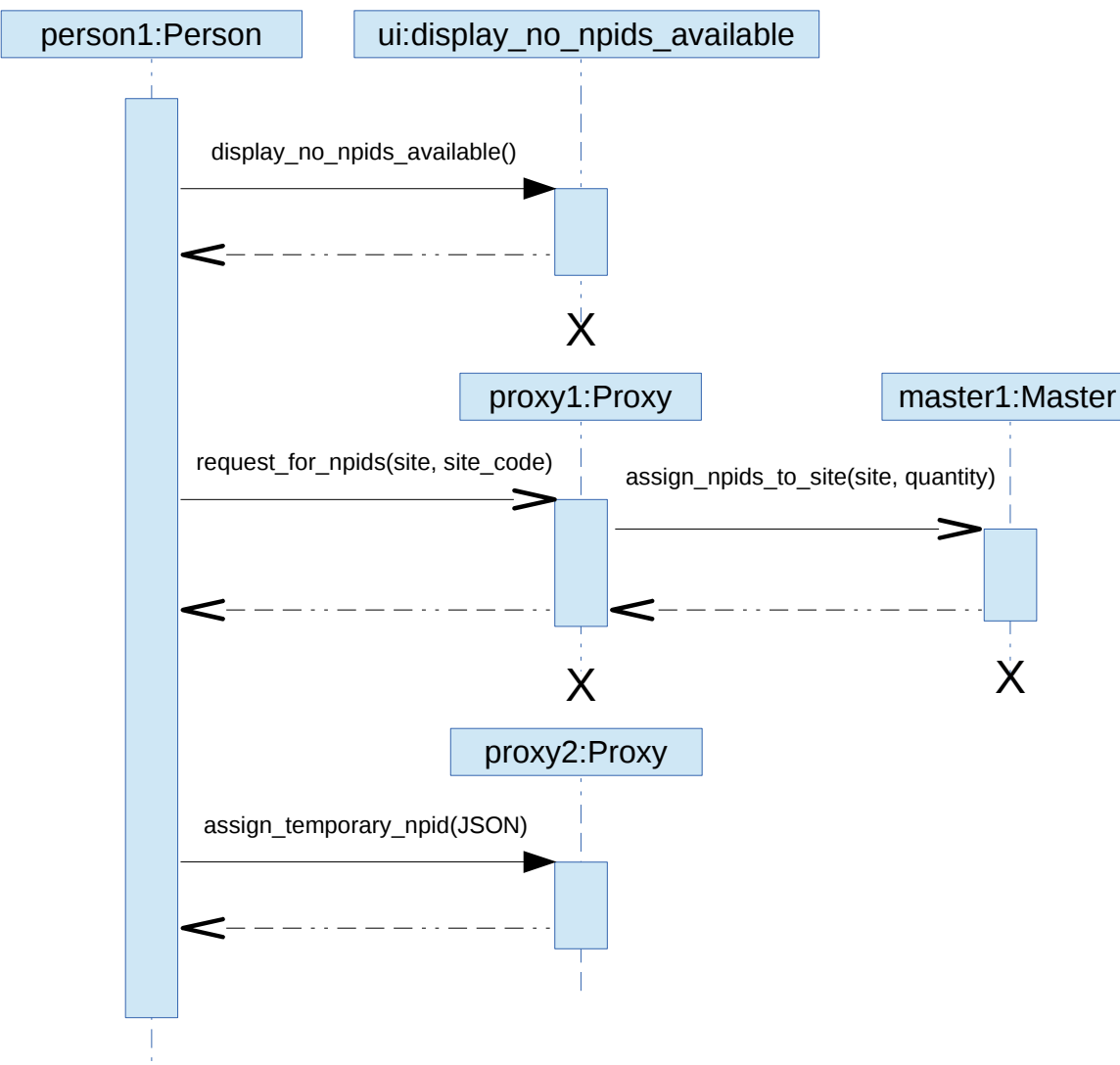
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DDE Person Management Class Sequence Diagram (cont'd)

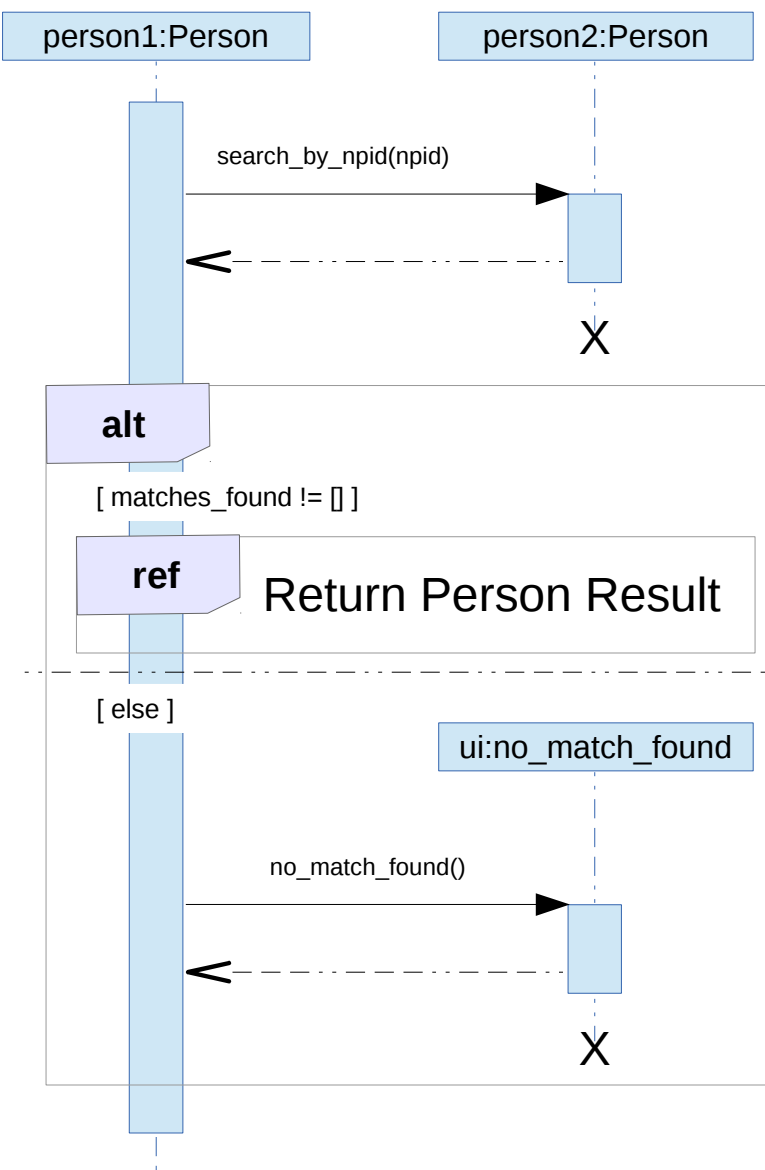
Add Person With NPID



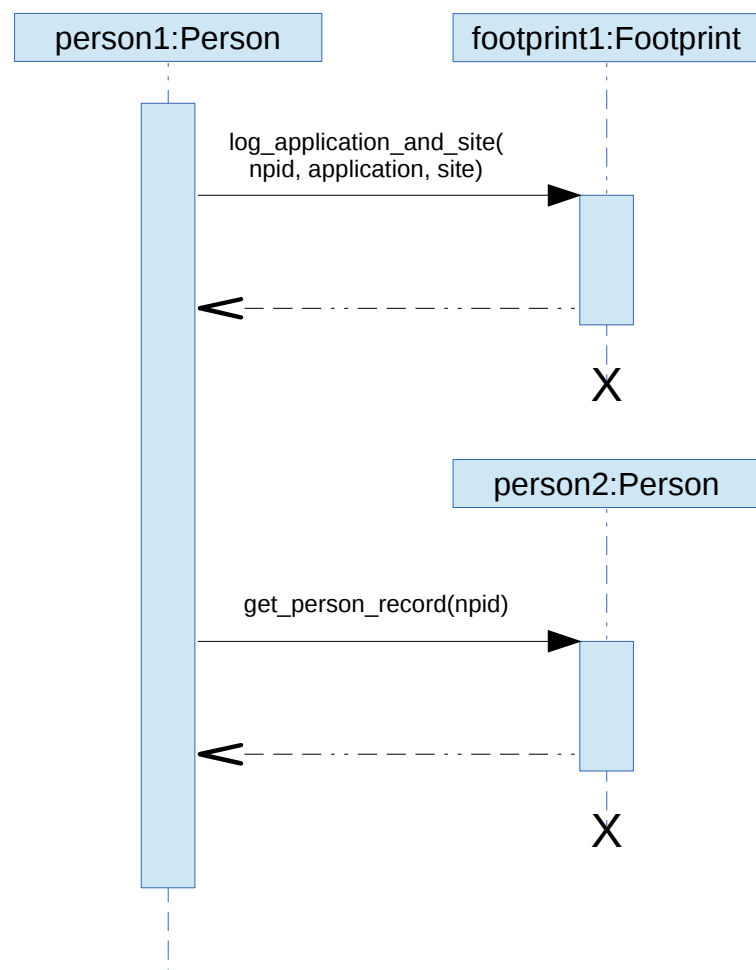
Add Person With Temp. ID



Search for Person by NPID



Return Person Result



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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!

OK

ui:display_no_ids_available()

No National IDs Are Available Now.

Patient Will Be given A Temporary ID For Replacement Later.

OK