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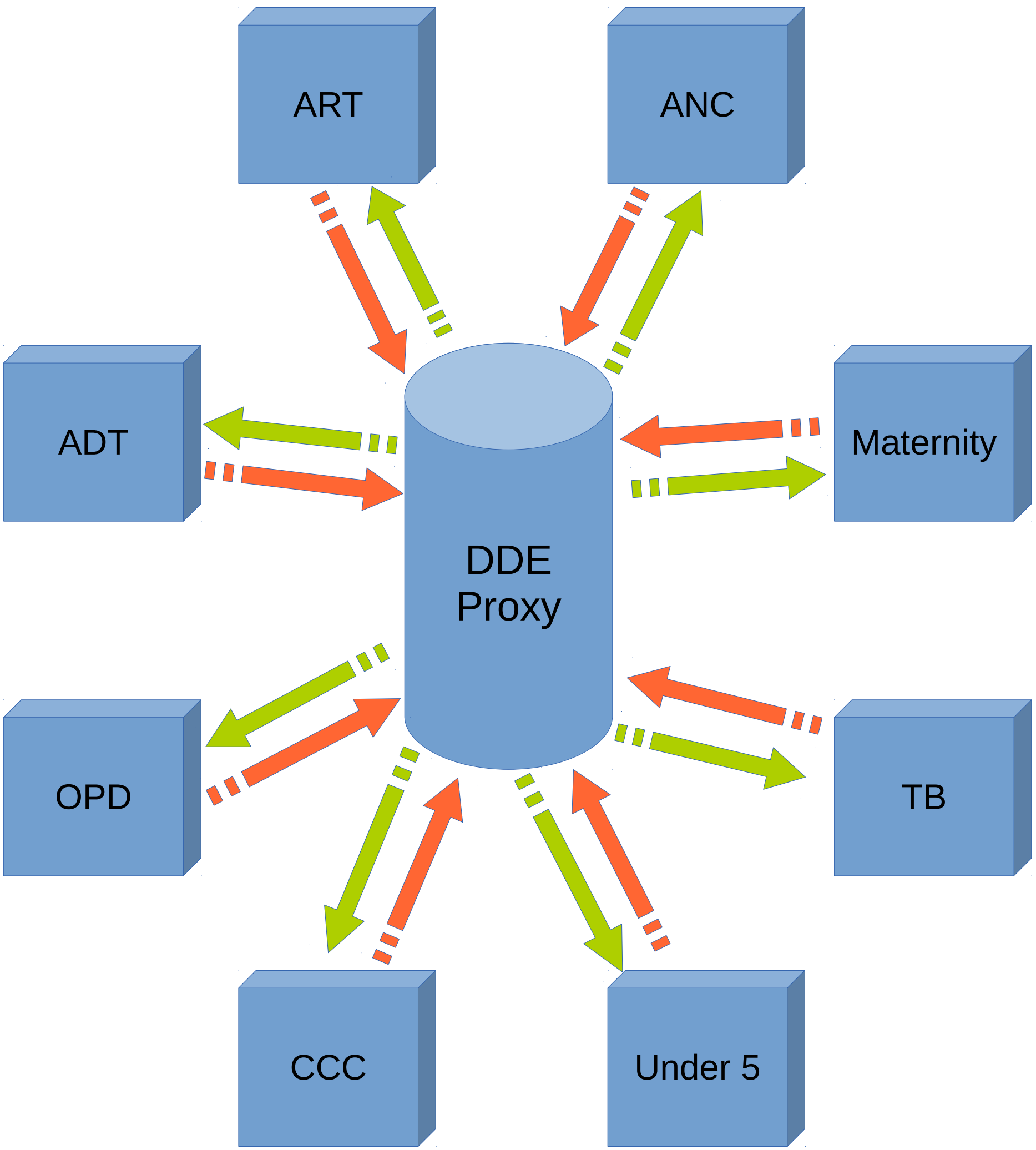
Global Proxy View



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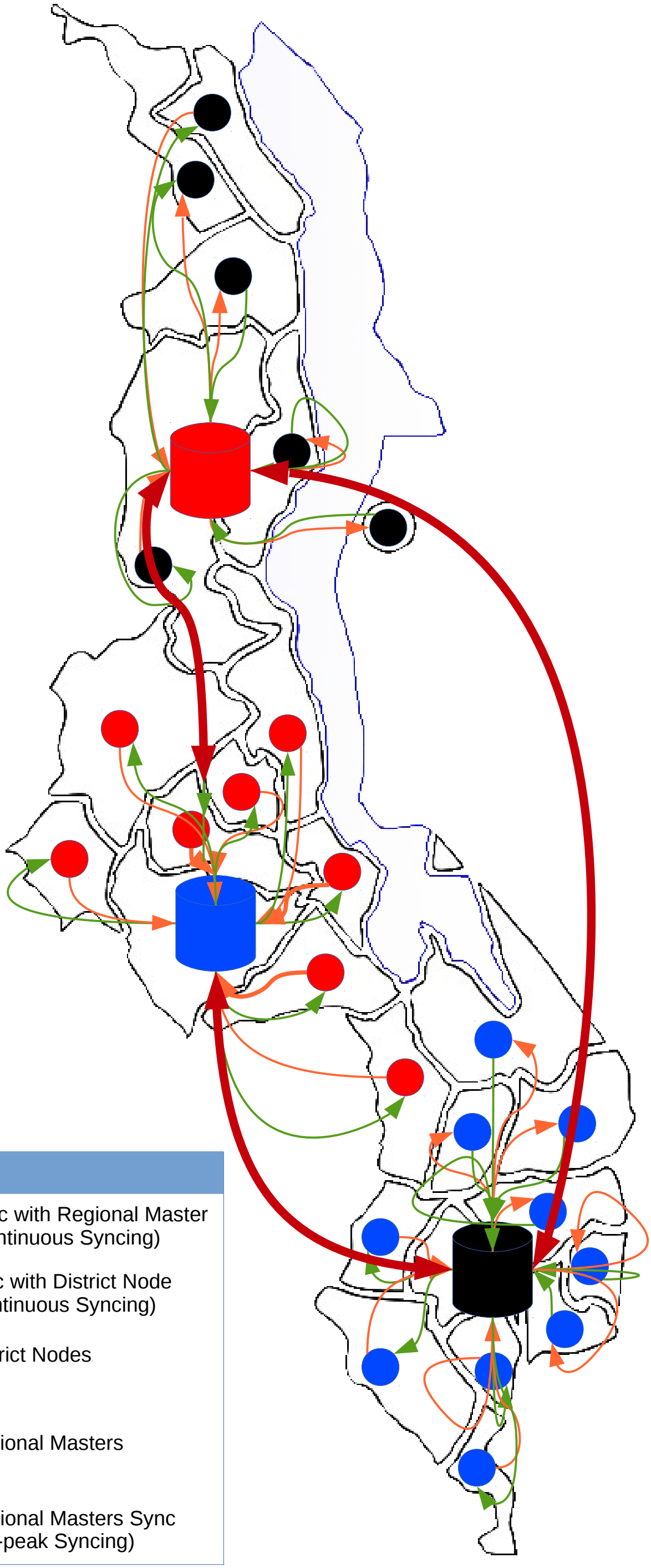
National and Regional Master/Proxy Nodes Distribution



Legend

- Sync with Regional Master (Continuous Syncing)
- Sync with District Node (Continuous Syncing)
- District Nodes
- Regional Masters
- Regional Masters Sync (Off-peak Syncing)

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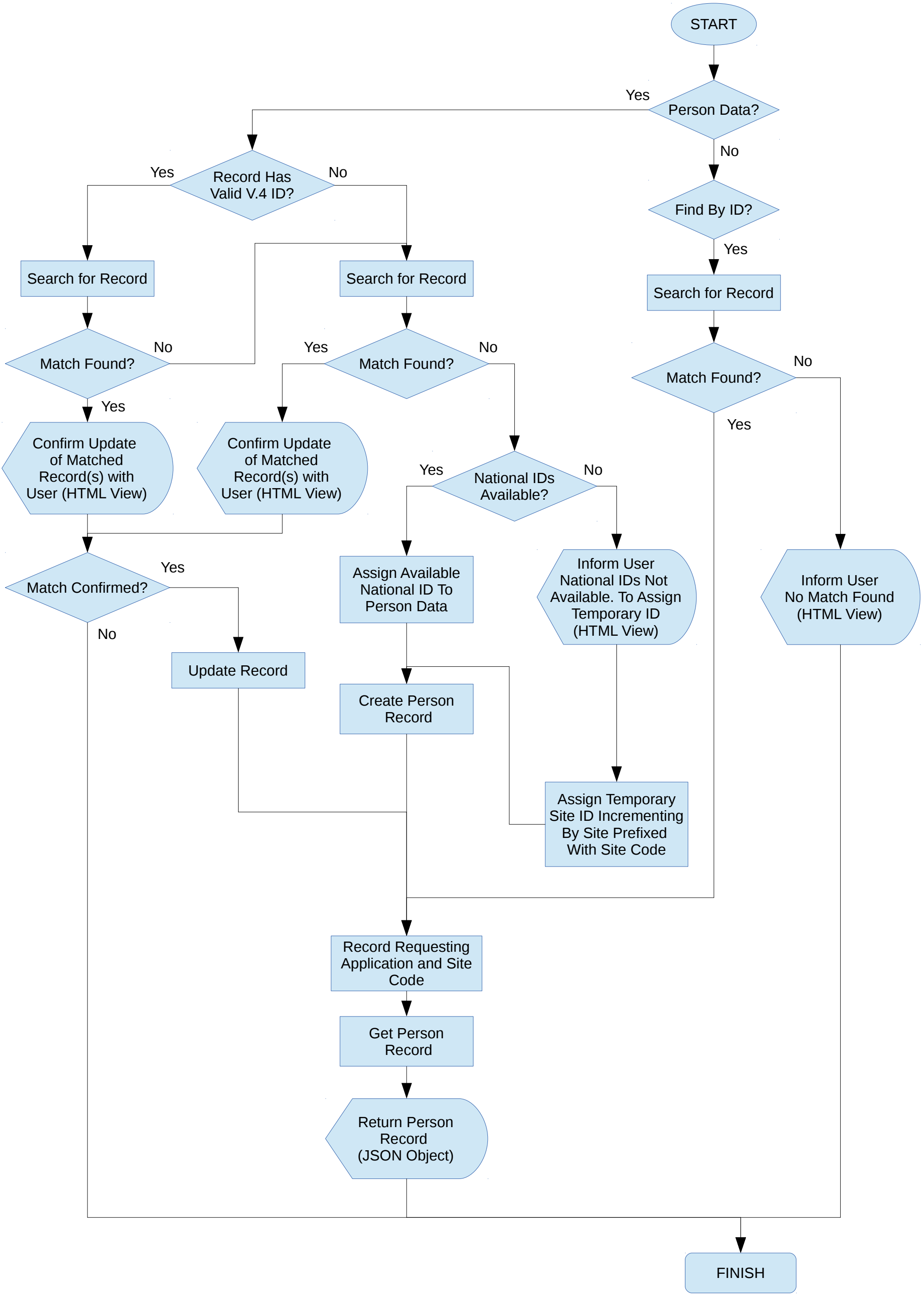
DDE Proxy Server Person Management Flow Diagram



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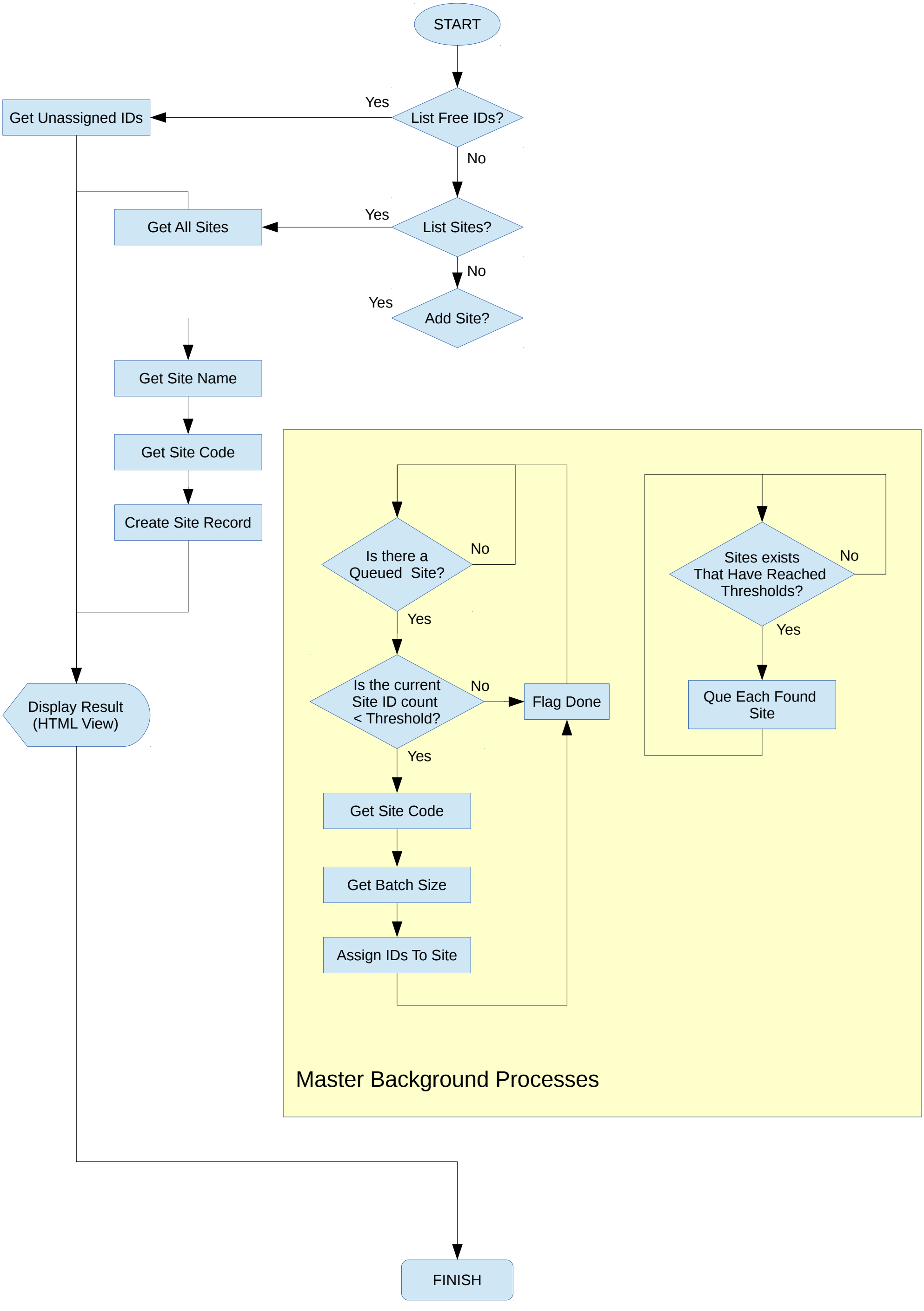
DDE Master Server Identifier Management Flow Diagram



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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_district:String
  }
- patient_assigned:Boolean
- assigned_site:String

Utils::Person

~ match_confirmed:JSON

~ matches_found:Array(JSON)

+ process_person_data(JSON):JSON

- person_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)
  ):Array(JSON)

- confirmed_person_to_update(JSON):Array(JSON)

- create_person(JSON):BOOLEAN

- update_person(JSON):BOOLEAN

- get_person(npid:String):JSON

+ search_by_npid(JSON):Array(JSON)

Npid

- national_id:String
- assigned:BOOLEAN
- site_code:String
- region:String

JSON Object Definition

```
{
   "national_id":"",
   "application":"",
   "site_code":"",
   “return_path”:””,
   "names":
      {
         "family_name":"",
         "given_name":""
      },
      "gender":"M",
      "attributes":{
         "occupation":"",
         "cell_phone_number":""
      },
      "birthdate":"YYYY-MM-DD",
      "patient":{
         "identifiers":[]
      },
      "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
      }
   }
}
```

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

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)

+ request_for_npids(
  site:String,
  site_code:String
  ):BOOLEAN

Utils::Master

+ assign_npids_to_site(
  site:String, quantity:Integer
  ):BOOLEAN

+ 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
- description:String
- site_code:String
- threshold:Integer
- region:String

Utils::Footprint

+ log_application_and_site(json:JSON):Array(JSON)

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*'

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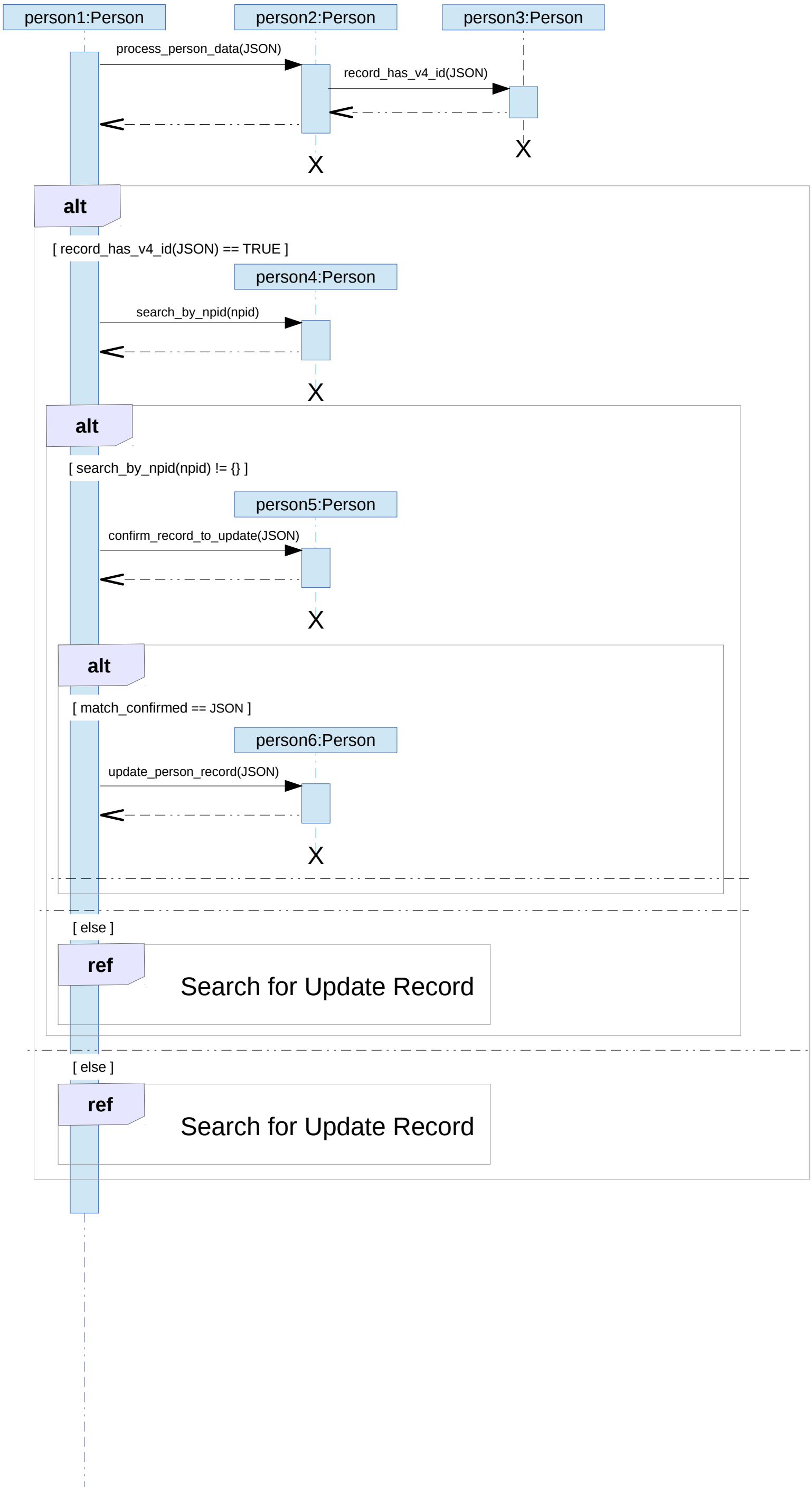
DDE Person Management Class Sequence Diagram



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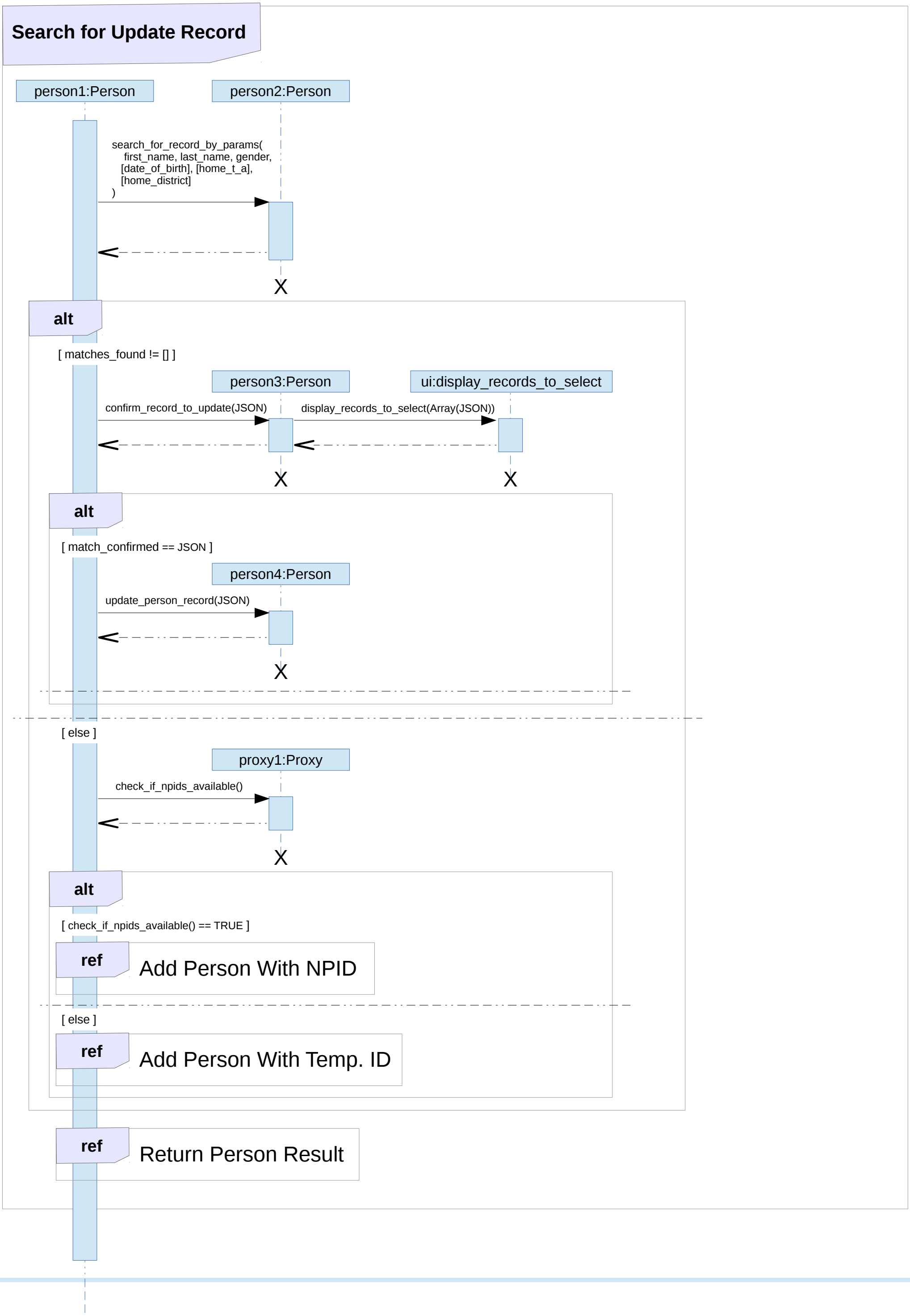
DDE Person Management Class Sequence Diagram (cont'd)



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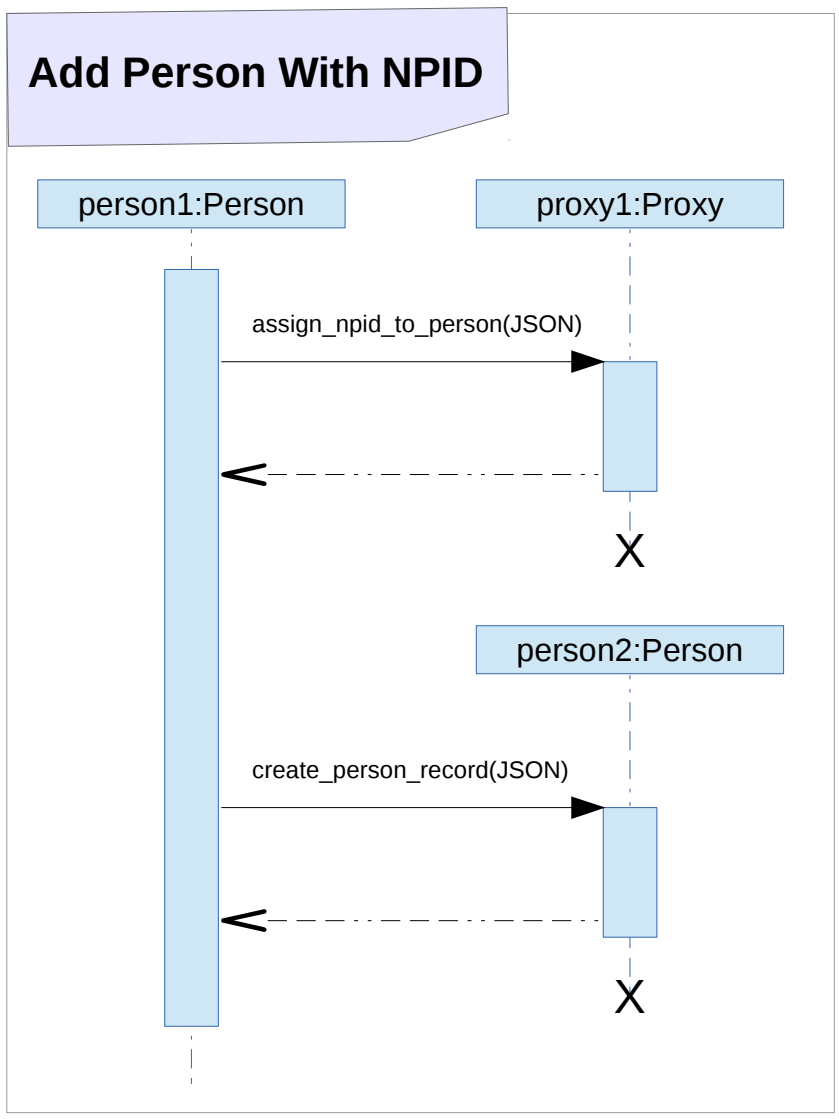
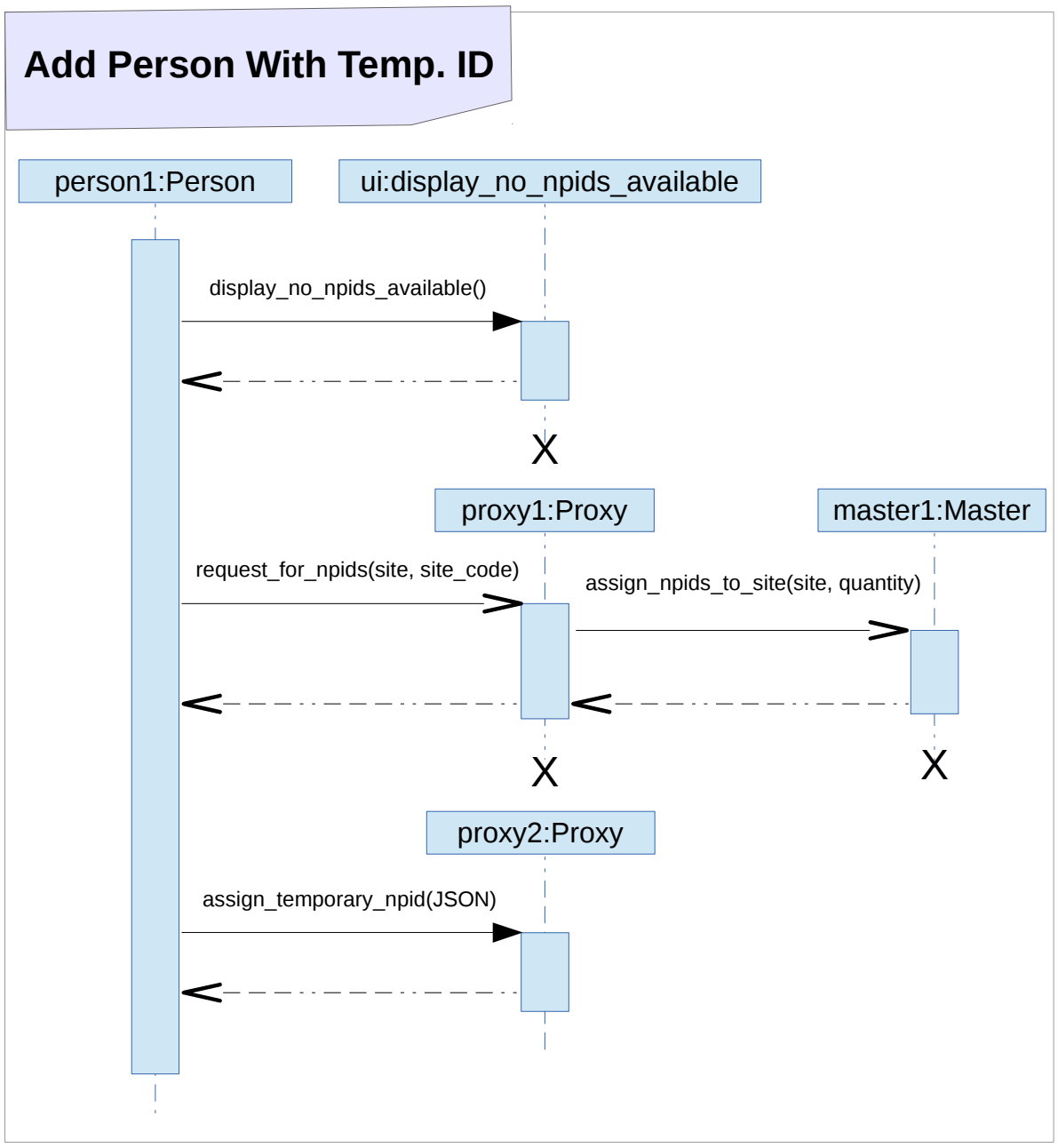
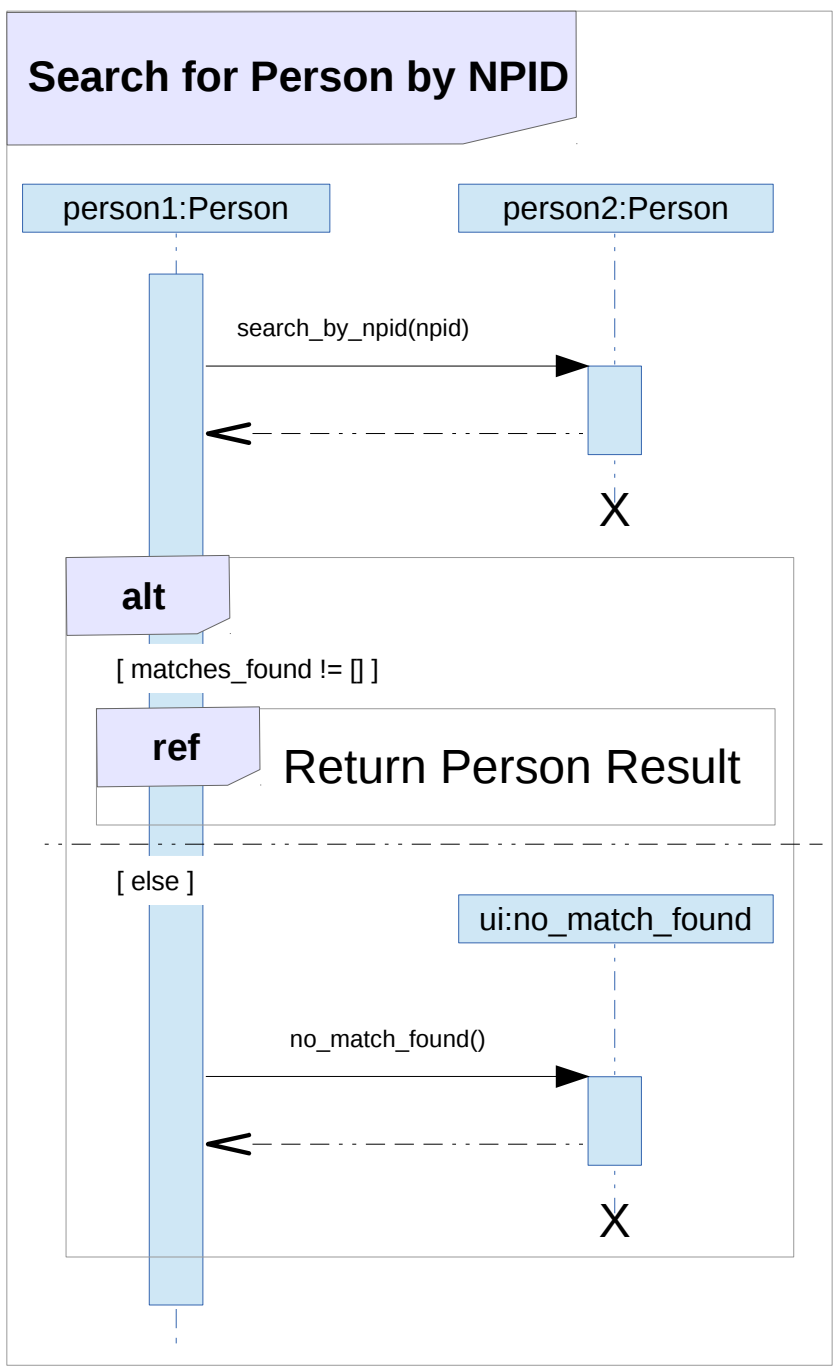
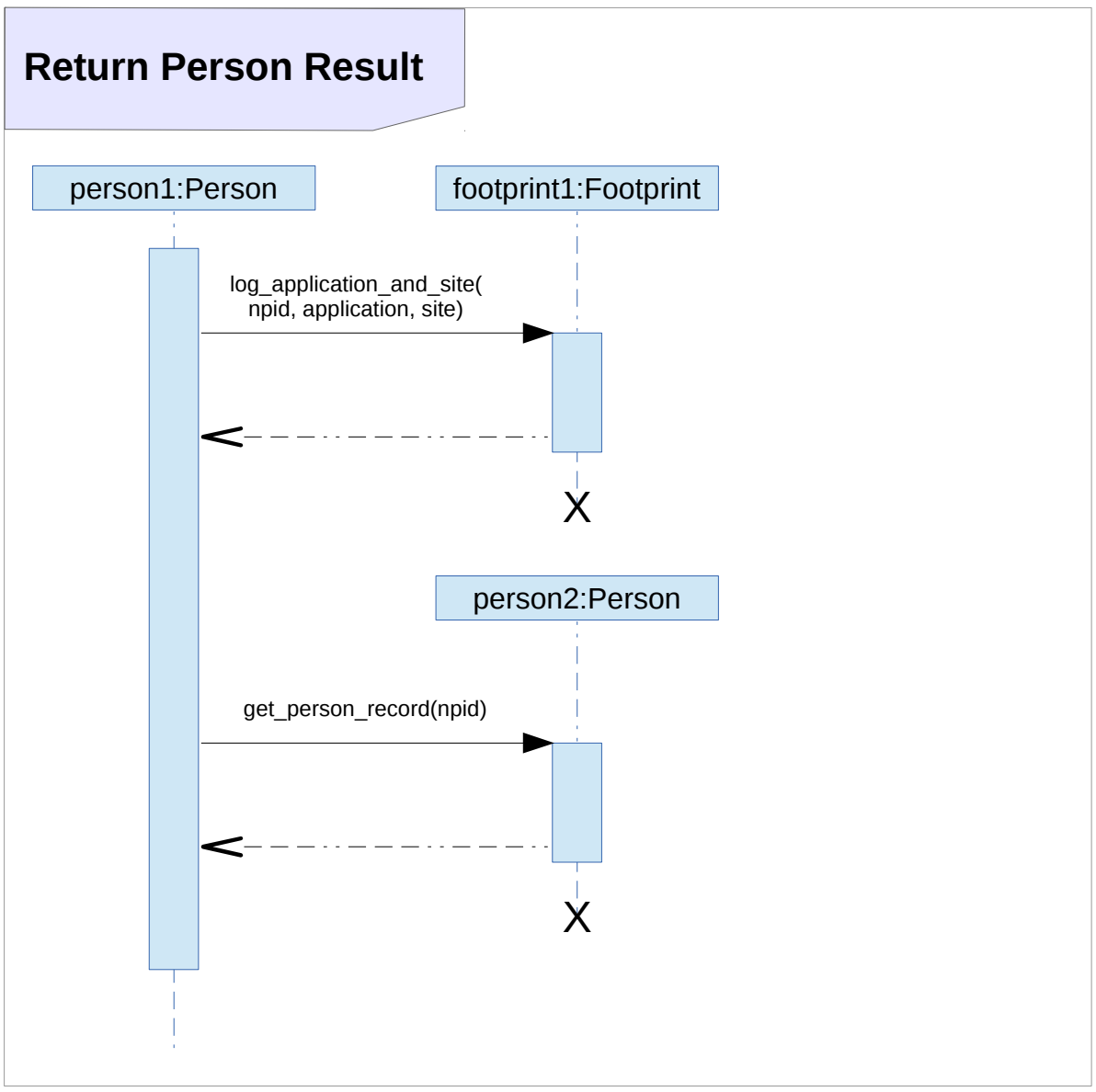
DDE Person Management Class Sequence Diagram (cont'd)









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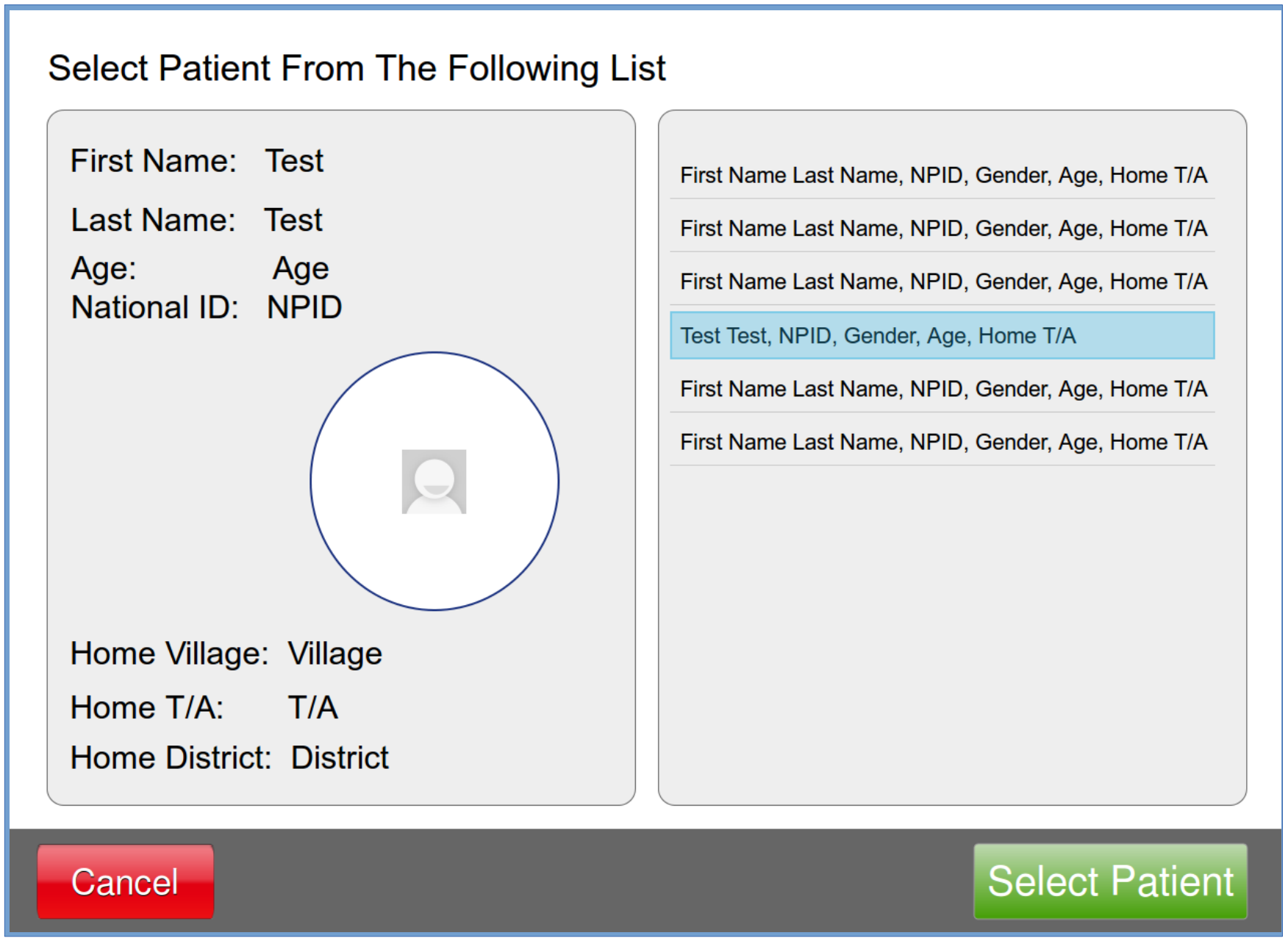
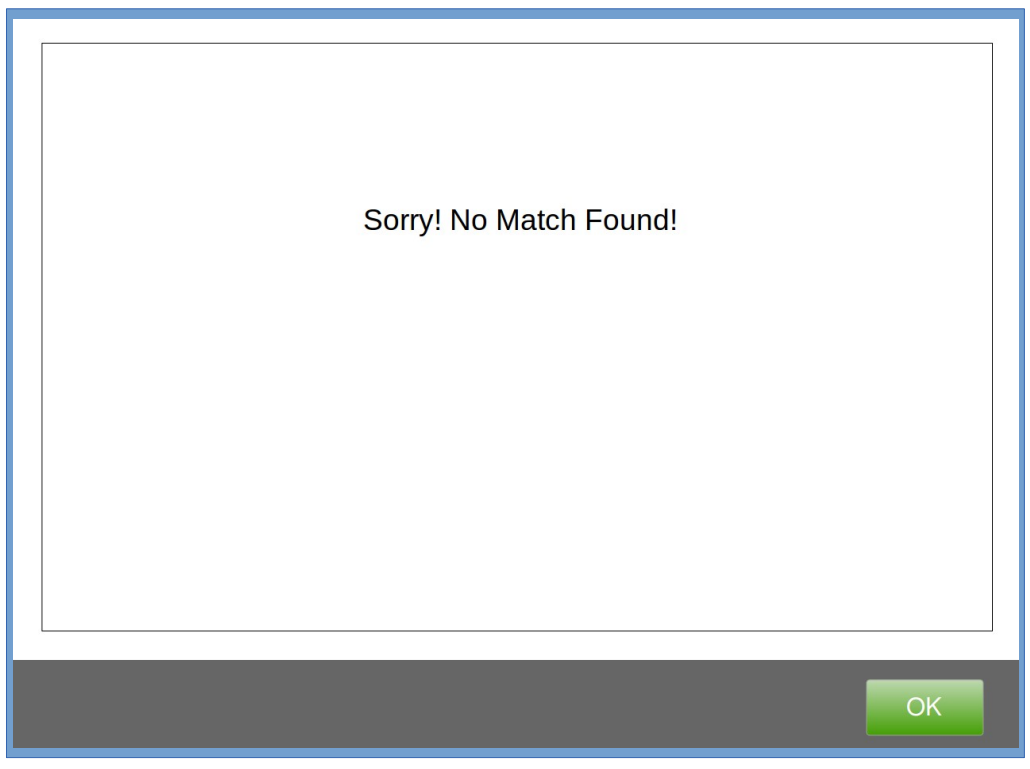
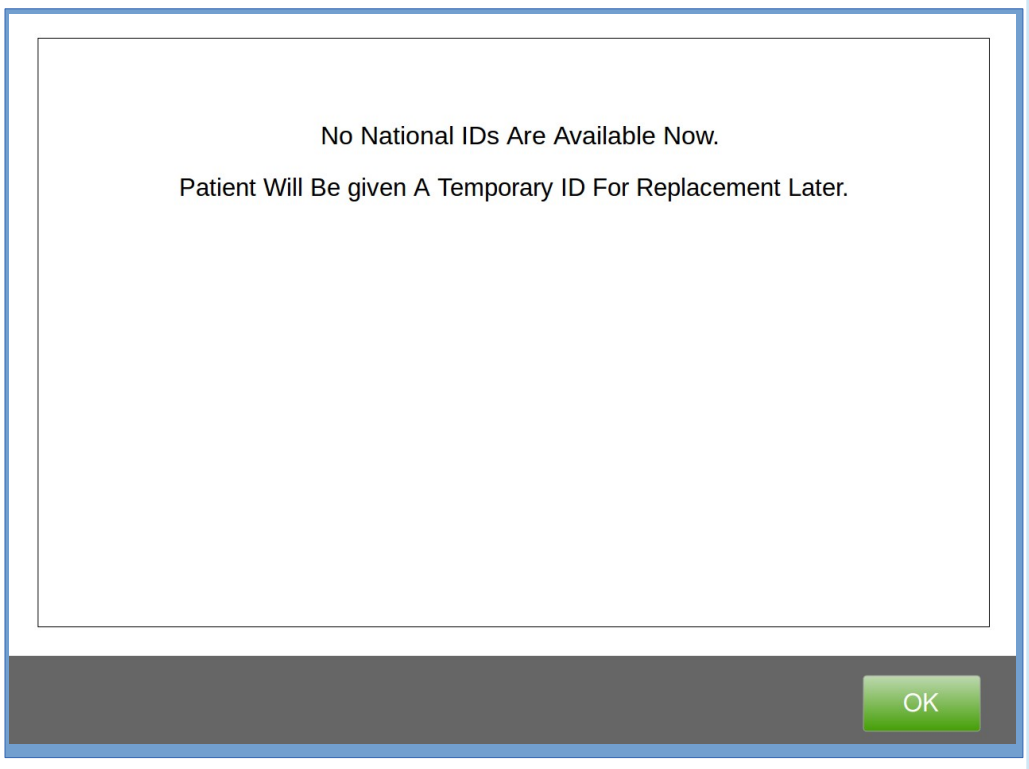
DDE Person Management Class Views

ui:display_records_to_select(Array(JSON))



ui:no_match_found()



ui:display_no_ids_available()