**UN DemoData API Usage**

Version 3 of the API includes refactoring changes to make the API more RESTful, and restructures optional parameters to include multiple Ids (where applicable), and has standardized naming conventions.

API endpoints follow standard REST standards, when possible, including plural nouns. Not all REST endpoints have been completed (ADD/MOD/DEL) due to read-only nature of the majority of the data set.

Compared to prior versions, parameters of “addDefault” have been removed, as they are not consistent with RESTful standards.

Test server provided for evaluation only, pending deployment to UN servers.

Test Server Landing Page:

<http://24.239.36.16:9654/un3/Web/index.html>

API documentation and testing page (Swagger):

<http://24.239.36.16:9654/un3/swagger/ui/index>

Step 1: Determine four primary categories of information:

Country

Indicator Type (Type of Location)

Age Distribution

Data Process Type

Country list (location):

<http://24.239.36.16:9654/un3/api/locations?includeDependencies=false&includeFormerCountries=true>

Indicator Type list (type of location):

<http://24.239.36.16:9654/un3/api/indicatorTypes>

Age Distribution: (no lookup API)

Abridged - 0

Complete - 1

Total - 2

Step 2: Determine available location types and subgroups for selected primary categories of information

Location Area Type:

<http://24.239.36.16:9654/un3/api/locAreaTypes?endYear=2019&indicatorTypeIds=8&isComplete=0&locIds=4&startYear=1950>

Subgroup:

<http://24.239.36.16:9654/un3/api/subGroups?endYear=2019&indicatorTypeIds=8&isComplete=0&locIds=4&startYear=1950>

Step 3: Retrieve list of all possible data process types

Data Process Types:

<http://24.239.36.16:9654/un3/api/dataProcessTypes?endYear=2019&indicatorTypeIds=8&isComplete=0&locIds=4&startYear=1950>

Step 4: Use the above criteria to create an API call to retrieve the appropriate information. Some parameters take multiple options as input.

Data Series:

Example 1:

Data Process(dataProcessIds)=2 (Census)

Indicator Type(indicatorTypeIds)=8 (Pop by age/sex)

Age Distribution (isComplete)=0 (Abridged)

Country/Location(locIds)=4 (Afghanistan)

Location Area Type(locAreaTypeIds)=2 (Urban only)

Start Year(startYear)=1950 (default)

SubGroup(subGroupIds)=2 (Total or All Groups)

Available Series:

<http://24.239.36.16:9654/un3/api/structuredDataSeries?dataProcessIds=2&endYear=3000&indicatorTypeIds=8&isComplete=0&locAreaTypeIds=2&locIds=4&startYear=1950&subGroupIds=2>

Data can be retrieved in a data table (for pivoting and summary), or as data records (output from the structured data store).

Data Table:

<http://24.239.36.16:9654/un3/api/structuredDataTable?dataProcessIds=2&endYear=3000&indicatorTypeIds=8&isComplete=0&locAreaTypeIds=2&locIds=4&startYear=1950&subGroupIds=2>

Data Records:

<http://24.239.36.16:9654/un3/api/structuredDataRecords?dataProcessIds=2&indicatorTypeIds=8&isComplete=0&locAreaTypeIds=2&locIds=4&subGroupIds=2>

Further, specific sex/gender categories for the data table/data records can be retrieved through similar API.

<http://24.239.36.16:9654/un3/api/sex?dataProcessIds=2&indicatorTypeIds=8&isComplete=0&locAreaTypeIds=2&locIds=4&subGroupIds=2>

This allows selecting filtering on sex/gender types for the subset of data selected.