

OSM Quality Assurance Tools

Quality Assurance

- ◆ OpenStreetMap is a free and open platform that anyone can use and edit. > it is critical to the sustainability of open data and OSM that everyone participates in the quality assurance and quality control process
- ◆ the process by OpenStreetMap contributors check data to ensure that all information uploaded to OSM meets high standards for usage and to prevent vandalism.
- ◆ Quality Assurance tools help lead to better quality of OSM data

QA Tools

OSMOSE

Tagging and
Geometry Issue

OSMCHA

Found Issues by
individual User

JOSM Validation

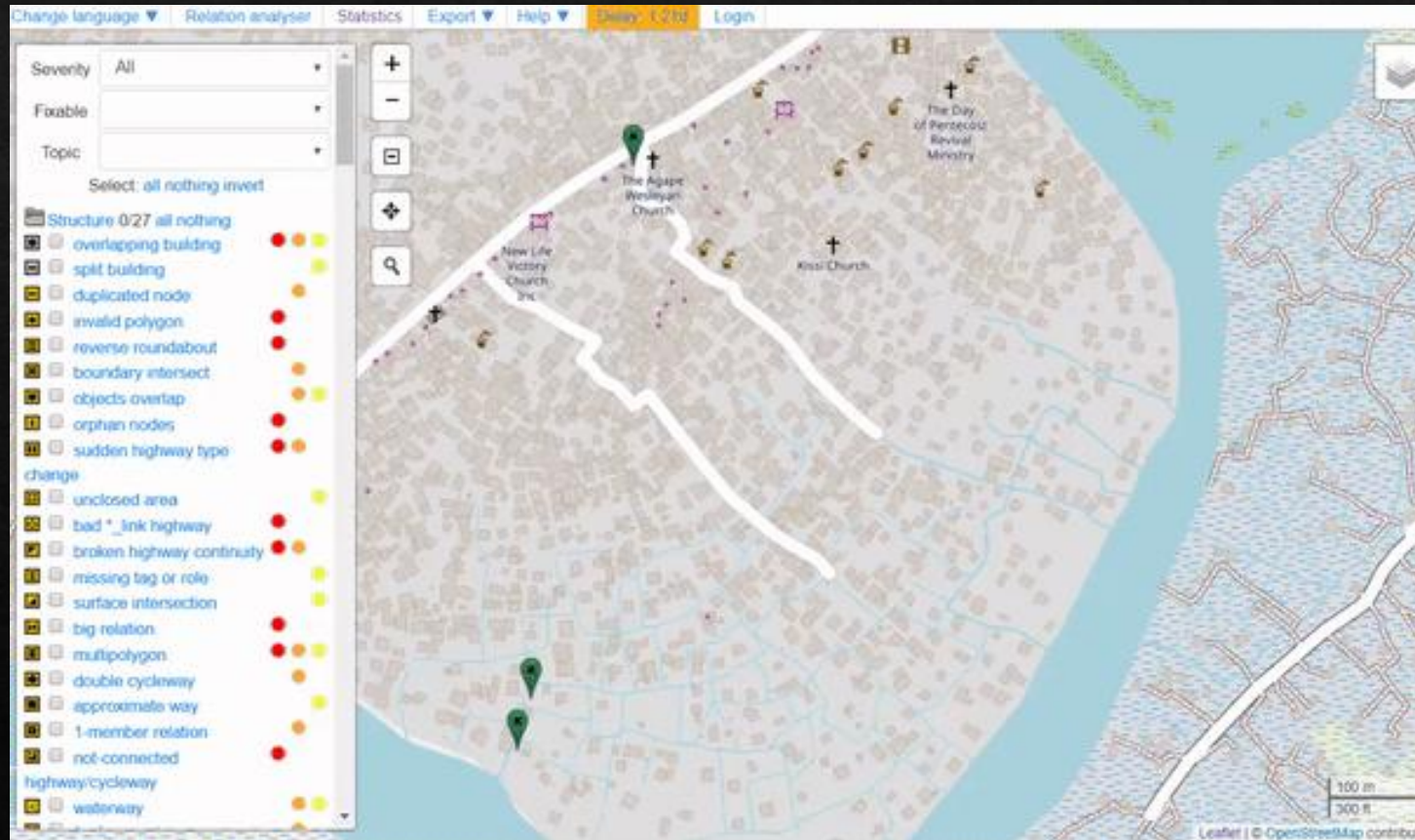
Tagging and and
Geometry (scan data
downloaded into
editor)

Nominatim QA

Adressing, Place,
Boundary

OSMOSE

- ❖ tools available to detect issues in OpenStreetMap data. It detects a very wide range of issue types.
- ❖ feature geometry such as overlapping buildings/nodes, incomplete features, and duplications
- ❖ common tagging issues such as missing, unsuitable or poorly formatted tags



OSMOSE

steps to correct key issues identified by Osmose

- ◆ Navigate to <http://osmose.openstreetmap.fr> in the internet browser.
- ◆ Use the zoom, pan, and search features on the map to navigate to your area of interest.
- ◆ Use the left panel to toggle common issues on and off.
- ◆ Identified issues will appear in the map as pins matching the icons from the issues panel. Click on each pin to learn more about the object and associated issue(s).
- ◆ In Osmose, locate the 'Export' button at the top of the page. Click 'Export', then 'JOSM'.
- ◆ Fix the issues identified then re-upload to OSM.

OSMCHA

- ❖ The OpenStreetMap Changeset Analyzer is a tool designed to review uploads and changes to OSM data.
- ❖ This tool allows users to filter by username, location, dates of upload, and other metadata features.
- ❖ OSMCha is useful for monitoring the progress of data cleaning and upload teams.

The screenshot displays the OSMCha web interface. On the left, a list of changesets is shown, including:

- Huascaran1** (5 minutes ago): Added residential way. 74321395. 326 2 0.
- Snowdonian** (5 minutes ago): Created track way. 74321394. 28 1 0.
- archaictryee** (5 minutes ago): Added Sidewalk over railroad by OM. 74321393. 4 3 0.
- Chusovaya** (6 minutes ago): Aligned highways in this area. 74321392. 2 15 1.

The right side of the interface shows a detailed view of the selected changeset (74321392) by user jessbeutle. The details include:

- DETAILS**: Chusovaya (2762 edits) created 6 minutes ago. 2 15 1.
- #**: Aligned highways in this area. Translate.
- SOURCE**: Maxar Standard.
- EDITOR**: JOSM/1.5 (15238 en).
- IMAGERY**: Not reported.

The background shows a satellite map of an area with a yellow highlighted polygon around a building labeled 'Suwaqa Correctional and Rehabilitation Center' and a road labeled 'Queen Alia Airport Rd'. The interface includes navigation controls at the bottom and a URL: <https://osmcha.mapbox.com/changesets/74321392>.

OSMCHA

Step for using osmcha

- ◆ Navigate to <https://osmcha.mapbox.com> in the Google Chrome or Mozilla Firefox internet browser.
- ◆ To use OSMCha, you will need to sign in with your OpenStreetMap account and grant permission.
- ◆ Once logged in, a left-hand panel will appear with changesets. Each changeset shows:

OSM username

Time of upload

Changeset comment

Changeset ID

Flags (if any) - such as “Possible Import”

Number of ways added (highlighted in green), ways modified (highlighted in yellow), and ways deleted (highlighted in red)

With OSMCha, you can create highly focused filters to monitor you and your team’s contribution to OSM. Clicking on ‘Filters’ on the left-hand panel will open the Filters menu

◆ Click 'Filters' on the left-hand panel.

◆ Set filters for:

Start Date: 01/01/19

Your username

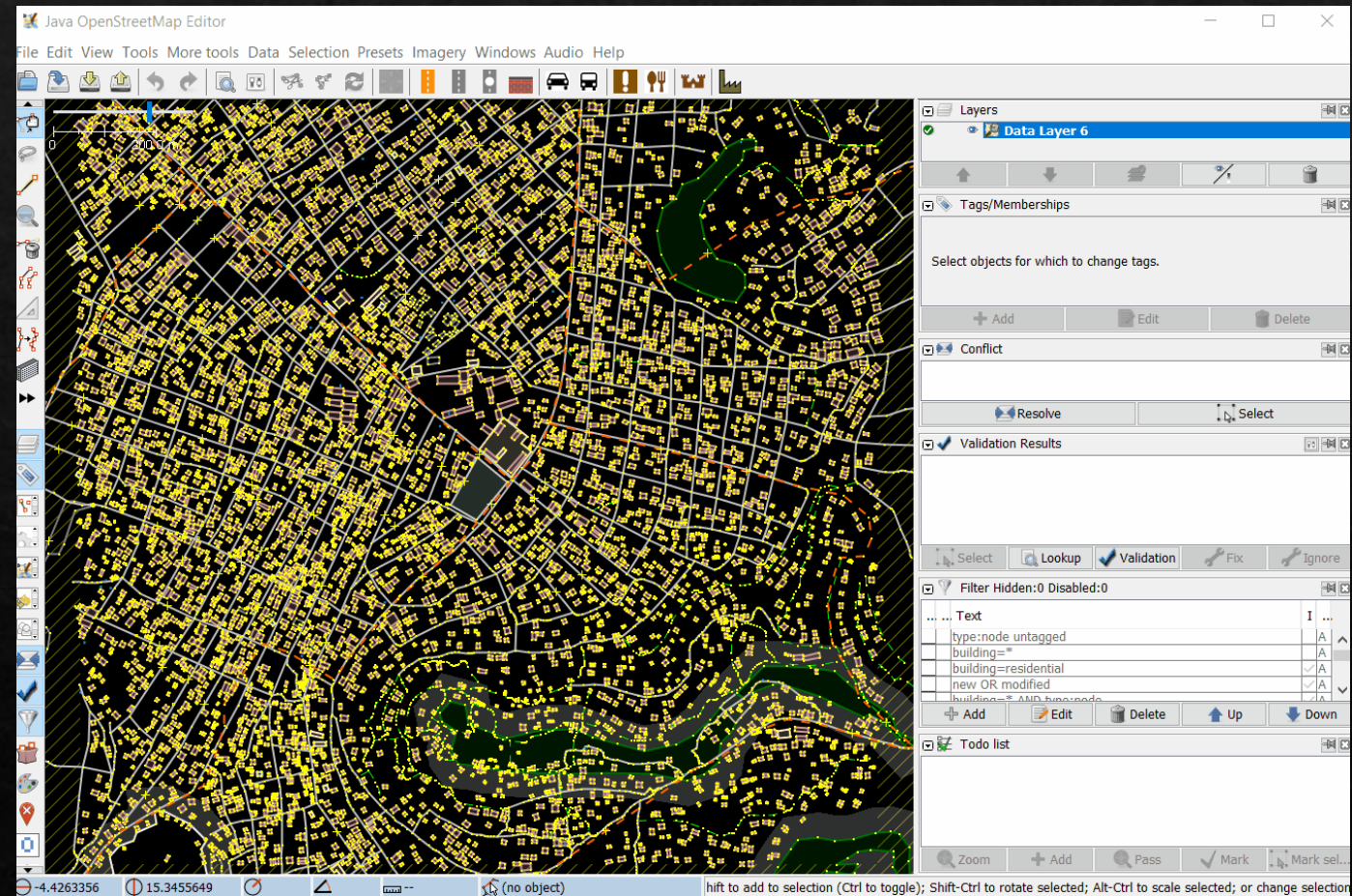
A location

One additional filter

Click apply.

JOSM VALIDATION

- ◆ JOSM 's built-in validation tool that checks for common errors and inconsistencies in OSM data relating to both geometry and tagging.



Nominatim QA

- ◆ A quality assurance tool which helps to improve the OpenStreetMap data quality by extracting suspect data from the Nominatim database

Nominatim QA

Layers:

- Suspicious addr:street tag
- addr:housenumber with no digit
- addr:place vs addr:street
- duplicate label role
- Bad interpolation line
- no admin level
- Unusual Postcode Format
- duplicate wikidata id
- addr:* tags on non-addressable places
- place nodes close

osm-search/Nominatim-Data-Analyser

- ❖ Step for using this tool:
- ❖ Navigate to <https://nominatim.org/qa/#map>
- ❖ Klik on left screen for choose issue and read instruction
- ❖ Choose issue on map and click edit by josm/osmid

Nominatim QA

Layers:

Suspicious addr:street tag

Description of the layer:

This view shows addresses where the addr:street tag differs from the name of the street that Nominatim has assigned to the address. There are three different reasons that this happens: 1) there is a typo in addr:street or the street name. 2) The addr:street part does not refer to a street at all but to a place (village, hamlet, area). 3) Road is not mapped yet near address (or its name is missing)

Why are these data wrong:

1. The addr:street tag should have exactly the same name as the street.
2. addr:street must only be used when the house number is attached to an existing street nearby.

How to fix these errors:

1. Check if there is a typo in the addr:street tag or in the name of the street and fix it.
2. If addr:street refers to a place, use change it to addr:place.
3. If road is missing, map it

Last update of the layer:

2024-11-17 02:01:14 UTC

Reference

- ◇ https://wiki.openstreetmap.org/wiki/Quality_assurance#:~:text=Quality%20Assurance%20tools%20help%20lead,and%20fix%20using%20editing%20tools.
- ◇ <https://github.com/hotosm/toolbox/wiki>
- ◇ [Hot osm qa assurance](#)