



Open Parcel Number USA

Sponsors of Universal Common Parcel Indexing

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UCPI WHITE PAPER

Universal Common Parcel Indexing (UCPI) is an [Open Geospatial Consortium](#) compliant, non-proprietary, international standard Parcel ID assignment resource that can benefit statewide parcel map maintenance and operation in two ways.

1) **Silo Elimination.** Automatically Joins Land Record Data Sets with no Common Indexing WHEN NEEDED on the Fly.

2) **Change Management.** Completes map updates with a

- **CHANGE MAP** displaying every lot split/join/adjust/owner change since last update.
- **LEGACY OPN TABLE**, an eternal archive of same regarding change type, date, before/after area.

States sharing their UCPI Subscription with their Counties lowers Quality Assurance labor cost while increasing quality, easier, more frequent updating of the statewide map, good for Counties, State and all the rest. Change Monitoring and Management by both is not yet Imaginable. No Silos to Kill? Automate Joining Data Sets with no common indexing in Minutes, not Months.

PROBLEM

Highly Constrained Interoperability. Unlike people (SSN) or cars (VIN), land parcels have no universally recognized ID. Until UCPI, linking real estate records is time-consuming, proprietary, and error prone.

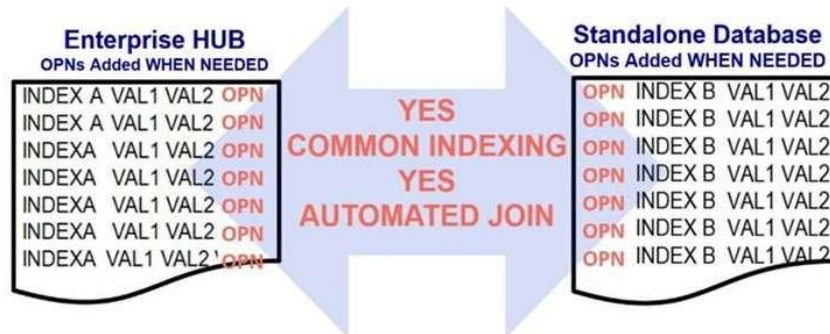


No Change Management. No Way to track Lot Splits, Joins and Adjustments since last UPDATE or over time.



SOLUTION

Greatly Enhanced Interoperability. Land-related data hubs and record sets are linked instantly by adding on-the-fly WHEN NEEDED non-proprietary, and perpetually current OPNs to both followed by a OPN-OPN Join.



Added Change Management. Total Archival of all Lot Splits, Joins, Adjustments and Owner Change from one UPDATE to the next

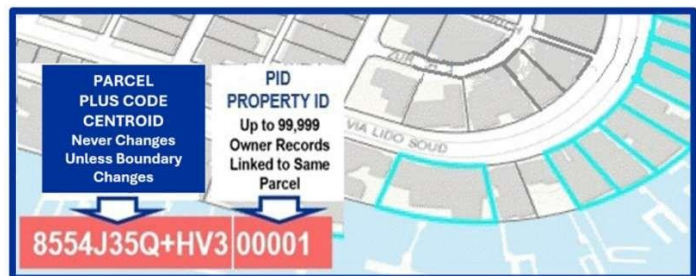


HOW IT WORKS

OPN DATA STRUCTURE

Locational Component.

Parcel Centroid - Plus Code derived by open-source Open Location Code. It changes every time a parcel boundary is split, joined or adjusted.



Property ID [PID] Component

Five-character extension that links parcel boundaries to multi-interest ownership records and other citations to be determined.



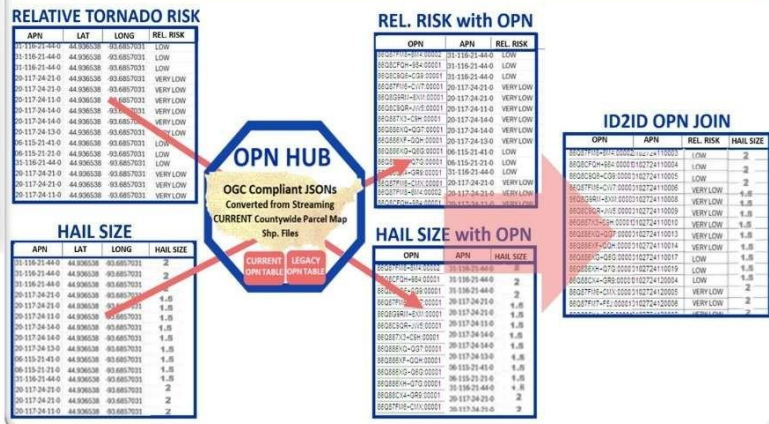
WHAT IT DOES

The interface includes sections for 'STANDALONE DATA' with buttons for 'SELECT LOCAL INPUT DATA FILE', 'SELECT APN FIELD', 'POINT IN PARCEL LAT', 'POINT IN PARCEL LONG', 'TORNADO RISK', and 'HAIL SIZE'. It also features a 'TUTORIAL' sidebar with instructions on how to use the software.

- Data Joining WHEN NEEDED on-the-fly
- Easily Select Data Sets
- Map Point-in-Parcel Fields
- HUB Returns / Assigns Pertinent OPNs
- OPN 2 OPN Join Follows
- HUB is Always CURRENT. Work is CURRENT
- No Data Silos? Join Tables Together, Minutes, not Months

SILO ELIMINATION

INSTANTLY JOIN LAND RECORD DATA SETS TOGETHER



CHANGE MANAGEMENT

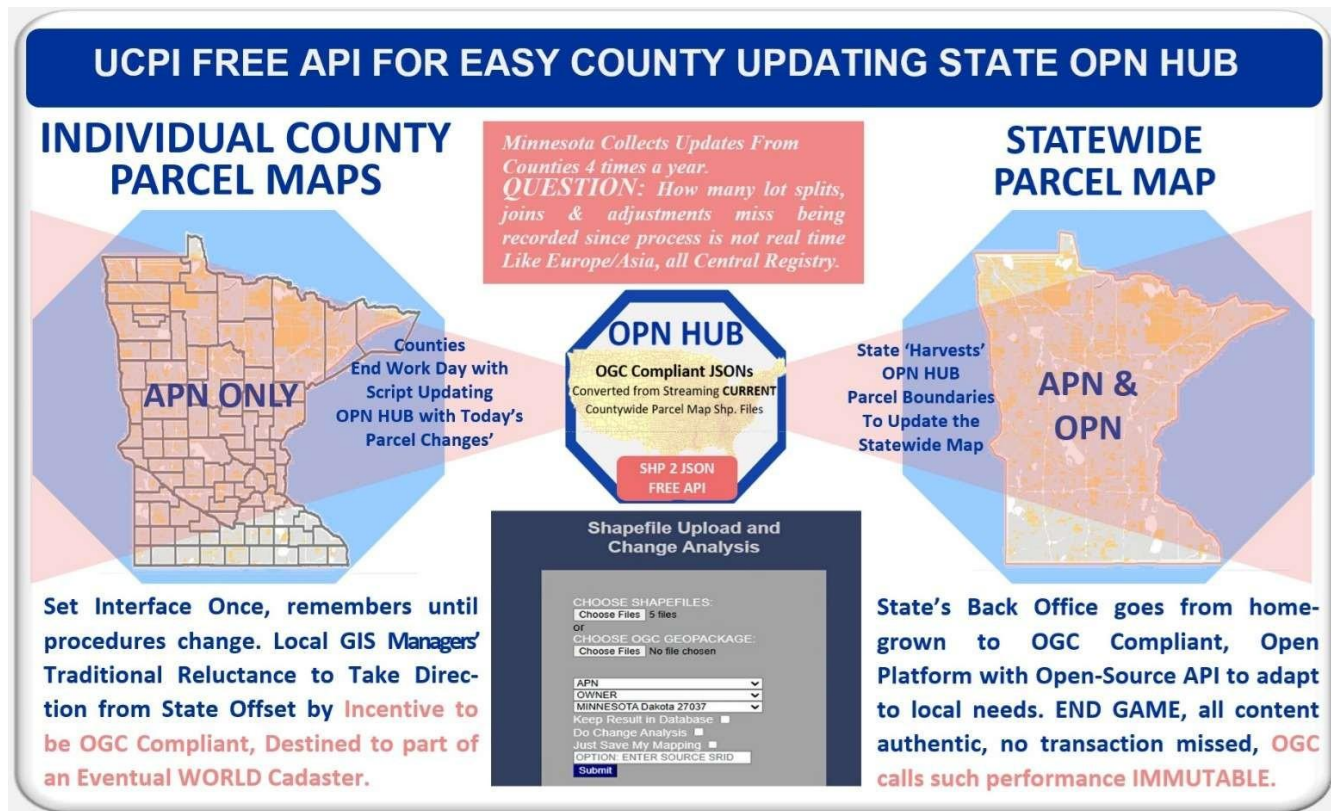
- All Counties** Counties Stream Property Information to the OPN-HUB
- All States** States Eliminate Data Silos and Enable Real Time County Updates With Less Labor, Greater Quality
- FEDERAL** States and Federal Agencies work together to eliminate Data Silos



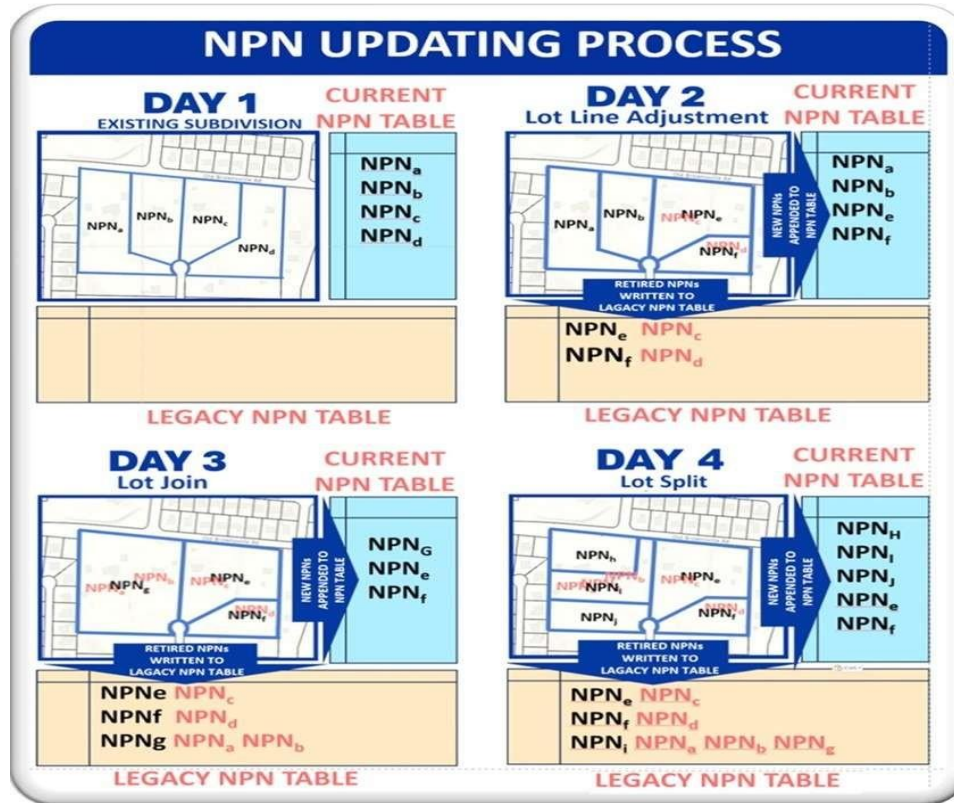
As parcels are updated, OPNs assigned to **CURRENT JSONs** compared to OPNs assigned to **prior JSONs** instantly yields **all with no match**, writing these changes to the **LEGACY OPN TABLE**, archiving by time and type every lot split, join, adjustment and/or Owner Change. With UCPI processing just being a tweak in their updating scripts, Counties can be incented to post daily to reduce ANY possibility of two or more changes occurring to the same parcel since the last update. With elimination of this last possible hiccup, combined with the seamless flow between the legislative data sponsor, 'counties' and the rest of the world, [State being just one OPN HUB user], upon UCPI adoption by all 50 States, the American Cadaster meets OGC's highest data purity acclaim - **IMMUTABLE**.

Cooperating Data Partners and End Users can generate OPNs for their data from any Point-in-Parcel Lat Long for any selected parcel. By default, you always get the most current OPN since the OPN HUB is always CURRENT. Your work is always CURRENT.

COUNTIES KEEP STATE/NATIONAL OPN HUB CURRENT REAL TIME



UPDATING PROCESS



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YEAR 1. Imagine only four parcels in America.

YEAR 2. Lot line adjustment creates 2 new OPNs
Written to CURRENT OPN TABLE.

Two OPNs no longer centroid of any CURRENT
Parcel are written to **LEGACY OPN TABLE**.

Ditto Lot SPLITS and JOINS.

ON DAY 2, Service A updates parcel map Changing **LEGACY OPN TABLE**.

2 Months Later, **Service B** does same, causing
different OPNs to be in play for 60 Days.

UNAVOIDABLE. No way for both to update at same time.
Service must be a consortium that serves the entire market

LEARN MORE

<https://youtu.be/FTuCGR5gbvs>

Call us to arrange a time for Real Time DEMONSTRATION of how **UCPI** can quickly make your state March 20 Executive Order compliant by easily eliminating internal data Silos as well as attaining interoperability with federal databases, soon also to be UCPI compliant. We are seeking States partners to discover in real time the benefits UCPI offers States. Come to Kill Silos. Stay for lower cost, higher quality, Data Updating and Change Management by your Counties. No Silos to Kill? Minutes, not Months, to Join ANY Data Sets Together with no common indexing on-the-fly WHEN NEEDED.

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