QALOCATE™

Platform Overview

Telescopic Granularity™

	Building	Polygonal Area
Computer Identifier	StructureLocator™	GeohashPolygon™
Human Descriptive	LNS™	LNS™ or GeohashPhrase™

<u>The Critical Distinctions:</u>

1. **Human-vs-Computer** - Ensure what is precise and concisely optimal for a computer isn't needed by a clumsy and forgetful human (i.e. remembering a serial number is a severe challenge). And ensure what is fuzzy and redundantly optimal for a human isn't

needed by the easily confused idiot savant computer (i.e. computer cannot reliably equate "Drive" and "Dr" mean precisely the same thing).

2. **Structure-vs-Region** - One points to a (semi-permanent) solid object in reality and the other points to an area.

3. **Telescopic Granularity** - Both the structure and then region mechanisms use a nesting strategy to allow for greater and greater precision. This enables near infinite levels of specification refinement.

4. **Axiomatic Baseline** - Because the core design is philosophically well defined, all other location encoding schemes can be translated to this system retaining their level of accuracy via the Universal Location Translator.

Glossary of Terms:

- **StructureLocator™** - A mechanism for pointing to a structure (ex: building or parking lot) and its related subunits (apartments or suites for a building, spaces for a parking lot)

- **Geohash** - An excellent high speed exact character encoding of a longitude+latitude value. It is the preferred method of storing a database value, but is terrible for human consumption and recall. Here is a 5m Youtube video which visually describes it using Google Maps.

- **GeohashPhrase™** - A method for encoding a Geohash value using natural human language in both individual words as well as facilitating an actual valid complete sentence.

- **GeohashPolygon™** - A method of using a Geohash as a "pixel" to then define irregular regions with a list of Geohash values of the same length (granularity). Enables a "spatial lookup" without requiring the use of a spatial data engine (server) from ESRI, PBSI, etc.

- **LNS™** - Location Naming System. Similar to the DNS (Domain Name System), it enables attaching a custom value (ex: contact@qalocate.com) to either an StructureLocator (building) or to a GeohashPolygon (region). By enabling the dynamic resolution of a location by a name at the instant it is needed, it facilitates preventing computer systems and databases from going out of sync if/when a person moves from residence to residence, from company to company, etc.