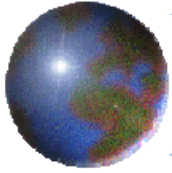
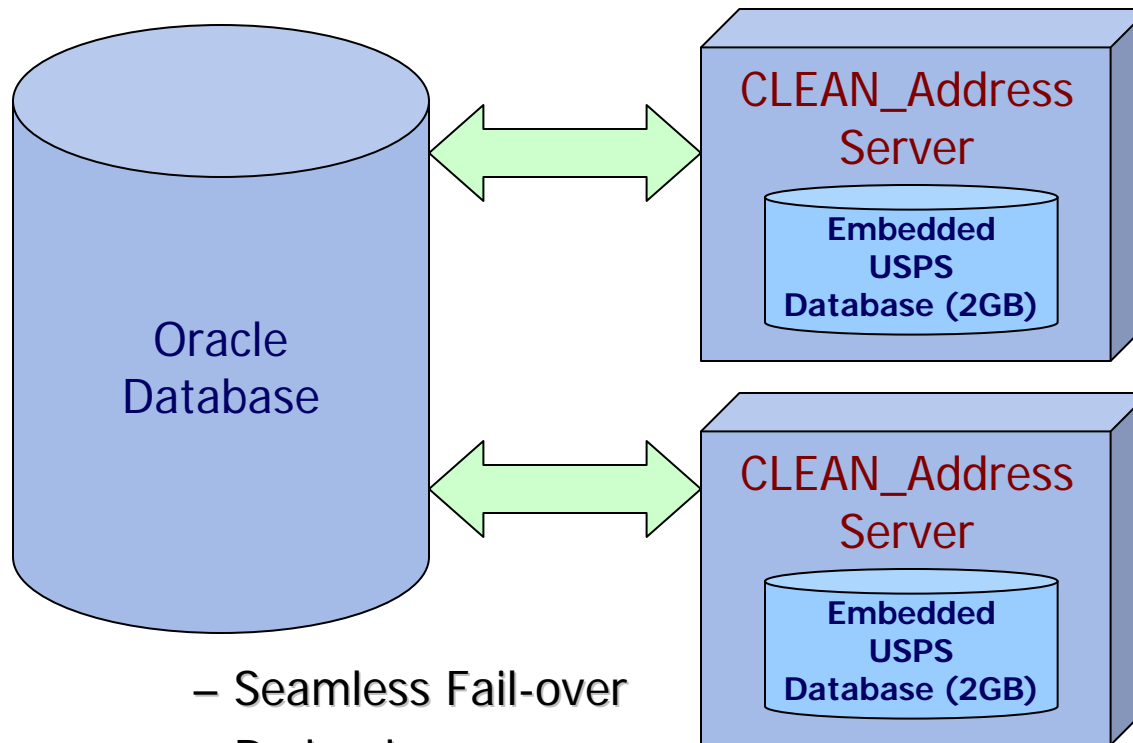


# CLEAN\_Address Architecture

- CLEAN\_Address has an Enterprise Service Oriented Architecture
  - CLEAN\_Address server connects to database on back-end
  - Clients do not connect to CLEAN\_Address server directly
- Enterprise Architecture
  - Seamless Fail-over
  - Redundancy
  - Load Balancing
  - Scalability
  - Oracle RAC (Real Application Clusters)
- Centralized Architecture
  - **SOA** – Service Oriented Architecture
  - Multiple databases can be supported from one CLEAN\_Address server installation
  - I.e. Development, Test, Production



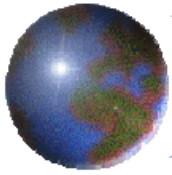
# Enterprise Architecture



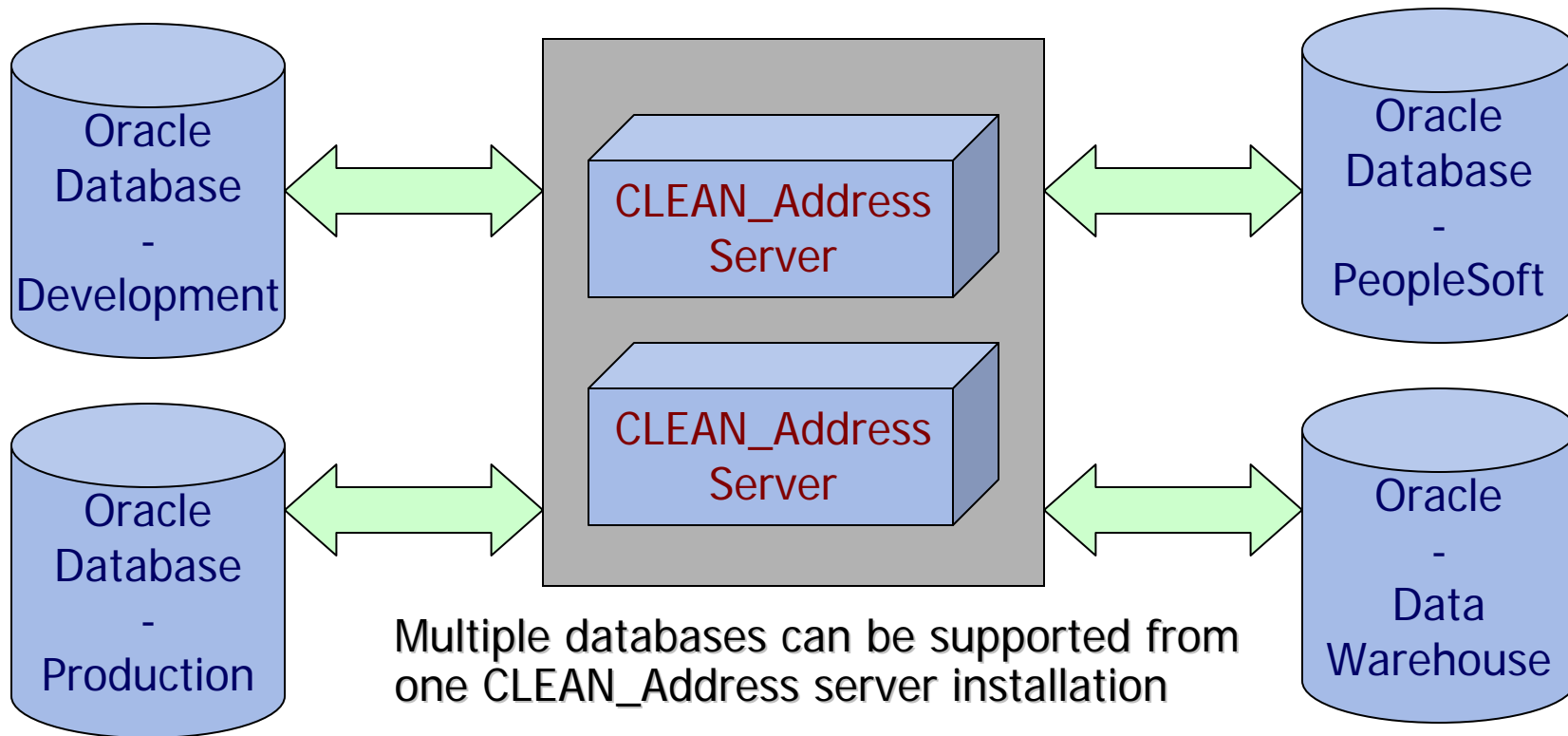
- Seamless Fail-over
- Redundancy
- Load Balancing
- Scalability
- 100% Availability

## O/S Platforms:

- Windows
- Linux
- Solaris
- AIX
- HP-UX

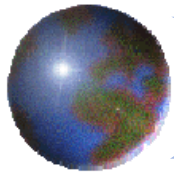


# Centralized Architecture

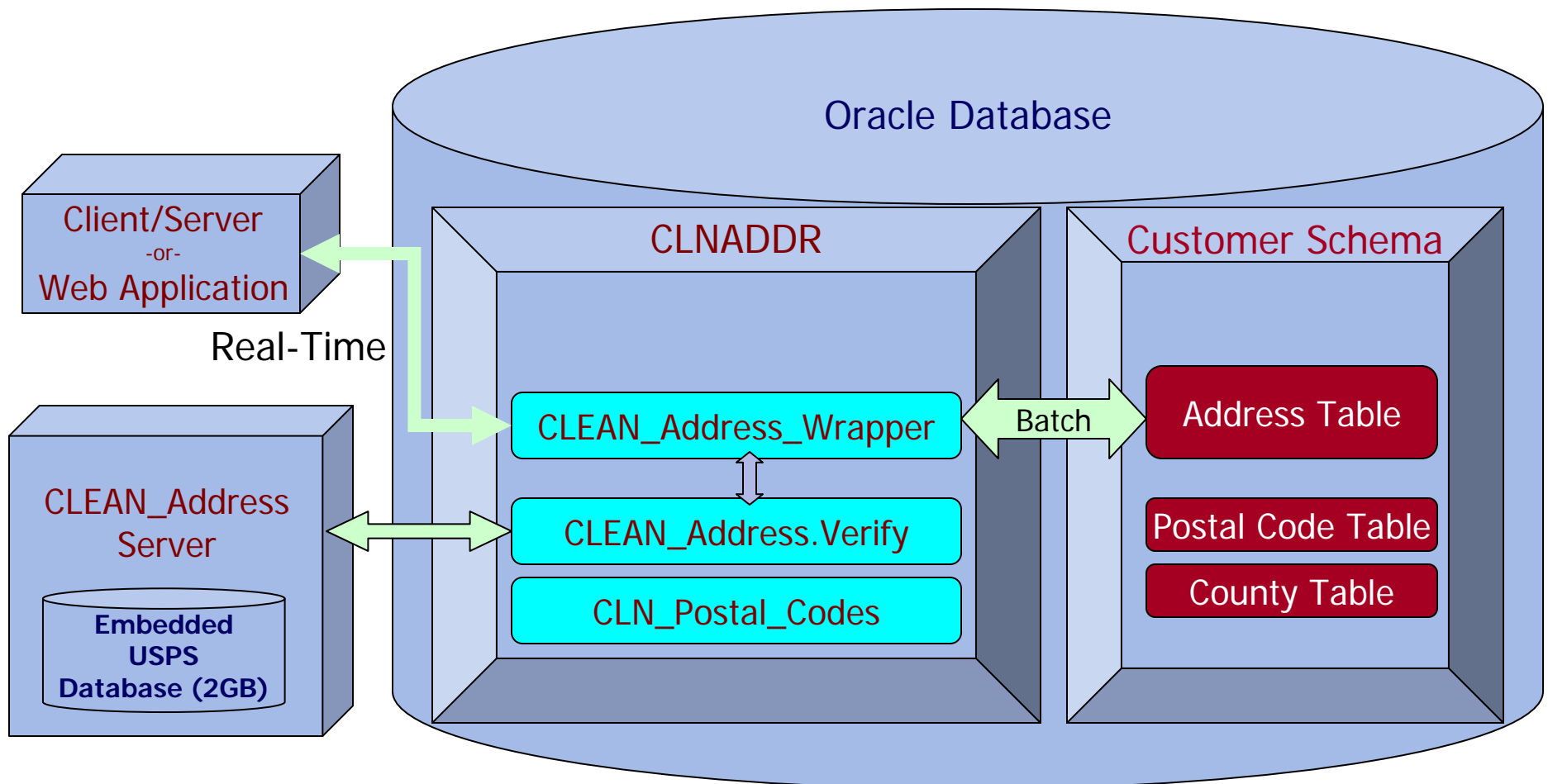


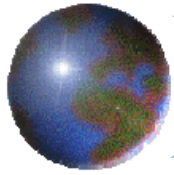
Multiple databases can be supported from one CLEAN\_Address server installation

- Address Verification Servers supply a service to any Oracle database that needs them
- USPS data is updated centrally on the CLEAN\_Address server every 2 months



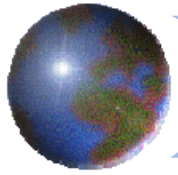
# Database Architecture



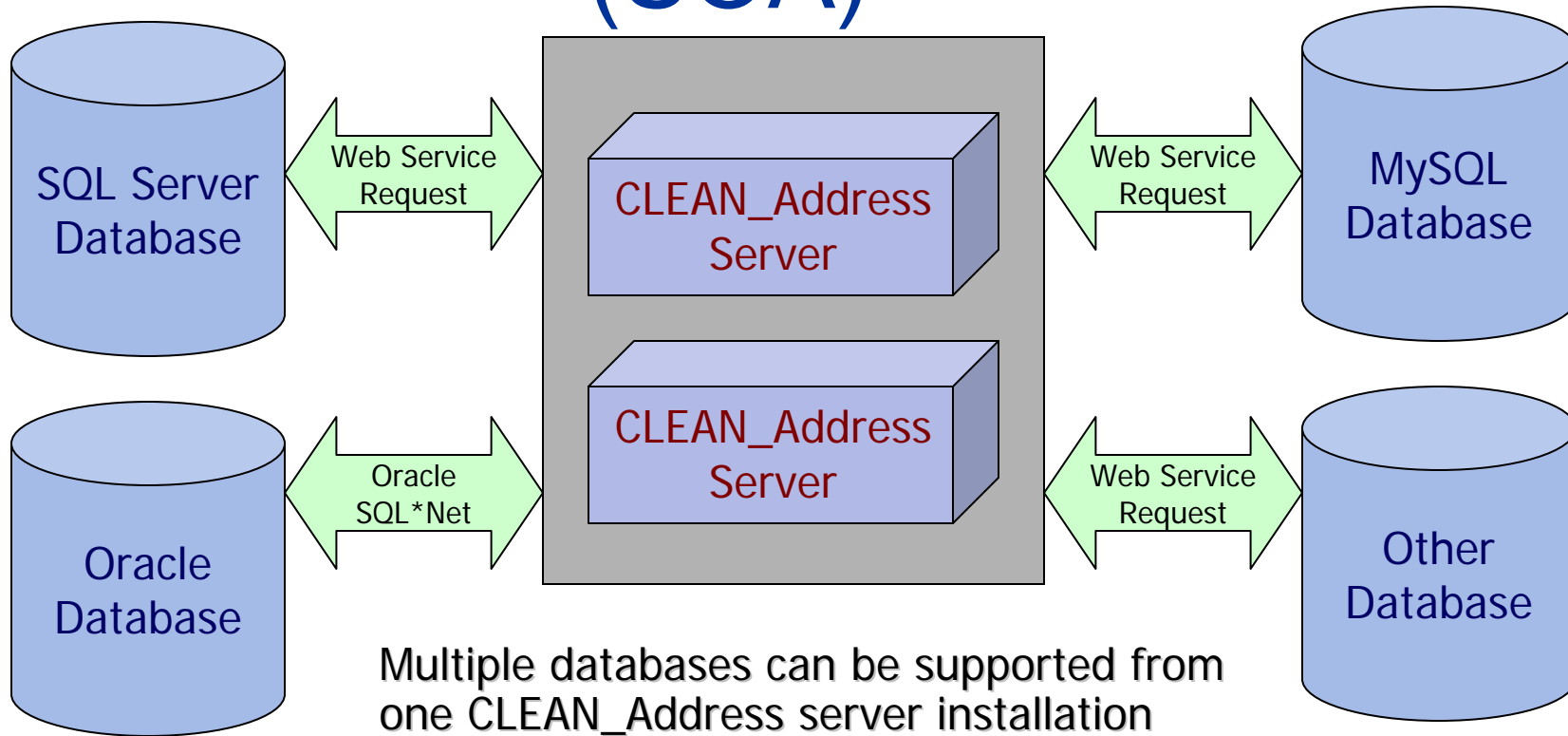


# CLEAN\_Address Web Service Architecture

- CLEAN\_Address has a Web Service based Service Oriented Architecture (SOA)
  - Multiple databases or users can be supported from one or more CLEAN\_Address server installations
    - Oracle - Direct database connection using SQL\*Net
    - Web Service connection – supports any application or database



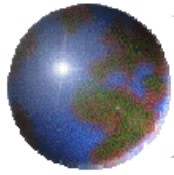
# Service Oriented Architecture (SOA)



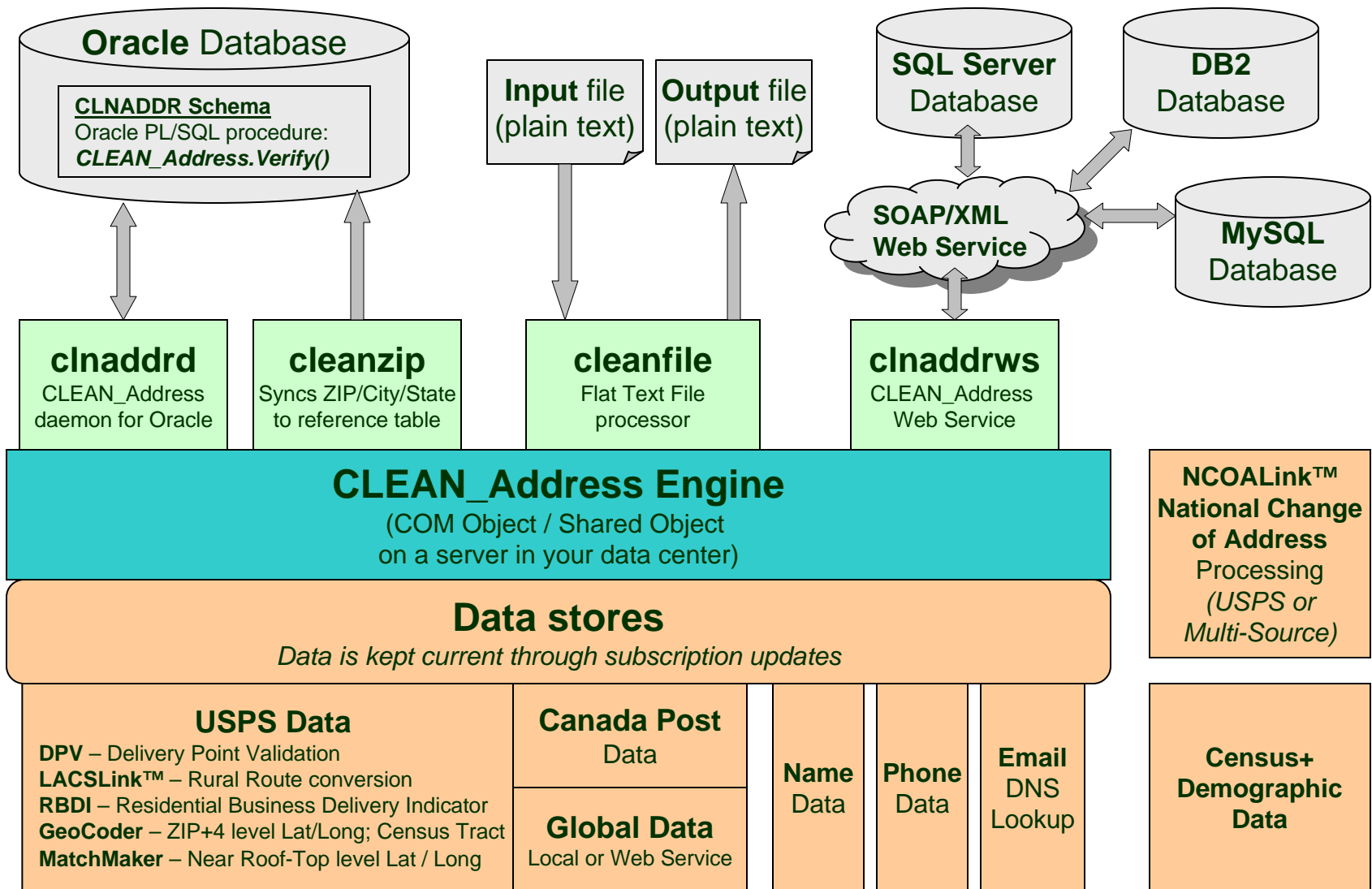
Multiple databases can be supported from one CLEAN\_Address server installation

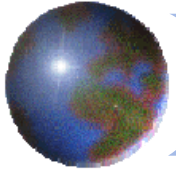
SOA - Service Oriented Architecture

– Address Verification Servers are supplied as a service to any database that needs them



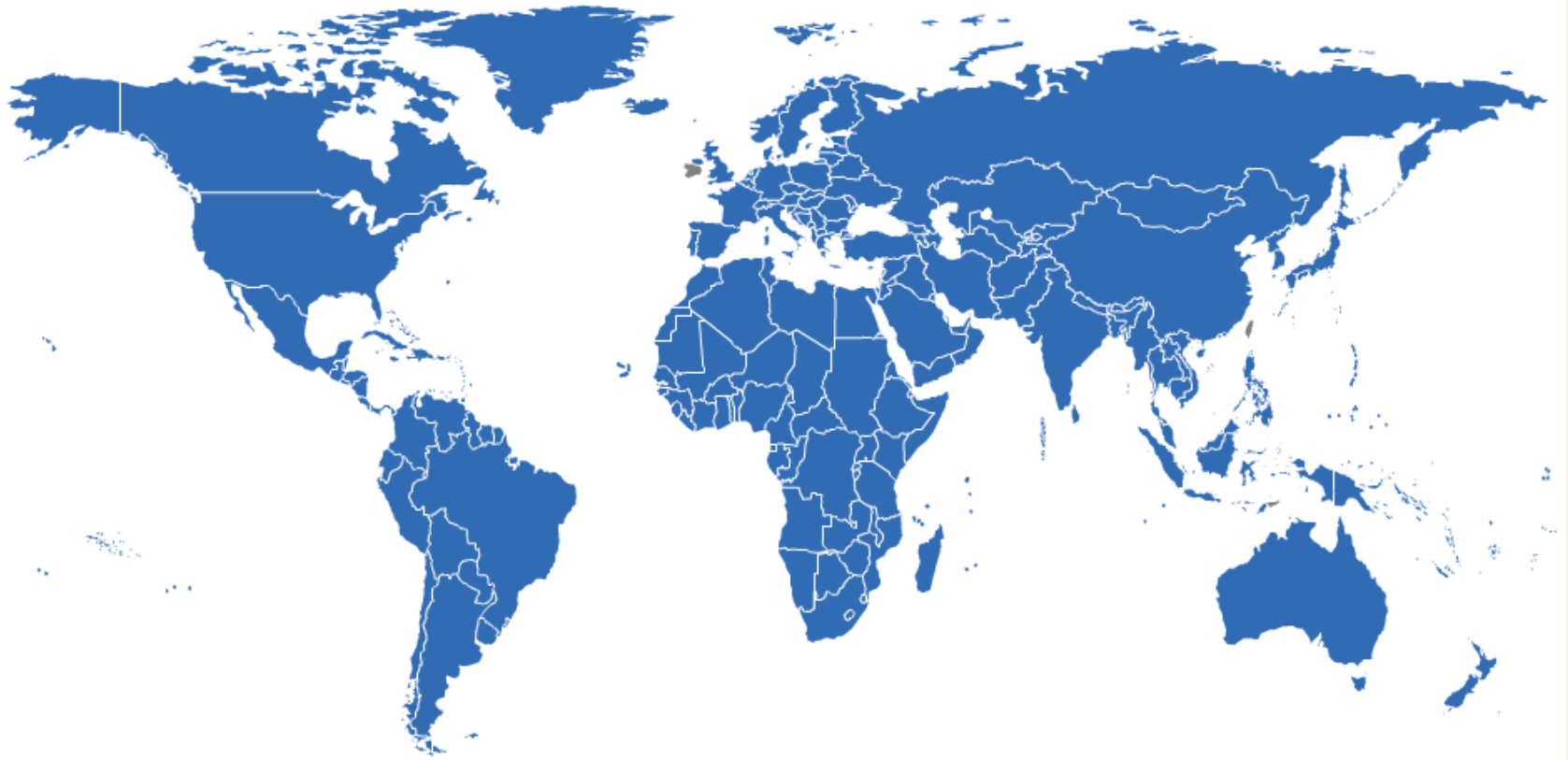
# CLEAN\_Address Suite Architecture

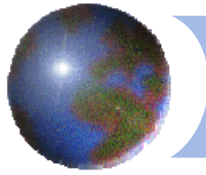




# International Address Verification

- Supports 240 Countries and Territories





# International Country List

Afghanistan	Cambodia	France	Jordan	Montserrat	Saint Helena	Syrian Arab Republic
Åland Islands	Cameroon	French Guiana	Kazakhstan	Morocco	Saint Kitts and Nevis	Taiwan
Albania	Canada	French Polynesia	Kenya	Mozambique	Saint Lucia	Tajikistan
Algeria	Cape Verde	French Southern Territories	Kiribati	Myanmar	Saint Pierre and Miquelon	Tanzania, United Republic of
American Samoa	Cayman Islands	Gabon	Korea, Democratic People's Republic of	Namibia	Saint Vincent and the Grenadines	Thailand
Andorra	Central African Rep.	Gambia	Korea, Republic of	Nauru	Samoa	Timor-Leste
Angola	Chad	Georgia	Kuwait	Nepal	San Marino	Togo
Anguilla	Chile	Germany	Kyrgyzstan	Netherlands	Sao Tome and Principe	Tokelau
Antarctica	China	Ghana	Lao, People's Dem. Rep.	Netherlands Antilles	Saudi Arabia	Tonga
Antigua and Barbuda	Christmas Island	Gibraltar	Latvia	New Caledonia	Senegal	Trinidad and Tobago
Argentina	Cocos Islands	Greece	Lebanon	New Zealand	Serbia and Montenegro	Tunisia
Armenia	Colombia	Greenland	Lesotho	Nicaragua	Sierra Leone	Turkey
Aruba	Comoros	Grenada	Liberia	Niger	Singapore	Turkmenistan
Australia	Congo	Guadeloupe	Libyan Arab Jamahiriya	Nigeria	Slovakia	Turks and Caicos Islands
Austria	Congo, Dem. Rep.	Guam	Liechtenstein	Niue	Slovenia	Tuvalu
Azerbaijan	Cook Islands	Guatemala	Lithuania	Norfolk Island	Solomon Islands	Uganda
Bahamas	Costa Rica	Guinea	Luxembourg	Northern Mariana Islands	Somalia	Ukraine
Bahrain	Côte d'Ivoire	Guinea-Bissau	Macau	Norway	South Africa	United Arab Emirates
Bangladesh	Croatia	Guyana	Macedonia	Oman	South Georgia and the South Sandwich Islands	United Kingdom
Barbados	Cuba	Haiti	Madagascar	Pakistan	Spain	United States
Belarus	Cyprus	Heard Island & McDonald Islands	Malawi	Palau	Sri Lanka	United States Minor Outlying Islands
Belgium	Czech Republic	Holy See	Malaysia	Palestinian Territory	Sudan	Uruguay
Belize	Denmark	Honduras	Maldives	Panama	Suriname	Uzbekistan
Benin	Djibouti	Hong Kong	Mali	Papua New Guinea	Svalbard and Jan Mayen	Vanuatu
Bermuda	Dominica	Hungary	Malta	Paraguay	Swaziland	Venezuela
Bhutan	Dominican Republic	Iceland	Marshall Islands	Peru	Sweden	Viet Nam
Bolivia	Ecuador	India	Martinique	Philippines	Switzerland	Virgin Islands, British
Bosnia and Herzegovina	Egypt	Indonesia	Mauritania	Pitcairn		Virgin Islands, U.S.
Botswana	El Salvador	Iran, Islamic Republic of	Mauritius	Poland		Wallis and Futuna
Bouvet Island	Equatorial Guinea	Iraq	Mayotte	Portugal		Western Sahara
Brazil	Eritrea	Ireland	Mexico	Puerto Rico		Yemen
British Indian Ocean Territory	Estonia	Israel	Micronesia, Fed. States	Qatar		Zambia
Brunei Darussalam	Falkland Islands	Italy	Moldova, Republic of	Réunion		Zimbabwe
Bulgaria	Faroe Islands	Jamaica	Monaco	Romania		
Burkina Faso	Fiji	Japan	Mongolia	Russian Federation		
Burundi	Finland			Rwanda		