

BR_Spatial – Spatial Services

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SCOPE

This provides services associated with Location-related data values.

Some examples are:

- Conversion of higher levels of location name elements to and from standard abbreviations, typically names of states, provinces, counties, countries, etc (e.g. NJ to New Jersey)
- Conversion to and from standard country grid codes to latitude and longitude
- Conversion between different units of length and area
- Computing the distance between 2 latitude and longitude locations
- Provide latitude and longitude values for location name elements that have large areas (used for plotting on maps), e.g. Paris, France

ACTIONS: On request, with a context provided, perform the following:

1. Convert a standard location abbreviation to its full form
2. Convert a location name to its standard abbreviation
3. When provided with 2 sequential location name elements, complete the other fields in the containing final element
4. Convert from Lat/Long in decimal degrees to degrees, minutes, seconds
5. Convert from degrees, minutes, seconds to Lat/Long in decimal degrees
6. Calculate the distance between 2 Lat/Long values in decimal degrees
7. Convert from a National Grid coordinate to Lat/Long in decimal degrees
8. Convert from Lat/Long in decimal degrees to a National Grid coordinate.

USED BY:

Spatial Tools

1. Needs details

DATA UNDER CONTROL OF THIS MODULE

1. Needs details

REQUIRED EXTERNAL DATA UNDER CONTROL OF ANOTHER MODULE

1. Needs details

REQUIRED SERVICES

1. Needs details

APPLICATION PROGRAMMING INTERFACE (API)

1. Needs details

WARNING CONDITIONS

1. Need details of the condition that raised the warning, example message and possible next steps.

ERROR CONDITIONS

1. Need to record the condition that raised the error, example message and possible next steps.