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YANG geo-location

draft-chopps-netmod-geo-location-01

Update From -01

- -02
 - Made all nodes optional
 - Fixed tree diagram (don't delete "grouping" label)
- Solicited and received expert feedback
 - Added 'valid-for' node
 - Made coordinate-accuracy apply to 'z' as well as 'x' and 'y' of Cartesian coordinates ('z' was incorrectly using 'height-accuracy')
 - Fixed W3C comparison of heading/speed to velocity vector.
 - Removed degrees typedef, just use units and inline decimal64 definition uniformly

Old Grouping

```
+-- geo-location
  +-- reference-frame
    | +-- alternate-system?   string {alternate-systems}?
    | +-- astronomical-body? string
    | +-- geodetic-system
    |   +-- geodetic-datum?   string
    |   +-- coord-accuracy?   decimal64
    |   +-- height-accuracy?  decimal64
  +-- (location)
    | +--:(ellipsoid)
    | | +-- latitude         degrees
    | | +-- longitude        degrees
    | | +-- height?          decimal64
    | +--:(cartesian)
    |   +-- x                 decimal64
    |   +-- y                 decimal64
    |   +-- z?                decimal64
  +-- velocity
    | +-- v-north?           decimal64
    | +-- v-east?            decimal64
    | +-- v-up?              decimal64
  +-- timestamp?            types:date-and-time
```

New Grouping

```
+-- geo-location
  +-- reference-frame
    | +-- alternate-system?    string {alternate-systems}?
    | +-- astronomical-body?  string
    | +-- geodetic-system
    |   +-- geodetic-datum?    string
    |   +-- coord-accuracy?    decimal64
    |   +-- height-accuracy?   decimal64
  +-- (location)?
    | +--:(ellipsoid)
    | | +-- latitude?         decimal64
    | | +-- longitude?       decimal64
    | | +-- height?          decimal64
    | +--:(cartesian)
    |   +-- x?                decimal64
    |   +-- y?                decimal64
    |   +-- z?                decimal64
  +-- velocity
    | +-- v-north?            decimal64
    | +-- v-east?             decimal64
    | +-- v-up?               decimal64
  +-- timestamp?              types:date-and-time
  +-- valid-for?               uint64
```

Next Steps

- Publish changes
- WGLC

Questions and Comments
