University of New Hampshire

Binding Specific Concepts to Generic Concepts

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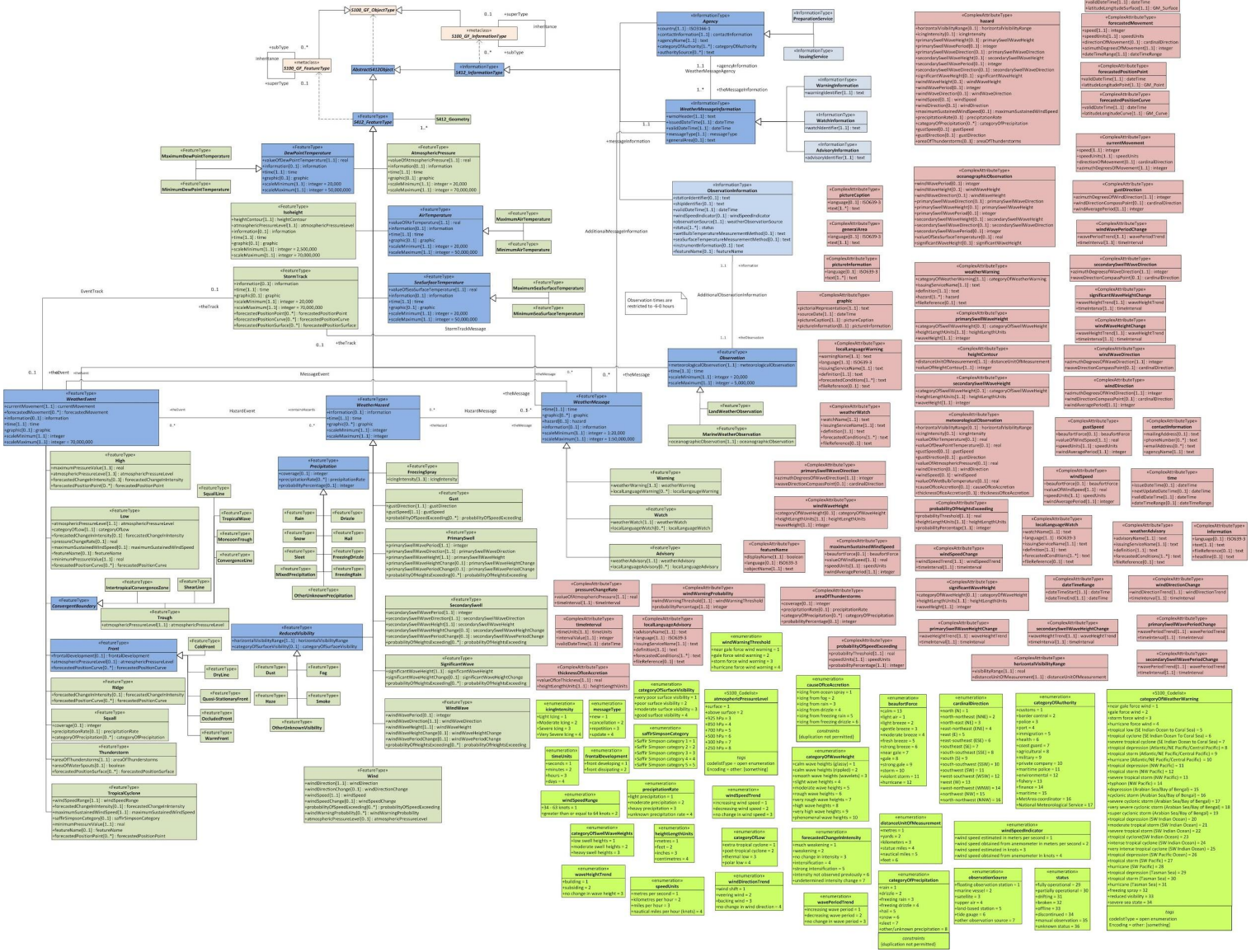
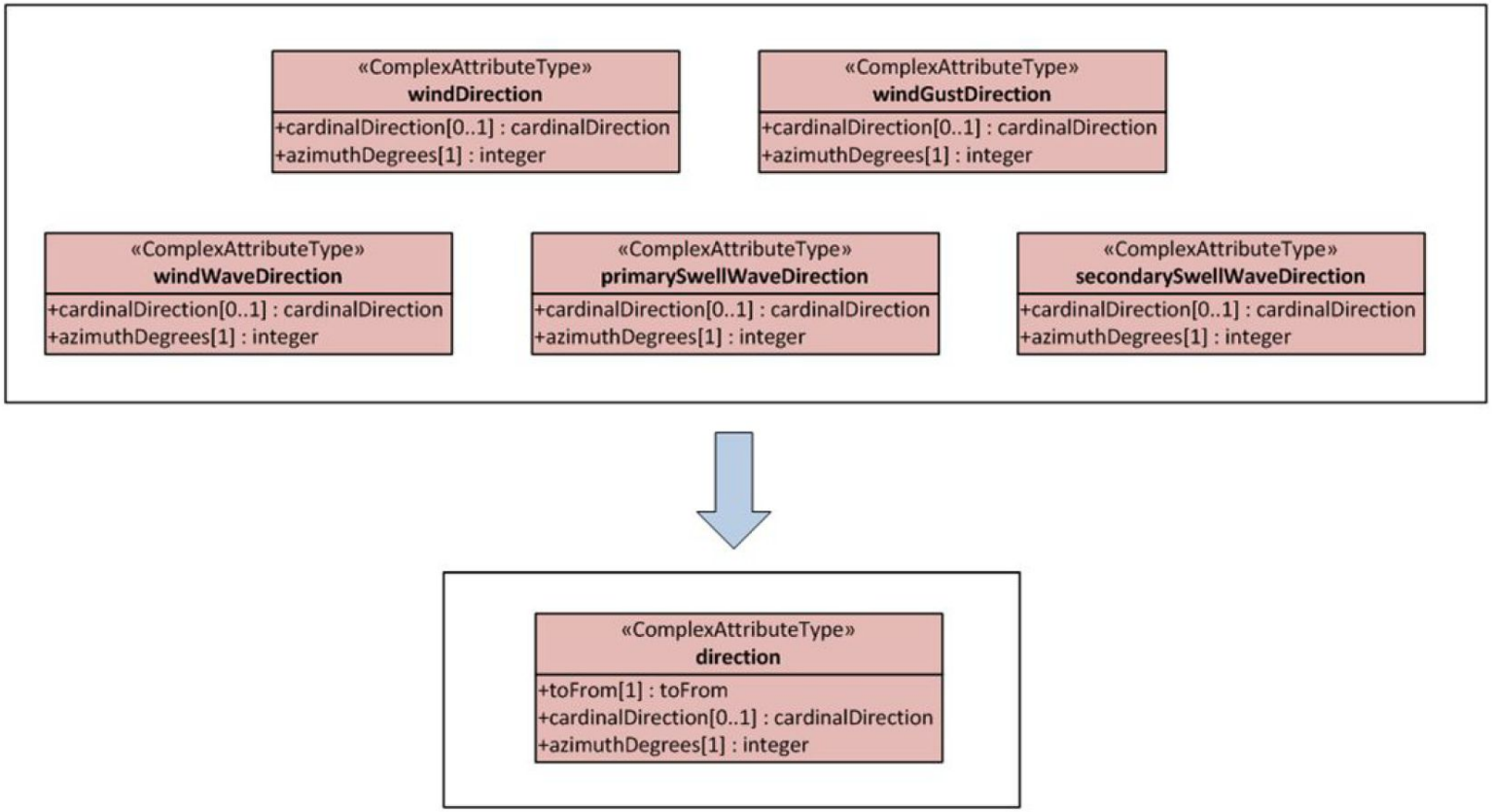
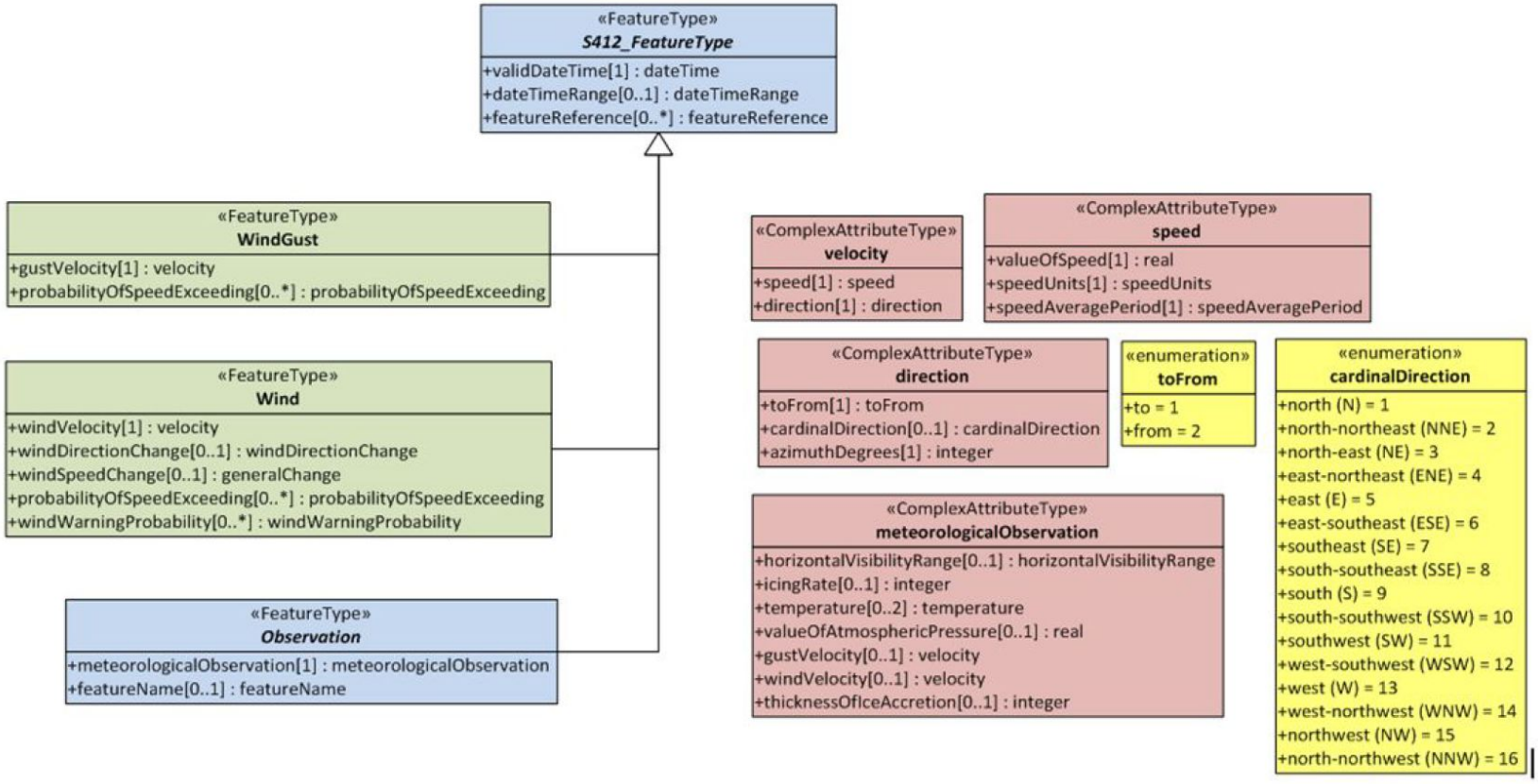
S-412 Original Data Model



Duplicate attribute sets can be simplified



Another Example



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Registry concerns

There are 22 separate instances in the registry:

DISTANCE

"a numerical description of how far apart two objects are."

measuredDistance:
waterwayDistance:
distanceOfImpactUpstream:
distanceOfImpactDownstream:
distanceFromNoticeMarkSecond:
distanceFromNoticeMarkFirst:
soundingDistanceMinimum:
soundingDistanceMaximum:
horizontalClearanceLength
sectorLineLength
waveLengthValue
verticalLength
horizontalLength
maximalPermittedLength
lengthRangeValue1*
lengthRangeValue2*
height leadMinWidth
leadMaxWidth
iceLeadWidth
horizontalWidth
horizontalClearanceWidth

Possible Issue and previous discussion

more complex, it adds another attribute

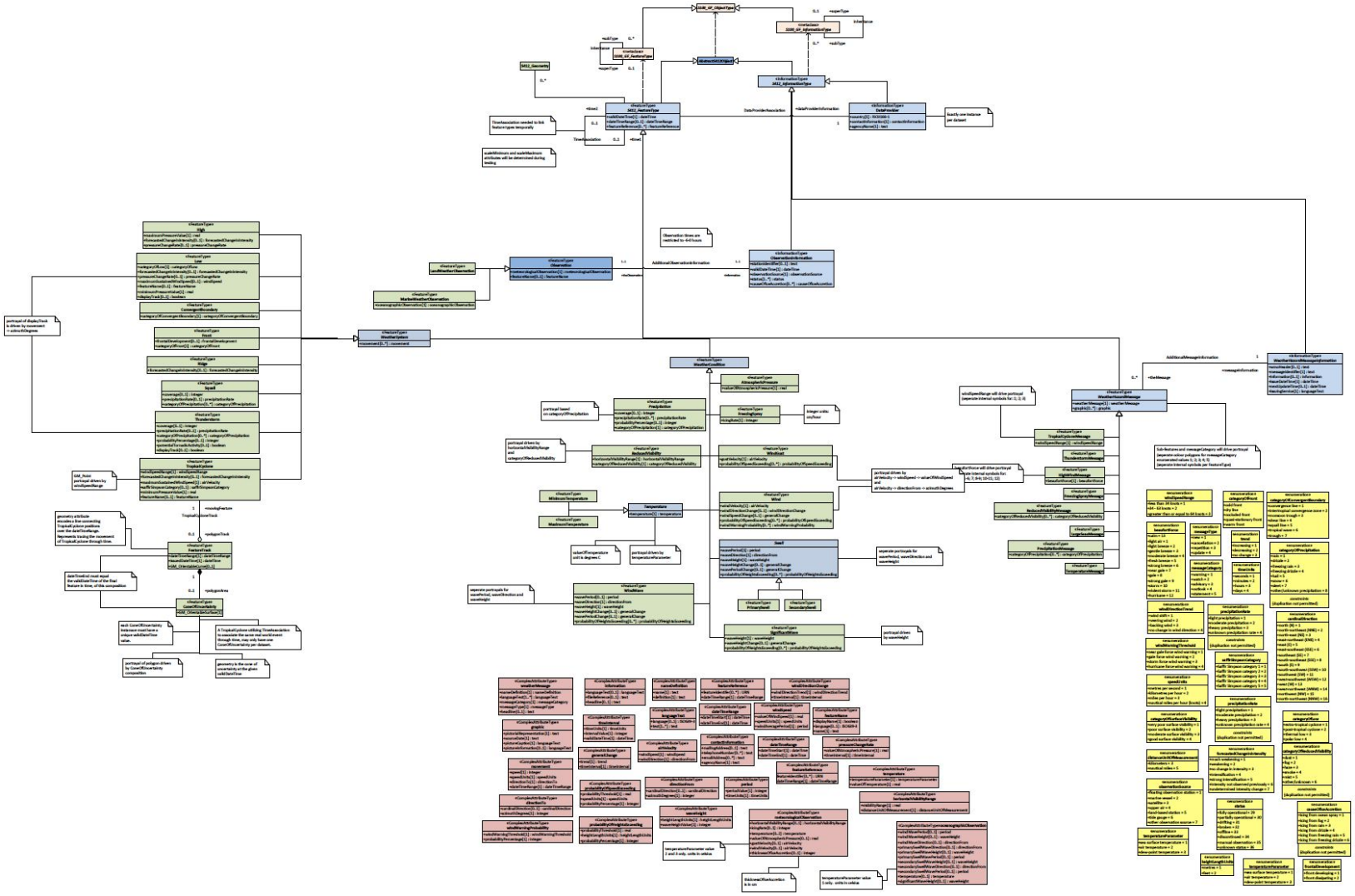
(another two, if you define a complex attribute as a 'container' for distance and distanceType).

Although it was agreed the principle is a better way of modelling the real world,

there is the reality that changing it now could hold up current product specification development.

It was confirmed that it would be added to the IHO registry manager's holistic review of the contents of the registry.

S-412 with reused concepts



Discussion

- a. Discuss options that encourage product specifications to use more general concepts
- b. Consider this proposal and provide feedback on S-412's usage of this data modeling methodology.
- c. If accepted, discuss best-practices measures for other products to adopt this methodology.

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