

Annex C (informative)

Hierarchical diagrams for SRM concepts

C.1 Introduction

This annex presents diagrams that illustrate SRM concepts and their relationships. [Figure C.1](#) illustrates the relationships among many of the key SRM concepts as a UML class diagram. Hierarchical diagrams [Figure C.2](#), [Figure C.3](#), and [Figure C.4](#) illustrate the relationships between RDs, RD categories, ORM templates and ORM templates. These concepts are applicable to spatial objects of 2 and 3 dimensions. For simplicity of presentation, this informative annex only presents the 3D case. [Figure C.2](#) illustrates the relationship between reference datum categories and (a subset of) the standardized RDs. [Figure C.3](#) shows the relationship between ORM templates and RD components. Three examples of ORMs based on an ORM template are shown in [Figure C.4](#).

C.2 Hierarchical diagrams

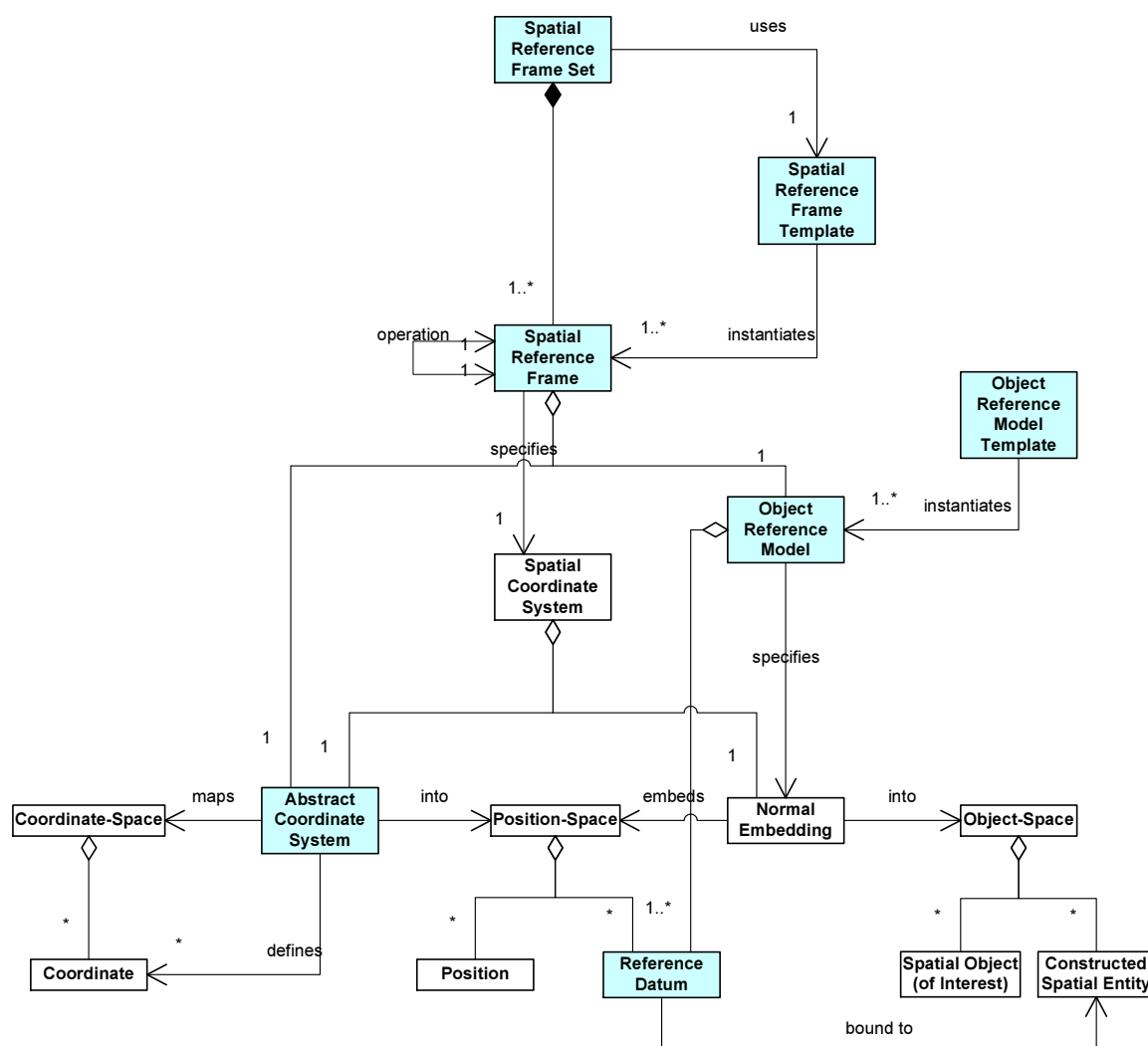


Figure C.1 — SRM concepts and their relationships

In [Figure C.1](#) shaded concepts are those that appear in the SRM API ([Clause 11](#)), and that can be registered ([Clause 13](#)). The aggregation relationships involving Coordinate-Space, Position-Space, and Object-Space are intended only to show that the component objects (Coordinate, Position, etc.) are defined within the respective spaces. A multiplicity of “*” is intended to indicate that there are potentially an infinite number of such objects within the space.

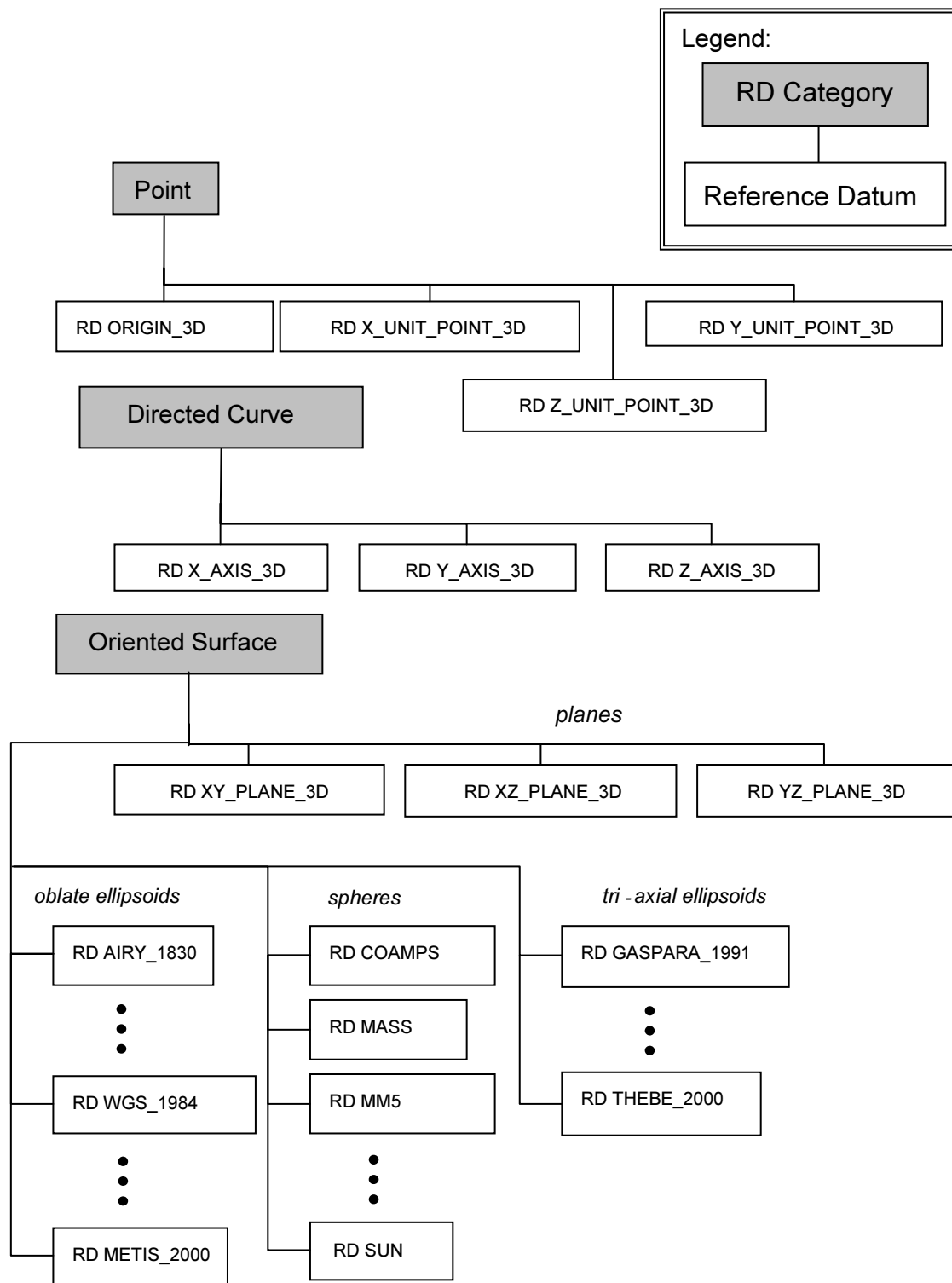


Figure C.2 — 3D RDs

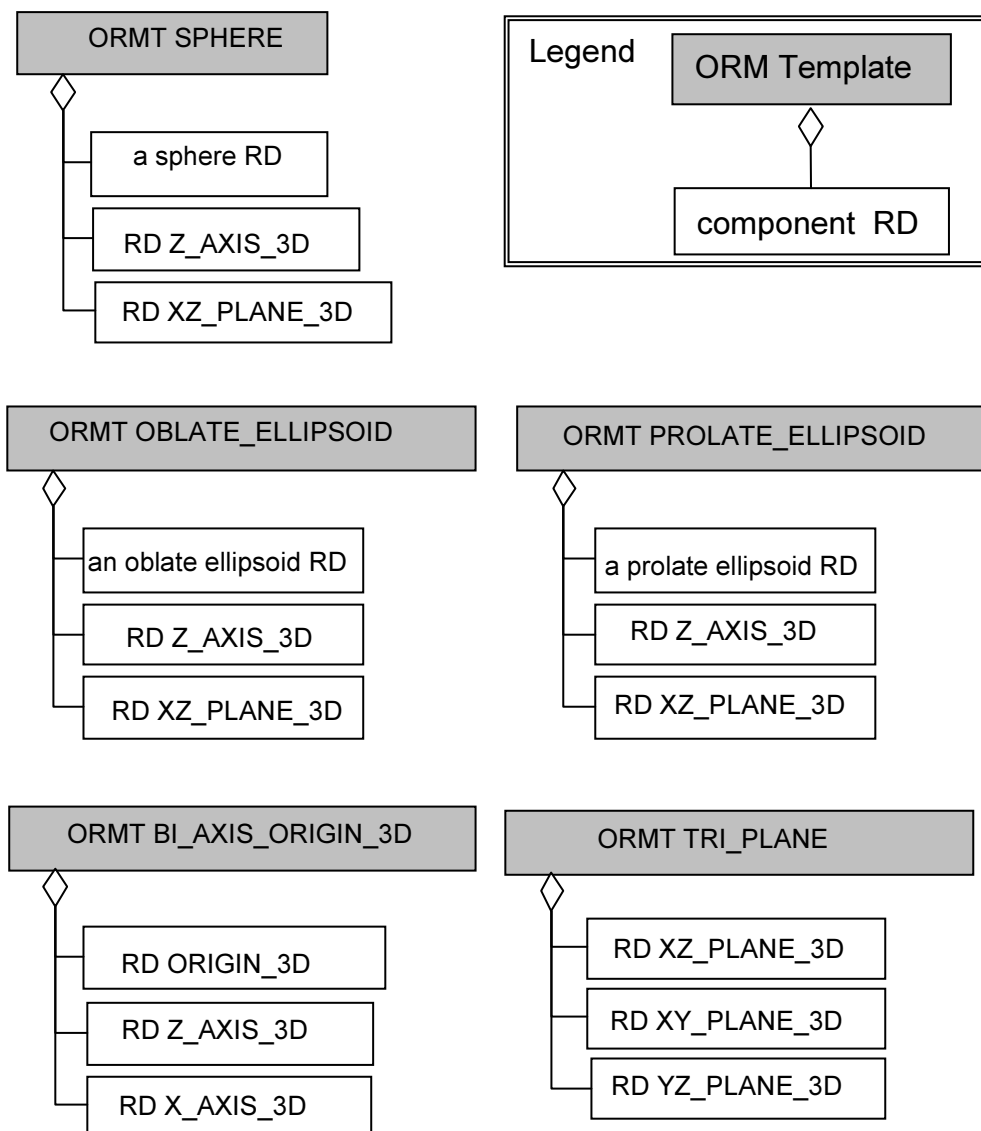


Figure C.3 — 3D ORMT components

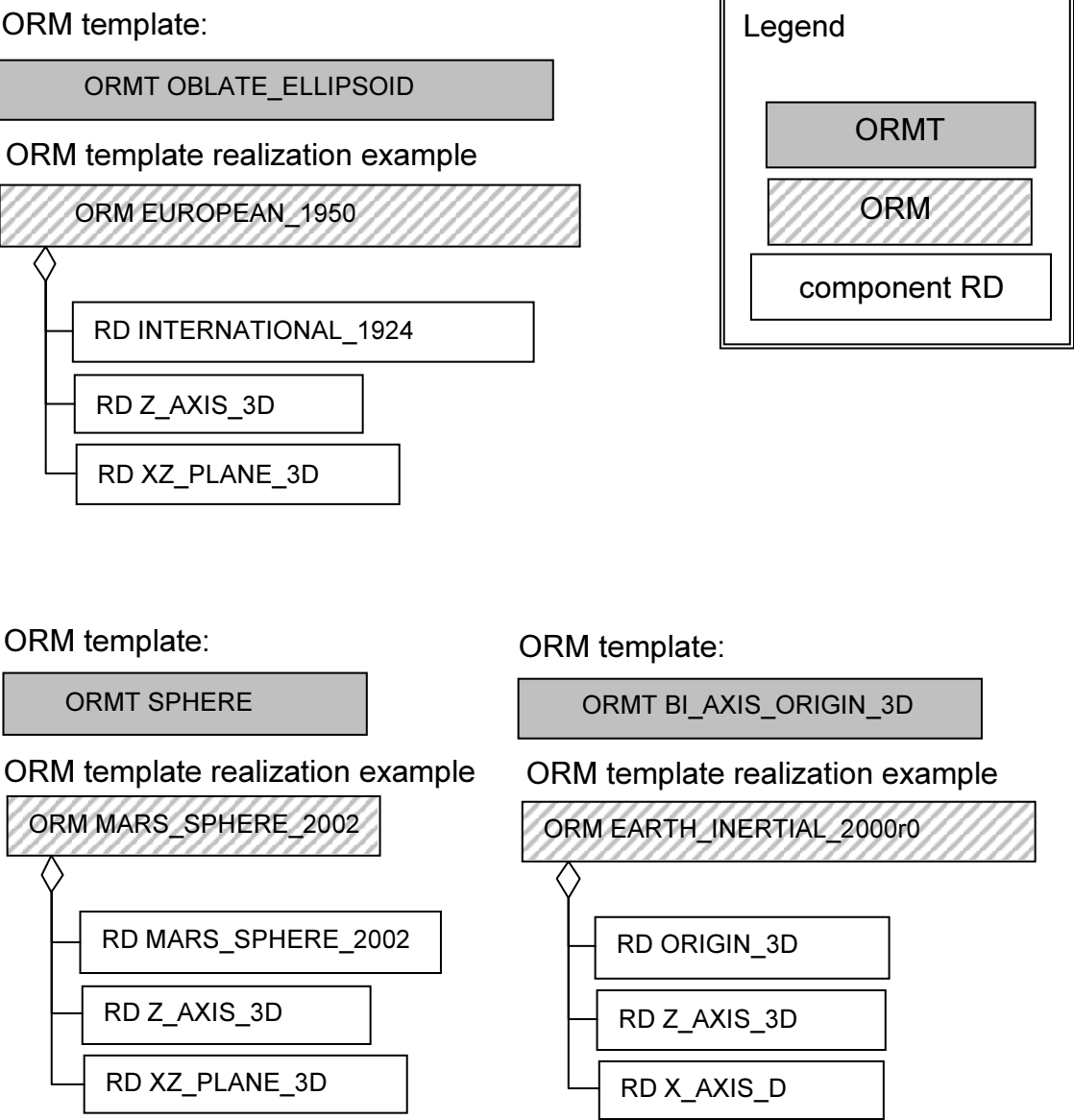


Figure C.4 — 3D ORM examples