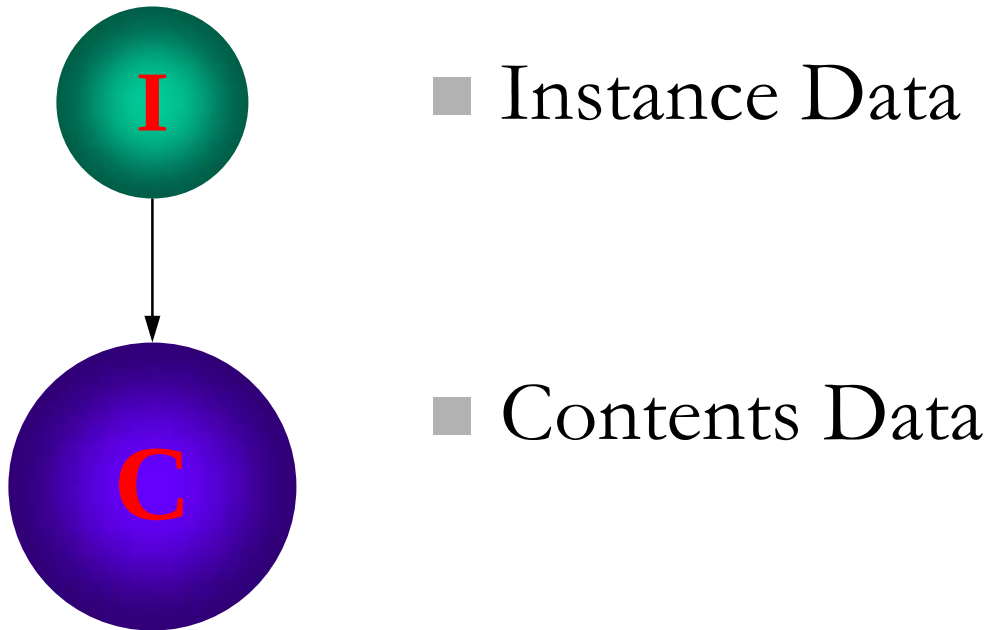


OneSpace Designer Modeling: 3D Instance and Contents Data

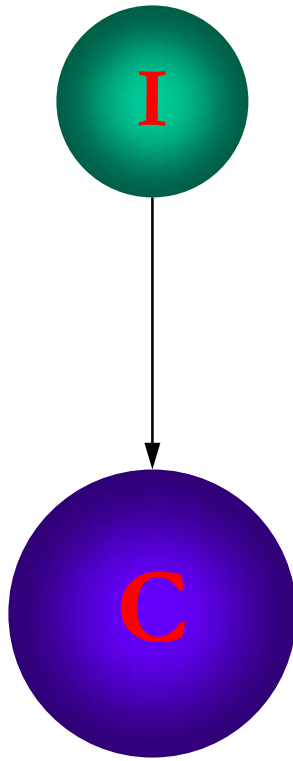
CoCreate Software

3D Data

All OneSpace Designer Modeling entities are represented in memory with two parts.



3D Data (Part)



■ Instance Data

Part Information – Name, Attributes, etc.

Link to Contents Data

Part Properties – Color, Reflectance,
Transparency, Density

Final Location – Transformation matrix

■ Contents Data

Geometry – Physical geometry, Attributes, etc.

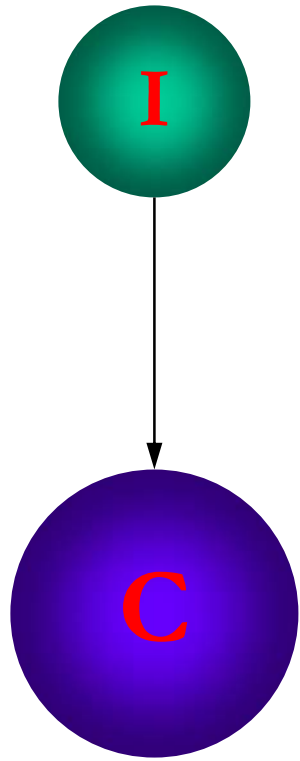
Model Name – Assignable name (Part Number)

Base Properties – Color, Reflectance,
Transparency, Density,
Geometric Resolution

Face Properties – Color, Reflectance,
Transparency

Edge Properties – Color

3D Data (Part)



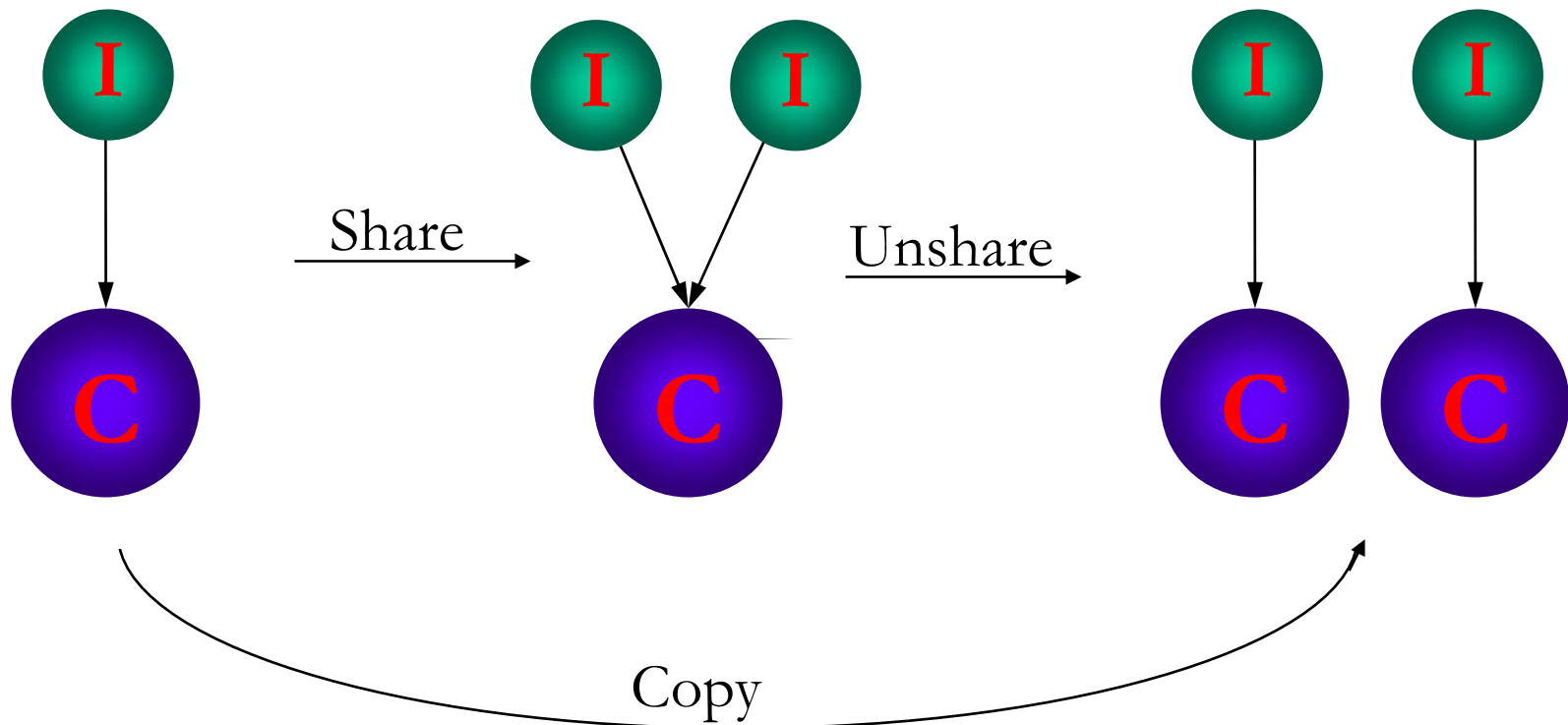
Face Color - Label Color (C)

Part Color - Paint Color (I)

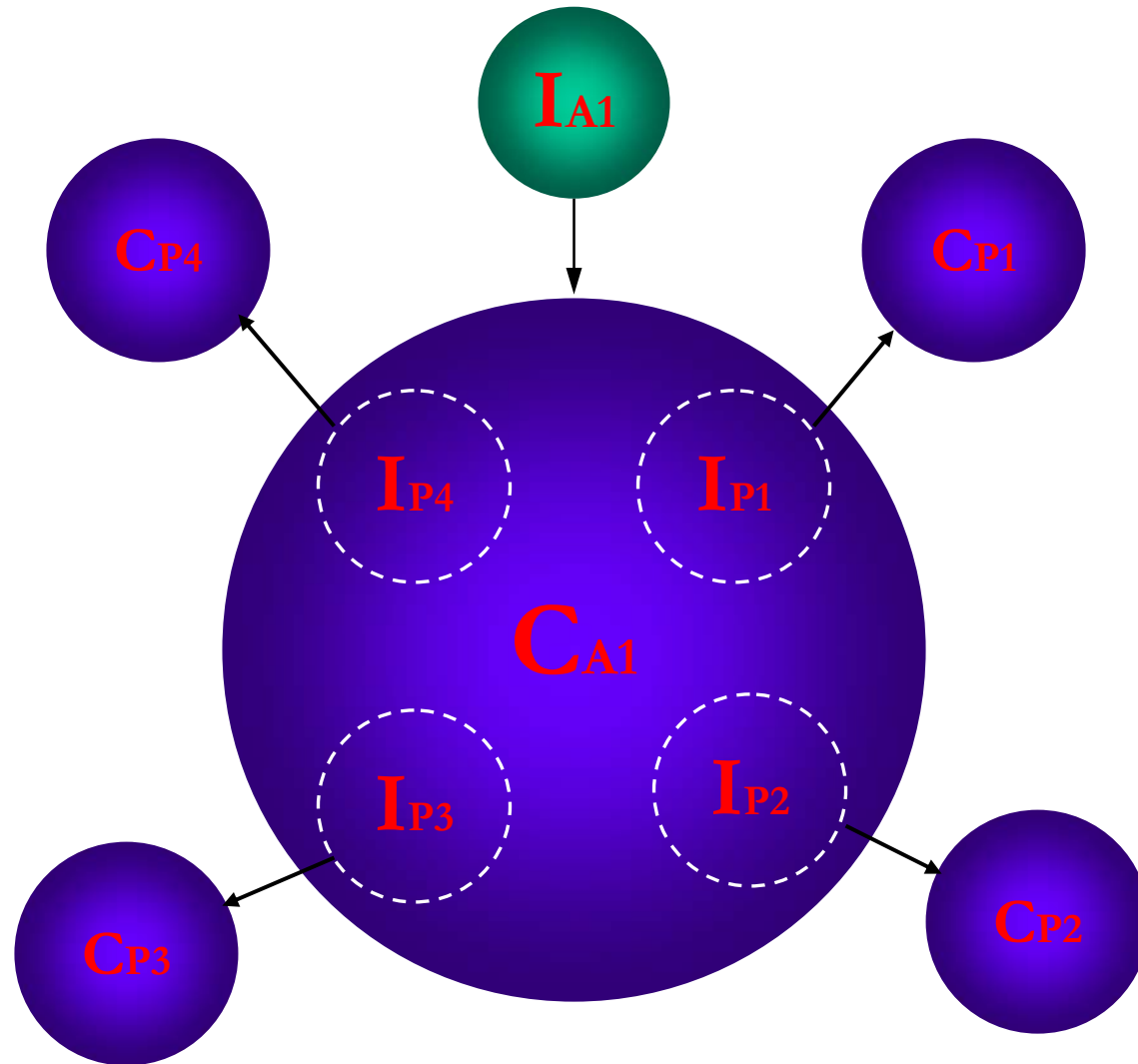
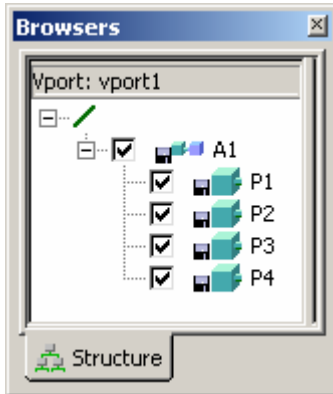
Base Color - Material Color (C)

Viewing
Hierarchy
↓

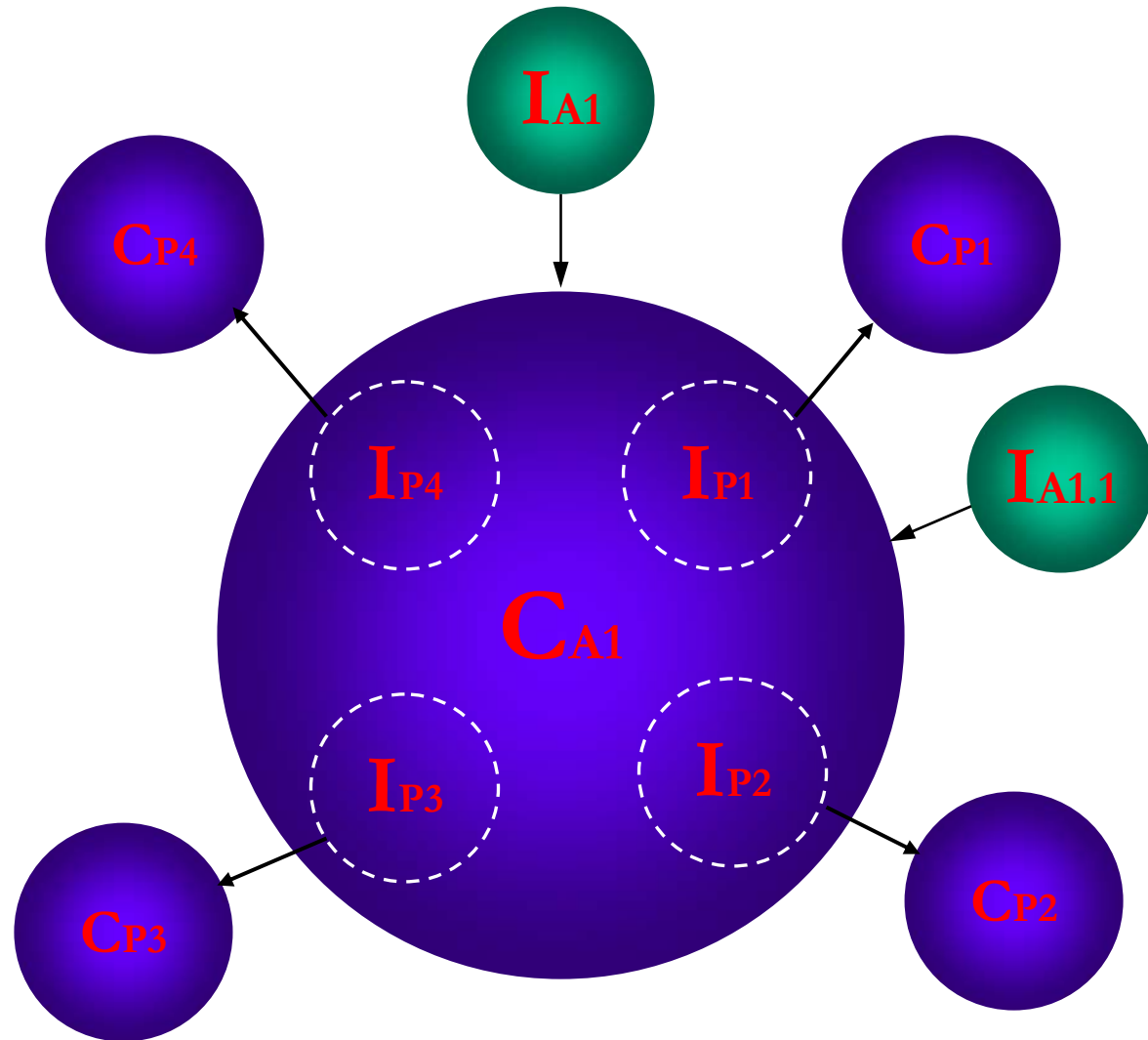
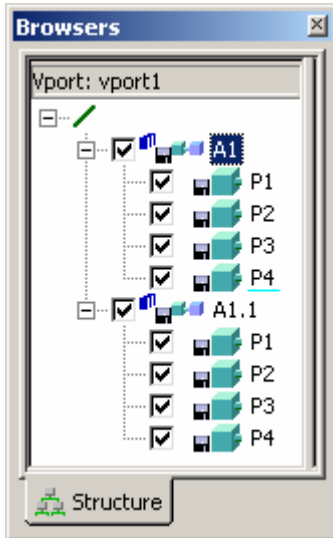
Sharing, Unsharing, Copying (Part)



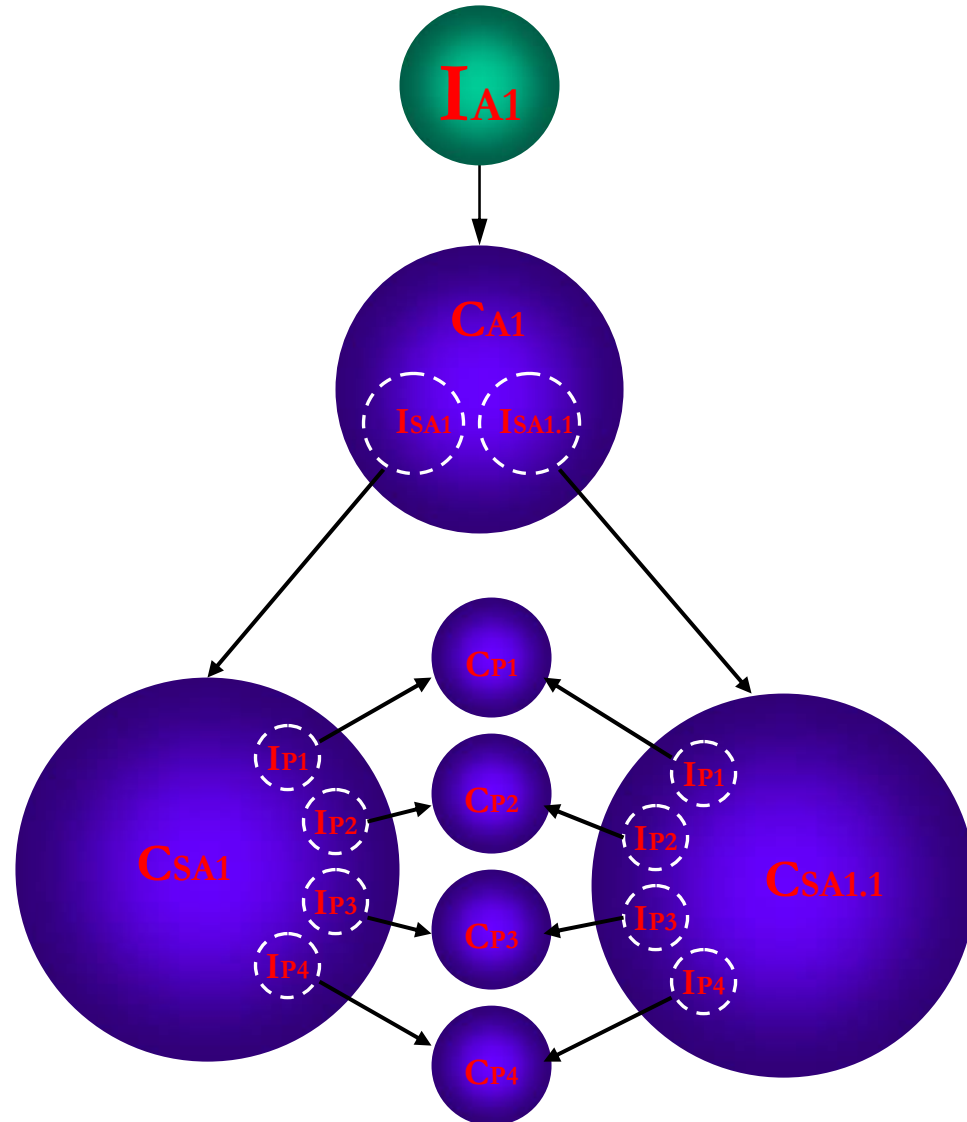
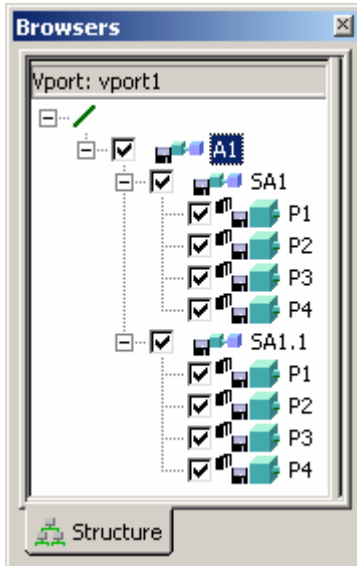
3D Data (Assembly)



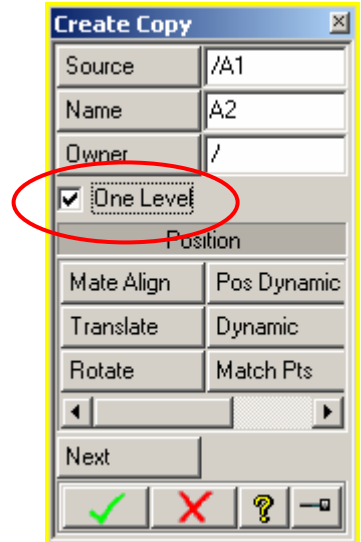
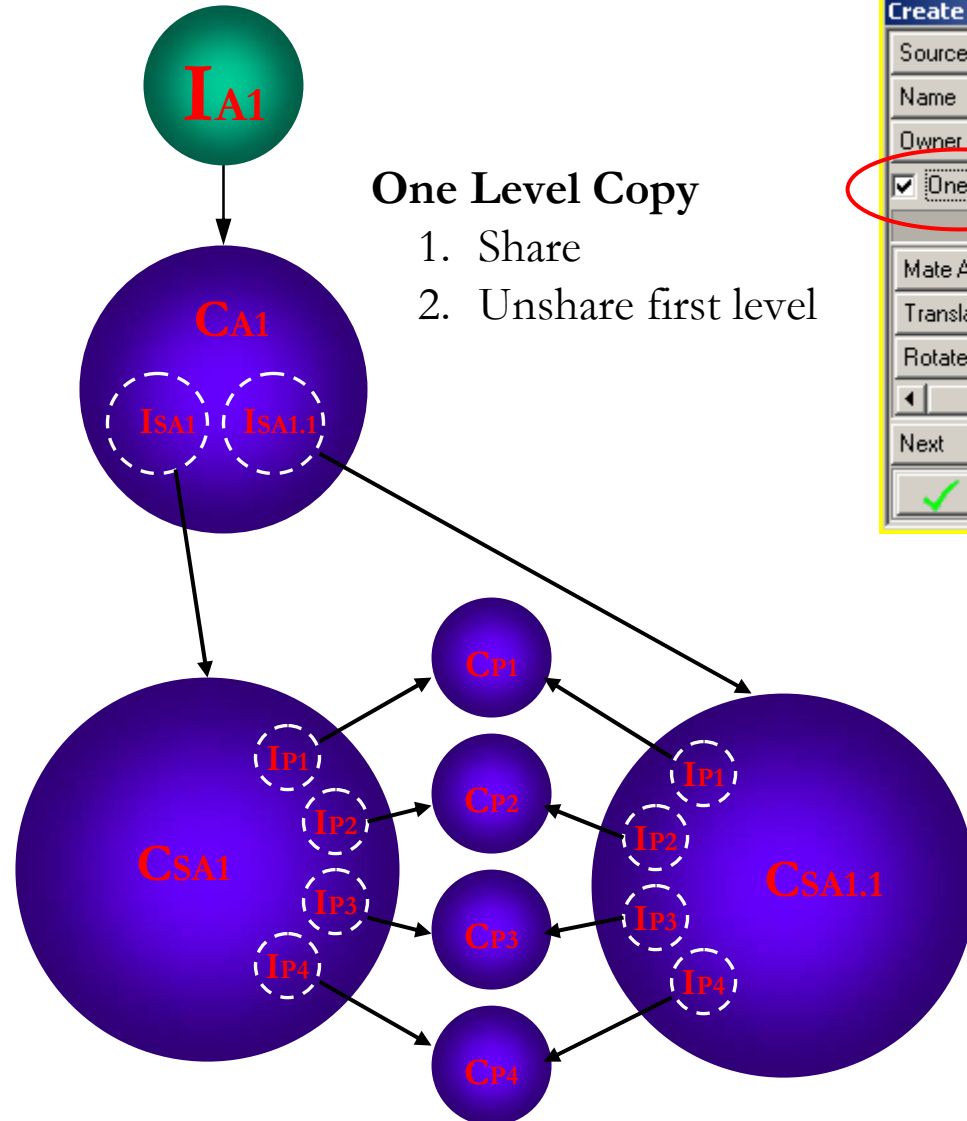
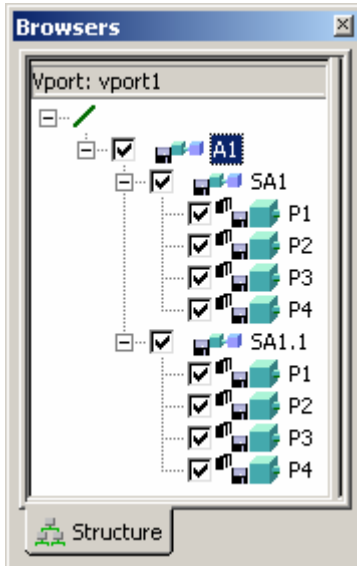
3D Data (Assembly Sharing)



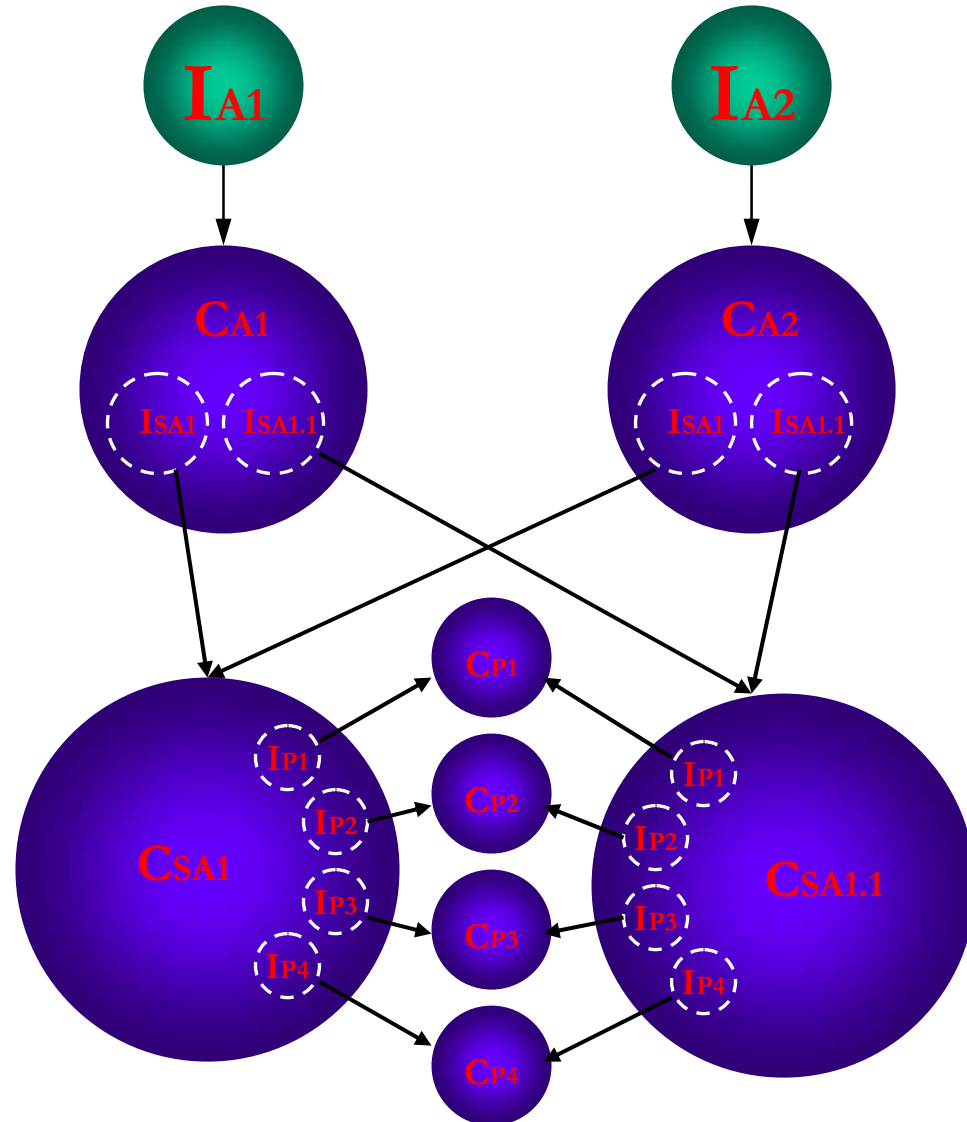
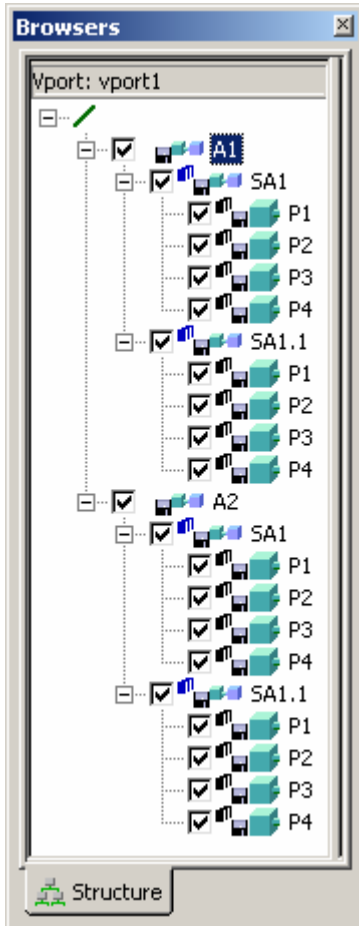
3D Data (Assembly)



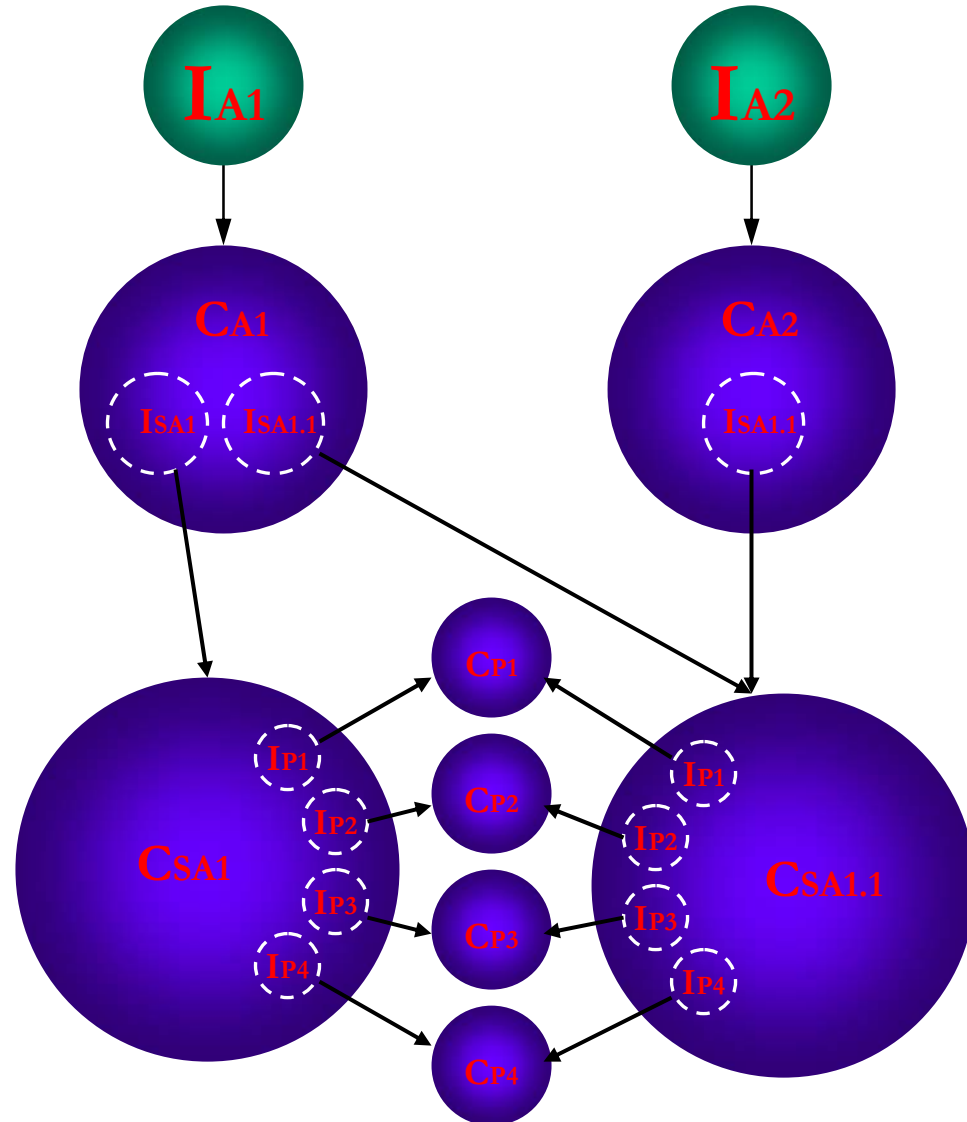
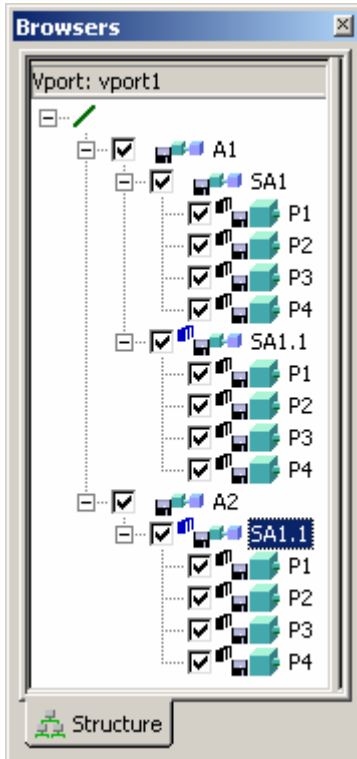
3D Data (Assembly One Level Copy)



3D Data (Assembly One Level Copy)



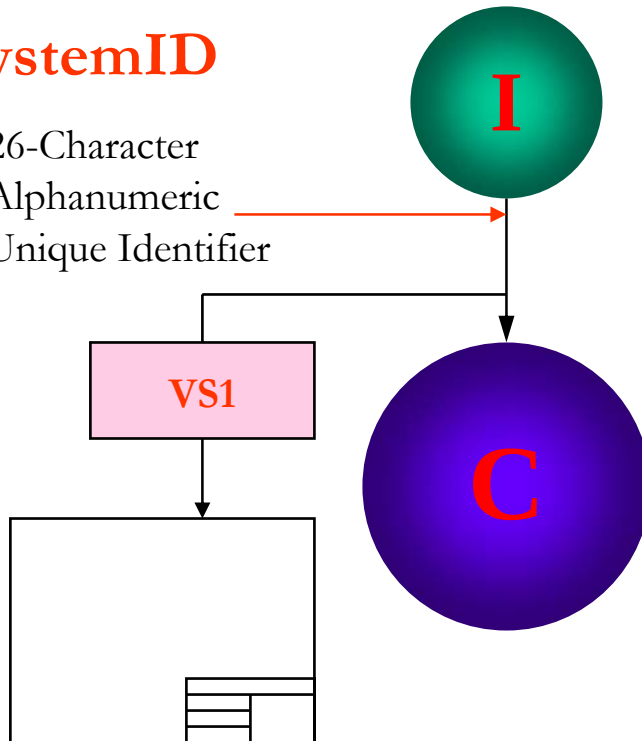
3D Data (Assembly One Level Copy)



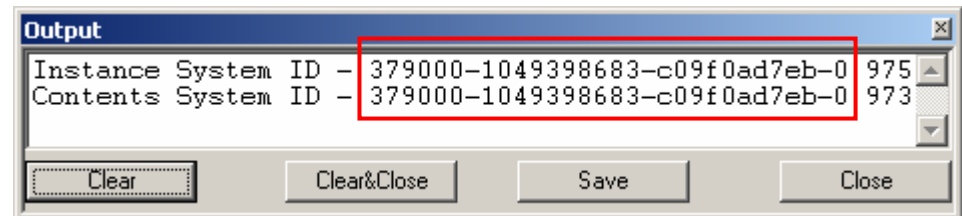
System ID

SystemID

26-Character
Alphanumeric
Unique Identifier



- Instance Data
Instance System ID
- Contents Data
Contents System ID



System ID (New Created)

1. Create New Part (Part & Assy)
2. Machine New Part (Machine)
3. Unshare Parts (Part & Assy)
4. Copy Part (Part & Assy)

