

The nodeset file contains the following.

- The abstract DataType *AbstractParent* (derived from Structure) with the member *ParentMember*

DisplayName	SymbolicName	Type	IsArray	Description	Optional	AllowSubTypes	ArrayDimensions	MaxStringLength
ParentMember	ParentMember	Boolean	false		false	false		0
< Add Name >								

- The concrete DataTypes *ChildA* and *ChildB* are derived from *AbstractParent*. Each DataType contains an additional member.

- *ChildA*

DisplayName	SymbolicName	Type	IsArray	Description	Optional	AllowSubTypes	ArrayDimensions	MaxStringLength
ChildAMember	ChildAMember	Boolean	false		false	false		0
< Add Name >								

- *ChildB*

DisplayName	SymbolicName	Type	IsArray	Description	Optional	AllowSubTypes	ArrayDimensions	MaxStringLength
ChildBMember	ChildBMember	Boolean	false		false	false		0
< Add Name >								

- The DataType *myStructure* (derived from Structure) contains a member that is an array of the abstract DataType *AbstractParent*.

DisplayName	SymbolicName	Type	IsArray	Description	Optional	AllowSubTypes	ArrayDimensions	MaxStringLength
AbstractArray	AbstractArray	AbstractParent	true		false	true	0	0
< Add Name >								

- The variable *BaseDataVariable* is of the DataType *myStructure*.
- The array *AbstractArray* contains a element of the DataType *ChildA* and *ChildB*

The screenshot shows the OPC UA Information Model editor. On the left, the 'Information Model' tree is expanded to 'Types' > 'Data Types' > 'BaseDataType' > 'BaseDataVariable'. The main pane shows the configuration for a 'Variable' instance of 'BaseDataVariable' in the namespace 'http://yourorganisation.org/AbstractArrayExample/'. The 'Additional Attributes' section shows a table of fields:

FieldName [DataType]	Value	
MyStructure		
AbstractArray [ListOfAbstractParent]		+
AbstractParent		×
ParentMember [Boolean]	false	
ChildAMember [Boolean]	false	
AbstractParent		×
ParentMember [Boolean]	false	
ChildBMember [Boolean]	false	

- Issue  
In the convert AML both elements are of the DataType AbstractParent and the fields ChildAMember respectively ChildBMember are missing.

The screenshot shows the 'Instance Hierarchy' window. The tree structure is as follows:

- OPC UA Instance Hierarchy {Version: 1.0.0}
  - Root {Class: [FolderType] Role: UaBaseRole}
    - Organizes {Class: [Organizes]} ▾
    - Views {Class: [FolderType] Role: UaBaseRole}
      - Organizes {Class: [Organizes]} ▾
      - OrganizedBy {Class: [OrganizedBy]} ▾
    - MyObject {Class: [BaseObjectType] Role: UaBaseRole}
      - HasComponent {Class: [HasComponent]} ▾
      - OrganizedBy {Class: [OrganizedBy]} ▾
    - BaseDataVariable {Class: [BaseDataVariableType] Role: UaBaseRole}

The screenshot shows the 'Attributes: BaseDataVariable' window. The attribute list is:

- NodeId {Type: [NodeId]}
- BrowseName {Type: [QualifiedName]}
- IsAbstract {Type: [Boolean]}
- Value {Type: [MyStructure]}
  - AbstractArray {Type: [ListOfAbstractParent]}
    - 0 {Type: [AbstractParent]}
      - ParentMember {Type: [Boolean]}
    - 1 {Type: [AbstractParent]}
      - ParentMember {Type: [Boolean]}
  - ValueRank {Type: [Int32]}