Subject: Issue 61 and Minor spec change to allow default initialization of parent
component
From: Van Snyder
References: 00-247, 00-276

1 Introduction

The accessibility of the parent component is at present the same as the default accessibility of
components declared in the type. If one wishes to declare a different accessibility for the parent
component, one is required to specify the default accessibility to be the desired accessibility for
the parent component, and then declare the opposite visibility for all of the objects declared in
the type.

This paper confirms the specification set forth in 98-198, which allowed an access specification
in the EXTENDS clause of an extension type declaration.

2 Specification

It is not at present possible to declare default initialization for the parent component.

An initialization expression shall be allowed for the parent component in the EXTENDS clause
of an extension type declaration; it overrides default initialization for components of the parent.

This paper depends on terminology introduced in papers 00-247 and 00-276. In particular, the
term *parent component* is used to refer to the data inherited from the parent type.

3 Syntax

The syntax of the EXTENDS *type-attr-spec* is changed from EXTENDS (*parent-type-name*)
to EXTENDS ([*access-spec* ::] *parent-type-name* [= *initialization-expr*]).

4 Edits

Edits refer to 00-007r2. Page and line numbers are displayed in the margin. Absent other
instructions, a page and line number or line number range implies all of the indicated text
is to be replaced by immediately following text, while a page and line number followed by +
(-) indicates that immediately following text is to be inserted after (before) the indicated line.
Remarks for the editor are noted in the margin, or appear between [and] in the text.

or EXTENDS ([*access-spec* ::] *parent-type-name* ∎ ∎ [= *initialization-expr*])	41:11
[Editor: "for ... that component" ⇒ "within the EXTENDS *type-attr-spec* or for a nonpointer component, the parent component (4.5.3.1) or that component, respectively,".]	45:35
[Editor: "(724) if *component-name*" ⇒ "(7.5.1.5) if that component".]	45:38-39
[Editor: "*component-name*" ⇒ "the component".]	45:39

The accessibility of the parent component (4.5.3.1) may be explicitly specified by an *access-spec* within the EXTENDS *type-attr-spec*. Otherwise, its accessibility is the same as the default accessibility for the additional components of the extended type. This is independent of the accessibility of components of the parent component.

49:10+
(New ¶)

[Editor: Delete – description of accessibility of the parent component was put into 4.5.1.7 by the edit for [49:10+] above.]

53:17-19

[Editor: Delete unresolved issue note 61.]

417:11-31

[Editor: Insert "`public ::`" before "`base_type`".]

417:39

[Editor: Insert "`private ::`" before "`my_type`".]

417:44

[Editor: Replace "`Illegal`" by "`Invalid`" five times.]

418:9-14