Subject: Parameter declarations inside of type definitions
From: Van Snyder
Reference: 03-258r1, section 2.2.2

1 **Number**

2 TBD

3 **Title**

4 Parameter declarations inside of type definitions.

5 **Submitted By**

6 J3

7 **Status**

8 For consideration.

9 **Basic Functionality**

10 Parameter declarations inside of type definitions.

11 **Rationale**

12 One sometimes needs to declare a parameter for the purpose of declaring a component of a type. It
13 would reduce maintenance costs somewhat if parameters needed for this purpose and no other could be
14 declared within the type.

15 **Estimated Impact**

16 Minor.

17 **Detailed Specification**

18 Allow parameter (i.e., named constant) declarations inside of type definitions. Allow them to be refer-
19 enced from outwith the type definition, in contexts other than variable definition contexts (16.5.7), as
20 though selecting a component of an object — similarly to the way that type parameters of the object
21 can be referenced. Within the type definition, they can be accessed by their designator without qual-
22 ification (since there is no object). Dynamic parameters (see 04-200), including ones that depend on
23 length parameters of the type, would also be useful.

24 **History**