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 ref-
19 erenced from outwith the type, in contexts other than variable definition contexts (16.5.7), as though
20 selecting a component of an object — similarly to the way that type parameters of the object can be
21 referenced. Within the type, they can be accessed by their designator without qualification (since there
22 is no object). Dynamic parameters (see that proposal), including ones that depend on length parameters
23 of the type, would also be useful.

24 **History**