## NAME

smiGetClass smiGetFirstClass, smiGetNextClass, smiGetClassModule, smiGetParentClass, smiIsClassScalar − SMI class information routines

## SYNOPSIS

**#include <smi.h>**

**SmiClass *smiGetClass(SmiModule *** *smiModulePtr* **, char *** *name* **);**

**SmiClass *smiGetFirstClass(SmiModule *** *smiModulePtr* **);**

**SmiClass *smiGetNextClass(SmiClass *** *smiClassPtr* **);**

**SmiClass *smiGetParentClass(SmiClass *** *smiClassPtr* **);**

**SmiModule *smiGetClassModule(SmiClass *** *smiClassPtr* **);**

**int smiIsClassScalar(SmiClass *** *smiClassPtr* **);**

```
typedef struct SmiClass {
   SmiIdentifier      name;
   SmiDecl            decl;
   SmiStatus          status;
   char               *description;
   char               *reference;
} SmiClass;
```

## DESCRIPTION

These functions retrieve information on a SMIng class definition (SMIng).

**smiGetClass(SmiModule *smiModulePtr,char *name)** returns a pointer to **struct SmiClass** that represents the class with the given *name* in the given module(*smiModulePtr* ), or NULL if the class with the given name does not exist.

**smiGetFirstClass(SmiModule *smiModulePtr)** and **smiGetNextClass(SmiClass *smiClassPtr)** are used to iterate through the classes of the module given by *smiModulePtr*. They return a pointer to **struct SmiClass** that represents a class or NULL if there are no classes left in the module, or error has occurred.

**smiGetClassModule(SmiClass *smiClassPtr)** returns a pointer to **struct SmiModule**, of the module containing the given class.

**smiGetParentClass(SmiClass *smiClassPtr)** returns a pointer to **struct SmiClass** pointing to the parent of the given *smiClassPtr*, or NULL if the class is not derived.

**smiIsClassScalar(SmiClass *smiClassPtr)** returns **int** *1* if the class is scalar(its unique statement contains an empty list) or *0* otherwise. This method can be used in conjunction with **smiGetFirstUniqueAttribute()** to determine whether the class is meant to be instantiated separately (has unique statement with nonempty list), or if it is meant to be used as part of another class (has no unique statement).

## FILES

${prefix}/include/smi.h SMI library header file

## SEE ALSO

**libsmi**(3), **smi_module**(3), **smi.h**

## AUTHOR

(C) 2007 Kaloyan Kanev, Jacobs University, Germany <k DOT kanev AT jacobs-university DOT de>

