

NAME

smiGetModule, smiGetFirstModule, smiGetNextModule, smiGetModuleIdentityNode, smiGetFirstImport, smiGetNextImport, smiIsImported, smiGetFirstRevision, smiGetNextRevision – SMI module information routines

SYNOPSIS

```
#include <time.h>
#include <smi.h>

SmiModule *smiGetModule(char *module);

SmiModule *smiGetFirstModule();

SmiModule *smiGetNextModule(SmiModule *smiModulePtr);

SmiNode *smiGetModuleIdentityNode(SmiModule *smiModulePtr);

SmiImport *smiGetFirstImport(SmiModule *smiModulePtr);

SmiImport *smiGetNextImport(SmiImport *smiImportPtr);

int smiIsImported(SmiModule *smiModulePtr, SmiModule *importedModulePtr, char *importedName);

SmiRevision *smiGetFirstRevision(SmiModule *smiModulePtr);

SmiRevision *smiGetNextRevision(SmiRevision *smiRevisionPtr);

typedef struct SmiModule {
    SmiIdentifier  name;
    char          *path;
    char          *organization;
    char          *contactinfo;
    char          *description;
    char          *reference;
    SmiLanguage   language;
    int           conformance;
} SmiModule;

typedef struct SmiRevision {
    time_t        date;
    char          *description;
} SmiRevision;

typedef struct SmiImport {
    SmiIdentifier  module;
    SmiIdentifier  name;
} SmiImport;
```

DESCRIPTION

These functions retrieve various meta information on MIB modules. Other functions to retrieve the definitions within a module are documented in **smi_type(3)**, **smi_node(3)**, and **smi_macro(3)**.

The **smiGetModule()** function retrieves a **struct SmiModule** that represents the SMI module named **module**. Elements not available or not present for this module contain NULL. If the module is not found, **smiGetModule()** returns NULL.

The **smiGetFirstModule()** and **smiGetNextModule()** functions are used to iteratively retrieve **struct SmiModules** of all known modules. **smiGetFirstModule()** returns the first known module. Subsequent calls to **smiGetNextModule()** return the following ones. If there are no more modules NULL is returned.



The **smiGetModuleIdentityNode()** function retrieves a **struct SmiNode** that represents the node that is used to identify the containing MIB module specified by *smiModulePtr*. If there is no such identity node, i.e. if this is not an SMIV2 or SMIng module converted from SMIV2, **smiGetModuleIdentityNode()** returns NULL.

The **smiGetFirstImport()** and **smiGetNextImport()** functions are used to iteratively retrieve **struct SmiImports** of a given module. **smiGetFirstImport()** returns the first identifier imported by the module specified by *smiModulePtr*. Subsequent calls to **smiGetNextImport()** return the following ones. If there are no more imported identifiers NULL is returned.

The **smiIsImported()** function returns a positive value if the identifier *importedName* defined in the module specified by *importedModulePtr* is imported in the module specified by *smiModulePtr*, or zero otherwise.

The **smiGetFirstRevision()** and **smiGetNextRevision()** functions are used to iteratively retrieve **struct SmiRevisions** of a given module. **smiGetFirstRevision()** returns the first (that is most recent) revision information of the module specified by *smiModulePtr*. Subsequent calls to **smiGetNextRevision()** return the revision after (timely before) that one. If there are no more revisions NULL is returned.

FILES

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

SEE ALSO

libsmi(3), **smi_config(3)**, **smi_node(3)**, **smi.h**

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