

Chapter 2.

Functions

Topic: Ignore

The function interface is a set of Application Procedural Interface (API) and Direct Interface (DI) functions that an application can invoke to interact with ACIS. API functions, which combine modeler functionality with application support features such as argument error checking and roll back, are the main interface between applications and ACIS. The DI functions provide access to modeler functionality, but do not provide the additional application support features, and, unlike APIs, are not guaranteed to remain consistent from release to release. Refer to the *3D ACIS Online Help User's Guide* for a description of the fields in the reference template.

api_initialize_persistent_id

Function: Modeler Control, Persistent ID

Action: Initializes the persistent identification library.

Prototype: `outcome api_initialize_persistent_id ();`

Includes: `#include "kernel/acis.hxx"`
`#include "kernel/kernapi/api/api.hxx"`
`#include "pid_husk/api/pidapi.hxx"`

Description: Refer to Action.

Errors: None

Limitations: None

Library: pid_husk

Filename: pid/pid_husk/api/pidapi.hxx

Effect: System routine

api_pidget

Function: Persistent ID

Action: Gets the persistent ID (PID) of the entity.

Prototype: `outcome api_pidget (`
 `ENTITY* given_entity,      // entity to get PID from`
 `const pid_base*& pid,      // returned PID of`
 `// the entity`
 `AcisOptions* ao = NULL      // acis options`
 `);`

Includes: `#include "kernel/acis.hxx"`
 `#include "kernel/kernapi/api/api.hxx"`
 `#include "kernel/kerndata/data/entity.hxx"`
 `#include "pid_husk/api/pidapi.hxx"`
 `#include "pid_husk/pid/pid.hxx"`
 `#include "kernel/kernapi/api/acis_options.hxx"`

Description: This API gets the PID of the entity.

Errors: Pointer to entity is NULL.

Limitations: None

Library: pid_husk

Filename: pid/pid_husk/api/pidapi.hxx

Effect: Read-only

api_pidrem

Function: Persistent ID

Action: Removes the PID from the entity.

Prototype: `outcome api_pidrem (`
 `ENTITY* given_entity,      // entity to have`
 `// PID removed`
 `AcisOptions* ao = NULL      // acis options`
 `);`

Includes: `#include "kernel/acis.hxx"`
 `#include "kernel/kernapi/api/api.hxx"`
 `#include "kernel/kerndata/data/entity.hxx"`
 `#include "pid_husk/api/pidapi.hxx"`
 `#include "kernel/kernapi/api/acis_options.hxx"`

Description: This API removes the PID from the entity.

Errors: Pointer to entity is NULL.

Limitations: None

Library: pid_husk

Filename: pid/pid_husk/api/pidapi.hxx

Effect: Changes model

api_pidset

Function: Persistent ID

Action: Sets the PID of the entity.

Prototype:

```
outcome api_pidset (
    ENTITY* given_entity,    // entity to have
                             // PID added
    AcisOptions* ao = NULL  // acis options
);
```

Includes:

```
#include "kernel/acis.hxx"
#include "kernel/kernapi/api/api.hxx"
#include "kernel/kerndata/data/entity.hxx"
#include "pid_husk/api/pidapi.hxx"
#include "kernel/kernapi/api/acis_options.hxx"
```

Description: This API sets the PID of the entity to the next current one.

Errors: Pointer to entity is NULL.

Limitations: None

Library: pid_husk

Filename: pid/pid_husk/api/pidapi.hxx

Effect: Changes model

api_terminate_persistent_id

Function: Modeler Control, Persistent ID

Action: Terminates the persistent identification library.

Prototype:

```
outcome api_terminate_persistent_id ();
```

Includes:

```
#include "kernel/acis.hxx"
#include "kernel/kernapi/api/api.hxx"
#include "pid_husk/api/pidapi.hxx"
```

Description: Refer to Action.

Errors: None

Limitations: None

Library: pid_husk

Filename: pid/pid_husk/api/pidapi.hxx

Effect: System routine