

APINLNK

This API lets the user not only obtain data from an application - status link but also create a new application - status link and modify an existing one.

APINLNK replaces APINLINK and can be invoked thus:

```
CALLNAT 'APINLNK' API-PARM API-LNK-PARM
```

- A To add an application status link
- D To obtain data from an application status link
- M To modify an application status link

This chapter covers the following topics:

- Local Data Area USLLLNK
 - API Return Codes
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Local Data Area USLLLNK

A definition of API-LNK-PARM is provided in LDA USLLLNK.

Field Name	Format	I/O
API-LNK-PARM		
APPLICATION	A32	in
STATUS	A32	in
FILE-TRANS-TABLE	A32	in/out
STEPLIB-CNT	N3	in/out
PRD-CASE-LIB	A32(1:8)	in/out
LIBRARY	A32	out
FUSER-DBID	N8	in/out
FUSER-FNR	N5	in/out
FDIC-DBID	N5	in/out
FDIC-FNR	N5	in/out
FPAA-DBID	N5	in/out
FPAA-FNR	N5	in/out
XREF	A1	in/out
ESY-NODE	N3	in/out
OP-SYSTEM	A8	out
FOREIGN-PDS-CNT	N3	in/out
FOREIGN-PDS	A79(1:50)	in/out
ADD-DATE	T	out
ADD-BY	A8	out
ADD-TID	A8	out
MOD-DATE	T	out
MOD-BY	A8	out
MOD-TID	A8	out

Whenever APINLNK is called:

- API-LNK-PARM.APPLICATION should carry the name of the link's application.
- API-LNK-PARM.STATUS should carry the name of the link's status.

If [API-PARM.API-MAIN-FUNC] = 'A' and the application status link is not found, APINLNK tries to add an application status link with the characteristics specified in the "in/out" fields.

If [API-PARM.API-MAIN-FUNC] = 'D' and the application status link is found, APINLNK returns in the remaining parameter fields the application status link data, ignoring any values put by the user in the "in/out" fields.

If [API-PARM.API-MAIN-FUNC] = 'M' and the application status link is found, APINLNK tries to modify the application status link endowing it with the characteristics specified in the "in/out" fields.

Which of the parameter fields can carry meaningful values for a link depends on the application (Predict or not) and on the type of the status. APINLNK tries to reset all irrelevant parameter fields when called with API-PARM.API-MAIN-FUNC at 'A' or 'M'.

If [API-PARM.API-MAIN-FUNC] is 'M' then [API-LNK-PARM.STEPLIB-CNT] is made 0, if negative.

The names of the step applications are returned or expected to be specified [API-LNK-PARM.STEPLIB-CNT] is the number of step applications (to be) specified in the link.

If [API-PARM.API-MAIN-FUNC] is 'A' or 'M' then [API-LNK-PARM.STEPLIB-CNT] is made 8, if greater than 8. If [API-PARM.API-MAIN-FUNC] is 'A' then a negative [API-LNK-PARM.STEPLIB-CNT] is interpreted as an instruction to make the link inherit the sequence of step applications specified in the application record. (if API-LNK-PARM.STEPLIB-CNT GT 0) in API-LNK-PARM.STEPLIB(1:[API-LNK-PARM.STEPLIB-CNT]).

A Predict Case library specification in an application status link can be retrieved but not introduced with APINLNK.

If [API-PARM.API-MAIN-FUNC] is 'A' and a relevant [API-LNK-PARM.LIBRARY] is not specified then APINLNK seeks the value among the defaults in the application record. If [API-PARM.API-MAIN-FUNC] is 'A' and a relevant ([...-DBID],[...-FNR]) = (0,0) then APINLNK seeks the values in the status record. If [API-PARM.API-MAIN-FUNC] is 'A' and a relevant [API-LNK-PARM.XREF] is not specified then APINLNK seeks the value in the status record.

The type of operating system is unique for a node and is discovered by APINLNK regardless of any value possibly put in API-LNK-PARM.OP-SYSTEM by the user. APINLNK processes the user-specified values of API-LNK-PARM.FOREIGN-PDS-CNT and API-LNK-PARM.FOREIGN-PDS only if API-LNK-PARM.ESY-NODE not equal to 0. [API-LNK-PARM.FOREIGN-PDS-CNT] is the number of foreign PDSes (to be) specified in the link.

If [API-PARM.API-MAIN-FUNC] is A or M then [API-LNK-PARM.FOREIGN-PDS-CNT] is made 0, if negative, it is made 50, if greater than 50. The foreign PDS specifications are returned or expected to be supplied (if API-LNK-PARM.ESY-NODE not equal to 0 AND API-LNK-PARM.FOREIGN-PDS-CNT greater than 0) in API-LNK-PARM.FOREIGN-PDS(1:[API-LNK-PARM.FOREIGN-PDS-CNT]).

Each element of API-LNK-PARM.FOREIGN-PDS contains or should contain:

- a foreign location type code (bytes 1 - 4), a PDS name (bytes 5 - 58), and operation system specific data:
- (optional) OS/390 volume specification (bytes 59 - 64) or (required) BS2000/OSD LMS element type specification (byte 59).

In byte 67 of an element of API-LNK-PARM.FOREIGN-PDS APINLNK puts a S(ource) or L(oadable) marking.

API Return Codes

APINLNK returns the following [API-PARM.API-MSG-NO]:

- 1011 If an [API-PARM.API-MAIN-FUNC] distinct from A, D and M has been specified.
- 6303 If the LMS element type specification is invalid.
- 7102 If an out-of-range database number is specified.
- 7103 If an out-of-range file number is specified.
- 7136 If an attempt has been made to link application Predict to status ARCHIVE or RETIRE.
- 7250 If the link has been found.
- 7251 If an application or the status or a foreign type is unknown or the link (to be retrieved) has not been found.
- 7253 If the link has been added.
- 7254 If the link has been modified.
- 7259 If the link (to be added) has not been added for an unspecified reason.
- 7264 If the link (to be modified) is held.
- 7267 If more than one location of a single foreign type has been specified.
- 7428 If an inappropriate [XREF] has been specified.
- 7517 If Predict or Predict Case has been specified as a step application.
- 7577 If an attempt has been made to link to a status application Predict Case.

Other values of API-PARM.API-MSG-NO may be received in more unusual situations. APINLNK may pass an Entire System Server message resulting from the ESY's inactivity or an unsuccessful search for a node or a PDS.

Failure to assign to the just added or modified application status link an FTT does not get reflected in API-PARM.API-MSG-NO; it causes the resetting of API-LNK-PARM.FILE-TRANS-TABLE.