



IBM Systems - iSeries
SM1 APIs

Version 5 Release 4





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SM1 APIs

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Note

Before using this information and the product it supports, be sure to read the information in "Notices," on page 7.

Sixth Edition (February 2006)

This edition applies to version 5, release 4, modification 0 of IBM i5/OS (product number 5722-SS1) and to all subsequent releases and modifications until otherwise indicated in new editions. This version does not run on all reduced instruction set computer (RISC) models nor does it run on CISC models.

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System Manager (SM1)

Two exit programs are documented for the System Manager licensed program (SM1). They are:

- “Authorization Exit Program” determines whether an activity is authorized to occur on the specified nodes.
- “Notification Exit Program” on page 3 notifies a user program of a change management activity result.

See the System Manager Use  book for additional information.

APIs by category

APIs

These are the APIs for this category.

Authorization Exit Program

Required Parameter Group:

1	Change request	Input	CHAR(10)
2	Sequence number	Input	BINARY(4)
3	Activity	Input	CHAR(10)
4	Activity type	Input	CHAR(10)
5	Transport type	Input	CHAR(10)
6	Change management verb	Input	CHAR(10)
7	Global name	Input	CHAR(64)
8	Destinations	Input	Array of CHAR(*)
9	Number of destinations	Input	BINARY(4)
10	User profile	Input	CHAR(10)
11	Authorization results	Output	Array of CHAR(4)

Exit point name: QIBM_QNS_SDDSTAUTH

Exit point format name: AUTH0100

The Authorization exit program determines whether an activity is authorized to occur on the specified nodes. This exit is called one or more times per activity before the distribution operation occurs. If the exit is called more than once, the list of nodes that are being checked is different each time. The exit determines if the activity should be allowed to run based on the criteria it specifies (that is, license information). The exit returns a value for each node indicating whether the activity may be performed.

The exit program is registered using the Add Exit Program (QUSADDEP) API and using QIBM_QNS_SDDSTAUTH as the exit point name, with format AUTH0100.

Required Parameter Group

Change request

INPUT; CHAR(10)

Change request name

Sequence number

INPUT; BINARY(4)

Sequence number of the change request

Activity

INPUT; CHAR(10)
Activity name

Activity type

INPUT; CHAR(10)
The type of activity that is being performed; for example, *OBJ or *PTF.

Transport type

INPUT; CHAR(10)
The method by which the object or request is sent to the managed system.

Value	Description
*SVDS	SNA/Distribution Services, queue type = *SVDS, is used to send the object or request when distributing using Change Management.
*SNADS	SNA/Distribution Services, queue type = *SNADS, is used to send the object or request when distributing using the Object Distribution Facility (ODF).

Change management verb

INPUT; CHAR(10)
The function to be performed by the managed system.

Value	Description
*ACC	Accept
*ACT	Activate
*DLT	Delete
*INI	Initiate
*INS	Install
*RMV	Remove
*RTV	Retrieve
*SND	Send
*SNDINI	Send and initiate
*SNDINS	Send and install

Global name

INPUT; CHAR(64)
The global name of the object that is to be manipulated.

Destinations

INPUT; Array of CHAR(*)
The destinations for the request. When the transport type is *SVDS or *SNADS, each destination element has the following format:

<i>Network ID</i>	CHAR(8)
<i>Control point name</i>	CHAR(8)
<i>Reserved</i>	CHAR(4)

Number of destinations

INPUT; BINARY(4)
The number of destinations for the distribution request.

User profile

INPUT; CHAR(10)
The user profile for which the distribution is being performed.

Authorization result

OUTPUT; Array of CHAR(4)

For each of the destinations, indicates whether the change management activity may be performed.

*YES

*NO

Error Messages

If an error message is generated by the Authorization exit program, the activity is not performed.

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Notification Exit Program

Required Parameter Group:

1	Change request	Input	CHAR(10)
2	Sequence number	Input	BINARY(4)
3	Activity	Input	CHAR(10)
4	Activity type	Input	CHAR(10)
5	Transport type	Input	CHAR(10)
6	Change management verb	Input	CHAR(10)
7	Global name	Input	CHAR(64)
8	Destinations	Input	Array of CHAR(*)
9	Number of destinations	Input	Array of BINARY(4)
10	User profile	Input	CHAR(10)
11	Activity results	Input	BINARY(4)

Exit point name: QIBM_QNS_SDDSTNTFY

Exit point format name: NTFY0100

The Notification exit program notifies a user program of a change management activity result.

The exit program is registered using the Add Exit Program (QUSADDEP) API and using QIBM_QNS_SDDSTNTFY as the exit point name, with format NTFY0100.

Required Parameter Group

Change request

INPUT; CHAR(10)

Change request name

Sequence number

INPUT; BINARY(4)

Sequence number of the change request

Activity

INPUT; CHAR(10)

Activity name

Activity type

INPUT; CHAR(10)

The type of activity that is being performed; for example, *OBJ or *PTF.

Transport type

INPUT; CHAR(10)

The method by which the object or request is sent to the managed system.

Value	Description
*SVDS	SNA/Distribution Services, queue type = *SVDS, is used to send the object or request when distributing using Change Management.
*SNADS	SNA/Distribution Services, queue type = *SNADS, is used to send the object or request when distributing using the Object Distribution Facility (ODF).

Change management verb

INPUT; CHAR(10)

The function to be performed by the managed system.

Value	Description
*ACC	Accept
*ACT	Activate
*DLT	Delete
*INI	Initiate
*INS	Install
*RMV	Remove
*RTV	Retrieve
*SND	Send
*SNDINI	Send and initiate
*SNDINS	Send and install

Global name

INPUT; CHAR(64)

The global name of the object that is to be manipulated.

Destinations

INPUT; Array of CHAR(*)

The destinations for the request. If the transport type is *SVDS or SNADS, each destination element has the following format:

<i>APPN Network ID</i>	CHAR(8)
<i>APPN Control point name</i>	CHAR(8)
<i>Reserved</i>	CHAR(4)

Number of destinations

INPUT; BINARY(4)

The number of destinations for the distribution request.

User profile

INPUT; CHAR(10)

The user profile for which the distribution is being performed.

Activity result

OUTPUT; Array of CHAR(4)

The end status for each destination node. It indicates whether the change management activity completed successfully.

0	Successful
0-9	Successful with warnings
10-89	Failed
90-99	Did not run due to conditions or schedules

Usage Notes:

Since activities may complete at different times for different nodes, this exit program may be called many times for different nodes.

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