

Application Note

Task Request function

NX-5000 Series R2.50

KPG-D1/D1N R2.50

NX-3000 Series R1.30

KPG-D3/D3N R1.30

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1 Outline

Task Request is function to manage tasks using Short Message features in NXDN and DMR system. This function is available in NEXEDGE Trunking System, NEXEDGE Conventional System and DMR Conventional System.

Task Request is an application which allows dispatchers to create, assign and track workers' task through a radio network.

When a subscriber receives a Task Request, it displays Task Request message on the LCD.

Task Request can be accepted or declined by simple operation. The way of response for Task Request is easy to use and task statuses are customizable meaning they can be adapted for the customer's business style.

A particular data is prepended to distinguish Task Request message from Short Data message. The system can identify with the prepended data whether it is Task Request message or not.

A dispatcher make Task Request message of up to 290 characters to send subscribers.

Up to 100 Task Request messages are stored in a radio memory.

16 kinds of Response to received message can be preconfigured in subscriber's radio. Subscriber can send Response corresponding to the task status. And the received message is moved to the categorized folder.

Task Request application works with serial connection or IP connection.

Figure bellow shows example of a system using HotSOS application.

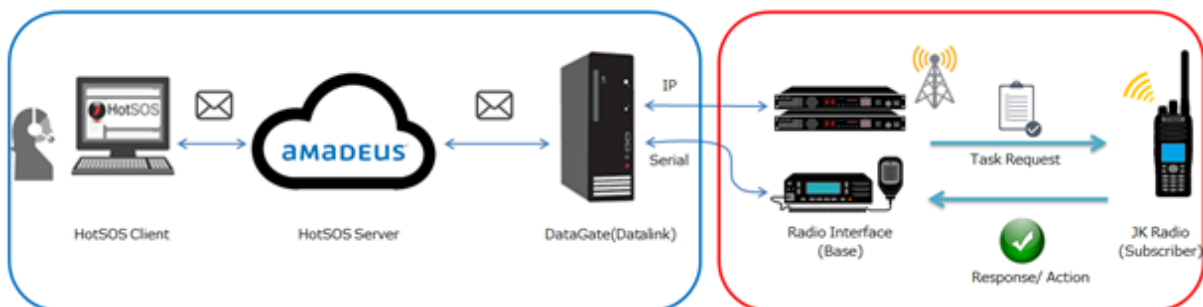


Figure 1-1 Example of Task Request system

2 Use Cases

1. Sending a task order (Dispatcher)

Dispatcher creates Task Request message and sends it with any application like the HotSOS to subscriber via a Base Station/Repeater.

Up to 290 characters is available for Task Request message.

Both of Individual and Group address are available as a target.

Follows are example of the message.

"Room 1016 ready for cleaning"

"Please deliver two bath towels to room 1022."

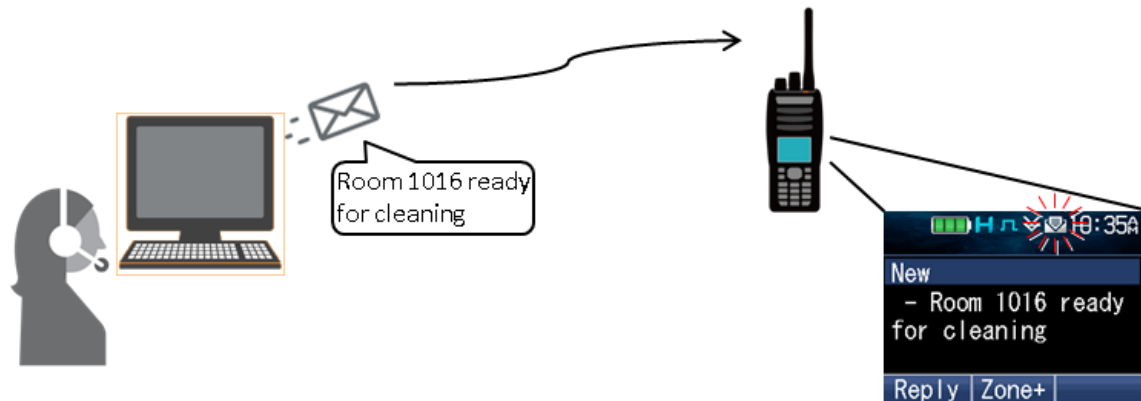


Figure 2-1 Task Request message sending

Notes:

- Base station radio needs to be enabled Short Data Serial Output by FPU.
- Extended Short Message must be enabled by FPU for sending message larger than 86 bytes in NXDN mode.

2. Confirm the task order and respond (subscriber)

When Subscriber radio receives a task order, it emits Alert Tone and displays the message.

Subscriber selects Response message from the preconfigured in the radio appropriately and responds.

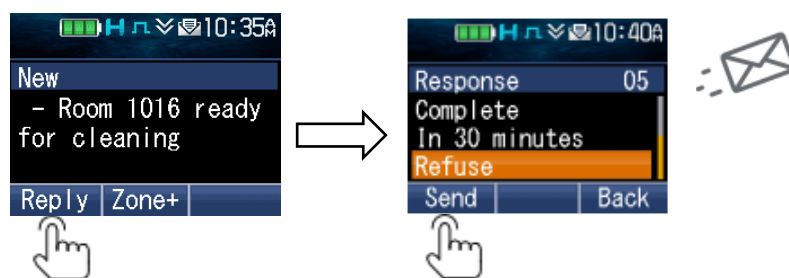
Up to 14 digits of response message is available.

Follows are example of Response message.

"Start"

"In 30 minutes"

"Refuse"



- ♦ Configuration of FPU

<Response Message and Category Name>

Task Request Receivable must be enabled first. Enabling this configuration can use Task

Request function.

Necessary response message must be set in Response field.

The responded Task Request message is stored separately in the folder corresponding to the Response message. The folder name must be configured in Category fields.

Up to 16 kinds of Response message can be configured.

No.	Response	Category
1	Start	Started
2	Stop	Stopped
3	Complete	Completed
4	In 30 minutes	In 30 min
5	Refuse	Refused
6		
7		
8		
9		

Figure 2-2 FPU Configuration

<Key Assignment, Menu>

Task Request Confirmation must be assigned for Key Assignment/Menu. This assignment enables to check the stored Task Request messages in the radio.

Subscriber radio can store up to 100 of received Task Request messages. The stored message can be checked in Task Request Confirmation mode.

The messages are sorted into the each folder preconfigured by FPU in Task Request Confirmation mode. The display shows how many message is stored in the each folder. It enables to find the necessary message and to know its status easily.

Configuring by FPU as Figure above sorts the messages as bellow.

- All: stored all of received messages (exists regardless with FPU configuration)
- New: stored unresponding messages (exists regardless with FPU configuration)
- Started: stored the messages responded as "Start"
- Stopped: stored the messages responded as "Stop"

Same as above.

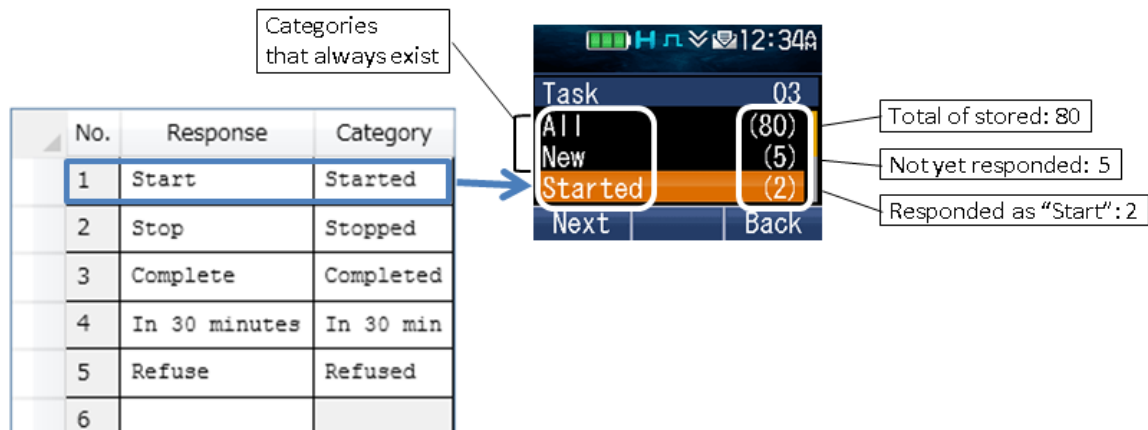


Figure 2-3 Task Stored Folder

- ♦ Example of a message moves a folder by Response
- (1) When a message is unread



Figure 2-4 Unread message

It is stored in "New" folder.

- (2) When the message is responded as "Refuse"

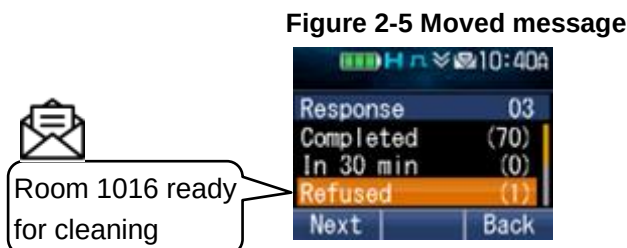


Figure 2-5 Moved message

The message moves from "New" folder to "Refused" folder. Number of message in "New" folder changes from 2 to 1.

3. Modify the sent Task Request message (Dispatcher)

Dispatcher can know status of tasks by responses from subscribers.

Dispatcher can inform a modification of the task according to its status.

- ♦ Replacing a stored message is possible.
- ♦ Deleting a stored message is possible.

The following is an example of a process for changing the subscriber in charge of the refused task.

- (1) Delete the stored Task Request message in the subscriber radio which refused the task.
- (2) Send the Task Request message newly to any others.



✓	Task	Task Sent Date	Response		User Name
	Room 1012 ready for cleaning	Feb. 23, 2018, 10:45			Cleaner032
	Room 1015 ready for cleaning	Feb. 23, 2018, 10:41			Cleaner031
	Room 1010 ready for cleaning	Feb. 23, 2018, 10:40	Start	10:40	Cleaner005
☒	Room 1016 ready for cleaning	Feb. 23, 2018, 10:35	Refuse	10:40	Cleaner006
	Cleaner staff meeting at 15:00	Feb. 23, 2018, 10:35			Cleaner006
	Room 601 ready for cleaning	Feb. 23, 2018, 10:33	Start	10:38	Cleaner006
	Room 501, replace the light bulbs.	Feb. 23, 2018, 10:31	In 30 minutes	10:31	EngG020
	Room 505, pick up the baggages.	Feb. 23, 2018, 10:00	Completed	10:24	BellG010
	Room 501 ready for cleaning	Feb. 23, 2018, 09:45	Completed	10:30	Cleaner032
	Room 502 ready for cleaning	Feb. 23, 2018, 09:43	Completed	10:35	Cleaner031
	Room 1212, delever two bath towels.	Feb. 23, 2018, 09:30	Completed	9:35	Room022
	Room 1212, delever breakfast.	Feb. 23, 2018, 09:30	Completed	9:45	Room021

Figure 2-6 Example of Task Management Application display

4. Updating the status of task (Subscriber)

It is possible to update the status of the task by responding again when the progress was changed. Follows are example of Responses.

"Stop"

"Complete"



The stored message in "Started" folder moves to "Completed" folder by above operation.

Remarks

Developing a Task Request application must follow the interface specification for Task Request function. For the interface specification please contact to JVCKENWOOD Corporation.