

TECHNICAL BULLETIN

Title:	Hot Spare Feature					
Date:	11/26/2014	Version:	1.0	Pages	2	
Product:	DS-7716NI-SP/16, DS-9016HWI-ST and DS-96xxNI-ST					
Action Required:	Information only					

To increase the reliability of a multi-NVR system the DS-9016HWI-ST, DS-96xxNI-ST and DS-7716NI-SP/16 NVRs have a **HOT SPARE** feature. This feature allows one of the NVR to be used as a backup NVR.

The NVR that is set to a **HOT SPARE** mode stays **IDLE** and does not record any of the cameras. The **HOT SPARE** unit receives heartbeat packages from the **NORMAL** NVRs every 5 seconds. If it does not receive the heartbeat package then the **HOT SPARE** unit adopts the failed NVR's settings and picks up where the failed unit has left off. This feature will only function for unit with same or greater amount of channels. For example a DS-9664NI-ST can be a HOT SPARE for a DS-9632NI-ST, but not the other way around.

To set up the HOT SPARE feature:

On the Spare unit go to **MENU→SYSTEM CONFIGURATION→HOT SPARE** and change the working mode to **HOT SPARE MODE (Figure 1).** Please note: The default value for this feature is NORMAL MODE.

Work Mode	
Normal Mode	O Hot Spare Mode
Enable	
IPv4 address of the hot spare device Password of the hot spare device	
Working Status	Connected
Note: After the hot spare is enabled, you otherwise, this function is not available.	must link the working device to the hot spare device,

Figure 1

After changing the working mode the NVR must be restarted.

Next, the **NORMAL** units have to be introduced to the **HOT SPARE** unit (**Figure 2**). On the **NORMAL** unit go to **MENU→SYSTEM CONFIGURATION→HOT SPARE**

- a. Enable the HOT SSPARE Connection.
- b. Enter the HOT SPARE device's IP address.
- c. Enter the HOT SPARE device's password (Please note: The password is the NVR's password)

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Work Mode					
O Normal Mode	Hot Spare Mode				
Enable	2				
IPv4 address of the hot spare device	10 .18 .0 .231				
Password of the hot spare device					
Working Status	Connected				
Note: After the hot spare is enabled, you must link the working device to the hot spare device, otherwise, this function is not available.					



After the HOT SPARE unit has been introduced to the NORMAL unit, the NORMAL in the HOT SPARE settings of the HOT SPARE unit. Select the unit and add it to the WORKING DEVICE LIST (Figure 3a and 3b).

Work Mode	_	_	_		Work	(Mode					
O Normal Mode		Hot Spare Mo	ode			O Normal Mode		 Hot Spare M 	ode		
Device List					Devi	ce List					
No.	IP Address				No		IP Address				
_1	10.18.0.35										
Working Device Status				Add	Worl	ing Device Status				Add	
						-					
No. IP Address		Connection Status	Working Status	Del	No.	IP Address		Connection Status	Working Status	Del.	
					<u> </u>	10.18.0.35		Online	No record	*	
Figure 3a						Figure 3	b				

The CONNECTION STATUS in Figure 3b indicates the status of the NORMAL device (online or offline). The WORKING STATUS indicates the state that the NORMAL unit is in and can have one of the following values:

NO RECORD • BACKING UP

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- \rightarrow The unit is online, but it is not recording
- → The Normal unit is offline and the HOT SPARE unit is recording
- SYNCHRONIZING
- \rightarrow The NORMAL unit is back online and the recording is being transmitted back to the NORMAL unit

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