



IBM® i integration with BladeCenter® and System x®

IBM i iSCSI Solution Work Sheets

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Notes:

1. The **instructions** for filling out these work sheets are in the [IBM i iSCSI Solution Guide](#). See the **Server installation road map and checklist** chapter.
2. The planning work sheet items are referenced throughout this document and the Solution Guide using the naming convention shown in the **Item IDs** column in the table above.
3. This document is enabled as an electronic form, so you can fill out the work sheets and save them on your computer.

2 February 2012

This edition applies to version 5, release 4, modification 0 of IBM i (product number 5722-SS1) and to all subsequent releases and modifications until otherwise indicated in new editions.

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Integrated server deployment overview

Use this work sheet to record an overview of the integrated server deployment.

Item	Item Description	Value			
OV1	Description of this deployment				
OV2	Company or organization				
OV3	Contact (name, email, phone)				
OV4	IBM i version ¹	<input type="checkbox"/> i 7.1	<input type="checkbox"/> i 6.1.1	<input type="checkbox"/> i 6.1	<input type="checkbox"/> i 5.4
OV5	IBM i iSCSI target type ¹ (for initial server installation)	<input type="checkbox"/> Software target (SWT) – Ethernet NIC <input type="checkbox"/> Hardware target (HWT) – iSCSI HBA			
OV6	Integrated server OS version				
OV7	Server model name ²				
OV8	Server type and model number ³				
OV9	iSCSI initiator option P/N ⁴	Port 1	Port 2	Port 3	Port 4
Notes: ¹ Software targets are supported on IBM i 7.1 and i 6.1.1 (IBM i 6.1 with 6.1.1 or later machine code). ² Enter the model name for the server. For example, an HX5 or an x3400 M3. ³ Enter the server type and model, with format ttttmmm , where tttt is the type number and mmm is the model number. For example, enter 7872E6U for an HX5 blade with type number 7872 and model number E6U. Do not separate the values with a blank or dash (“-“). ⁴ Enter the iSCSI initiator adapter <u>option</u> part numbers (P/N) for each iSCSI initiator port that the server will use. Enter “ Embedded ” for embedded Ethernet NIC ports. Note that an adapter might also have an associated field replaceable unit (FRU) P/N and an adapter card assembly P/N (part number for the card itself). Make sure that you enter the adapter <u>option</u> P/N. Also note that the initial server installation boots from and uses just <u>one</u> iSCSI initiator port (except for ESX Embedded, which boots from flash memory). Any additional ports for multipath I/O (MPIO) are configured <u>after</u> the server is installed.					

Important: Use one of the following matrices in the [IBM i iSCSI Solution Guide](#) to validate the combination of integrated server operating system (OS) version, BladeCenter blade or System x server model, and iSCSI initiator adapters that you plan to use:

- **Blade server models**
- **System x server models**

Related information:

- **Installation Checklist** in [IBM i iSCSI Solution Guide](#)

BladeCenter or System x service processor

Use this work sheet to plan the values for the BladeCenter or System x service processor.

Item	Item Description	Value
General		
XSP1	Service processor type	<input type="checkbox"/> AMM (BladeCenter Advanced Management Module) <input type="checkbox"/> MM (BladeCenter Management Module) <input type="checkbox"/> IMM (System x Integrated Management Module) <input type="checkbox"/> RSA II with BMC (System x Remote Supervisor Adapter II) <input type="checkbox"/> BMC (System x Baseboard Management Controller, without an IMM or RSA II)
XSP2	Host name ¹	
XSP3	DHCP	<input type="checkbox"/> Enabled <input type="checkbox"/> Disabled
XSP4	IP address	N/A
XSP5	Subnet mask	N/A
XSP6	Gateway address	N/A
Login for IBM i to use to connect to the service processor.		
XSP7	Login ID (User name)	
XSP8	Password	
Login for administrators to use to connect to the service processor (optional):		
XSP9	Login ID (User name)	
XSP10	Password	
Notes: ¹ The host name is optional if DHCP is disabled in XSP3. A host name is not supported for a System x model that has only a BMC service processor (no IMM or RSA II).		

Related information:

- **Installation Checklist** in [IBM i iSCSI Solution Guide](#)

IBM i service processor configuration

Use this work sheet to record the values for the IBM i service processor configuration that is used to configure how IBM i communicates with the BladeCenter or System x service processor.

Note: This work sheet is not used for the **Power** server service processor.

Item	GUI Item Description (CL Keyword) ¹	Value
General		
SP1	Name (NWSCFG)	<input type="checkbox"/> New <input type="checkbox"/> Existing ²
SP2	Description (TEXT)	
Service processor connection:		
SP3	<input type="checkbox"/> Hostname (SPNAME)	Must match XSP2
SP4	<input type="checkbox"/> Internet address (SPINTNETA)	Must match XSP4
Enclosure identity (EID):		
SP5	Serial number ³	
SP6	Manufacturer type and model ³	
Notes: ¹ Shows the terms used in the IBM i GUI interfaces and the corresponding CRTNWSCFG command keywords. Note that if you use the CRTNWSCFG command instead of the GUI interface to create the object, then also specify keywords: TYPE(*SRVPRC) INZSP(*NONE) . Use the default values for all other keywords. ² For an existing service processor configuration, do not fill out the remaining values in this work sheet. ³ Use the BladeCenter chassis (not blade) or System x serial number and type/model values. These items must be blank for a System x model if it has only a BMC service processor (no IMM or RSA II).		

Related information:

- **Installation Checklist** in [IBM i iSCSI Solution Guide](#) ➤ 6.1: [Create NWS Configuration \(CRTNWSCFG\)](#)
- i 7.1: [Create NWS Configuration \(CRTNWSCFG\)](#) ➤ 5.4: [Create NWS Configuration \(CRTNWSCFG\)](#)

IBM i remote system configuration

Use this work sheet to select the values used to create the remote system configuration for the integrated BladeCenter blade or System x server.

Item	GUI Item Description (CL Keyword) ¹	Value ¹			
General					
RS1	Name (NWSCFG)		<input type="checkbox"/> New <input type="checkbox"/> Existing ²		
RS2	Description (TEXT)				
RS3	Service processor configuration (SPNWSCFG)	Must match SP1			
	Remote system identity (RMTSYSID):	<input type="checkbox"/> Blade		<input type="checkbox"/> System x	
RS4	Serial number ³	N/A (*SPNWSCFG)			
RS5	Manufacturer type and model ³	N/A			
Boot Parameters					
RS6	Boot parameter delivery method (DELIVERY)	<input type="checkbox"/> Dynamically delivered to remote system via DHCP (*DYNAMIC) – Recommended ⁴ <input type="checkbox"/> Manually configured on remote system (*MANUAL)			
CHAP Authentication					
RS7	Target CHAP (CHAPAUT)	<input type="checkbox"/> Enabled <input type="checkbox"/> Disabled (*NONE)			
RS8	CHAP name				
RS9	CHAP secret	<input type="checkbox"/> Generate (*GEN)			
RS10	Initiator CHAP (INRCHAPAUT) ⁵	<input type="checkbox"/> Enabled <input type="checkbox"/> Disabled (*NONE)			
RS11	CHAP name				
RS12	CHAP secret ⁶	<input type="checkbox"/> Generate (*GEN)			
Remote Interfaces (RMTIFC)					
Item	Item Description	Initial Install ⁷	Additional Ports for Multipath I/O (MPIO) ⁷		
		Port 1	Port 2	Port 3	Port 4
RS13	Adapter type ⁸	<input type="checkbox"/> SWI <input type="checkbox"/> HWI	<input type="checkbox"/> SWI <input type="checkbox"/> HWI	<input type="checkbox"/> SWI <input type="checkbox"/> HWI	<input type="checkbox"/> SWI <input type="checkbox"/> HWI
Remote (initiator) SCSI Interface:					
RS14	Adapter address ⁹				
RS15	Internet address				
RS16	Subnet mask				
RS17	Gateway address ¹²	None (*NONE)	None (*NONE)	None (*NONE)	None (*NONE)
RS18	iSCSI qualified name (IQN) ¹⁰	Port 1	<input type="checkbox"/> Generate (*GEN) <input type="checkbox"/> Specific	iqn.1924-02.com.ibm:_____i0	
		Port 2	<input type="checkbox"/> Generate (*GEN) <input type="checkbox"/> Specific	iqn.1924-02.com.ibm:_____i_	
		Port 3	<input type="checkbox"/> Generate (*GEN) <input type="checkbox"/> Specific	iqn.1924-02.com.ibm:_____i_	
		Port 4	<input type="checkbox"/> Generate (*GEN) <input type="checkbox"/> Specific	iqn.1924-02.com.ibm:_____i_	
Remote (initiator) LAN Interface:					
RS19	Adapter address ¹¹				
RS20	Internet address				
RS21	Subnet mask				
RS22	Gateway address ¹²	None (*NONE)	None (*NONE)	None (*NONE)	None (*NONE)

Notes:

- ¹ Shows the terms used in the IBM i GUI interfaces and the corresponding **CRTNWSCFG** command keywords or special values. Note that if you use the **CRTNWSCFG** command instead of the GUI interface to create the object, then also specify keyword: **TYPE(*RMTSYS)**. Use the default values for all other keywords.
- ² For an existing remote system configuration, do not fill out the remaining values in this work sheet.
- ³ Use the blade (not chassis) serial number and type/model values.
- ⁴ Uses an integrated DHCP server. It does not require a general purpose DHCP server in your iSCSI network.
- ⁵ For **IBM i 5.4**, you must select **Disabled**, since initiator CHAP is not supported with i 5.4.
- ⁶ The CHAP secrets for target and initiator CHAP must not match.
- ⁷ You can plan for all of the iSCSI initiator ports that the server will use. However, the initial server installation uses just one iSCSI initiator port (except for ESX Embedded, which does not use any ports because it is pre-installed in flash memory). Any additional ports for MPIO are configured after the server is installed.
- ⁸ Adapter types: SWI = software initiator (Ethernet NIC) and HWI = hardware initiator (iSCSI HBA).
- ⁹ The adapter address is a 12 digit hexadecimal value (the value starts with either 00C0DD or 000D60 for an iSCSI HBA). For an iSCSI HBA, get the **SCSI** value from the iSCSI HBA **iSCSI** label. Otherwise, get it from the Ethernet NIC label.
- ¹⁰ The generated iSCSI qualified name (IQN) format is: **iqn.1924-02.com.ibm:sssssss.p** where:
- **sssssss** is the System x (see item **SP5**) or blade (see item **RS4**) serial number, in lower case.
 - For **IBM i 7.1** and **6.1**: **p** is always **0** (zero). Note that the same IQN value is used for all initiator ports.
For **IBM i 5.4**: **p** is the System x or blade iSCSI adapter interface/port number (**0-3**, with **0**=first port).
- ¹¹ The adapter address is a 12 digit hexadecimal value (the value starts with either 00C0DD or 000D60 for an iSCSI HBA). For an iSCSI HBA, get the **LAN** value from the iSCSI HBA **TOE** label. Otherwise, get it from the Ethernet NIC label and use the same value for both the SCSI and LAN interfaces.
- ¹² For **IBM i 5.4**, if you are using the **CRTNWSCFG** command instead of the GUI interface to create the object, then leave the gateway address blank, since the ***NONE** special value is not allowed on 5.4.

Related information:

- **Installation Checklist** in [IBM i iSCSI Solution Guide](#) ➤ 6.1: [Create NWS Configuration \(CRTNWSCFG\)](#)
- i 7.1: [Create NWS Configuration \(CRTNWSCFG\)](#) ➤ 5.4: [Create NWS Configuration \(CRTNWSCFG\)](#)

iSCSI initiator

Use this work sheet to select the parameters to configure the iSCSI initiator in the BladeCenter blade or System x server. The values that should be filled into this work sheet are indicated by the **Dynamic** and **Manual** columns and are indicated as Required, Optional, or N/A (Not Applicable).

Item	Item Description	Addressing mode ¹		Value			
		<input type="checkbox"/> Dynamic	<input type="checkbox"/> Manual				
Adapter settings							
IN1	LUNs per Target	Optional	Optional	64			
IN2	Initiator IP address by DHCP	Required	Required	NO			
IN3	Initiator IP address	N/A	Required	Use item RS15 values			
IN4	Subnet mask	N/A	Required	Use item RS16 values			
IN5	Gateway IP address	N/A	Required	Leave this field empty			
IN6	Initiator iSCSI Name	N/A	Required	Use item RS18 values			
IN7	Initiator Chap Name	Optional	Optional	Use item RS11 value			
IN8	Initiator Chap Secret	Optional	Optional	Use item RS12 value			
iSCSI Boot Settings							
IN9	Adapter Boot Mode ²	Required	Required	Port 1	Port 2	Port 3	Port 4
		Initial install		<input type="checkbox"/> Disabled <input type="checkbox"/> DHCP <input type="checkbox"/> Manual	Disabled	Disabled	Disabled
		Post-install (MPIO boot)		Same as above	<input type="checkbox"/> Disabled <input type="checkbox"/> Same as port 1	<input type="checkbox"/> Disabled <input type="checkbox"/> Same as port 1	<input type="checkbox"/> Disabled <input type="checkbox"/> Same as port 1
IN10	Target IP	N/A	Required	Use item NH8 value			
IN11	Target iSCSI Name ³	N/A	Required	iqn.1924-02.com.ibm:.....t			
IN12	Chap	Required	Required	Use item RS7 value			
IN13	Chap Name	Optional	Optional	Use item RS8 value			
IN14	Chap Secret	Optional	Optional	Use item RS9 value			
IN15	Bidirectional CHAP	Optional	Optional	Use item RS10 value			
Advanced Adapter Settings							
IN16	MTU	Optional	Optional	Port 1	Port 2	Port 3	Port 4
				<input type="checkbox"/> 1500 <input type="checkbox"/> 9000	<input type="checkbox"/> 1500 <input type="checkbox"/> 9000	<input type="checkbox"/> 1500 <input type="checkbox"/> 9000	<input type="checkbox"/> 1500 <input type="checkbox"/> 9000

Notes:

¹ The value for item **RS6** determines the **Addressing Mode**. Dynamic addressing mode is recommended.

² For **ESXi Embedded**, use **Disabled** for all ports, since **ESXi Embedded** boots from flash memory.

For all other operating system versions:

- **Initial install:** Chose **DHCP** or **Manual** for **Port 1**, depending on the value for item **RS6**. Note that only the first port can be enabled for boot during the installation – all other ports are **Disabled** for booting.
- **Post-install (MPIO boot):** After the server is installed and if your server operating system supports MPIO boot, then you can enable additional ports for booting by choosing **Same as port 1** for the additional ports.

³ The target iSCSI Name (IQN) format is: **iqn.1924-02.com.ibm:sssssssi.nnnnnnnn.tp** where:

- **sssssss** is the Power server serial number, in lower case letters.
- **i** is the Power server logical partition ID.
- **nnnnnnnn** is the network server description (NWSD) name, in lower case letters. See item **IS7**.
- **p** is the storage path number from the NWSD (**1-4** or **m**, with **1**=first and only storage path for new installations and **m**=the multipath group for MPIO support).

Related information:

- **Installation Checklist** in [IBM i iSCSI Solution Guide](#)

IBM i iSCSI target network server host adapter

Use this work sheet to plan the values used to create the iSCSI target network server host adapter (NWSH).

Item	GUI Item Description (CL Keyword) ¹		Value ¹				
Initial install NWSH			NWSH 1 in NWSD				
General							
NH1	Name (DEV D)		<input type="checkbox"/> New <input type="checkbox"/> Existing ²				
NH2	Description (TEXT)						
NH3	iSCSI target type		<input type="checkbox"/> Software Target	<input type="checkbox"/> Hardware Target			
NH4	Hardware resource (RSRCNAME)	i 7.1	Virtual (*VRT)	CMN____			
		i 6.1.1					
		i 6.1	N/A				
		i 5.4	N/A	LIN____			
NH5	Online at IPL (ONLINE)		No (*NO) ³	<input type="checkbox"/> Yes (*YES) <input type="checkbox"/> No (*NO)			
Local (Target) Interface (LCLIFC)							
NH6	Subnet mask		None (*NONE)				
NH7	Cable connection	i 7.1	Network (*NETWORK)	<input type="checkbox"/> Network (*NETWORK) <input type="checkbox"/> Direct (*DIRECT)			
		i 6.1					
		i 5.4	N/A	N/A			
Local (target) SCSI Interface:							
NH8	Internet address		(= IF1)				
NH9	Gateway address ⁴		None (*NONE) None (*NONE)				
Local (target) LAN Interface:							
NH10	Internet address		None (*IPSCSI)				
NH11	Gateway address ⁴		None (*NONE) None (*NONE)				
Post-install NWSHs (MPIO)		NWSH 2		NWSH 3		NWSH 4	
NH1-M	Name						
NH2-M	Description						
NH3-M	iSCSI target type	<input type="checkbox"/> SWT <input type="checkbox"/> HWT	<input type="checkbox"/> SWT <input type="checkbox"/> HWT	<input type="checkbox"/> SWT <input type="checkbox"/> HWT	<input type="checkbox"/> SWT <input type="checkbox"/> HWT	<input type="checkbox"/> SWT <input type="checkbox"/> HWT	<input type="checkbox"/> SWT <input type="checkbox"/> HWT
NH4-M	Hardware resource						
NH5-M	Online at IPL	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
NH6-M	Subnet mask						
NH7-M	Cable connection	<input type="checkbox"/> Network <input type="checkbox"/> Direct	<input type="checkbox"/> Network <input type="checkbox"/> Direct	<input type="checkbox"/> Network <input type="checkbox"/> Direct	<input type="checkbox"/> Network <input type="checkbox"/> Direct	<input type="checkbox"/> Network <input type="checkbox"/> Direct	<input type="checkbox"/> Network <input type="checkbox"/> Direct
NH8-M	SCSI IP address						
NH10-M	LAN IP address						

Notes:

¹ Shows the terms used in the IBM i GUI interfaces and the corresponding **CRTDEVNWSH** command keywords or special values. Note that if you use the **CRTDEVNWSH** command instead of the GUI interface to create the object, then use the default values for all other keywords.

² For an existing NWSH, also fill in item **NH8** by looking at the NWSH properties, but do not fill out the remaining values in this work sheet.

³ See item **IF4** to automatically start a software target (virtual) NWSH.

⁴ For **IBM i 5.4**, if you are using the **CRTDEVNWSH** command instead of the GUI interface to create the object, then leave the gateway address blank, since the ***NONE** special value is not allowed on 5.4.

Related information:

- **Installation Checklist** in [IBM i iSCSI Solution Guide](#)
- i 7.1: [Create Device Desc \(NWSH\)](#)
- i 6.1: [Create Device Desc \(NWSH\)](#)
- i 5.4: [Create Device Desc \(NWSH\)](#)

IBM i line description for iSCSI software target NWSH

Use this work sheet to plan the values used to create an Ethernet line description (LIND) object for an iSCSI software target (virtual) network server host adapter (NWSH).

Note: Fill out this work sheet only for an iSCSI software target (virtual) NWSH. It is not needed for an iSCSI hardware target NWSH.

Item	GUI Item Description (CL Keyword) ¹	Value		
Initial install LIND		LIND 1 for NWSH 1 in NWSD		
LD1	Name (LIND)	(=IF5) <input type="checkbox"/> New <input type="checkbox"/> Existing ²		
LD2	Description (TEXT)			
LD3	Hardware resource (RSRCNAME)	CMN_____		
LD4	Maximum frame size (MAXFRAME)	<input type="checkbox"/> Default (8996) <input type="checkbox"/> Value (1496-8996): _____		
Post-install LINDs (MPIO)		LIND 2	LIND 3	LIND 4
LD1-M	Name			
LD2-M	Description			
LD3-M	Hardware resource	CMN_____	CMN_____	CMN_____
LD4-M	Maximum frame size	<input type="checkbox"/> Default (8996) <input type="checkbox"/> Value: _____	<input type="checkbox"/> Default (8996) <input type="checkbox"/> Value: _____	<input type="checkbox"/> Default (8996) <input type="checkbox"/> Value: _____
Notes:				
¹ Shows the terms used in the IBM i GUI interfaces and the corresponding CRTLINETH command keywords or special values. Note that if you use the CRTLINETH command instead of the GUI interface to create the object, then use the default values for all other keywords.				
² For an existing line description, do not fill out the remaining values in this work sheet.				

Related information:

- **Installation Checklist** in [IBM i iSCSI Solution Guide](#)
- i 7.1: [Create Line Desc \(Ethernet\)](#)
- i 6.1: [Create Line Desc \(Ethernet\)](#)

IBM i TCP/IP interface for iSCSI software target NWSH

Use this work sheet to plan the values used to add a TCP/IP interface for an iSCSI software target (virtual) network server host adapter (NWSH).

Note: Fill out this work sheet only for an iSCSI software target (virtual) NWSH. It is not needed for an iSCSI hardware target NWSH.

Item	GUI Item Description (CL Keyword) ¹	Value		
Initial install TCP/IP Interface		TCP/IP Interface 1 for NWSH 1 in NWSD		
IF1	Internet address (INTNETADR)	(=NH8)	<input type="checkbox"/> New <input type="checkbox"/> Existing ²	
IF2	Subnet mask (SUBNETMASK)			
IF3	Description (TEXT)			
IF4	Start every time TCP/IP is started (AUTOSTART)	<input type="checkbox"/> Yes (*YES) <input type="checkbox"/> No (*NO)		
IF5	Line description name (LIND)	Must match LD1		
Post-install IFCs (MPIO)		TCP/IP Interface 2	TCP/IP Interface 3	TCP/IP Interface 4
IF1-M	Internet address			
IF2-M	Subnet mask			
IF3-M	Description			
IF4-M	Auto-start	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
IF5-M	LIND name			
Notes:				
¹ Shows the terms used in the IBM i GUI interfaces and the corresponding ADDTCPIFC command keywords or special values. Note that if you use the ADDTCPIFC command instead of the GUI interface to create the object, then use the default values for all other keywords.				
² For an existing TCP/IP interface, do not fill out the remaining values in this work sheet.				

Related information:

- **Installation Checklist** in [IBM i iSCSI Solution Guide](#)
- i 7.1: [Add TCP/IP Interface \(ADDTCPIFC\)](#)
- i 6.1: [Add TCP/IP Interface \(ADDTCPIFC\)](#)

Integrated server installation

Use this work sheet to record the values used in the **Create Server** Web GUI task or the corresponding server installation CL command.

Item	IBM i	Operating System (CL Special Value) ¹	Web GUI ²	Command	Keyword			
IS1	i 7.1	<input type="checkbox"/> Windows® Server 2008 (*WIN2008)	✓	INSINTSVR	OSTYPE			
		<input type="checkbox"/> VMware ESXi Embedded 4 or 5 (*ESXIE)						
	i 6.1	<input type="checkbox"/> VMWare ESXi Installable 4 or 5 (*ESXII)	✓	INSWNTSVR	WNTVER			
		<input type="checkbox"/> Windows Server 2003 (*WIN2003)						
		<input type="checkbox"/> Windows Server 2008 (*WIN2008)				✓	INSWNTSVR	WNTVER
		<input type="checkbox"/> Windows Server 2003 (*WIN2003)						
i 5.4	<input type="checkbox"/> VMware ESX 4 (*ESX4)	✓	INSLNXSVR	LNXSVRDST				
	<input type="checkbox"/> VMware ESX 3.5 (*ESX3)							
		<input type="checkbox"/> Windows Server 2003 (*WIN2003)		INSWNTSVR	WNTVER			
		<input type="checkbox"/> VMware ESX 3.5 (*ESX3)		INSLNXSVR	LNXSVRDST			
Item	Item Description (CL Keyword) ¹		Value ¹					
Key attributes								
IS2	System storage capacity (SVRSTGSIZE)			N/A for ESXi Embedded				
IS3	Storage pool (SVRSTGASP/STGASPDEV)			N/A for ESXi Embedded				
IS4	Remote system configuration (RMTNWSCFG)			Must match RS1				
IS5	iSCSI target NWSH (STGPTH)			Must match NH1				
IS6	Memory pool (POOL)	i 7.1	<input type="checkbox"/> GUI default memory pool					
		i 6.1	<input type="checkbox"/> Pool (*SHRPOOL _{nn}): ____					
		i 5.4	Use subsystem description QFPHIS ³					
IS7	NWSD name (NWSD)							
IS8	NWSD description (TEXT)							
Additional Required INSWNTSVR and INSLNXSVR command attributes for i 6.1 and 5.4								
IS9	Installation type (INSTYPE)		*FULL	INSWNTSVR only				
IS10	Resource name (RSRCNAME)		*ISCSI					
IS11	Virtual Ethernet path (VRTETHPTH)	Port	*VRTETHPTP					
		NWSH		Must match NH1				
IS12	Service processor configuration (SPNWSCFG)			Must match SP1				
IS13	Connection security configuration (CANNWSCFG)		QCNNSEC					
Advanced INSINTSVR, INSWNTSVR, and INSLNXSVR command attributes								
IS14	Language version (LNGVER)		<input type="checkbox"/> Primary (*PRIMARY) <input type="checkbox"/> Other:					
IS15	Restricted device resources (RSTDDEVRSC) ⁴		<input type="checkbox"/> OS type (*OSTYPE or *NONE) <input type="checkbox"/> Other:					
IS16	Virtual PTP Ethernet port (VRTPTPPORT) ⁵	OS type (*OSTYPE or *GEN)	<input type="checkbox"/> Other - fill in IP addresses:					
			IBM i:					
			Windows:					
Additional advanced command attributes			Keyword(value)					
IS17	See the install command documentation listed under Related information below.							
	Record any additional keywords and associated values that you need for the server installation.							

Notes:

¹ Shows the terms used in the IBM i GUI interfaces and the corresponding **INSxxxSVR** (**INSINTSVR**, **INSWNTSVR**, or **INSLNXSVR**) command keywords or special values.

² If you plan to use the **i 7.1** or **6.1 Create Server Web GUI** task to install the server, then fill in only items **IS1** through **IS8** in the work sheet. Note that if you need to use non-default values for any of the attributes listed in items **IS9** through **IS17**, then you must use the appropriate **INSxxxSVR** CL command to install the server, since those attributes are not available in the **Create Server Web GUI** task.

³ For **IBM i 5.4**, the install command memory pool keyword is not available. Instead, use a private memory pool by creating a subsystem description named **QGPL/QFPHIS** and allocating a private memory pool of at least 4096 kilobytes to the subsystem.

⁴ For **RSTDDEVRSC**, **OS Type** corresponds to ***NONE** for **Windows** servers on all IBM i releases.

OS Type corresponds to ***ALL** for **ESX** servers on IBM i **7.1** and **6.1**, which is the required value for **ESX** servers. However, on IBM i **5.4**, **OS Type** corresponds to ***NONE** for **ESX** servers, so you must put a check mark in the box labeled **Other** and also record ***ALL** for **ESX** servers on IBM i **5.4**.

Also note that the ***OSTYPE** special value is only used on the **INSINTSVR** command. The **INSWNTSVR** and **INSLNXSVR** commands use ***NONE** as the default. However, on i 6.1 the **INSLNXSVR** command ignores the ***NONE** value for **ESX** servers and substitutes the required ***ALL** value.

⁵ For **VRTPTPPORT**, **OS Type** corresponds to ***GEN** for **Windows** servers on all IBM i releases.

OS Type corresponds to ***NONE** for **ESX** servers on IBM i **7.1** and it corresponds to ***GEN** for **ESX** servers on IBM i **6.1** and **5.4**.

Also note that the ***OSTYPE** special value is only used on the **INSINTSVR** command. The **INSWNTSVR** and **INSLNXSVR** commands use ***GEN** as the default.

Related information:

- **Installation Checklist** in [IBM i iSCSI Solution Guide](#)
- i 7.1: [Install Integrated Server \(INSINTSVR\)](#)
- i 7.1: [Install Windows Server \(INSWNTSVR\)](#)
- i 6.1: [Install Windows Server \(INSWNTSVR\)](#)
- i 6.1: [Install Linux Server \(INSLNXSVR\)](#)
- i 5.4: [Install Windows Server \(INSWNTSVR\)](#)
- i 5.4: [Install Linux Server \(INSLNXSVR\)](#)

Integrated VMware ESX server management

Use this work sheet to plan for IBM i to manage an integrated VMware ESX server.

Item	Item Description		Value
EM1	i 7.1	All ESX versions	<input type="checkbox"/> Management server based infrastructure
		All ESXi versions	
	i 6.1	ESX 4	<input type="checkbox"/> Management server based infrastructure <input type="checkbox"/> Service console based infrastructure ¹
		ESX 3.5	<input type="checkbox"/> Service console based infrastructure ¹
i 5.4	ESX 3.5		
EM2	Management server NWSD name (integrated Windows server)		
EM3	ESX server NWSD name		Must match IS7
EM4	ESX server IP address or host name		
EM5	ESX platform manager IP address or host name (optional)		
Notes:			
¹ If using the service console based infrastructure, do not fill out the remaining values in this work sheet.			

Related information:

- **Installation Checklist** in [IBM i iSCSI Solution Guide](#)

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