

# IBM i Power External Storage Support Matrix Summary

## IBM i Power External Storage Support Matrix Summary

[Last updated: August 9, 2022 \(Change log is on page 13\)](#)

IBM System Storage Interoperation Center (SSIC) should be used to determine current support for IBM Storage products. This document is intended to provide a quick reference when access to SSIC is not available. And to clarify support when IBM i utilizes VIOS VSCSI or NPIV connections to access storage devices. The URL to access SSIC is:

<http://www-03.ibm.com/systems/support/storage/ssic/interoperability.wss>

**When neither SSIC nor this document indicate support, a SCORE RPQ request must be submitted.**

This information is provided on "as is" basis and though each data point has been checked, it is possible a point was missed or entered incorrectly into the tables. IBM is working on enhancements to these IBM i & IBM Storage combinations. This document will be updated as enhancements and product announcements are made.

### NOTES:

- The following tables do not include detailed considerations. For example, all server firmware levels or required PTFs are not included.
- Power10 enterprise servers require IBM i licensed internal code (LIC) level 7.3 with technology refresh 11 (TR11) or 7.4 with technology refresh 5 (TR5) or later.
- Power10 scale-out servers require IBM i licensed internal code (LIC) level 7.3 with technology refresh 12 (TR12) or 7.4 with technology refresh 6 (TR6) or 7.5 or later.
- Power9 servers require IBM i licensed internal code (LIC) level 7.2 with technology refresh 8 (TR8) or 7.3 with technology refresh 4 (TR4) or later.
  - IBM i 7.1 is supported on selected servers with restrictions. For more information, see below.
- Power8 servers require IBM i licensed internal code (LIC) level 7.1 with technology refresh 8 (TR8) or later.
- Power7 servers require IBM i licensed internal code (LIC) level 6.1.1 or later.
- VIOS support requires IBM i 6.1 or later and Power6 or later server technology.
- NPIV requires IBM i LIC 6.1.1 or later with exceptions as noted below. NPIV capable fibre channel adapters and SAN switches are also required.
- When attached with a switched fabric, the FlashSystem 840/900 may report the IBM i Host State as "Degraded", even for properly configured systems. So the switch zoning should be verified to ensure the IBM i host ports are not degraded. The IBM i ports should explicitly be zoned to separate canisters on the FlashSystem 840/900 for a proper multipath configuration.
- The FlashSystem A9000 and FlashSystem A9000R are not generally supported with IBM i, please open a SCORE/RPQ for evaluation.
- The Lenovo branded V3700 is **not** supported with IBM i.

Additional details regarding IBM i 7.1 support on select Power9 servers can be found here:

- <https://www.ibm.com/support/pages/ibm-i-license-topics>

The most current version of this document can be found here:

- <https://www.ibm.com/support/pages/node/6354233>

### Definition of IBM i attach methods

**Direct attach** – switch or fabric device is not required between the adapter allocated to the IBM i LPAR and the storage device. Unless otherwise noted, **direct attach** requires matching hardware on Server and Storage (e.g. 8Gbps to 8Gbps, 16 Gbps to 16Gbps, or 32Gbps to 32Gbps).

**Fabric attach** – switch or fabric device is required between the adapter allocated to the IBM i LPAR and the storage device

**VIOS VSCSI** – A virtual I/O server (VIOS or IBM i) provides a virtual SCSI adapter and virtual SCSI storage devices to a client operating system (IBM i, AIX, or Linux for VIOS; IBM i, AIX, Linux, or Windows for IBM i). Storage may be direct attached (no SAN switches) to the adapters assigned to the VIOS partition. Consult SSIC for valid configurations.

**VIOS NPIV** – N\_Port ID Virtualization (NPIV) – aka virtual fibre channel – A virtual I/O server (VIOS) provides a virtual fibre channel adapter to the client operating system (IBM i, AIX, or Linux). A switch capable of supporting NPIV is required.

## IBM i Power External Storage Support Matrix Summary

### Power10 servers

Storage family	IBM i attach method				Notes
	Direct	Fabric	VIOS VSCSI	VIOS NPIV	
<b>DS8000</b> – DS888x, DS888xF, DS89xxF	IBM i 7.3 TR11, IBM i 7.4 TR5 and later	IBM i 7.3 TR11, IBM i 7.4 TR5 and later	IBM i 7.3 TR11, IBM i 7.4 TR5 and later	IBM i 7.3 TR11, IBM i 7.4 TR5 and later	
<b>Storwize</b> – V5010E, V5030, V5030E, V5030F, V5100, V5100F, V7000, V7000F	IBM i 7.3 TR11, IBM i 7.4 TR5 and later	IBM i 7.3 TR11, IBM i 7.4 TR5 and later	IBM i 7.3 TR11, IBM i 7.4 TR5 and later	IBM i 7.3 TR11, IBM i 7.4 TR5 and later	
<b>SVC</b>	IBM i 7.3 TR11, IBM i 7.4 TR5 and later	IBM i 7.3 TR11, IBM i 7.4 TR5 and later	IBM i 7.3 TR11, IBM i 7.4 TR5 and later	IBM i 7.3 TR11, IBM i 7.4 TR5 and later	<b>Direct attach:</b> - Direct attach is allowed only when Target Port Mode (NPIV) is in a Disabled or Transitional state.
<b>FlashSystems</b> – FS9100, FS9200, FS7200, FS7200H, FS5010, FS5010H, FS5030, FS5030H, FS5100, FS5100H, FS5015, FS5035, FS5200, FS7300, FS9500	IBM i 7.3 TR11, IBM i 7.4 TR5 and later	IBM i 7.3 TR11, IBM i 7.4 TR5 and later	IBM i 7.3 TR11, IBM i 7.4 TR5 and later	IBM i 7.3 TR11, IBM i 7.4 TR5 and later	

## IBM i Power External Storage Support Matrix Summary

### Power9 servers

Storage family	IBM i attach method				Notes
	Direct	Fabric	VIOS VSCSI	VIOS NPIV	
<b>DS8000</b> – DS8700, DS8800, DS8870, DS888x, DS888xF, DS89xxF	IBM i 7.2 TR8, IBM i 7.3 TR4 and later	IBM i 7.2 TR8, IBM i 7.3 TR4 and later	IBM i 7.1*, IBM i 7.2 TR8, IBM i 7.3 TR4 and later	IBM i 7.1*, IBM i 7.2 TR8, IBM i 7.3 TR4 and later	IBM i 7.2, 7.3, and 7.4 support only DS8700 and newer models.  DS89xxF requires a minimum of IBM i 7.2 TR8, 7.3 TR4 and 7.4 or later. Dynamic Volume Expansion is not supported by IBM i 7.2.  *IBM i 7.1 supported with restrictions
<b>Storwize</b> – V3500, V3700, V5000, V5010, V5010E, V5020, V5030, V5030E, V5030F, V5100, V5100F, V7000, V7000F	IBM i 7.2 TR8, IBM i 7.3 TR4 and later	IBM i 7.2 TR8, IBM i 7.3 TR4 and later	IBM i 7.1*, IBM i 7.2 TR8, IBM i 7.3 TR4 and later	IBM i 7.1*, IBM i 7.2 TR8, IBM i 7.3 TR4 and later	
<b>SVC</b>	IBM i 7.2 TR8, IBM i 7.3 TR4 and later	IBM i 7.2 TR8, IBM i 7.3 TR4 and later	IBM i 7.1*, IBM i 7.2 TR8, IBM i 7.3 TR4 and later	IBM i 7.1*, IBM i 7.2 TR8, IBM i 7.3 TR4 and later	<b>Direct attach:</b> - 7.5 or later SVC/Storwize firmware - There is no support for direct attach 8Gbps to 8Gbps - Direct attach is allowed only when Target Port Mode (NPIV) is in a Disabled or Transitional state.
<b>FlashSystems</b> – V840, V9000, FS9100, FS9200, FS7200, FS7200H, FS5010, FS5010H, FS5030, FS5030H, FS5100, FS5100H, FS5015, FS5035, FS5200, FS7300, FS9500	IBM i 7.2 TR8, IBM i 7.3 TR4 and later	IBM i 7.2 TR8, IBM i 7.3 TR4 and later	IBM i 7.1*, IBM i 7.2 TR8, IBM i 7.3 TR4 and later	IBM i 7.1*, IBM i 7.2 TR8, IBM i 7.3 TR4 and later	*IBM i 7.1 supported with restrictions
<b>FlashSystems</b> – FS810, FS820	SVC or Storwize is a pre-requisite. VIOS VSCSI virtualization without SVC or Storwize is <b>not</b> supported.				

## IBM i Power External Storage Support Matrix Summary

### Power9 servers (continued)

FlashSystems – FS840 AE1, FS900 AE2, FS900 AE3	IBM i 7.2 TR8, IBM i 7.3 TR4 and later	IBM i 7.2 TR8, IBM i 7.3 TR4 and later	No support	IBM i 7.2 TR8, IBM i 7.3 TR4 and later	<p><b>Direct attach:</b> The protocol on 8Gb ports must be configured as FC-AL, 16Gb ports must be configured as FC-P2P or Automatic.  <b>NPIV</b> requires VIOS 2.2.3.4 or later  <b>FlashSystem</b> 1.2.0.11 or later firmware</p> <p>All volumes must be created with a blocksize of 4096.</p> <p><b>NOTE:</b> FS840 or FS900 may be still be attached utilizing SVC or Storwize.</p> <p><b>CAUTION:</b> Certain unique workloads show lower than expected performance for IBM i hosts when attached to IBM FlashSystem 840/900 storage without SAN Volume Controller (SVC). It is recommended these opportunities be vetted with a POC to ensure the clients' workload does not encounter this performance issue. In addition, IBM i is maintaining a list of recommended PTFs for any clients running in a 4096 sector size configuration which is required with an attached FlashSystem 840/900. That list can be found here: <a href="https://www.ibm.com/support/pages/node/666523">https://www.ibm.com/support/pages/node/666523</a></p>
XIV	No support	No support	IBM i 7.1*, IBM i 7.2 TR8, IBM i 7.3 TR4 and later	No support	*IBM i 7.1 supported with restrictions
DCS3700	No support	No support	No support	No support	
<b>IBM i attach method</b>					
<b>Storage family</b>	<b>Direct</b>	<b>Fabric</b>	<b>VIOS VSCSI</b>	<b>VIOS NPIV</b>	<b>Notes</b>
DCS3860	No support	No support	IBM i 7.1*, IBM i 7.2 TR8, IBM i 7.3 TR4 and later	No support	*IBM i 7.1 supported with restrictions

## IBM i Power External Storage Support Matrix Summary

### Power8 servers

Storage family	IBM i attach method				Notes
	Direct	Fabric	VIOS VSCSI	VIOS NPIV	
<b>DS8000</b> – DS8400, DS8300, DS8700, DS8800, DS8870, DS888x, DS888xF, DS89xxF	IBM i 7.1 TR8 and later	IBM i 7.1 TR8 and later	IBM i 7.1 TR8 and later	IBM i 7.1 TR8 and later	IBM i 7.2, 7.3, and 7.4 support only DS8700 and newer models.  DS8880 requires IBM i 7.1 or 7.2 as the minimum supported operating system level.  If thin Provisioned volumes are used, IBM i 7.1 PTF MF60755 or IBM i 7.2 PTF MF60756 is required.  DS89xxF is supported with IBM i 7.2 TR8, 7.3 TR4 and 7.4 or later. Dynamic Volume Expansion is not supported by IBM i 7.2.
<b>Storwize</b> – V3500, V3700, V5000, V5010, V5010E, V5020, V5030, V5030E, V5030F, V5100, V5100F, V7000, V7000F	IBM i 7.1 TR8 and later	IBM i 7.1 TR8 and later	IBM i 7.1 TR8 and later	IBM i 7.1 TR8 and later	<b>Direct attach</b> requires: - 7.5 or later SVC/Storwize firmware - PCIe 4Gb fibre channel adapters (feature 5774 or 5276) - Adapter on the Storwize, SVC, or Flash System must be 4 or 8 Gbps  or (16Gb)  - 7.5 or later SVC/Storwize firmware - Minimum IBM i 7.1 TR10, 7.2 TR2, or 7.3
<b>SVC</b>	IBM i 7.1 TR8 and later	IBM i 7.1 TR8 and later	IBM i 7.1 TR8 and later	IBM i 7.1 TR8 and later	
<b>FlashSystems</b> – V840, V9000, FS9100, FS9200, FS7200, FS7200H, FS5010, FS5010H, FS5030, FS5030H, FS5100, FS5100H, FS5015, FS5035, FS5200	IBM i 7.1 TR8 and later	IBM i 7.1 TR8 and later	IBM i 7.1 TR8 and later	IBM i 7.1 TR8 and later	
<b>FlashSystems</b> – FS810, FS820	SVC or Storwize is a pre-requisite. VIOS VSCSI virtualization without SVC or Storwize is <b>not</b> supported.				

## IBM i Power External Storage Support Matrix Summary

### Power8 servers (continued)

FlashSystems – FS840 AE1, FS900 AE2, FS900 AE3	IBM i 7.2 TR2 and later	IBM i 7.2 TR2 and later	No support	IBM i 7.2 TR2 and later	<p><b>Direct attach:</b> The protocol on 8Gb ports must be configured as FC-AL, 16Gb ports must be configured as FC-P2P or Automatic.  <b>NPIV</b> requires VIOS 2.2.3.4 or later  <b>FlashSystem</b> 1.2.0.11 or later firmware</p> <p>All volumes must be created with a blocksize of 4096.</p> <p><b>NOTE:</b> FS840 or FS900 may be still be attached utilizing SVC or Storwize with IBM i 7.1 TR8 or later.</p> <p><b>CAUTION:</b> Certain unique workloads show lower than expected performance for IBM i hosts when attached to IBM FlashSystem 840/900 storage without SAN Volume Controller (SVC). It is recommended these opportunities be vetted with a POC to ensure the clients' workload does not encounter this performance issue. In addition, IBM i is maintaining a list of recommended PTFs for any clients running in a 4096 sector size configuration which is required with an attached FlashSystem 840/900. That list can be found here: <a href="https://www.ibm.com/support/pages/node/666523">https://www.ibm.com/support/pages/node/666523</a></p>
XIV	No support	No support	IBM i 7.1 TR8 and later	No support	
DCS3700	No support	No support	No support	No support	
<b>IBM i attach method</b>					
<b>Storage family</b>	<b>Direct</b>	<b>Fabric</b>	<b>VIOS VSCSI</b>	<b>VIOS NPIV</b>	<b>Notes</b>
DCS3860	No support	No support	IBM i 7.1 TR8 and later	No support	

## IBM i Power External Storage Support Matrix Summary

### Power7 and Power7+ servers (No longer maintained, provided for reference only)

Storage family	IBM i attach method				Notes
	Direct	Fabric	VIOS VSCSI	VIOS NPIV	
<b>DS8000</b> – DS8400, <del>DS8300</del> , DS8700, DS8800, DS8870, DS888x, DS888xF	IBM i 6.1 and later	IBM i 6.1 and later	IBM i 6.1 and later	IBM i 6.1 and later	Direct attach is available using <ul style="list-style-type: none"> <li>- PCI-x 4Gb fibre channel adapters (feature 5749)</li> <li>- PCIe 4Gb fibre channel adapters (feature 5774 or 5276)</li> <li>- PCIe 8Gb fibre channel adapters (features 5735 or 5273)</li> <li>- PCIe 16Gb fibre channel adapters (features EN0A or EN0B) which requires:               <ul style="list-style-type: none"> <li>- PCIe gen2 or gen3 adapter slots</li> <li>- Minimum IBM i releases are 7.1 TR10, 7.2 TR2, or 7.3</li> <li>- 16Gbps fibre on the DS8870 with firmware level R7.5 (87.50.114.0)</li> </ul> </li> </ul> IBM i 7.2 or 7.3 support only DS8700, DS8800, DS8870 and all DS888x models.  DS8880 requires IBM i 7.1 or IBM i 7.2 the minimum supported operating system level  If Thin Provisioned volumes are used on DS8870 (R7.4 or R7.5) or DS8880, IBM i 7.1 PTF MF60755 or IBM i 7.2 PTF MF60756 is required.
<b>Storwize</b> – V3500, V3700, V5000, V5010, V5020, V5030, V5030F, V7000, V7000F	IBM i 7.1 TR7 and later	IBM i 7.1 TR7 and later	IBM i 6.1 and later	IBM i 7.1 TR6 and later	<b>Direct attach</b> requires: <ul style="list-style-type: none"> <li>- 7.5 or later SVC/Storwize firmware</li> <li>- PCI-x 4Gb fibre channel adapters (feature 5749)</li> <li>- PCIe 4Gb fibre channel adapters (feature 5774 or 5276)</li> <li>- Adapter on the Storwize, SVC, or Flash System must be 4 or 8 Gbps</li> </ul>
<b>SVC</b>	IBM i 7.1 TR7 and later	IBM i 7.1 TR7 and later	IBM i 6.1 and later	IBM i 7.1 TR6 and later	or (16Gb) <ul style="list-style-type: none"> <li>- 7.5 or later SVC/Storwize firmware</li> <li>- Minimum IBM i 7.1 TR10, 7.2 TR2, or 7.3</li> </ul>
<b>FlashSystems</b> – V840, V9000, FS9100	IBM i 7.1 TR7 and later	IBM i 7.1 TR7 and later	IBM i 6.1 and later	IBM i 7.1 TR6 and later	There is no support for direct attach 8Gbps to 8Gbps.  Direct attach is allowed only when Target Port Mode (NPIV) is in a Disabled or Transitional state.
<b>FlashSystems</b> – FS810, FS820	SVC or Storwize is a pre-requisite. VIOS VSCSI virtualization without SVC or Storwize is <b>not</b> supported.				

## IBM i Power External Storage Support Matrix Summary

### Power7 and Power7+ servers (continued) (No longer maintained, provided for reference only)

Storage family	IBM i attach method				Notes
	Direct	Fabric	VIOS VSCSI	VIOS NPIV	
<b>FlashSystems – FS840 AE1, FS900 AE2, FS900 AE3</b>	IBM i 7.2 TR2 and later	IBM i 7.2 TR2 and later	No support	IBM i 7.2 TR2 and later	<p><b>Direct attach:</b> The protocol on 8Gb ports must be configured as FC-AL, 16Gb ports must be configured as FC-P2P or Automatic.</p> <p><b>NPIV</b> requires VIOS 2.2.3.4 or later</p> <p><b>FlashSystem</b> 1.2.0.11 or later firmware</p> <p>All volumes must be created with a blocksize of 4096.</p> <p>Power System requires xx780_40 or later firmware. (See page 10 of this document for more information.)</p> <p><b>NOTE:</b> FS840 or FS900 may be still be attached utilizing SVC or Storwize with IBM i 7.1 TR7 or later.</p> <p><b>CAUTION:</b> Certain unique workloads show lower than expected performance for IBM i hosts when attached to IBM FlashSystem 840/900 storage without SAN Volume Controller (SVC). It is recommended these opportunities be vetted with a POC to ensure the clients' workload does not encounter this performance issue. In addition, IBM i is maintaining a list of recommended PTFs for any clients running in a 4096 sector size configuration which is required with an attached FlashSystem 840/900. That list can be found here: <a href="https://www.ibm.com/support/pages/node/666523">https://www.ibm.com/support/pages/node/666523</a></p>
<b>XIV</b>	No support	No support	IBM i 6.1 and later	No support	
<b>DCS3700</b>	No support	No support	IBM i 6.1 and 7.1	No support	
<b>DCS3860</b>	No support	No support	IBM i 6.1 and later	No support	
<b>DS3000</b> – DS3400, DS3500, DS3700, DS3950	No support	No support	IBM i 6.1 and later	No support	<b>DS3200</b> is not supported on any rack/tower servers due to SAS only connections.
<b>DS4000</b> – DS4700, DS4800	No support	No support	IBM i 6.1 and later	No support	<b>DS3500</b> must utilize fibre channel connection for rack/tower servers.
<b>DS5020</b>	No support	No support	IBM i 6.1 and later	No support	
<b>DS5000</b> – DS5100, DS5300	IBM i 6.1 and later	IBM i 6.1 and later	IBM i 6.1 and later	IBM i 6.1 and later	<p>NPIV support requires IBM i 7.1 TR2 and server firmware xx730 or later.</p> <p>Direct attach is available using</p> <ul style="list-style-type: none"> <li>- PCI-x 4Gb fibre channel adapters (feature 5749)</li> <li>- PCIe 4Gb fibre channel adapters (feature 5774 or 5276)</li> <li>- PCIe 8Gb fibre channel adapters (features 5735 or 5273)</li> </ul>
<b>DS6800</b>	No support	No support	No support	No support	Support for Power7 or IBM i 7.1 must be made utilizing SCORE System RPQ process. Direct attach to may be requested using this process as well.



## IBM i Power External Storage Support Matrix Summary

### Power6 servers

(No longer maintained, provided for reference only)

Storage family	IBM i attach method				Notes
	Direct	Fabric	VIOS VSCSI	VIOS NPIV	
<b>DS8000</b> – DS8400, DS8300, DS8700, DS8800, DS8870	IBM i 6.1 and later	IBM i 6.1 and later	IBM i 6.1 and later	IBM i 6.1 and later	Direct attach is available using - PCI-x 4Gb fibre channel adapters (feature 5749) - PCIe 4Gb fibre channel adapters (feature 5774 or 5276) - PCIe 8Gb fibre channel adapters (features 5735 or 5273)  IBM i 7.2 supports DS8700, DS8800 and DS8870 models only.
<b>DS6000</b> – DS6800	IBM i 6.1	IBM i 6.1	No support	No support	<b>DIRECT</b> available when utilizing - PCI-x 4Gb fibre channel adapters (feature 5749) - PCIe 4Gb fibre channel adapters (feature 5774 or 5276)
<b>Storwize</b> – V3500, V3700, V5000, V7000	No support	No support	IBM i 6.1 and later	IBM i 7.1 TR6 and later	
<b>SVC</b>	No support	No support	IBM i 6.1 and later	IBM i 7.1 TR6 and later	
<b>FlashSystems</b> – FS810, FS820, FS840	SVC or Storwize is a pre-requisite. VIOS VSCSI virtualization without SVC or Storwize is <b>not</b> supported.				
<b>FlashSystems</b> – V840	No support	No support	IBM i 6.1 and later	IBM i 7.1 TR6 and later	
<b>XIV</b>	No support	No support	IBM i 6.1 and later	No support	
<b>DS3000</b> – DS3400, DS3500, DS3700, DS3950	No support	No support	IBM i 6.1 and later	No support	<b>DS3200</b> is not supported on any rack/tower servers due to SAS only connections. <b>DS3500</b> must utilize fibre channel connection for rack/tower servers.
<b>DS4000</b> – DS4700, DS4800	No support	No support	IBM i 6.1 and later	No support	
<b>DS5020</b>	No support	No support	IBM i 6.1 and later	No support	
<b>DS5000</b> – DS5100, DS5300	IBM i 6.1 and later	IBM i 6.1 and later	IBM i 6.1 and later	IBM i 6.1 and later	NPIV support requires IBM i 7.1 TR2 and server firmware xx730 or later.  Direct attach is available using - PCI-x 4Gb fibre channel adapters (feature 5749) - PCIe 4Gb fibre channel adapters (feature 5774 or 5276) - PCIe 8Gb fibre channel adapters (features 5735 or 5273)
<b>DS6800</b>	IBM i 6.1	IBM i 6.1	No support	No support	Support IBM i 7.1 must be made utilizing SCORE System RPQ process.  DIRECT attach available for Power6 systems when utilizing - PCI-x 4Gb fibre channel adapters (feature 5749) - PCIe 4Gb fibre channel adapters (feature 5774 or 5276)

## IBM i Power External Storage Support Matrix Summary

### Flex System Power ITEs

(No longer maintained, provided for reference only)

Storage family	IBM i attach method				Notes
	Direct	Fabric	VIOS VSCSI	VIOS NPIV	
<b>DS8000</b> – DS8100, DS8300, DS8700, DS8800, DS8870	No support	No support	IBM i 6.1 and later	IBM i 6.1 and later	IBM i 7.2 supports DS8700, DS8800 and DS8870 models only.
<b>Storwize</b> – V3500, V3700, V5000, V7000	No support	No support	IBM i 6.1 and later	IBM i 7.1 TR6 and later	
<b>SVC</b>	No support	No support	IBM i 6.1 and later	IBM i 7.1 TR6 and later	
<b>FlashSystems</b> – FS810, FS820, FS840	SVC or Storwize is a pre-requisite. VIOS VSCSI virtualization without SVC or Storwize is <b>not</b> supported.				
<b>FlashSystems</b> – V840	No support	No support	IBM i 6.1 and later	IBM i 7.1 TR6 and later	
<b>XIV</b>	No support	No support	IBM i 6.1 and later	No support	
<b>DCS3700</b>	No support	No support	IBM i 6.1 and 7.1	No support	

## IBM i Power External Storage Support Matrix Summary

### IBM Power Systems Power7 and Power8 firmware information

Refer to <http://www14.software.ibm.com/webapp/set2/sas/f/power5cm/supportedcodep7.html>  
 or access IBM Fix Central for more information about firmware for your specific Power Systems server

<b>Power Server</b>	<b>Machine type-Model (MTM)</b>	<b>Latest firmware level</b>	<b>Initial firmware level</b>
710 730	8231-E2B	730	720
	8231-E1C; 8231-E2C	740	740
720 740	8231-E1D; 8231-E2D	770	770
	8202-E4B; 8205-E6B	730	720
	8202-E4C; 8205-E6C	740	740
750	8202-E4D; 8205-E6D	770	770
	8233-E8B	730	710
770	8408-E8D	770	770
	9117-MMB	780	711
	9117-MMC	770	770
780	9117-MMD	780	780
	9179-MHB	780	711
	9179-MHC	770	770
795	9179-MHD	780	780
S822	9119-FHB	780	720
S814	8284-22A	SV860	SV810
S824	8286-41A	SV860	SV810
E870	8286-42A	SV860	SV810
E880	9119-MME	SC860	SC820
	9119-MHE	SC860	SC820

## IBM i Power External Storage Support Matrix Summary

Last updated April 25, 2013		Chassis type		Power Blades						Notes
				Blade type		IBM i version		IBM i attach		
		BCS	BCH	POWER6	POWER7	6.1	7.1	VIOS vSCSI	VIOS NPIV	
DS3000	DS3200	✓	⊘	✓	✓	✓	✓	✓	⊘	DS3200 only supports SAS connection and is not supported on BCH.  DS3500 has either SAS or Fibre channel connections. BCH blades support either SAS or Fibre channel. BCS blades support only SAS.
	DS3400	⊘	✓	✓	✓	✓	✓	✓	⊘	
	DS3500	✓	✓	✓	✓	✓	✓	✓	⊘	
	DS3700	⊘	✓	✓	✓	✓	✓	✓	⊘	
	DS3950	⊘	✓	✓	✓	✓	✓	✓	⊘	
DS4000	DS4700	⊘	✓	✓	✓	✓	✓	✓	⊘	
	DS4800	⊘	✓	✓	✓	✓	✓	✓	⊘	
DS5000	DS5020	⊘	✓	✓	✓	✓	✓	✓	⊘	NPIV support requires IBM i 7.1 TR2 NPIV support requires IBM i 7.1 TR2
	DS5100	⊘	✓	✓	✓	✓	✓	✓	✓	
	DS5300	⊘	✓	✓	✓	✓	✓	✓	✓	
DS6000	DS6800	⊘	⊘	⊘	⊘	⊘	⊘	⊘	⊘	See SCORE System RPCs for exception support
DS8000	DS8100	⊘	✓	✓	✓	✓	✓	✓	✓	
	DS8300	⊘	✓	✓	✓	✓	✓	✓	✓	
	DS8700	⊘	✓	✓	✓	✓	✓	✓	✓	
	DS8800	⊘	✓	✓	✓	✓	✓	✓	✓	
	DS8870	⊘	✓	✓	✓	✓	✓	✓	✓	
Storwize	v3500	⊘	✓	✓	✓	✓	✓	✓	✓	NPIV support requires IBM i 7.1 TR6 or later
	v3700	⊘	✓	✓	✓	✓	✓	✓	✓	NPIV support requires IBM i 7.1 TR6 or later
	v7000	⊘	✓	✓	✓	✓	✓	✓	✓	NPIV support requires IBM i 7.1 TR6 or later
SVC		⊘	✓	✓	✓	✓	✓	✓	✓	NPIV support requires IBM i 7.1 TR6 or later
XIV		⊘	✓	✓	✓	✓	✓	✓	⊘	
N Series		✓	✓	✓	✓	✓	✓	⊘	⊘	N Series is only supported for IFS via NFS mount and can only be used as file server. No load source or boot support. No IBM i DB2 support.

## IBM i Power External Storage Support Matrix Summary

### Change log:

- August 9, 2022: Power10 scale-out updates, added new FlashSystem products
- September 8, 2021: Power10 updates
- June 4, 2021: Added new FlashSystems products, updated reference URLs for this document and 4096 PTFs, added information about IBM i 7.1 on Power9.
- April 30, 2020: Added new FlashSystems products, cleared up some Direct Attach notes.
- December 17, 2019: Added DS89xxF
- May 8, 2019: Added V5010E, V5030E, V5100 to Power8 and Power9
- December 19, 2018: Added requirement that NPIV must be disabled/transitional for direct attach of SVC/Storwize/FlashSystems to Power7, Power8 and Power9
- October 1, 2018: Added the V7000F and the V5030F to Power7, Power8 and Power9 and modified several comments
- September 24, 2018: Added FS900 AE3 and corrected page reference for Power7 Firmware
- Last Updated September 6, 2018: Added Power9 support section and added support for FS9100
- February 12, 2018: Added AE2 to the Storage Family along with V840 and V900 for P8 and P7/P7+.
- March 1, 2017: Added note regarding FlashSystem 900 performance. Added support statement regarding Lenovo branded V3700.
- July 20, 2016: Added note regarding FlashSystem A9000 and A9000R
- July 6, 2016: Clarified support for Storwize, SVC, and FlashSystem Vxxx direct attach.
- May 16, 2016: Added V5010, V5020, V5030 Storwize systems. Added IBM i 7.3 support where applicable.
- March 7, 2016: Added DS8880; added information about DS8100 and DS8300 withdrawal from service
- January 5, 2016: Clarified Power7 server firmware requirements
- October 7, 2015: Added note regarding Flash System reporting host state as "degraded"
- September 9, 2015: Minor fix for storage attached to Power8 servers.
- June 29, 2015: Added information regarding firmware required on Power7 servers to support direct and native attached Flash Systems. Fixed feature code for low profile 8Gbps fibre channel
- June 16, 2015: Changed FS840 direct, fabric, and NPIV support. Clarified direct attach for DS8000, SVC, Storwize.
- June 1, 2015: DS8870 16Gbps fibre direct attach support
- May 13, 2015: Additional information for FS900 support added
- May 12, 2015: Additional information for FS900 support added
- May 4, 2015: Added FS900 native attach support
- March 4, 2015: Added V9000 and FS900
- December 18, 2014: Clarified support for DCS3700
- November 5, 2014: Added many no longer marketed storage systems support
- November 4, 2014: Added DCS3700 support
- September 16, 2014: Added definitions for attach methods
- September 2, 2014: Clarified DS8000 support for Power8
- July 28, 2014: Added direct attach for Power8 with 5774 adapters
- June 30, 2014: Added support for DS8700 for IBM i 7.2
- June 6: major revision to format, addition of Power8 servers, addition of IBM i 7.2