IBM i 7.1 on selected Power S922 and E980 servers

Prior to November 2020, IBM i 7.1 has not been available on servers with IBM POWER9 technology-based processors. Now an IBM i 7.1 Activation is available on the following servers with these specific configurations:

- Power Systems S922 (9009-22A) requires a Virtual I/O Server (VIOS), and the IBM i partitions must be set to restricted I/O mode. The Power Systems S922 (9009-22A) with the 4-core processor is not supported with IBM i.
- Power Systems S922 (9009-22G) requires VIOS, and the IBM i partitions must be set to restricted I/O mode. The Power Systems S922 (9009-22G) with the 4-core processor is not supported with IBM i. The Power Systems S922 (9009-22G) with the 1-core processor will not support the IBM i 7.1 activation.
- Power Systems E980 (9080-M9S) requires VIOS, and the IBM i 7.1 partitions must be set to restricted I/O mode.

For information regarding restricted I/O mode, see IBM Documentation "Changing Advanced Partition Settings".

The IBM i 7.1 Activation is a hardware feature that enables IBM i 7.1 to install and run on the Power S922 and Power E980 servers. The IBM i 7.1 Activation hardware feature does not change any IBM i software ordering behavior in e-config.

Steps to order the IBM i 7.1 Activation on the S922A, S922G, and E980:

For both initial orders and MES orders, the IBM i 7.1 Activation feature is on the "Order Codes" display. The IBM i 7.1 Activation feature will generate a hardware activation code. Upon order fulfillment, retrieve the hardware activation code from Power Systems Capacity on Demand.

For new orders of the Power S922 or Power E980 server where the IBM i 7.1 Activation is desired, order the IBM i 7.1 Activation hardware feature. For the IBM i software order on those servers, order either a currently supported release of IBM i, which is 7.3, or later, or order IBM i 7.2 through the withdrawn order path. For IBM i entitlement transfers to a Power S922 or Power E980 server, if a client's IBM i entitlement on the donor machine is at IBM i 7.2, or earlier, the entitlement will be upgraded to IBM i 7.3 or IBM i 7.4 upon transfer to the Power S922 or the Power E980.

For existing Power S922 or Power E980 servers, order the IBM i 7.1 Activation hardware feature.

The IBM i 7.1 Activation feature codes:

- EB3U for the S922G and S922A
- EB3V for the E980

Steps to acquire IBM i 7.1 programs if needed and software keys:

As for acquiring IBM i 7.1 software keys and software downloads on the Power S922 or Power E980 server, as long as a client has active IBM i SWMA, clients can get previous-release keys and previous-release software downloads of IBM i, as well as their entitled Licensed Program Products for IBM i and IBM i optional features, from Entitled System Support (ESS). This is the standard process for IBM i clients to acquire previous-release keys and software. If clients have active SWMA but do not see IBM i 7.1 keys for their entitled software on ESS, contact the Key Center at WWSWKEYS@dk.ibm.com.

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The Entitled Systems Support website (ESS) is IBM's go-to place to view and manage **Power and Storage software and hardware**. In general, most products offered by IBM Systems purchased through our IBM Digital Sales representatives or business partners, when using the IBM Configurator for e-business, are afterwards accessed on this website. Several IBM products can also be directly purchased here.

This section of the ESS website focuses on activities related to **Power and Storage software products** - downloading, ordering and updating software media and keys.

Register first

You **need to be** registered for one or more **customer numbers** to use most of the options, as access to customer numbers is what governs everything you are entitled to do. Options related to customer number access can be found under **My profile**.

The following activities are available within **My entitled software**:

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Download available software based on all active entitlements associated with all customer numbers registered under your profile. Additional information can be found in ⬜Help section.

By category ⓘ	By machine ⓘ	By product ⓘ

Customers: [All available ⌄]

Category: [IBM i ⌄]

Group: [7.1 (EOS) ⌄] 🔍

Step 1: Select product

◉ Entitled ○ All   Search: [ ]

		▲ ⬍ Product	⬍ Title
	☐	5770-SS1	IBM i

Requirements:

IBM i 7.1 Technology Refresh (TR) level and PTFs required

- [IBM i 7.1 TR11](#)
- The final 7.1 GA cumulative PTF level C7192710 (generally available on July 28, 2017)
- 7.1 HIPER Group PTF (SF99709) level 261 or later
- The list of PTFs below

PTFs
5770999:
MF67822
MF67656
MF67836
MF67706
MF67715
MF67792
MF67794
MF67795

5770SS1:
SI74413 (for IBM i license key injection support)

Installation notes and prerequisites:

- Apply FW950 (which was generally available November, 2020)
- The IBM i 7.1 partitions must be set to restricted I/O mode. For information regarding restricted I/O mode, see [IBM Documentation "Changing Advanced Partition Settings"](#).
- Note that there is no support for any IBM i 7.1 configurations with NVMe internal storage. No new load source types were added and in particular, 4096-byte-sector vSCSI devices are not supported even though they may appear as choices on the load-source selection screen. Attempting to use these devices will cause a failure with SRC B6005122.
- Prior to installing the PTFs above, ensure the partition is not in POWER7 compatibility mode (refer to Partition properties > Processors > Advanced)
- Retrieve the hardware activation code from [Power Systems Capacity on Demand](#) and apply it via an HMC
- Install the Technology Refresh level, cumulative PTF package, and other PTFs as listed above.

Q&A

1. What are the plans for IBM i 7.1 Service Extension?

   Answer: Find the latest information on IBM i 7.1 Service Extension at [IBM Support Roadmap](#).

   The deck includes …

   - IBM i 7.1 Service Extension which includes new defect and usage and known defect was available through April 30, 2021.
   - IBM 7.1 Service Extension was extended beyond April 30, 2021 on a usage and know-defect basis only. This extension is from May 1, 2021 through April 30, 2024.
   - The list of IBM i 7.1 components that are not supported under Service Extension, i.e.:
     - IBM Developer Kit for Java Option 11 (Java 6 32-bit) and Option 11 (Java 6 64-bit)

- o   IBM HTTP Server (Powered by Apache) (5770-DG1) 7.1
- This Service Extension includes IBM i 7.1 group SWMA and PowerHA for i.
- How to order the Service Extension.
- The IBM i 7.1 Service Extension is available on all machines on which IBM i 7.1 is available.

Additional resources:

- [IBM i Group SWMA Products and Products with Separate SWMA](#)
- [IBM i Release Lifecycle](#)

2. Can a client acquire an IBM i 7.1 Activation for the other Power Systems servers: e.g. S914, S922G with 1-core processor, S924?

Answer: There are no plans to support IBM i 7.1 on Power Systems servers other than the S922A, S922G (not on the 1-core and 4-core processor features), and the E980.   If you want to provide input to IBM, submit a [Request for Enhancement (RFE)](#).

3. Is there a cost associated with the IBM i 7.1 Activation feature?

Answer: Yes. The following are the list prices in USD.

Feature EB3U for S922A and S922G: $1,000

Feature EB3V for E980: $1,500

IBM's prices are subject to change without notice.

4. Is the IBM i 7.1 Activation valid in the Power Enterprise Pools 2.0 environment?

Answer: No. Only IBM i 7.2 and later are supported in Power Enterprise Pools 2.0 and only the S922G and E980 models.

5. Is IBM i 7.1 available in the Power Systems Virtual Server (VS) offering?

Answer: Yes, this was rolled out starting February, 2021.

6. Where do I get the IBM i 7.1 Activation VET code?

Answer: [Power Systems Capacity on Demand](#)

7. Is native I/O support available for any offering of IBM i 7.1 on a Power Systems Server with POWER9 technology?

Answer: No. Only the S922A, S922G, and E980 have any support for IBM i 7.1, and VIOS is required for all I/O.

8. Is Live Partition Mobility (LPM) available with IBM i 7.1 on the S922A, S922G, and the E980?

    Answer: LPM is available in IBM i 7.1 TR4 and later (since 2012) and therefore is available on the S922A, S922G, and E980 systems.