

7.5 z/OS migration considerations

Except for base processor support, z/OS releases do not require any of the functions that are introduced with the z15. Minimal toleration support that is needed depends on z/OS release.

Although z15 servers *do not* require any “functional” software, it is recommended to install all z15 service before upgrading to the new server. The support matrix for z/OS releases and the Z servers that support them are listed in Table 7-16.

Table 7-16 z/OS support summary

z/OS Release	z10 EC z10 BC WDFM ^a	z196 z114 WDFM ^a	zEC12 zBC12 WDFM ^a	z13 z13s WDFM ^a	z14	z15	End of Service	Extended Defect Support ^b
V2R1	X	X	X	X	X	X ^b	09/2018	09/2021
V2R2	X	X	X	X	X	X	09/2020 ^b	09/2023 ^b
V2R3			X	X	X	X	09/2022 ^b	09/2025 ^b
V2R4 ^c				X	X	X	-	-

a. Server was withdrawn from marketing.

b. The IBM Software Support Services provides the ability for customers to purchase extended defect support service for z/OS.

c. See the following z/OS preview announcement:

<https://www.ibm.com/downloads/cas/US-ENUS219-013-CA/name/ENUS219-013.PDF>

7.5.1 General guidelines

The IBM z15™ introduces the latest IBM Z technology. Although support is provided by z/OS starting with z/OS 2.1, the capabilities and use of z15 depends on the z/OS release. Also, web deliverables¹² are needed for some functions on some releases. In general, consider the following guidelines:

- ▶ Do not change software releases and hardware at the same time.
- ▶ Keep members of the sysplex at the same software level, except during brief migration periods.
- ▶ Migrate to an STP-only network before introducing a z15 into a sysplex.
- ▶ Review any restrictions and migration considerations before creating an upgrade plan.
- ▶ Acknowledge that some hardware features cannot be ordered or carried forward for an upgrade from an earlier server to z15 and plan accordingly.
- ▶ Determine the changes in IOCP, HCD, and HCM to support defining z15 configuration and the new features and functions it introduces.
- ▶ Ensure that none of the new z/Architecture Machine Instructions (mnemonics) that were introduced with z15 are colliding with the names of Assembler macro instructions you use¹³.
- ▶ Check the use of **MACHMIG** statements in **LOADxx PARMLIB** commands.

¹² For example, the use of Crypto Express7S requires the Cryptographic Support for z/OS V2R1 - z/OS V2R3 web deliverable.

¹³ For more information, see the [Tool to Compare IBM z15 Instruction Mnemonics with Macro Libraries](#) IBM Technote.