

10.2 HMC and SE changes and new features

The initial release that is included with z15 is HMC application Version 2.15.0. Use the “What’s New” task to examine the new features that are available for each release. For more information about HMC and SE functions, use the HMC and SE (Version 2.15.0) console help system or see [IBM Knowledge Center](#).

At IBM Knowledge Center, search for “z15 HMC”.

10.2.1 Driver Level 41 HMC and SE new features

The following support was added with Driver 41:

- ▶ Hardware Management Appliance

Before z15, in addition to the two integrated rack-mounted SEs, at least one external (stand-alone) HMC is needed (two HMCs are recommended for redundancy).

Starting with z15, the two 1U rack-mounted SEs increased hardware capacity (processor, memory), which allows virtual instances of both HMC and SE to run collocated on the same physical appliance (SE server). The SE application (appliance code) runs as guest of the Hardware Management Appliance, and can be managed by the Virtual Support Element Management task, as shown in Figure 10-1. The SE interface can still be accessed by using the Single Object Operation as usual (by way of HMC web interface).

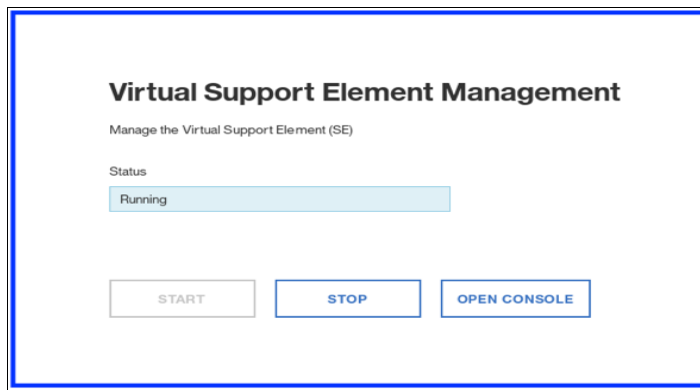


Figure 10-1 Virtual Support Element Management

The Hardware Management Appliance (HMC application) is accessible by using a remote web browser (the user experience for HMC interaction is free of charge) and can manage N-2 generations systems (z15, z14 ZR1, z14, z13s, and z13).

Important: With IBM Hardware Management appliance, shutdown or restart is disruptive to the SE appliance (the SE appliance runs as a guest). An application restart of the HMC appliance is not disruptive to the SE.

Updating the driver or applying HMC MCLs requires planning to ensure that these operations are not disruptive to the CPC by ensuring availability of the primary or alternative SE appliance.

Stand-alone (physical) HMCs are also available as rack-mounted or mini-tower.