- The SAP Message Server can be restarted quite fast. As long as it is not available, there is no communication possible between the application servers, but there is no loss of critical data.

- The PAS (or: central instance) is a SPOF, because it contains the enqueue service. The enqueue service contains the critical lock data in main memory. If the enqueue service fails, the lock data is lost. All transactions holding locks have to be reset.
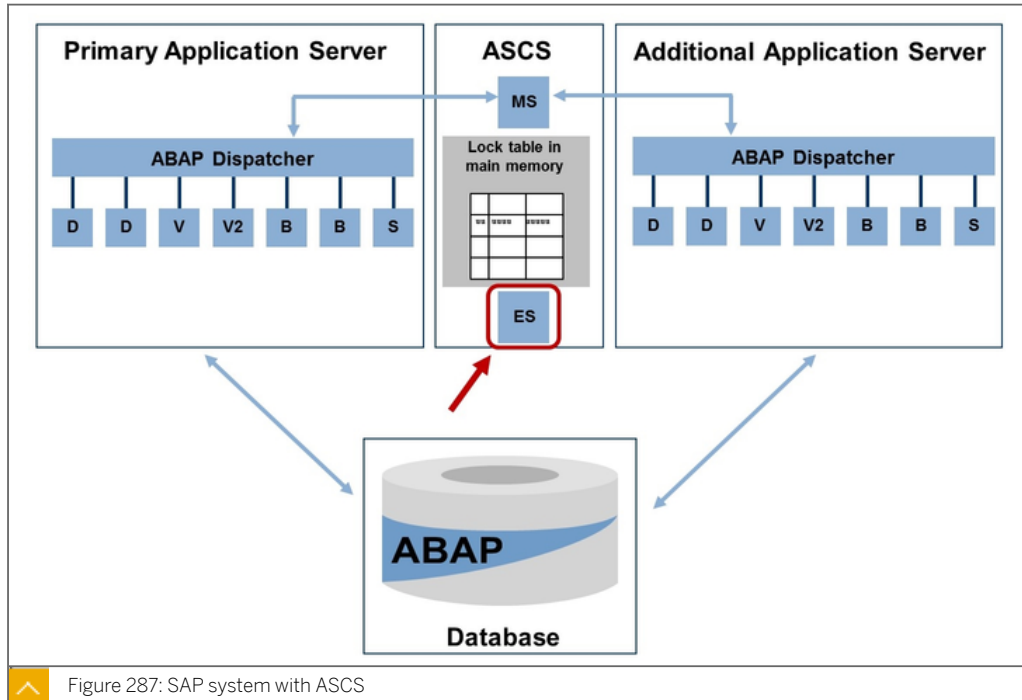

Figure 287: SAP system with ASCS

There are some advantage of a stand-alone enqueue service, as part of the ASCS:

- The communication between the enqueue clients (application servers) and the enqueue server is not established via the corresponding dispatcher any longer, but directly. There is a direct TCP connection between the work process and the enqueue server.

- An ASCS is a prerequisite to make the stand-alone enqueue server high available by using an Enqueue Replication Server (ERS). This can be combined with a suitable cluster software.