A.3 Architecture of the 3GPP2 IMS

Figure A.1 gives a 3GPP2 architecture overview of the IMS. 3GPP2 took the approach of assigning a number to each interface; but, since the 3GPP2 IMS is based on the IMS designed by 3GPP, most of the 3GPP2 interfaces have a 3GPP counterpart name. The figure shows both names when applicable. It does not show the complete list of interfaces and architectural elements, just the most relevant ones. A complete architectural figure can be found in 3GPP2 TS X.S0013-000 [44].

![3GPP2 IMS architecture overview](image)

**Figure A.1:** 3GPP2 IMS architecture overview


The reader familiar with the 3GPP architecture that was introduced in Section 3.4 has probably noticed the similarities between both IMSs. Nevertheless, there are some differences between the two IMS architectures, the most relevant being the following.

- **Mobility management:** 3GPP2 IMS is built on top of mobile IP, whereas 3GPP manages the mobility through GPRS, which provides a layer 2 tunneling mechanism.

- **Home Subscriber Server:** the 3GPP HSS is the aggregation of the 3GPP2 Home AAA and its databases.

- **Speech codec:** AMR is the default narrow-bandwidth speech coded in the 3GPP IMS. 3GPP2 defines the EVRC and SMV codecs.