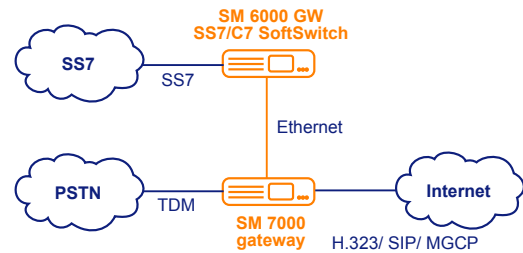


## SS7 Connectivity Options and Modes of Operation

- SS7 Media Gateway Mode
- SS7 Signaling Gateway Mode
- SS7 Protocol Converter Mode

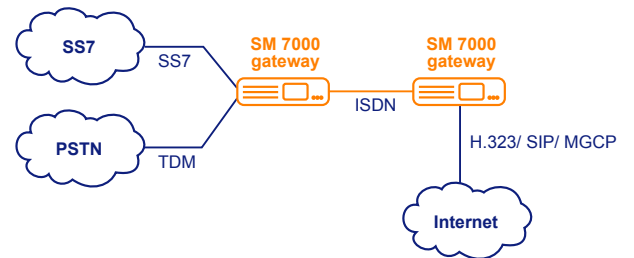
### SS7 Signaling SoftSwitch

SM6000 allows easy SS7 network interoperability via its advanced SS7 Signaling Gateway Functionality. The system will accept SS7 signals via IP and manage the Media Gateway devices that do not support SS7 protocol, thus controlling the SS7 TDM interconnect via IP. The SM6000 will only terminate the SS7 signaling links, while the voice RTP traffic will be terminated by the TDM Media Gateway. This implementation option allows maximum flexibility and scalability because it does not require the endpoint devices to support SS7 protocol and relies on the SM6000 to manage these devices. Some benefits include: high bandwidth interconnect by controlling distributed media devices, utilization of existing hardware equipment, no need for specialized SS7 capable TDM, and carrier level redundancy.



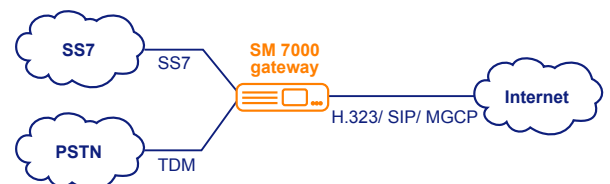
### SS7 Protocol Converter

SM7000 can translate SS7 protocol into ISDN protocol and provide signal conversion functionality. The SS7 and TDM will be terminated into SM7000 and then the system will convert the signal to ISDN/CAS/R2 or IP in a pass-thru mode. This mode is similar to a SS7 Media Gateway mode.

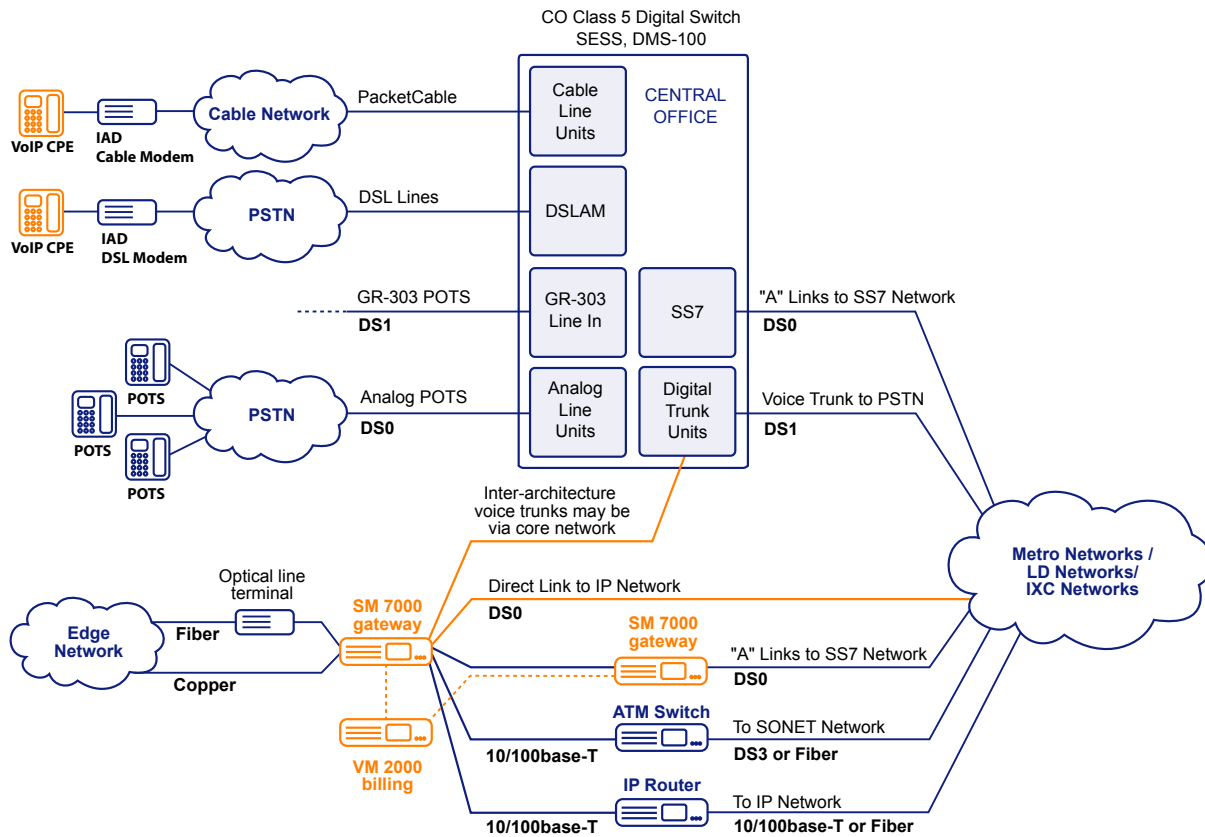


### SS7 Media Gateway

SM7000 fully supports SS7 Media Gateway functionality to allow an easy SS7 network integration without additional SS7 capable equipment. The supports direct SS7 interconnection over TDM/PSTN networks and converts SS7 signals into ISDN/CAS/R2 and VoIP H323/SIP/MGCP signals. In Media Gateway mode, the system will offer robust and fault tolerant interconnection with SS7 providers and terminate SS7 traffic in pass-thru or IVR mode.



## Typical LEC Implementation



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