

AR G3 Voice License Configuration Guide

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AR G3 License Portfolio

Feature License

- AC Express

Value-added Data Service License

- SPR
- MPLS L2VPN

Count License

- CM or BEST (C)
- CT (C)
- IVR (C)

Value-added Voice Service License

- POTS, ISDN access
- SIP AG
- TDM PBX VE1 access

Feature License

- DSVPN

Count License

- SSL VPN (C)

Value-added Security Service License

- PKI
- EVPN
- HTTPS
- SSL VPN (Demo)
- SAC

Basic Routing License

AAA, Route Protocol, Multicast, IGMP, DHCP, HTTP, QoS, ACL, GRE, ARP, NTP, PPP, PPPoA, PPPoE, RADIUS, TACACS, STP, RSTP, MSTP, VLAN, ISDN, ADSL over ISDN, NAT, LDP, RSVP, Firewall, IPsec, L2TP, IPv6, NQA

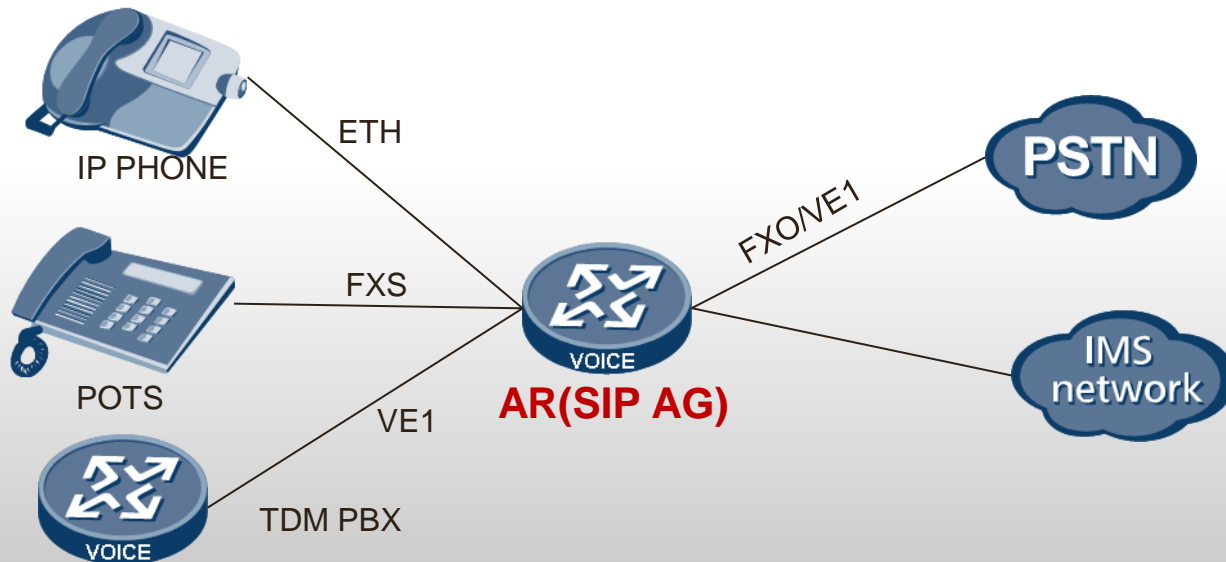
■ AR G3 software licenses are classified into basic routing, feature, count, and value-added service licenses. The basic routing license is installed on the AR and activated by default. You need to purchase the value-added service license before you purchase feature and count licenses.

■ The license portfolio applies to all ARs including AR150, AR200, AR1200, AR2200, and AR3200.

Voice License Configuration Guide: Value-added Voice Service License

AR value-added voice service license

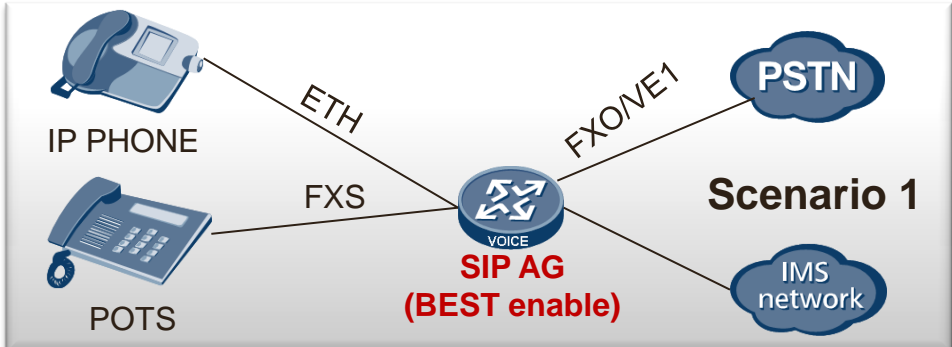
- This license is mandatory for voice services. You can load other licenses only after you have loaded this license.
- The AR can directly communicate with terminal users, including POTS and ISDN users.
- The AR can function as a SIP AG to communicate with POTS and ISDN users.
- The AR can communicate with TDM PBXs through VE1 interfaces.



Voice License Configuration Guide: BEST License

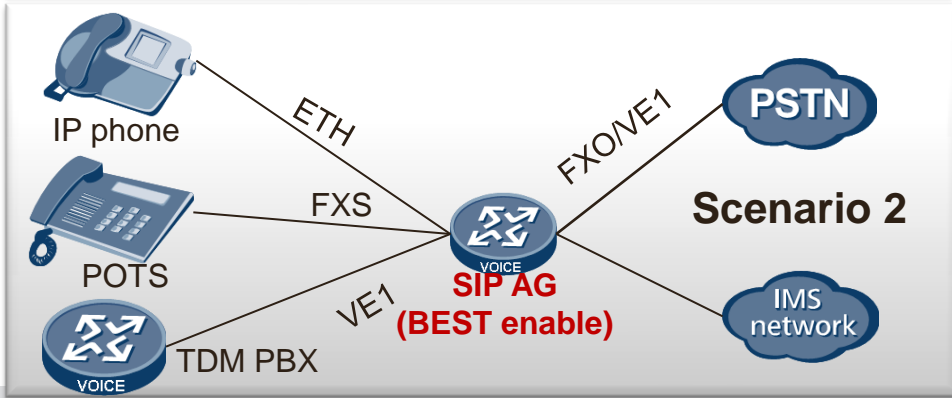
AR BEST (branch exchange survival telephony) license

- BEST enables the AR to connect to the PSTN and provide call communications and voice services in a branch even when a fault occurs on the IP WAN. BEST supports the basic call functions, but does not support the PBX value-added services.
- In the branch, the AR can communicate with analog phones, IP phones, and TDM PBXs.
- The AR can connect to the IP WAN through the SIP trunk or connect to the PSTN through the AT0 or E1 trunk.
- The AR uses AT0 or E1 trunk only when the SIP trunk fails.
- When the SIP trunk functions normally, calls between two users in a branch are routed to the headquarters through the SIP trunk and processed by the call manager (CM) in the headquarters.



Scenario 1: The AR works in SIP AG mode and connects to voice phones only. To enable the BEST function on the AR, you have to purchase a value-added voice service license and a BEST license.

Scenario 2: The AR works in SIP AG mode and connects to voice phones and TDM PBXs. To enable the BEST function on the AR, you have to purchase a value-added voice service license, a BEST license, and a CT license.



The AR provides the following functions after BEST is enabled:

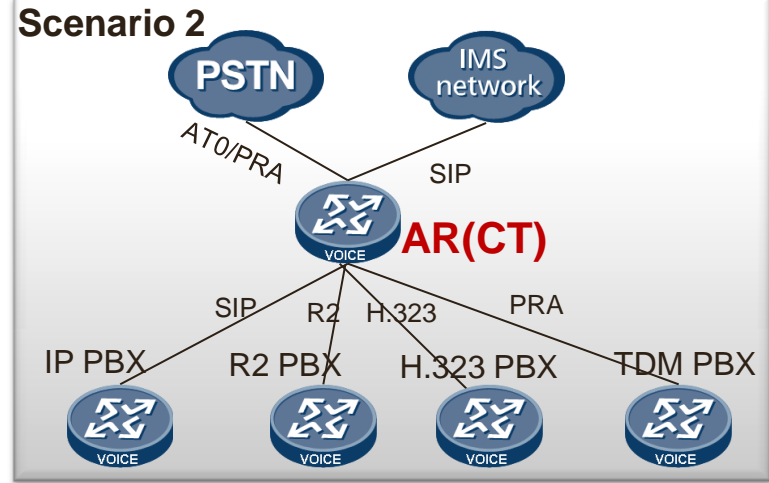
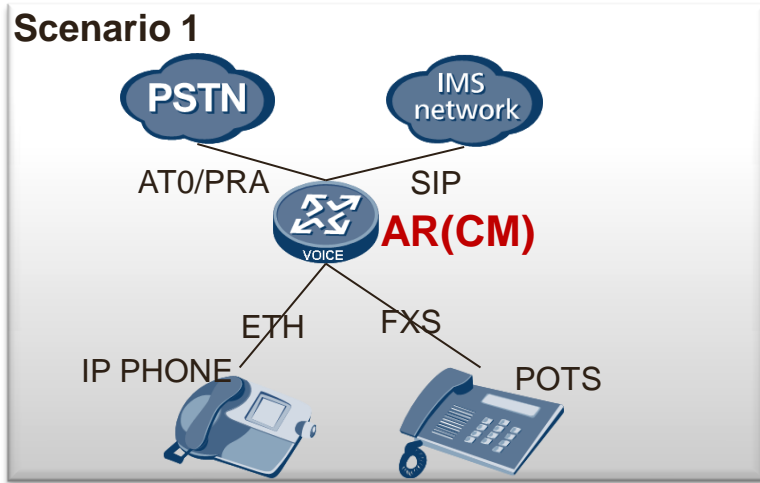
- **Basic services:** number change, ring mapping, intelligent routing, CDR, distinctive ringing
- **Supplementary services:** double communication, three-party service, call forwarding, MCID service, ECT, call waiting, hotline service etc.

Voice License Configuration Guide: CM/CT License

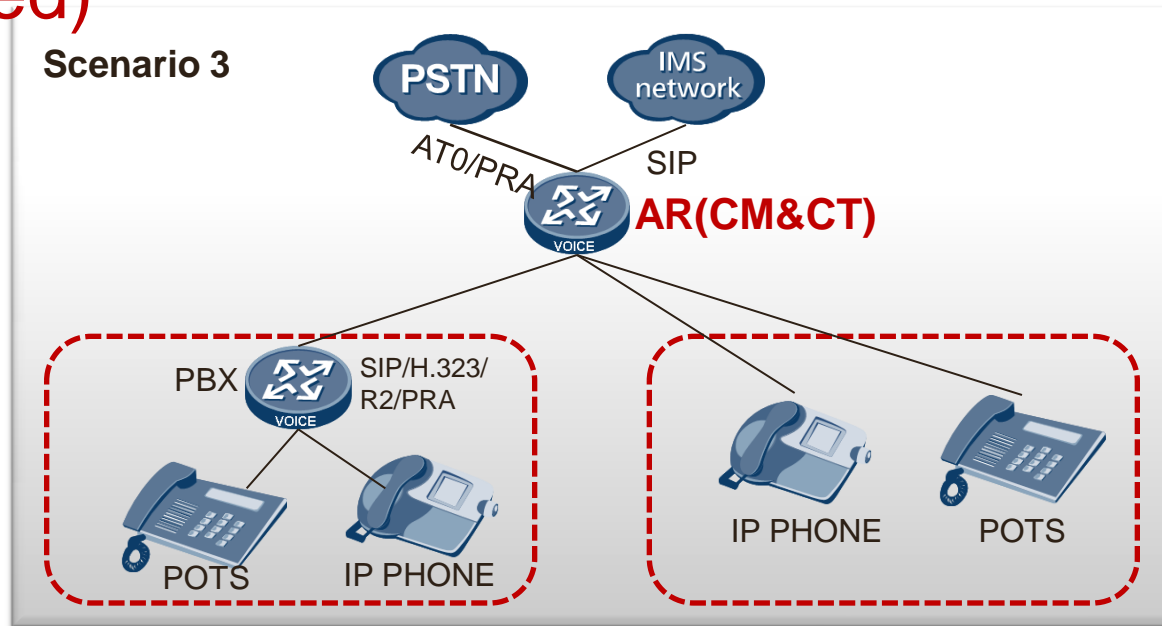
<p>AR CM (call manager) license</p>	<ul style="list-style-type: none"> ■ The CM implements call management. It provides user and call management on POTS, and ISDN phones and SIP UEs (such as IP phones or software client). The CM supports all the new PBX services (requiring licenses for these new services, such as IVR). ■ This license supports AT0, E1, and SIP trunks.
<p>AR CT (call trunk) license</p>	<ul style="list-style-type: none"> ■ The call trunk (CT) can function as a trunk gateway (TG) to implement interconnection between various trunks and conversion between different protocols. The CT cannot connect directly to terminals. ■ The CT supports PRA, SIP ,H.323 and other trunk interfaces and processes services on uplink and downlink interfaces in the same manner. Any type of trunk access, you need to configure CT license. ■ The CT supports conversion from H323 to SIP and from R2 to SIP, and codec conversion.

Applications of CM and CT licenses are listed as follows:

1. Scenario 1: Configure the CM license when the AR connects to terminals at one end and a trunk at the other end.
2. Scenario 2: Configure the CT license when the AR connects trunks at both ends.
3. Scenario 3: Configure both CM and CT licenses when the AR connects to terminals at one end and trunks at other ends. The number of users managed by CM and CT is calculated independently.



Voice License Configuration Guide: CM/CT License (Continued)



The number of users managed by CM/CT:

- The number of concurrent users allowed by a CM or CT license is the smaller one between the license controlled number and device supported number. For example, AR1220's CM or BEST specifications is 125, and you have purchase a license for only 25 phones. In this case, only 25 concurrent users are allowed.
- The number of concurrent users managed by CM and CT is calculated independently. For example, the CM specifications and CT specifications for an AR (PBX) are 100 and 50 respectively. The number of concurrent calls between the AR (PBX) and phones is 100, whereas the number of concurrent calls between the AR (PBX) and the connected PBX is 50.

Voice License Configuration Guide: IVR License

AR IVR license

When a user dials the access code of an IVR service, the AR plays a prompt tone indicating that the user can dial the extension number or exchange number. That is, the user can directly dial the extension number to enter the basic conversion or dial the exchange number to trigger the simultaneous ringing service, sequential ringing service, line selection service (selecting a user based on certain rules). When multiple users are using the IVR service simultaneously, subsequent users wait in the call queue and hear the call queue announcement.

Note:

1. The AR does not support IVR when it works in SIP AG mode.
2. The AR does not support IVR when it works in SIP AG mode even if BEST enabled.

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