Huawei IP PBX eSpace U1980

Overview

Huawei's eSpace U1980, a medium and big capacity IP PBX, is a core component of Huawei IP telephony solution that provides professional voice services for a maximum of 10,000 users. U1980 offers flexible deployment options based on business needs. It helps to improve communication efficiency and enhance enterprise value.

The U1980 features high integration and its hybrid design supports both narrowband and broadband access. It supports different types of terminals, such as IP phones, analog phones, fax machines and integrated access devices IAD (for Remote analog / fax users).

The U1980 adopts a professional voice platform, advanced architecture, and secure and reliable backup mechanisms. It supports dual main control boards and power module backup, dual redundancy and local regeneration, thereby ensuring high reliability to improve enterprises' communication efficiency and enhance their competitive edges.

Features and Benefits

Efficient communication system to grasp business opportunities

- Built-in audio conference bridge, support scheduling conference and instant conference, and making conference convenient and efficient
- One Number Link You (ONLY) service provides mobility to the user, enabling seamless reach ability anytime anywhere.
- Unified message features, including fax and voice message leaving, receiving and sending, and enabling users to avoid missing important calls and guarantee the call reach ability.

Enhanced enterprise image and better branding

- Corporate main number service, which shows a unified enterprise image to the public and helps create more brand value.

Effective control mechanism to reduce communications cost

- Number analysis, blacklist and whitelist features, to improve calling efficiency
- Customized call right control of up to 32 levels.
- Personal authorized password for effective control of toll calls.
- Intelligent routing based on duration and fee.

Multi-tier Assurance

- Dual main control boards and power module backup, dual redundancy, and local regeneration, ensuring high reliability of the solution.

Flexible deployment and easy installation

- Supports unified network management system (eSpace EMS) and local maintenance tool (LMT) for easy installation and maintenance.
- Unified service rollout and management, lightening the workload of management and maintenance for enterprises.

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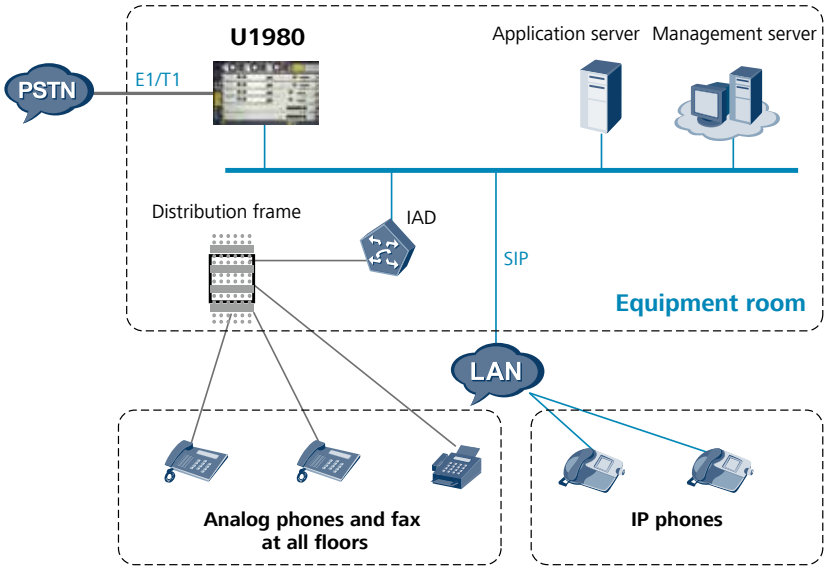
Application Scenarios

Single-Site Centralized Networking

eSpace U1980 supports centralized networking, which is applicable to large- and medium-sized enterprises with few or no branches.

eSpace U1980 is deployed in the equipment room of data center, and connects to carrier' networks like PSTN through E1 and T1 interfaces. If necessary, application and management servers can also be deployed. Users can adopt various types of terminals like analog phones, IP phones to enjoy communication services.



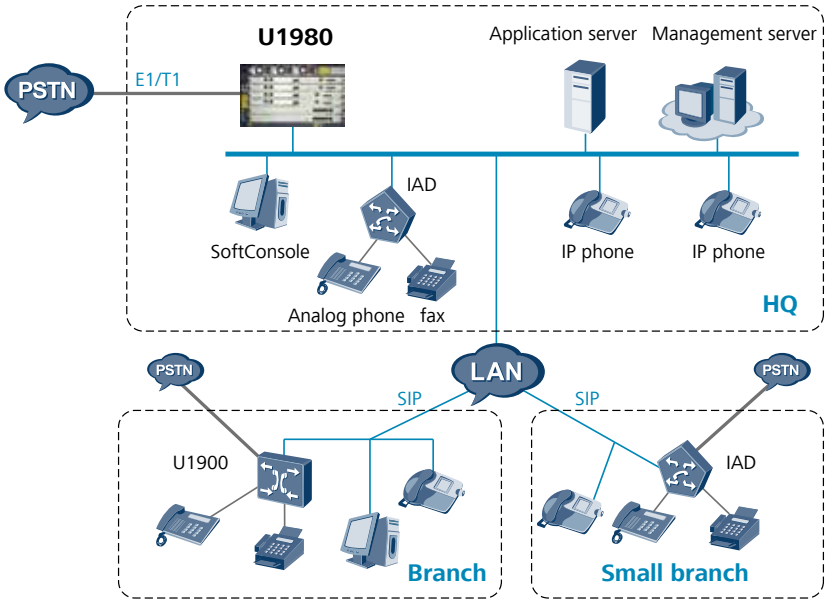
Multi-Site Centralized Networking

eSpace U1980 supports centralized networking, which is also applicable to large- and medium-sized enterprises with several branches. U1980 can be deployed as a IP PBX at headquarters or can be used as a remote survival gateway in big branches.

eSpace U1980 is deployed at headquarters, and connects to carrier' networks like PSTN through E1 and T1 interfaces. If necessary, application and management servers can also be deployed. Users at headquarters can adopt various types of terminals like analog phones, IP phones and soft clients to enjoy the communication services.

For the large and medium-sized branch, one independent IP PBX eSpace U1900 can be deployed to implement incoming and outgoing call with PSTN locally, as well as local regeneration. All the users in the branch register to the U1980 in the HQ in normal situation, and share the services provided by it. When the U1980 in the HQ is down, or the network between branch and HQ is interrupted, then the users will register to the local U1900 in the branch and implement the basic call.

For the small-sized branch, IAD is suggested to be deployed. IAD supports local switch for analog phones.



Technical Specifications

The following table lists the technical specifications of the eSpace U1980.

Model		Functionalities and Specifications
Appearance		
Maximum Number of Users		10000
Trunk interfaces		30E1/T1
Terminal Type		Analog phone, IP phone, video phone and soft clients
Signaling Protocol		E1/SS7, E1/R2, E1/PRI, E1/QSIG, T1/PRI, T1/QSIG, SIP
Codec		G.711A/ μ , G.729a/b, iLBC
Number of Meeting Channels		320 meeting halls (each supporting a maximum of 120 parties) and 960 meeting channels
Power Supply		AC: 100 V to 240 V, 50 Hz/60 Hz DC:-38 V to -75 V, Typical value: -48 V and -60V Three external power supply modules
Maximum Power Consumption		400 W(full configuration)
Dimensions(H xW xD)		Standard 19-inch 6U subrack 264mm x 436mm x 420mm
Weight		31 kg to 32 kg
Environment	Temperature	Storage temperature: -40°C to 70°C Long-term working temperature: 0°C to 45°C Short-term working temperature: -5°C to 55°C
	Humidity	Working humidity: 5% to 95% relative humidity (RH), no condensing
	Dustproof	Dustproof measures should be taken in the working environment. The potency of dust is less than 180 mg/m³ in the air.
System Reliability		99.999%
Maintainability		Remote maintenance, automatic configuration, log collection, and daylight saving time (DST)
Manageability		Centralized/Remote equipment management, signaling tracing, resource tracing, alarm management, and area-based management

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