

Unleashing the Next Era of Social Entertainment Industry Growth with RTC+Al

PART 1

ZEGOCLOUD

Your Preferred Partner for Social Entertainment Solutions

ZEGOCLOUD – A leading Global Provider of Real–Time Interaction (RTI) Cloud Services

Founded in 2015, based on years of technical accumulation in the fields of RTC and AI, ZEGOCLOUD provides real-time audio and video PaaS cloud services and industry solutions.

We serve more than 4,000 global enterprise customers, including more than 700 higher education institutions and more than 200 financial and government organisations, with users in more than 200 countries and territories around the world.



ZEGOCLOUD Product Introduction



Technology Brand



Key Characteristics and Scenarios of Hot Social Entertainment Regions



Short Video 1-on-1

- High market maturity, with active users and strong payment ability.
- Good payment habits



Short Video



- High market maturity, internet penetration rate close to 90%, and strong payment ability
- The average daily mobile device usage time
 has increased significantly in recent years



Middle East and North Africa

Audio

Live Streaming

Gaming

- Internet penetration rate nearing 70%, higher than the global average
- Local users have extremely high demand for online social and entertainment, with a massive number of internet top users
- The Gulf Cooperation Council (GCC) countries have extremely strong consumer purchasing power



Live Streaming

Short Video

Voice

- Massive population base, with over 440 million local internet users
- Internet penetration rate
 exceeds 75%, with room for
 growth in social networks





Latin America

Short Video



- Abundant demographic dividend, extremely long daily mobile device usage time
- Taking Brazil as an example: its mobile users spend over 10 hours per day on the internet, with huge development potential

PART 2

High-quality Real-time Audio and Video Empowering Business Growth



Four Major Scenario Solutions

1-on-1 Video

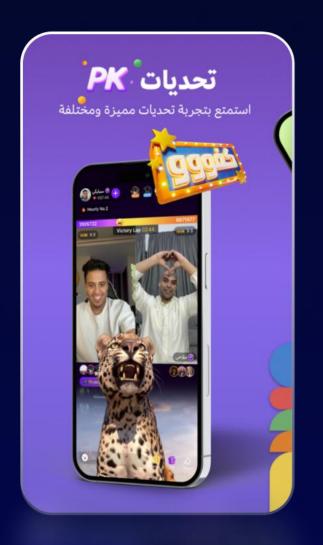
Live Audio Room

Live Streaming

AIGC



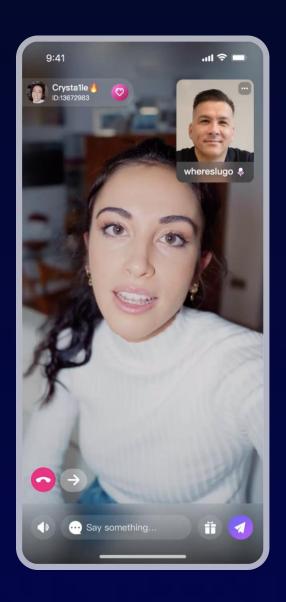




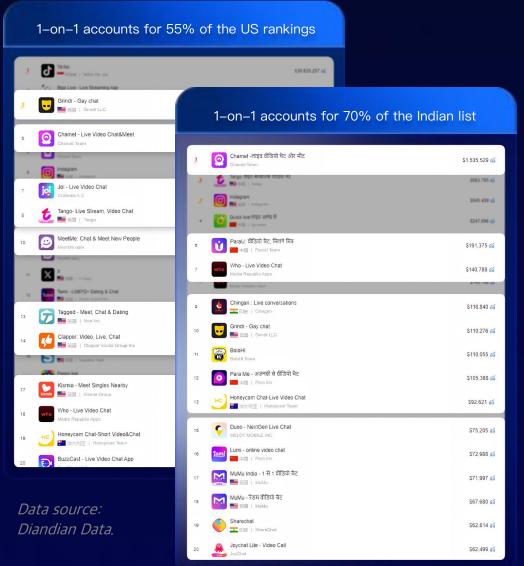




1-on-1 Video Dating Has Become a Common Revenue Driver









Four Major Pain Points of 1-on-1 Video Directly Affecting Business Revenue



Long launch cycle

Long development time

Long review cycles

Listing takes more than





Low video connection rate

Traditional solutions have only a 70% connection rate within 2 seconds

Business order volume





High call stuttering rate

Poor network

Varying device models

Call stuttering rate

>10%



High rate of cost complaints

Multiterminal asynchrony

Inaccurate timing

Cost complaint rate

>8%



1-on-1 Video Dramatically Shortens Time-to Market

Pain Points of Listing

- Challenges in App Store Placement and Lengthy Review Cycles
- Platform commission rates as high as 30%
- 3 High user acquisition costs and high download barriers

Web-based Solution

- Cross-platform operation, no need for separate development of each platform, saving development costs
- Convenient for users to access, no need to download the app to experience the service
- Instant Access to Services Without App Downloads
- Swift Updates and On–Demand Feature Deployment
- SEO-friendly, can be indexed by search engines to increase exposure

UIKits Solution

- Best practices for 1– on–1 Prebuilt
- No need to integrate multiple SDKs
- 95%+ offline push success rate.
- 50+ Customizable UI Components

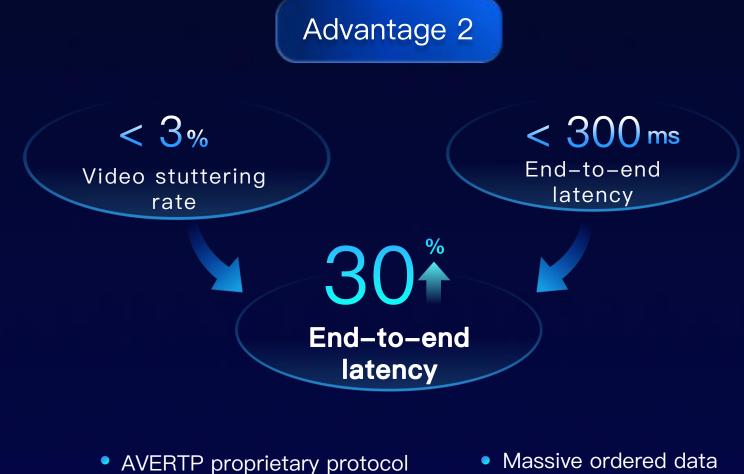
network MSDN

500+ global nodes

coverage

Solutions for 1-on-1 TTFF and Enhanced Smoothness





Intelligent

routing

weak network flow control

Targeted encoding

optimizations



1-on-1 Video High-Precision Billing Solution









- Billing Duration
 Across Three
 Platforms
- NTP synchronization



Abnormal situation handling



- Atomic-level backend callbacks
- Customized billing



Current Status of Live Audio Room Industry

Regional Characteristics

Infrastructure Conditions

Business Model Insights

Southeast Asia

- Strong demand for social entertainment and networking
- Lower user payment levels, but long online duration
- Typically a high DAU, low ARPU revenue model

- Internet penetration rate is above average
- Network stability and speed can be improved
- Android dominants, with a large proportion of entry-level smartphones
- Social networking for young users, with interactive features like gaming gang up and online karaoke, to drive monetization
- Key concerns are weak network
 resistance and low power consumption

The Gulf Cooperation Council (GCC)

- The market for live audio rooms without video is quite large
- Users have a high willingness to pay
- Typically a low DAU, high ARPU revenue model

- High internet penetration rate
- Stable and fast network speeds
- Nearly half iOS market share, overall stronger device performance
- The product requires a diverse range of gameplay and advanced, mature interactive features
- There is high market saturation, so the solution needs to have differentiated advantages or innovative capabilities



Al Audio Engine to Deliver an Exceptional Voice Chat Experience

Crystal clear, pure voice quality

AI ANS

- 6 major scenarios
- 400+ noise suppression types
- Room reverberation
- Echoes elimination

AI AEC

- Call scenarios 100% echo cancellation
- Karaoke external playback
- Vocal parotection

AGC

- Far-field and nearfield audio capture
- Volume balancing
- Smooth peak limiting
- Natural volume changes

Exceptional Voice Quality Restoration

10ms latency, low power consumption, and no lag or overheating for entry-level smartphones



Al Audio Engine to Deliver an Exceptional Voice Chat Experience

Ultra-smooth, high-quality call performance

Region/Key Indicators	Success Rate of Stream Publishing	Success Rate of Stream Playing	Audio Stutter Rate	End-to-End Latency
East Asia, Southeast Asia	99.8%	99.8%	1%	200ms
India, Middle East (Saudi Arabia, UAE), North America, Europe	99.5%	99.5%	3%	300ms
Latin America, Africa, Middle East (other countries)	98%	98%	5%	400ms



Live Audio Room + KTV Game Solution

High user engagement for real-time karaoke features – up to 70% of users actively singing, with a 20% increase in session duration

60ms end-to-end latency for chorus experience

1 ms perfect synchronization between voice and background accompaniment

50ms ultra-low latency for ear return

Support for 30,000+ device models across different platforms

Multi-language support, with a song library of over 100,000 tracks

Indonesia

한국인 Korean

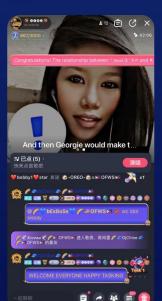
Tiếng Việt Vietnamese

English

Solo, Round Robin, Choir, OMO Offline Karaoke Room, and other game modes are available









Real-Time Chorus Handoff Singing

Solo

Competitive Singing



Live Audio Room + Al Voice Changer New Gameplay

Paid voice transformations, virtual gifts and tips, custom voice/sound packs, VIP subscriptions, experience cards, etc.

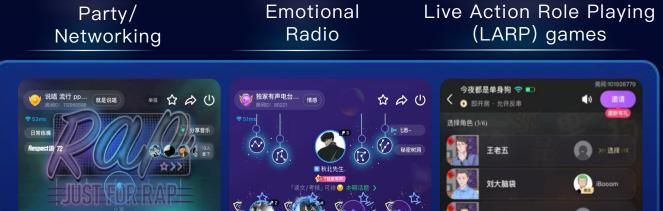
Gameplay Expansion

Enhance user presence and participation with distinctive, high–quality voice profiles in themed rooms

Integrate voice customization deeper into role-playing and character expression

Improve fun and interactivity with voice-changing interactive gifts

Enable the use of anonymous "voice masks" to facilitate new connections



Advantages

Perfect recreation of target voice and prosody

Ultra-low latency voice transformation

5 lines of code for easy access

An extensive database of over 100 professional–quality human voice recordings

Addressing Challenges in Live Streaming Scenarios

Regional Characteristics

Gulf Cooperation Council (GCC)

- Male streamers dominate. with a focus on PK (playerversus-player) gameplay
- Top 5% of paying users drive over 90% of revenue

Southeast Asia

- Popularity of beautyfocused live streams
- Combination of live streaming and minigames to drive user revenue



Bringing pain points



Poor Video Quality

Blurry Video Imagery **Dull Color** Reproduction



Resulting in **Unsatisfactory User**

Slow Switxching Between Streams

Long First Frame Load Time Slow Room Entry



Rate

Viewing Experience

Situation Infrastructure

Current

Challenges

User Equipment

- High proportion of low-end and midrange devices
- Lagging and overheating

Livestream **Environment**

- Poor speaker audio quality
- Dim lighting

Network Environment

- Limited 4G coverage
- Network speed restrictions

Ideal State for Live Streaming Users

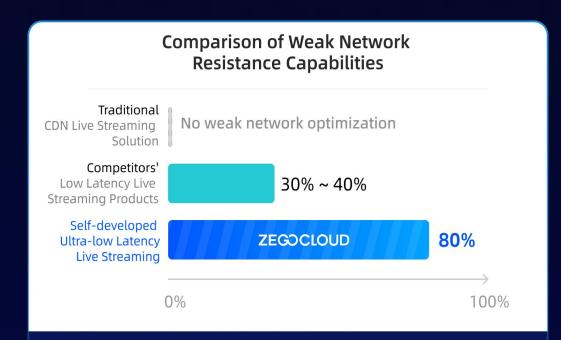
Low Latency Instant Start

Smooth Playback

High Definition Visuals



High Quality, Ultra Low Latency Live Streaming



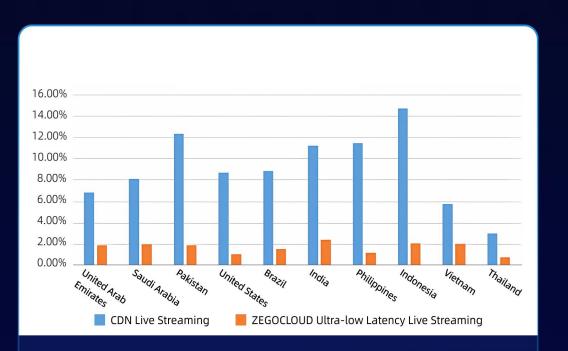
Weak Network Resistance Capabilities Significantly Improved

Equipped with the strongest network resistance capabilities, delivering clearer and smoother video quality.



Millisecond-level ultra-low latency

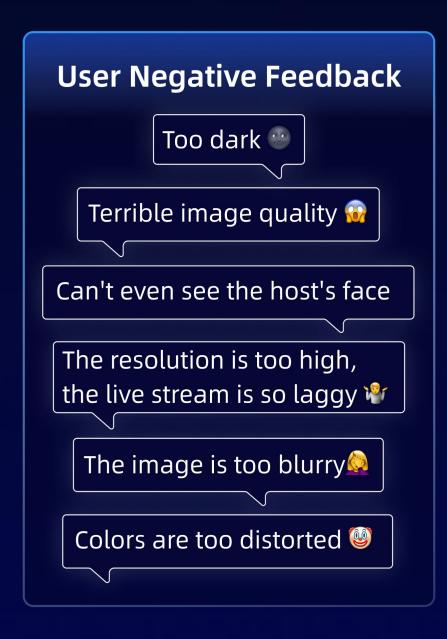
End-to-end latency as low as 600ms, stronger live interactivity, and more timely feedback.

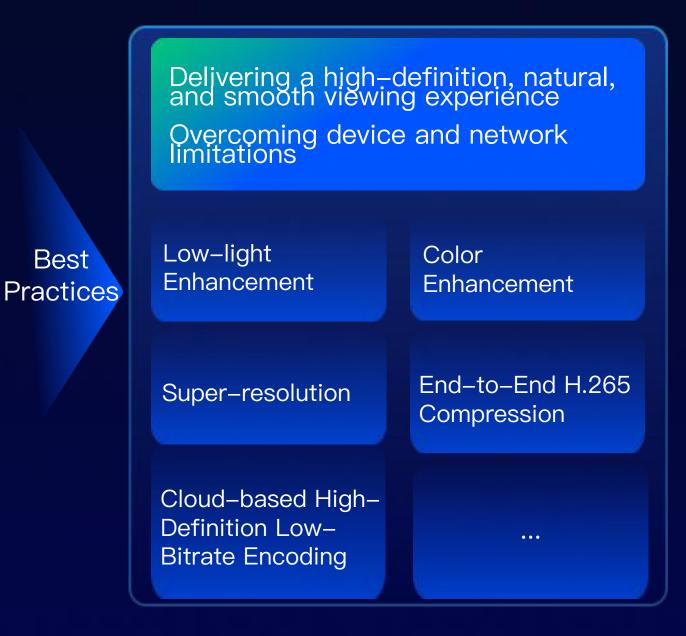


Significant Reduction in Stuttering Rate

Compared to traditional CDN live streaming, ZEGOCLOUD's ultra-low latency live streaming provides more timely feedback. Stuttering rate reduced by 75%+

Optimized Live stream Quality Boosts Average Viewer Duration by >6%











Regional Compliance Policies and Content Guidelines

Customized content safety and compliance standards/recommendations provided for 13 popular regions/countries

Varying regulations across different countries

Numerous substantive laws and regulations

Situation

3 User content risks triggering compliance issues due to complex regulations

Noncompliance risks platform bans or removal from app stores

App Store Listing Compliance

Universal compliance straegies interpretation

App categorization strategy interpretation

Reasons for App rejection/removal and policy update interpretation

In-Product Content Compliance

Regulations regarding religious, sexually explicit, and violent content

Compliance evaluation of in-product text, UI, and other Ccontent

Interpretation of content moderation policies

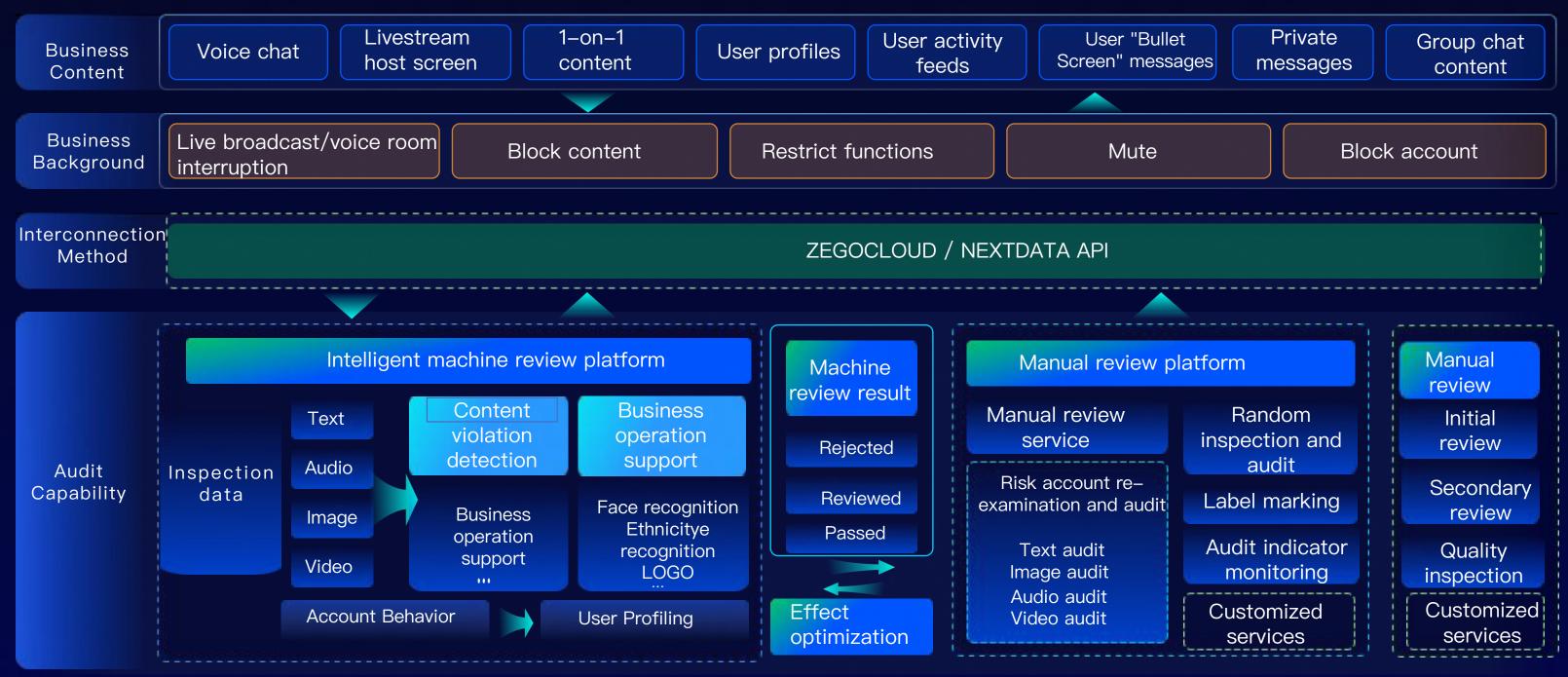
Data Privacy Compliance and Security

Interpretation of user agreement/license policies

Interpretation of privacy policies

Interpretation of cookie policies

A One-Stop, Full-Scenario Moderation Solution to Support Business Growth



PART 3

RTC + Al New Scenarios, New Future

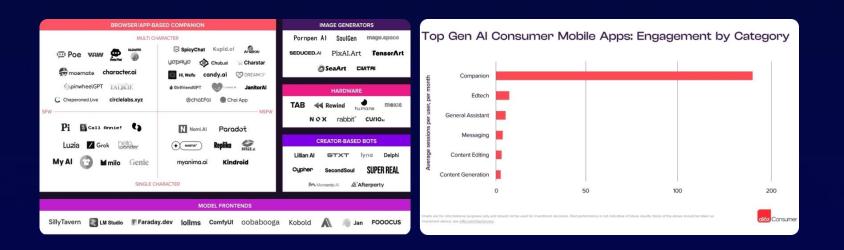


Al Companion: Social Innovation Amidst the Pandemic Trend

In 2024, the growth of Al companion products has been explosive

Data shows that in March, the total visits to Al companion products exceeded 300 million, a 16.82% increase over the previous month. Visit volumes are second only to Al assistants, Al search engines, and Al design tools.

Source Data: aicpb.com



- 1 Al companion scenarios are becoming increasingly popular, bringing generative Al into consumers' everyday lives
- Young user base, beloved by Generation Z users
- 3 Internet celebrities are willing to create Al avatars
- The upgrade of GPT-4o and the in-depth development of multimodality bring Al closer to "real people" and fully meet people's various social, emotional, and companion needs

How to Build a Seamless, Interactive Al Companion

IM (Instant Messaging)

Voice Chat

Video Interaction

Interaction

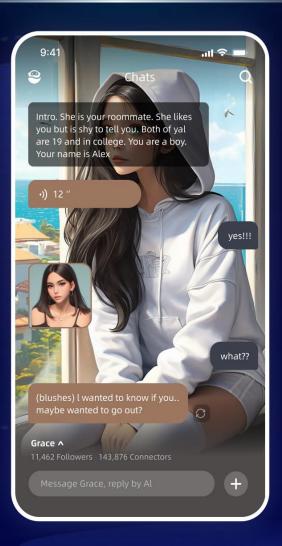
Interaction

Al Image Generation

Flexible Use of Large Language Models in Multiple Languages

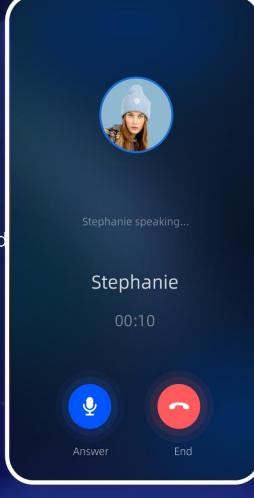
Support for Text, Images, Audio Messages, and Multimodal Interaction

Content Moderation



Voice Activity
Detection (VAD)

Support for Diverse and Naturalistic Voices



Real-Time Voice Control Ability to Interrupt at Any Time

Ultra–Low Latency Interactive Experience



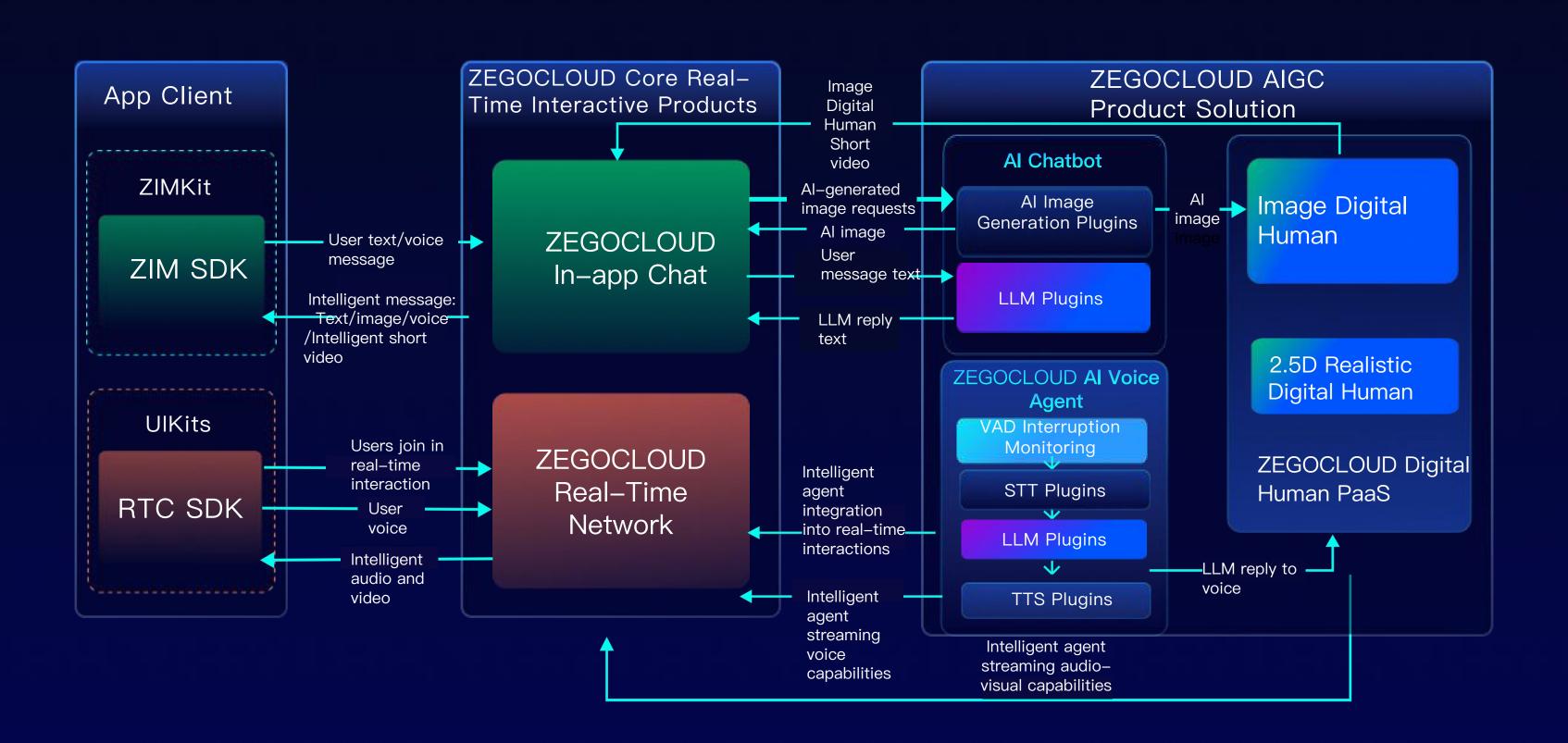
Lip-Sync and Voiceover Synchronization, Natural Expressions

Multi–Turn Dialogue Memory

Customizable Avatar Appearance

Low Latency, Real-Time Streaming Interaction

ZEGOCLOUD AI Companion Solution Architecture



Virtual Interaction Made Real

Find ZEGOCLOUD on www.zegocloud.com