

NEW ROCK NEWLYNC2.0

CARRIER-GRADE OFFICE UNIFIED COMMUNICATIONS PLATFORM

New Rock launches a new generation of NewLync2.0 all-in-one UC platform, to provide a enterprise customers high-reliable unified communication solution for office telephony and team collaboration. NewLync2.0 all-in-one compatible with analog/SIP terminals, IAD, and billing, recording softwares. Build a multi-scenarios digital workspace for 200-2000 user enterprises, meet the ever-increasing communication needs of customers in the digital era.



1. Highly unified Communication Platform for Small and Medium-sized Enterprises

Unified communication is the trend of enterprise communication in the digital era, integrating analog voice communication, audio/video conferencing, messaging collaboration, LDAP contact book and other UC features, and has been widely used in enterprises around the world. NewLync2.0 innovatively providing high-performance audio/video conferencing and team collaboration capabilities in the VoIP communication platform. Bringing a highly integrated enterprise unified communication solution for 200-2000 user scale enterprises.

High-performance Hardware Platform

NewLync2.0 All-in-One hardware uses New Rock customised servers, supports New Rock UMS for centralized management, reduces enterprise maintenance costs and simplifies operation and maintenance.

Multi-terminal Compatibility

NewLync2.0 All-in-One supports standard SIP protocols without complex POC testing. Supports docking of various SIP terminals, such as phones and IADs, which improves the utilisation rate of enterprise resources.

2. Telecom-grade High Reliability

Compared with traditional enterprise-class communication products, New Rock IP PBX series products have served millions of enterprise offices users, and have been tested by the complex service environment of large-scale carriers. NewLync2.0 all-in-one provides carrier-grade reliability for enterprises.

Load Balancing

Supports fault tolerance and scalability of dual systems, achieving rational use of enterprise communication resources and optimal load balancing of system performance, avoiding overload or performance bottlenecks of individual nodes, and improving the quality of service.

HA Reliability

The backup server is always on standby, and when the main server fails, the backup server can take over the work of the main server within <5s. Seamless switchover is achieved during maintenance and upgrading of the main server, ensuring the continuity and stability of enterprise communication services.

3. Efficient Enterprise Communication Capability

NewLync2.0, as the enterprise unified communications platform, provides enterprises with a digital office platform that integrates multiple applications.

Enterprise IP Telephony Capabilities

PBX switchboard, multi-level IVR, console, incoming call queue, call hold, call park, call waiting, call forwarding, call transfer, call restriction, outbound call restriction, multi-terminal vibration, different ringing tone, busy callback, do not disturb and other voice communications features

Collaboration

Text/voice messaging (voice change), video messaging (editable), read receipts, ping reminders, paintbrush, emoticons, file transfer/pictures, location information, lookup (text, files), scanning text, burn-after-reading, discussion groups, group chat, and other collaborative office functions.

Audio & Video Conferencing

Support audio and video convergence conference, support desktop extension into the meeting (inbound/outbound), outside the mobile phone into the meeting (inbound/outbound), support for temporary meetings, booking meetings, fixed meetings, cross-organisation into the meeting (guests), group audio and video conference audio and video conferencing capabilities

Enterprise Contact Book

Multi-level organisation structure (10 levels), LDAP docking support, multi-Terminal Synchronisation, add frequently used contacts, intelligent search, contact batch import, and other functions.

4. Easy to Deploy and Install

NewLync 2.0 supports pre-installation of software to achieve out-of-the-box use. Configuration time is reduced by 80% compared to the cloud + end unified communication solutions, support for webGUI admin management, improve efficiency of enterprise deployment and management.



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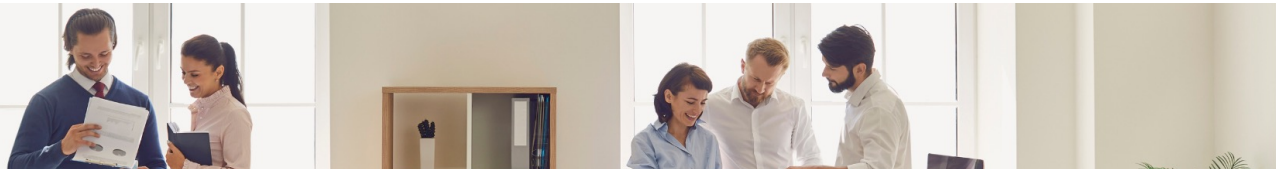
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NewLync 2.0 All-in-One	
Deployment Architecture	All-in-one including hardware, pre-installed software, licensing
Version	200~500 users version, 500~2000 users version

Versions/Specifications	200~500 Users Version	500~2000 User Version
Basic License	Includes 200 users, 100 concurrent, 32-party video conference concurrent license	Including 500 users, 100 concurrent, 32-party video conference concurrent license
Dual HA Disaster Recovery Feature	License control	License control
Number of User License (including UC)	10/group (maximum 500 extensions)	10/group (max. 2000 extensions)
IP Extension Concurrent License	Not support	10/group (max. 400 concurrent)
Video Conference Concurrency	Not support	10/group (max. 64 parties)
Recording Extension License	10/group	10/group
Contact Book	License control	License control

Hardware Configuration		
200-500 User Version	CPU	Qty 1, frequency 2.1GHz, number of physical cores 16C
	Memory	Qty 2, Type DDR4 RDIMM, Frequency 3200MHz, Capacity 32GB
	Hard Disk	Qty 2, Type SSD, RPM, Capacity 960GB
500-2000 User Version	CPU	Qty 1, Frequency 2.2GHz, Physical Cores 24C
	Memory	Qty 4, Type DDR4 RDIMM, Frequency 3200MHz, Capacity 32GB
	Hard Drive	Qty 2, Type SSD, RPM, Capacity 960GB; Qty 2, Type SSD, RPM, Capacity 1.92TB
Other Configurations	Raid card	Qty 1, Cache /, Raid level RAID 0,RAID 1,RAID 10,RAID 5
	Fan	2U standard fan module
	Power Supply	2 * 550W AC & 240V High Voltage DC Power Modules (DT-R1-Platinum)
	Ethernet	4-Port Gigabit Ethernet NIC-360T-B2

Hardware		
Dimension(HxWxD)	2U Chassis 87.5mm (Height) *445.4mm (Width) * 748mm (Depth) (excluding safety panels) 87.5mm (Height) * 445.4mm (Width) * 776mm (Depth) (including safety panels)	
Power & Cooling	Optional Platinum Level 550W / 800W / 850W / 1200W / 1300W / 1600W / 2000W 1+1 redundant power supply Optional Titanium level power supply Optional 800W negative 48V / 336V DC power module, with support for 1+1 redundancy Supports hot-swappable redundant fans.	
Operating Temperature	Long-term working temperature: 0°C ~ 45	Short-term operating temperature: -5°C ~ 55
Power Supply	DC 48V~-60V	AC 220V~240V
Ethernet	Support dual network port redundancy (optional)	



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Voice (NewLync Client)

One Num, Multi-Devices	Supports multi-device with one number, answer incoming calls on different devices
Call Relay	Seamless device switching, switch IP extension calls between different devices
Call blind transfer/consultation transfer	Supports users in the NewLync client to transfer an ongoing phone call to another number without the need for prior communication. Supports users in the NewLync client to consult or communicate with the transfer destination before transferring the call.
Second Dialling	Redial the same number after a call ends, without having to enter the complete phone number again
Contact book	Dialling internal extensions through the contact book, supports dial external contact numbers
Teleconference	Supports dialling contacts' mobile phones, inviting them to join a meeting (voice only); Supports contacts dialling meeting room numbers to join (voice only).
Call Permission	Internal call, Local call, Domestic long-distance call, International long-distance call.
Codecs	Opus, G.711 u/a Full-duplex; Built-in in-band voice passthrough, RFC2833, SIP-info, Sound processing technologies: Automatic Echo Cancellation (AEC), Voice Activity Detection (VAD), Comfort Noise Generation (CNG), Adaptive Jitter Buffer Algorithm (AJB), SIP standard protocol, Dual-stream protocol.

NewLync Client Account

Security Protocol	AES-256 local database encryption TCP/IP, DHCP/Static IP SRTP/TLS data transmission encryption. Penetration features including, NAT intranet penetration STUN, TURN, ICE
Installation	IOS, supports 12.1 and later new version
	Android, support 7.x and subsequent new versions
	Windows, Windows 10 version
	MAC, including Sierra, Mojave, Catalina, etc
Language	CN/EN
Account	Support for customised avatars, statuses, etc.
Terminal	Smart phone, PC, Meeting hub, IP phone, etc.
Team	Support joining max 5 team organisations

Audio&Video Meeting (NewLync Client Meeting Room)

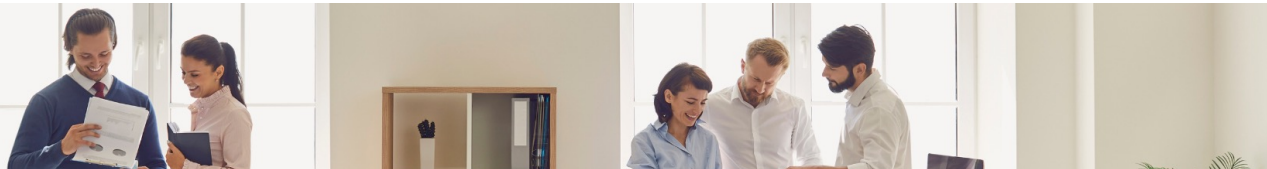
Capacity	Max 400 party; Support 180P/360P/720P/1080P/4k
Platform	Support Android,iOS,MacOS,Windows
Terminals	Smart phone, PC, Meeting hub, IP phone, etc.
Management	Meeting host, meeting locking
Appointment	Support fast booking of video conference; support inviting contacts to join the booked conference; support editing and deleting the booked conference; support automatic reminder before the meeting.
File Sharing	Support sharing screen, programme, file, etc.
Protocols	Decode 1080P/30fps Encode 1080P/30fps, Auxiliary stream 1080PH.264 High Profile, H.264, vp8, H.265, VP9 video encoding, 2K, 4K HD video; WebRTC protocol; Dynamic Bandwidth Adaptive Adjustment; Forward Error Correction (FEC) algorithm, 30% video packet loss resistance, Protocol Adaptive, Audio and Video Adaptive

Collaboration (NewLync Client)

Group	Max 500 users group chat
Group meeting	Default 4 party, max 10, expand by license
Message	Supports rich text messaging such as text, emoji, voice, video, file, etc.
Whiteboard	Support multiple editability of whiteboard on mobile phone
Reminder	Support ping, @ for message reminding
Security	End-to-end encryption for group meetings, messages and other file data; support for message withdrawal, customized time length for message delete and burn after reading, etc.

Contact Book (NewLync Client)

Organisation Structure	Up to 10 levels
LDAP	Supports LDAP docking, automatic synchronisation of multiple terminals (APP/PC/IP phone).
Management	Support batch import by excel file, support multi-level management
Search	Support client-side quick search for internal and external contacts



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Protocols

Call Control	SIP/UDP, SIP/TCP(RFC3261),IMS (3GPP)
Networking	SSHmHTTP,HTTPS,DHCP client,STUN

Media Processing

Codec	G.711a/u,G.729a/b,G.722,G.722.2
DTMF	In-band audio,RFC2833,SIP-INFO
Fax over IP	G.711 pass-through,T.38,compatible with G3 Fax, max 33.6k bps(pass-through)
Voice Quality Enhancement	Echo cancellation (G.168-2004, trailing time 64ms), jitter buffer auto-adjustment

Voice

Smart Auto Attendant/ Receptionist	Business/non-business hours/holiday,call queuing,attendant group,multilingual,multi-level IVR, auto-attendant, VIP service, switchboard templates, switchboard duty, customer caller ID binding to extension numbers,DID
Diaing	Call barring (20 level), outgoing rout selection, speed dial, emergency call, black/white list, hotline (instant/delayed), auto route selection,etc
Call Setting	call hold, call park, call waiting, 3way calling, call forking, Do Not Disturb,call barge, silent monitoring, secretary, call transfer, call forward, sharing extension, hunt group,etc.
DISA	Calling number authentication,authentication triggerd by feature access cod
Call Recording	Utilize with New Rock RMS
SIP Trunk	IMS,multi-sip sever registriton

Other

Multi-site Voice Networking	Intra-network extension calling, call transfer, call forwarding, outbound trunk sharing, three-way calling, attendant on remote site.
QoS	DiffServ,TOS,802.1p/Q VLAN tagging
Internal Storage	Voice mail, history logs, IVR voice file (user upload), system audio file management, configuration file backup, version rollback

Security

User-Defined	SIP prot,HTTP/HTTPS port to access to WebGUI,RTP port
Access list	HTTP/HTTPS access whitelisting, SSH access whitelisting, SIP access whitelisting (IP address filtering)
Encryption	Encryption on SIP signaling and media stream,import and extport encrypted configuration file, encryption with password/PIN
IP Extension	Prohibition on outgoing dialing by IP extensions on public network, user-agent authentication, registration password craking protection
Web GUI	Prohibition on login from IP address on public network, login password craking protection
Call Restrict	Restrict total call duration, single call duration, cocurent calls, call frequency for long distance calls
Intrusion Prevention	ACL-based traffic filtering

Supported Add-on Software

RMS Recoding Management System	Comprehensive query, scoring, labelling, report generation and other management operations, support authorization management, file encryption
Networking Server	Integrates call routing management, number management, number replacement, and data storage of network equipment to improve network efficiency.
Attendant Console	Fast and efficient operation platform for operators, supporting call queuing, transfer, extension status monitoring and other functions.
Billing	Call monitoring and billing management
Bussiness	CRM,ERP,HRM,OA,AI, etc.

Provisioning, Adminstration and Management

UMS	New Rock unified management system
Application Interface	API(XML/HTTP)
Log	System log, call log management
Data Capture	Port mirroring and packet capture
Configuration	Configuration import/export/backup
Status & Alarm	Device status, system status monitoring, fault alarms by phone call
Version	Version upgrade/return
NewLync Clint Log	PC/App client feedback submit bugs, suggestions,logs,etc.