

RAYSYNC FILE TRANSMISSIONP RODUCTS TECHNICAL WHITE PAPER

Shenzhen Yunyu Technology Co., Ltd.



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I. Product overview

Raysync File Acceleration Transmission Product is a professional high-speed file transmission system independently developed by Shenzhen Yunyu Technology Co., Ltd. It can help users quickly distribute TB-class mass files worldwide and has been widely used by hundreds of enterprises in media, film and television production, communication equipment, automobile manufacturing and other industries.

2. Core advantages

2.1 Intelligent Optimization for Network

The independently developed high-speed transmission protocol Raysync can help users to automatically adjust the transmission speed to the optimal state regardless of any network latency or packet loss. It can improve the speed by tens to hundreds of times compared with FTP and Http transmission methods based on TCP.

Support UDP and TCP intelligent handover selection to ensure optimal transmission experience. The system will automatically select TCP for transmission in the LAN environment with low latency and no packet loss. The system will automatically select UDP for transmission in the Internet with high latency and packet loss.

2.2 Intelligent Optimization for Disk I/O

Regardless whether it is transmitting large files or large amounts of small files, the self-developed RayFile file file processing engine can achieve the optimal transmission speed with minimum system software overhead.

A single TB file transfer is supported in a large file transmission scenario. Raysync transmission can easily transmit thousands of files per second through concurrent multithreading, multi-file multiplexing connection and other technologies in the scene of massive small files transmission, and the same can improve the speed by tens to hundreds of times compared with common FTP and Http.



2.3 Multiple Checks Guarantee Reliable File Transmission

- Support breakpoint continuation;
- Support multiple transmission verification mechanisms such as message verification and document integrity verification to ensure that users' documents can be delivered to the destination smoothly;

2.4 Firewall Friendly

Only one TCP port needs to be opened and one UDP port can make the whole transmission system run normally without exposing too many ports in the external network.

2.5 High Safety

Support TLS encryption protocol, users can use self-signed certificates or certificates issued by CA institutions for encryption to ensure file security.

- AES-256 Financial Level Encryption Strength to Protect User Data Privacy Security;
- FTP protocol and data channel have added SSL security function;
- Support to configure confidential certificates to make service access more secure;

2.6 Supports AD Domain Users

It supports docking with AD domain and directly uses users in AD domain for login and authorization.

2.7 Intelligent Compression

The system supports automatic intelligent compression to help users save valuable bandwidth and speed up the file transfer process.





2.8 Support load balancing deployment to ensure high availability of the system

	Service name	Function Description		
Database		Save user information and configuration information, etc. ;		
	Raysync Web service	provide Raysync Web service , It includes user console and administrator console.		
	Raysync file service	provide Raysync file transmission end		
Server	Watchdog Monitoring Service	Monitoring of Web services and file services regularly is normal, whether there are exceptions will automatically restore the Web services and file services start.		
		Many enterprises have their own AD domain server, and		
	AD domain server	employees' accounts are stored in AD domain server. Raysync		
	(optional)	supports docking with AD domain server and direct use of AD		
		domain account.		
	Shared storage (optional)	Required in load balancing deployment mode for multiple transmission nodes to share the same storage.		
	Load balancer (optional)	In the load-balanced deployment mode, uniform network access is required and automatically distributed to multiple transmission nodes.		
Client	browser UI	User login, file operation, external chain Settings and other functions.		
	File transmission client	Realize user file upload, download function.		

Transmission nodes can be added in a scale-out manner to improve the performance of the transmission system and support up to 10Gbps traffic through load balancing deployment.

2.9 Support multi-path automatic selection

Multi-path communication is supported between Raysync client and server through DNS cooperation, and Raysync client can automatically select the fastest path.





3. Brief Introduction of Congestion Detection and **Monitoring Technology**

Introduction of Raysync System Service Components;

Raysync transmission system is a system combining B/S and C/S models. It supports single-machine deployment and load balancing multi-machine deployment. Raysync supports both built-in users and AD domain users.

3.1 Single-machine deployment, using built-in users of the

system

Database selection: Raysync server supports configuration of SQLite or MySQL database in single-machine deployment mode. It is recommended to use the built-in SQLite for stand-alone deployment when there are no special requirements. The advantage of SQLite database is that it is simple and easy to use without additional installation and configuration of MySQL database.

Storage selection: There are no special requirements for storage, which can be disk storage of the server itself or external shared storage such as NAS.

Advantages: This deployment method is simple in process, and can be started after downloading Raysync server without configuring external database.

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Deployment method:



3.2 Stand-alone deployment, using external AD domain users

AD domain docking configuration: log into the administrator console of Raysync server and configure ad domain docking information in the console after installing and starting Raysync.

Database selection: Raysync server supports configuration of SQLite or MySQL database in single-machine deployment mode. It is recommended to use the built-in SQLite for stand-alone deployment when there are no special requirements. The advantage of SQLite database is that it is simple and easy to use without additional installation and configuration of MySQL database.

Storage Selection: There are no special requirements for storage, which can be disk storage of the server itself or external shared storage such as NAS.





3.3 Load balancing multi-machine deployment, using system

built-in users

Database Selection: MySQL database must be used for Raysync servers under load balancing deployment mode.

Storage Selection: External shared storage, such as NAS, must be used, and the mount path of storage must be strictly consistent on each node with balanced load.

Load Balancer Selection: No special requirements, as long as it can support 4-layer UDP distribution and TCP distribution. Open source LVS and commercial F5 load balancers can be supported. Load balancers on clouds such as Aliyun, Huawei and Tengxun.

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Note: Amazon AWS load balancer does not support UDP stream distribution and cannot be used together.



3.4 Load balancing multi-machine deployment, using external

ad domain users

Database Selection: MySQL database must be used for Raysync servers under load balancing deployment mode. Storage Selection: External shared storage, such as NAS, must be used, and the mount path of storage must be strictly consistent on each node with balanced load.

Storage Selection: External shared storage, such as NAS, must be used, and the mount path of storage must be strictly consistent on each node with balanced load.

Load Balancer Selection: No special requirements, as long as it can support 4-layer UDP distribution and TCP distribution. Open source LVS and commercial F5 load balancers can be supported. Load balancers on clouds such as Aliyun, Huawei and Tengxun.

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Note: Amazon AWS load balancer does not support UDP stream distribution and cannot be used together.



4. Introduction of Main Functions of Products

4.1 Main Functions of Client

4.1.1 Upload

- It supports uploading files/folders in multiple languages, such as Chinese/English/French/Arabic/German/Spain and other languages;
- Support file upload with TB level size;
- Supports uploading of millions of files in a single folder;
- File/folder upload supporting local path and network path;
- Supports uploading and interconnection of files/folders longer than 255 bytes;



4.1.2 Download

- Supporting the downloading of files/folders in multiple languages, such as Chinese/English/French/Arabic/German/Spain and other languages;
- It supports TB-level file download;
- It supports uploading of millions of files in a single folder;
- File/folder upload supporting local path and network path;
- It supports file/folder downloads that exceed 255 bytes in length;

4.1.3 Share Download

- It supports to set the expiration time of sharing links;
- Sharing links that support the generation of secure passwords;

Set link expiration time:

Sha	re to other partners	×
	Allow Download	
	Expiration	
	2019-11-02 11:17:30	🗊 1 Day 🔻
	E-mail notification	
		Create link Cancel

Generate sharing links:

Share to other partners	×
Created Successfully	
http://127.0.0.1:8090/share/78jfQbTImVKsBq	Copy link
Access password:yanZ	
	Close





Visit the sharing link:

会 镭徳企业版				
୕ୄ	This link requires a password to access	English ~		
	Please enter your access password:	ОК		

Browse sharing links:

test invited you to upload files			About Raysync	Transfer list 🕂
L Al				loaded
Name T	Size 4	Modified 4		
🔁 A		2019-10-24 11:14:18		
🔁 c		2019-10-29 16:49:54		
B 8	5.22 GB	2019-08-21 18:07:04		
	No more			

4.1.4 Invitation to Upload

- It supports to set the expiration time of invitation upload link;
- An invitation upload link that supports generating a secure password; •

Generate an invitation upload link:

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		10 Pr - 20 1 1 1 1 2 2			
Group Space		Invitation upload	×		
] Share Management		The second second			
		Upload to: Home		dified +	
	🔍 🔜 A	Expiration		9-10-24.11:14:18	
		E-mail notification		9-10-29 16:49:54	
	🗆 🛅 B	-		9-08-21 18:07:04	

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Set the expiration time of the invitation upload link:

test w				↓↑ Transfer list 中文
R Personal Space	Personal Space		_	
(b) Group Space Im Share Management		Invitation upload >	×	
	□ 1file(s)/folder(s) selected ↑	Expiration	dified ↓	
		2019-10-31 12:14:43 🗇 1 Day 🔹	9-10-29 16:49:54	
		E-mail notification E-mail address (separate by multiple;) Enter message content (optional) Create link Cancel	P-08-21180704	

Visit Invitation Upload Link:

会 镭徳企业版				
୕ୄ	This link requires a password to English - Eng			
	Please enter your access password:			

Browse invitation to upload link content:

test invited you to upload files			About Raysync	↓↑ Transfer list 中文
All				loaded 3
Name †	Size 4	Modified 4		
■ A		2019-10-24 11:14:18		
📮 c		2019-10-29 16:49:54		
B +	5.22 GB	2019-08-21 18:07:04		
	No more			
				(
L				





4.1.5 Data Compression

It supports to start data compression, compress the compressible file format, and accelerate the transmission speed.

Turn on compression:

Transmission Setting	×
Transmission Bandwidth Advanced	
O Save the download file to:	
C:\Users\wuyuan\Downloads	
Manually select the download path	
Maximum number of upload tasks: 10	(1-10)
Maximum number of download tasks: 10	· (1-10)
Data compression	
UDP packet size: 1200 (600-1442)	
Car	ncel OK

4.1.6 Task detail

It supports to view the details of task transmission, and better view the transmitted information when a single task contains a large number of files.







4.1.7 Task Speed Curve

The users can view the task transmission speed curve to better understand the speed change and network bandwidth utilization rate during task transmission.



4.2 Main Functions of Server

4.2.1 Server Status Monitoring

- It supports background viewing of server CPU usage;
- It supports background view of the server's network card gateway bandwidth information;
- It supports background viewing of server disk space;
- It supports background check server online users;

2



	🙄 Shutdown 🧳 Restart
Online Users:0 Storage Status: 1018.57 GB free of 1.00 TB License Information: Activated	System Status: Running
Monitor Information	CPU Usage (%)
Select Network Card: ens192 *	bps) Outgoing Speed (Mbps)
.15	
0	

4.2.2 Transmission Status Monitoring

It enables administrators to view the live data being transmitted by the server and the user's transmission history so that the administrators can more conveniently and intuitively monitor the transmission of the server.

😂 Raysync Enter	prise Control Center	只 admin	English •
E	信 Current Transfers		
Server			
1≡ Transfer ^	No Data		
Current Transfers			
Transfer Log			
Share Manager ^			
Invitation upload			
Share download			
Email			
Users Manager ^			
Users			
Operation Records			
User Gourp			
Third-party authenti			
Storage configurati			
Advanced Setting ~			
Personalization			
	Copyright © 2014-2019 Shenzhen Yunyu Technology Co., Ltd. All rights reserved.		Version3.4.3.1
	-		

Transmission live monitoring:





Transmission History Log View:

=	1 Transfer Log					
15 Turneter	User : Start tir	te 2019-09-30 🗇 End time 2019-10-30 😁	Search			
i iranster A		_				
Current Transfers	Users 🗢	File		Bytes	Time 🗘	Actions
Transfer Log	test	test_20191024111336816.log		381.8	2019/10/24 11:13:36	View Download
Share Manager ^	test	test_20191024111416856.log		377 B	2019/10/24 11:14:16	View Download
Invitation upload	- Aust	tert 20191024163658218 log		611 B	2019/10/24 16:36:58	View I Download
Share download		and a rest rest rest and				
Email						
🎫 Users Manager 🗠						
Users						
Operation Records						
User Gourp						
Third-party authenti						
Storage configurati						
Advanced Setting ^						
TLS certificate						
Client TLS						
MySQL configuration						
TCP configuration						
Event notification						
Other Settings						
Ω Personalization	Copyright © 2014-2019 Shenzhen Yunyu Tec	nology Co., Ltd. All rights reserved.				Version3.4.3.1

4.2.3 Encrypted transmission

It supports encrypted transmission, ensures transmission security on the basis of fast transmission, and can configure user self-signed certificates.

Turn on encrypted transmission:

😂 Raysync Enter	prise Control Center		A admin English *
E	📰 RaySync Server		() Shutdown C Restart
Server Server Server Current Transfers Current Transfers Current Transfers Current Transfers Current Transfers Current Transfers Current Transfers Current Transfers Current Curr	RaySync Server Main Information Server Name : RaySync Server Version : 3:4.3:1 Device ID: 9:4de:30:62:53:36 Operation System : Windows-10:10.0:14393-AbM det Host : 127:0.01 UDP Accelerate Port : 32001 UDP Package Size : 1200 Enable Compression : Enabled Outbound bandwidth : 100M License : 32:WoALSKopR2B.00?pgd	Edit × Server Hane Rafs/prc Server Rost: Support domain and IP address 127.00.1 UDP Acclarets Port 30001 UDP Acclarets Fort 3000 UDP Acclarets Fort 3000 UDP Acclarets Fort 3000 UDP Acclarets Fort 3000 Lonse 3200ALSDxpR2BalSPipol Enable Compression C	C Skutdowi C Rosteri
 ⊗ Advanced Setting ✓ ⑦ Personalization 	Online Users:1 Storage Status: 802.61 GB free of 931.51 GB License Information: Inactivated	System Status 🗭 Running	





4.2.4 TCP/UDP transmission mode automatic switching

TCP/UDP transmission mode switching is supported to meet the transmission requirements of enterprise users in different network environments.

Raysync defaults to UDP transmission, but TCP transmission configuration is provided to make greater use of intranet bandwidth during intranet deployment:



4.2.5 User Rights Management

It supports the flexible management of individual users' permissions such as uploading/downloading/deleting/renaming/creating folders to meet the needs of enterprise management.



€Raysync Enter	rise Control Center		A admin	English 🔹 📔
E	Fdit User			
Server	Laterset			
1≣ Transfer ^	D			
Current Transfers	2			
Transfer Log	Full name (0 - 32 characters)			
Share Manager	202			
- Invitation upload	Account test1			
Chara developed	Password double click to edit (Password must be 8-20 characters and include lowercase letters, uppercase letters,	numbers, and special characters.		
Share download	Not be identical to the account name.)			
Email		Generate password		
III. Users Manager ^	Force users to change their password when they log in for the first time			
Users	nome unrectory			
Operation Records	Permissions Default Full Denied			
User Gourp	Utst files Retrieve file			
	Maximum unload speed (Mbos): [0: unlimited]			
Third-party authenti	0			
Storage configurati	Maximum download speed (Mbps): [0: unlimited]			
Advanced Setting ~	0			
9 Personalization	Associated user groups : Add association			
	test: Onen file format for transmission whitelist@ess than 255 characters in length)			
	Please enter the suffix name that allows the user to transfer the file. Please use multiple formats; such as: txt; exe;			
		A		
	OK Back			
	Copyright © 2014-2019 Shenzhen Yunyu Technology Co., Ltd. All rights reserved.			Version3.4.3.1
16				
	—			
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		Shenzhen, Guangdong, China		



Default permissions:

SK.	aysync Enter	rise Control Center	
		Edit User	
	ver		
	nsfer ^	ID	
	rent Transfers	2	
	isfer Log	Full name (0 - 32 characters)	
ф с.	re Manager	777	
	ntion unlos	Account	
	re download	Password double click to edit (Password must be 8-20 characters and include lowercase letters, uppercase letters, numbers, and special characters.	
	a	Not be identical to the account name.) Cenerate parsword	
RL U: Us	ers Manager 🗠	Force users to change their password when they log in for the first time Rome Directory	
Op Us	ration Records r Gourp	Permissions (B) Default () full () Devied D List Res. D Retives Re: Default () Remaine () create directory () Store Re Default () Remaine () create directory () Store Re	
	rd-party authenti	Maximum upload speed (Mbps): [0: unlimited]	
a 9	rage configurati	0	
a -	anced Setting	naximum oowinoad speed (Mbps): [0: unlimited] 0	
0 Ас	sonalization	Associated war groups : Add association tai; "Open Rie Remark for transmission whitefaitLess than 255 characters in length) Plasse eater the outflu care that allows the user to transfer the file. Plasse use multiple formatic such as tot one	
		OK Back	
		Copyright © 2014-2019 Shenzhen Yunyu Technology Co., Ltd. All rights reserved.	

Custom permissions:

	prise Control Center
	Edit Lleav
Server	Edit User
⊫ Iranster ^	ID
Current Transfers	2
Transfer Log	Full name (0 - 32 characters)
A	111
Share Manager ^	Account
Invitation upload	test1
Share download	Password double click to edit (Password must be 8-20 characters and include lowercase letters, uppercase letters, numbers, and special characters.
	Not be identical to the account name.)
Email	Generate password
IL Users Manager 🗠	Force users to change their password when they log in for the first time
lines	Home Directory
Ulata	
	Permissions Default Full Denied
User Gourp	Delete Z Rename Create directory Store file
	Maximum upload speed (Mbps): [0: unlimited]
inird-party authenti	0
Storage configurati	Maximum download speed (Mbps): [0: unlimited]
Advanced Setting ~	0
Q. Demonstration	Associated user groups : Add association
U Personalization	test;
	Open file format for transmission whitelist(Less than 255 characters in length)
	Please enter the suffix name that allows the user to transfer the file. Please use multiple formats; such as: txt; exe;
	OK Back
	Copyright © 2014-2019 Shenzhen Yunyu Technology Co., Ltd. All rights reserved.

Personalization settings:

SRaysync Enterp	Drf Se Control Center	8 admin	English 🔻
E	Personalization		
Server	Set your logo and index background image		
= iransfer ^			
Current Transfers			
Transfer Log	Control (co. 100 - 101 outfin Exercise)		
🔗 Share Manager 🗠			
Invitation upload			
Share download	T		
Email			
🛤 Users Manager 🗠			
Users	T		
Operation Records	Savet Reset		
User Gourp	Set web name: Keywannis		
Third-party authenti	Company Name		
G Storage configurati	Onnese 深圳市正都科技制度公司		
	English, Sherchen Yunyu Technology Co, Ital		
Advanced Setting *	Raysyner(Global product name):		
9 Personalization	Onese BE		
	English, Rayone		
	Company website		
	https://www.zysync.ch		
	Save Reset		
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4.2.6 User Speed Limit

It supports to configure user transmission speed and balance management server bandwidth.

User speed limit:

=	Edit User			
Server				
t≣ Transfer ^	10			
Current Transfers	1			
Transfer Log	Full name (0 - 32 characters)			
A Share Manager	test			
✓ snare manager	Account			
Invitation upload	test			
Share download	Password double click to edit (Password must be 8-20 characters and include lowercase letters, uppercase letters, numbers, a Not be identical to the account name.)	nd special characters.		
Email		Generate password		
BL Users Manager A	Force users to change their password when they log in for the first time Home Directory			
Users				
Operation Records User Gourp	Permissions () Default () Full () Denied List files () Retrieve file Defete () Rexame () Create directory () Store file			
Third-party authenti	Maximum upload speed (Mbps): [0: unlimited]		7	
Storage configurati	0			
A Advanced Continue of	Maximum downioad speed (Mops): [U: uniimited]			
Advanced Setting ^	Associated user arouns : Add association			
TLS certificate	Open file format for transmission whitelist(Less than 255 characters in length)		_	
Client TLS				
MySQL configuration				
TCP configuration	OK Back			
Event notification				
0 M 0				
Other Settings				
Personalization	Copyright © 2014-2019 Shenzhen Yunyu Technology Co., Ltd. All rights reserved.			

4.2.7 User Home Directory Configuration

It supports configuration of user home directory, flexible management of user's server home directory location

Edit User Full name (0 - 32 characters test Account test Force users to change their p ✓ List files
 ✓ Retrieve file
 ✓ Delete
 ✓ Rename
 ✓ Create d Store fil eneed (MI (Mbps): [0: Open file format for transmission whit OK Back 5 ₹ 5 0 \$ 8 € * 18 🌐 www.raysync.io support@raysync.io 2 17th Floor, Building B, Sunny Kechuang Center, No.1024 Nanxin Road, Nanshan District, Shenzhen, Guangdong, China

To configure the user home directory:

\\$ 400 833 6022



4.2.8 Server Speed Limit

It supports the global speed limit of the server, and avoids the fussiness when the speed limit is required for multiple users.

Global speed limit:

=	Edit User	
E Server		
	D	
Current Transfers	1	
Transfer Log	Full name (0 - 32 characters)	
	test	
• Share Manager	Account	
Invitation upload	test	
Share download	Password double click to edit (Password must be 8-20 characters and include lowercase letters, uppercase letters, numbers, and	special characters.
Email		enerate password
Di theor Manager	Force users to change their password when they log in for the first time	
- Users Manager ^	Home Directory	
Users		
Operation Records	Permissions Default Full Denied	
User Gourp	List files Renorme Renorme Create directory Store file	
70.001	Maximum upload speed (Mbps): [0: unlimited]	
Inird-party autnenti	0	
Storage configurati	Maximum download speed (Mbps): [0: unlimited]	
Advanced Setting ^	0	
TLS certificate	Associated user groups : Add association	
Ci	Open file format for transmission whitelist(Less than 255 characters in length)	
Client ILS	Please enter the suffix name that allows the user to transfer the file. Please use multiple formats; such as: bit; exe:	le le
MySQL configuration		
TCP configuration	OK Back	
Event notification		
Other Settings		
9 Personalization	Copyright © 2014-2019 Shenzhen Yunyu Technology Co., Ltd. All rights reserved.	

4.2.9 External Database Configuration

It supports external databases to provide more convenient and flexible database configuration methods for enterprise deployment.

🕏 Raysync Enter	prise Control Center	R admin	
	S MySOL configuration		
	Enable external MySQL database		
	Database address (ip or URL):		
	Database port: 3306		
	Database name: Rysync,db		
	Database account: rejrom		
	14/01 support		
	MJ2rd brasmoto:		
	Note: Click the test button after confirming that the information is correct.		
Advanced Setting ^			
MySQL configuration			
TCP configuration			

Enable external database:





4.2.10 Encryption Certificate Configuration

It supports to configure confidential certificates to make service access more secure.

😂 Raysync Enter	prise Control Center	A admin	English •
⊟ Server	TLS certificate		
f≣ Transfer ^	vpload SL		
Current Transfers	ren para		
Transfer Log			
Invitation upload			
Share download			
Email	* SSL key		
Users			
Operation Records			
User Gourp			
Third-party authenti			
Advanced Setting	upos		
TLS certificate			
Client TLS			
MySQL configuration TCP configuration			
Event notification			

Configure an encryption certificate:

4.2.11 AD domain configuration

Support the configuration of AD domain to provide better user import operations for enterprise users. Configuring AD domain is easy to operate. Users only need to enter their own AD domain account password to log in to the system at the front end.

Configure AD domain:

SMTP Host	smtp.exmail.qq.com
SMTP Port	465
Encryption	 None. SSL, for most servers SSL is the recommended option.
est Account	
est Password	
	Test Save

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