

# RAYSYNC FILE TRANSMISSION PRODUCTS TECHNICAL WHITE PAPER

RAYWING PTE. LTD.



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## 🗲 Raysync

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## I. Product overview

Raysync File Acceleration Transmission Product is a professional high-speed file transmission system independently developed by RAYWING PTE. 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 TLS1.3 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
Server	Database	Save user information and configuration





	information, etc.;
Raysync Web	provide Raysync Web service,It includes user
service	console and
	administrator console.
Raysync file service	provide Raysync file transmission end
Watchdog	Monitoring of Web services and file services
Monitoring	regularly is
Service	normal, whether there are exceptions will
	automatically
	restore the Web services and file services
	start.
AD domain server	Many enterprises have their own AD domain
(optional)	server, and
	employees' accounts are stored in AD domain
	server. Raysync supports docking with AD
	domain server and direct use of AD domain
	account.
Shared storage	Required in load balancing deployment mode
(optional)	for multiple
	transmission nodes to share the same
	storage.
Load balancer	In the load-balanced deployment mode,





	(optional)	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	Realize user file upload, download function.
	client	

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.

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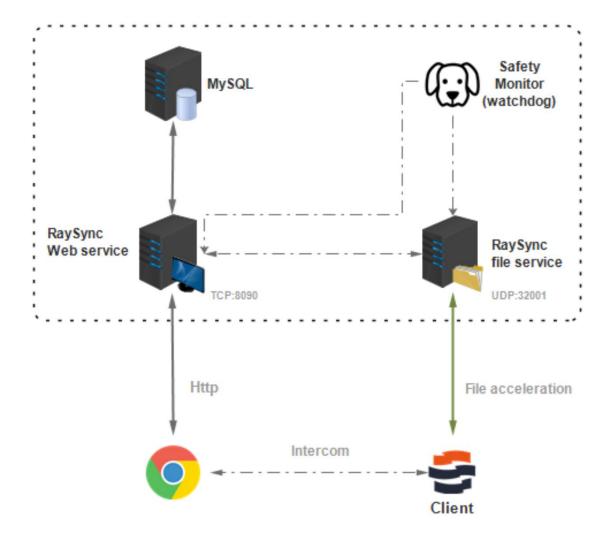
#### 3.1 Single-machine deployment, using built-in users of the

#### 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. **Deployment method:** 







#### 3.2 Stand-alone deployment, using external AD domain users

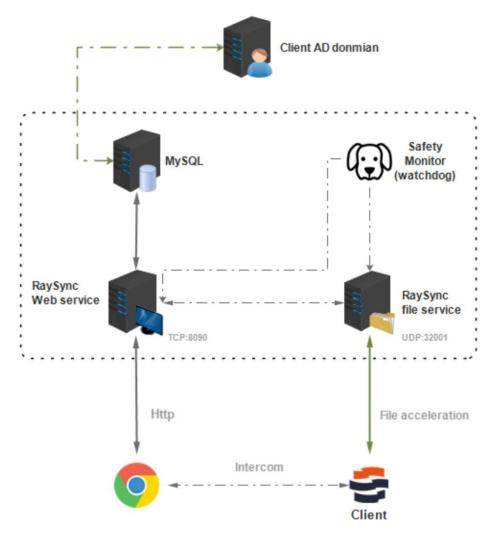
**AD domain docking configuration:** log into the administrator console of Raysync server and configure ad domain docking information in the console after installing and starting Raysync.

**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

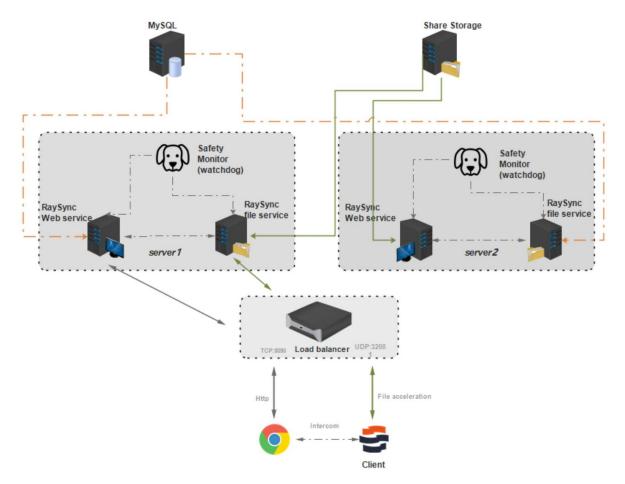
balanced load.





**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.

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



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#### 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.

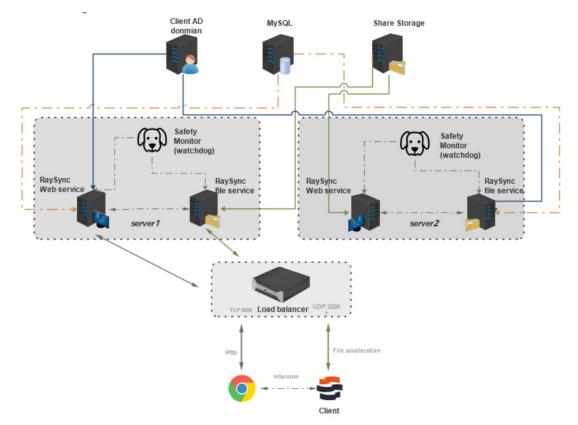
Note: Amazon AWS load balancer does not support UDP stream distribution and cannot

be used together.

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## 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:



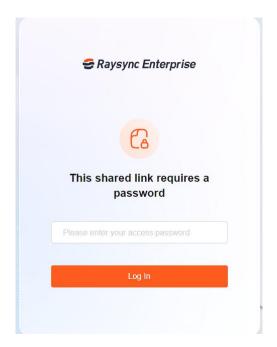


Sharing scope 🛿 Anyone with the link 🔹 Only people in your organization	
Allow download	
Total download Unlimited by default	
Set password	
јуМК	
Expiration	
Show file alias	
Email notification Email the partner with the download link	
Download notification Email me when the partner starts and finishes download	

#### Generate sharing links:

🖕 Create su	Iccessfully!		
Link:	https://	-7-, -	:8091/share é
Password:	јуМК	Ð	Copy Link and Password

#### Visit the sharing link:



#### Browse sharing links:



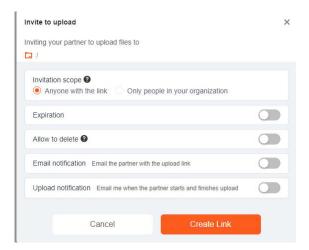


😂 Raysync Enterprise	lou shared 1 files to you		About us 📋 Download APP 😭 Download Cl
. de Download			Q
All			Loaded 1
Name 🌣		Size 🗘	Modified 0
a raysync.png		3.80KB	2023-04-21 17:33:51

#### 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; 0

Generate an invitation upload link:



Set the expiration time of the invitation upload link:

ite to upload	
iting your partner to upload files to	
Invitation scope 🚱	
Anyone with the link Only people in your organization	
	_
Expiration	
2024-03-12 15:59:41 📋 1 Day 🗸	
Allow to delete 🕐	
Email notification Email the partner with the upload link	
Upload notification Email me when the partner starts and finishes upload	
	_

#### Visit Invitation Upload Link:





😂 Ra	ysync Enterprise
	5
	La
This sha	ared link requires a
	password
	your access password
	Log In

#### Browse invitation to upload link content:

😂 Raysync Enterprise	lou invited you to upload files	About u	is 📋 Download APP	() Download Client
1. Uploan D New Folder				Q
All				Loaded 2
Name 🗘		Size 0	Modified 0	
buglist			2023-12-08 12:38:26	
aysync.png		3.80KB	2023-04-21 17:33:51	

#### 4.1.5 Data Compression

It supports to start data compression, compress the compressible file format,

and accelerate the transmission speed.

Turn on compression:

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Transfer	Bandwidth	Peer to peer	Advanced	Proxy	Default server	
Download	path O Locatio	on				
	C:/Users/	ouruyun/Downlo	ads		<b>E</b>	
	• Select	the path manually	y when download	ł		
Task par	allel Max numb	er of upload tasks	2	~		
	Max numb	er of download ta	isks 2	~		
	Parallel file	s per task Auto	$\sim$			
UDP packet	size 1200	(600-1	442)			
File sett	ings 🔽 Enabl	e data compressio	on during transfe	r		
				Ca	ancel Save	

#### 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.

View task list:





😂 Transfer List			ž	_		×
Transfer Task	Syr	nc Task	Peer	to Pe	er Task	
Select All selected <b>0</b> if	tem(s)					
folder.zip (1 items <ul> <li>folder.zip (1 items</li> <li>Completed 158.4</li> </ul>		Uploaded: 1/1	3	×Ē	1 🗅	
• (†) Raysync-Desktop- Stopped 45.25M		5-6.7 (1 items) 🛟 Uploaded: 0/1	•	×	1 🗅	$\overline{\mathbf{x}}$
Generation (1 ite Generation (1 ite Stopped 1001.44		Uploaded: 0/1	•	×Ē		
log1 (1 items) • (†) Completed 501.3	36KB	Uploaded: 1/1	;	×Ē		
folder.zip (1 items folder.zip (1 items Completed 158.4		Uploaded: 1/1	;	×Ē		
● (†) boyun_scripts.zip Completed 4.701		Uploaded: 1/1	;	×	1 6	
9.1.zip (1 items)				- re	× ~-	
0		Stop All	tart All	ľ	Delete	AI

#### 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.

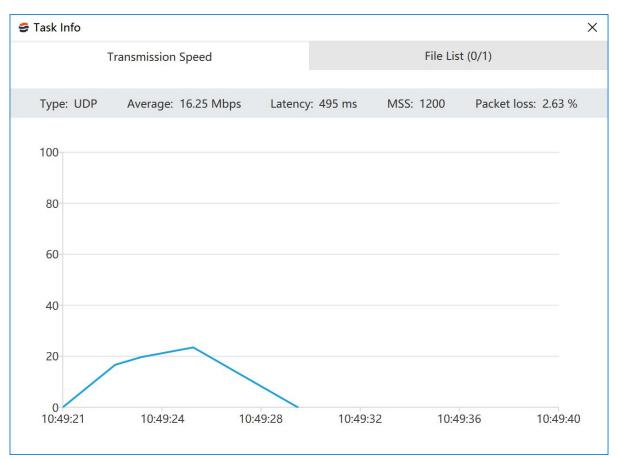
View the speed curve:

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#### 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;





Devices	Devices	Main Information	Ø Modify	User Connections	Server Status
Space Administrator User Configuration	Server	Server Name Raysync server Version 6.7.8.5		Web Online Users Client Connections	Rayfie transfer service ■ Running Peer-to-peer transfer service ■ Running FTP transfer service ■ Running
Transfer Task			epo.x86_64-x86_64-with-	License Information	Storage Status Select Disk /
File		Host hk.raysyncdemo.co		Activated ( 1024Mbps) License:	Used 18.25%
Notification	UDP Port 32001			Authorized Volume: - Left Volume: - User Limit: Unlimited	
Customize Log Statistics		UDP Package Size1200 Compression  Enable		Activation Date: 2023-11-22 Expiry Date: 2033-11-19 Max Bandwidth: 1024Mbps	Free 81.75% Used Free
Statistics		Bandwidth -			35.95 GB free of 43.97 GB
		Ucense	C Reboot service	CPU Info	NIC Info Select Network Card ensists of the select Network Card ensists of the select Network ensists of the select Network ensists of the select Network ensists of the select Network ensists

#### 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.

Transmission live monitoring:

🗲 Raysync Ente	erprise									admin
Devices     Space	Transfer Task	① Total uploads: 1, upload s	speed: 11.35 Mbps, total	downloads: 0, dov	mload speed: 0.00	bps.				
& Administrator	Client	Task name	User	IP	Туре	Progress	File size	Total transfer	Transfer speed	Actions
å User	General task	Raysync-Desktop-Client-			Upload				Contraction of the	
Seconfiguration	Transferring	Windows-6.7.8-	_up_ekcMW8r 20 x8691 1 lou@123.com 1	203.90.233.2		6 8%	15.4 MB / 175.7	0/1	11.35 Mbps	Detail Stop
Transfer Task	Logs	Setup.exe 1 202403111607 33847435300		1			MB			
Ollaboration	Peer to Peer									
🖹 File	Transferring									
Security	Logs									
Q Notification	Sync task									
Customize	Task list									
E Log	Logs									
C Statistics	Web 🚯									
	Transferring									
	Logs									
	Server ()									
	Guide									
	Task list									
	Logs									

Transmission History Log View:





Devices Space	Transfer Task	Logs										
Administrator	Client	Task name	Status	User		IP	Time					
User	General task		All					_	۹ ۹	Search dow	vnioad Downlo	ad all
Configuration	Transferring											
Transfer Task	Logs	Task name User		IP	Туре	Size	Total transfer	Start time	End time	Average speed	Status	Actions
Collaboration	Peer to Peer	Raysync-										
File	Transferring	Desktop- Client-										
Security	Logs	Windows-		1000	Upload	175.71 MB	1	2024-03-11 16:07:38.458	2024-03-11 16:08:02.482	17.01 Mbps	Incomplete ()	View
Notification	Sync task	Setup.exe 1 2 024031116073							10.00.02,402			Connota
Customize	Task list	3847435300										
Log	Logs	raysync-										
Statistics	Web 🕚	man_cmd.tar( 1).gz[1]20240			download	5.30 MB	1	2024-03-07	2024-03-07	10.87 Mbps	Completed	View
	Transferring			_				18:55:41,941	18:55:45,945			download
	Server 🕕	raysync- man_cmd.tar(										
	Guide Task list	1).gz[1]20240 30717520644 8670600	n.co	lan ili	Upload	5.30 MB	1	2024-03-07 17:52:06,126	2024-03-07 17:52:12,132	7.55 Mbps	Completed	View downloa

#### 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:

€ F	Raysync Ente	rprise	
	Devices	Configuration	Client and
۵	Space		Client app
æ	Administrator	Basic configuration	Force enable V Hash check
රී	User	Email configuration	Force enable V Encrypted transfer
010	Configuration	Client app	Force enable rsync verification
4	Transfer Task	More	Configure URL (When the user has installed multiple client versions, this config can be used to connect to specify the version
0	Collaboration	Jt Transfer	of the client)           raysync://
P	File	Transfer	Tajajir
$\odot$	Security	Sync	Save
Q	Notification	Peer-to-peer	
ప	Customize	% Link	
Ξ	Log	Share	
ᄖ	Statistics	More configurations	
		MySQL configuration	
		Event settings	
		Log	

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#### 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:

141 141	Configuration	Client app	Maximum speed period sett	ling			
4	Transfer Task	More	Repeat	Time period	Max upload speed	Max download speed	4
0	Collaboration	Jt Transfer	Weekend	0:00-23:59	System config	System config	E
ß	File	Transfer					
Ø	Security	Sync	Transfer unit Bit	V			
Q	Notification	Peer-to-peer	Transfer file format limit				
ప	Customize	% Link	Enable Whitelist				
	Log	Share		haracters)Please enter the file ty parated by semicolon, eg txt;exe			
C	Statistics	Ø More configurations			4		
		MySQL configuration	Select protocol				
		Event settings	Automatically select UD	P/TCP When latency is less than 10	ms, switch to TCP		
			Only UDP				
		Log	Only TCP				
			Priority to use UDP. If it	can not communicate in UDP, th	e system will switch to TCP automatica	lly.	
			Transfer type				
			Default (Web and Client	t)			
			Only Client (Need to ins	tall Client app)			
			Only Web (No need to i	nstall the Client, but the speed w	ill be lower)		
			Task name				
			Transfer task name (Cu	ustomize the task name when cre	eating a task)		
			🗈 Save				

#### 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.





	rator Ge	eneral settings	Storage setting:	Transfer	settings O	ther settings	
<u> </u>				1			
🔁 Configura	ation					you need to modify ember] to configure	
↔ Transfer	Task	Home Directory	y @				
Ollabora	ation	Default v					
File		Virtual Director	гу 😧				
Security		⊕ Add					
Q Notificatio	on	Storage 🕜					
ာ Customiz	e I	Maximum ste	torage 1				
🗉 Log		Forbidden path	1 @				
Statistics			the relative path th acters, separated t			ccess, support	
		Allowed access Please enter th semicolons;	s path 🕜	hat users are a	allowed to acce	ss,separated by	
	Γ	Permissions	) Select all	Reverse all			li)
		List files	🔽 Up	load file	🔽 Downlo	ad file	
		Rename	🔽 Syl	nc folder	🗹 Create	directory	
			Sh	are	Invite		
		Delete					
		Copy	Mo	ve			

#### Personalization settings:

ices	Customize	Logo & Icon				
ce ninistrator r figuration	Logo & Icon     Keywords     User Portal Menu	Shortcut icon:	Upload Guppot (co with a maximum size of 64:64 pixels. The shortcut Icon is displayed in the browser address bar of the User Portal.) No Image	Display:	+	
nsfer Task aboration						
urity		Logo:	Upload (Support jpg/png/gif with a maximum size of 160x70 pixels. The	Display:		
fication			logo is diaplayed on the User Portal and admin console.)			🚭 Raysync Enterprise
tomize			No Image			Login Raysync Enterprise
istics		Background image:	Upload (Support) poylong with a maximum size of 1920x1080 pixels. The image is displayed as the background behind the User Portal login page.)			Log in
			No Image			
		Background color:	(Select color as the background behind the User Portal login page)			
		Button color:	(Select buttons color on the User Portal )			
		Screen position:	(Select the screen position where you want login box to be played on the end-user portal)			

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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:

Devices	Users > Edit user		
Space	Users > Eult user		
Administrator	General settings Storage settings	Transfer settings Other settin	gs
User			
Configuration		only for the default space. If you need es, please go to [Space] - [Member] to	
Transfer Task	File upload limit @ Allow upl	oad new files only	
Collaboration	Max upload speed 🚱	01	
File	0		Mbps v
Security	Max download speed 👔		
Notification	0		Mbps v
Customize	Transfer file format 😮		
Log	Active Whitelist		~
Statistics	(Length Is less than 255 characte upload and separated by semicol	rs)Please enter the file types that allow on, eg txt;exe;	vs the user to

#### 4.2.7 User Home Directory Configuration

It supports configuration of user home directory, flexible management of

user's server home directory location

To configure the user home directory:





€R	Raysync Enter	orise
	Devices Space	Users > Edit user
&	Administrator	General settings Storage settings Transfer settings Other settings
8	User	
행하	Configuration	<ul> <li>The following configuration is only for the default space. If you need to modify the storage settings of other spaces, please go to [Space] - [Member] to configure.</li> </ul>
4	Transfer Task	Home Directory 🕑
0	Collaboration	Default
P	File	Virtual Directory 🖗
$\bigcirc$	Security	⊕ Add
Q	Notification	Storage 🚱
ప	Customize	Maximum storage 1 GB V
	Log	Forbidden path 🚱
٩	Statistics	Please enter the relative path that are forbidden for users to access, support wildcard characters, separated by semicolons;

#### 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:

Raysync Ente	rprise						
<ul> <li>Devices</li> <li>Space</li> </ul>	Configuration	Transfer					
& Administrator	Basic configuration	Max upload speed 0	Mbps	(0 is not limited)			
& User	Email configuration	Max download speed 0	Mt	ops 🗸 (0 is not limited)			
	Client app	Maximum speed period settin	ıg				
4 Transfer Task	More	Repeat	Time period	Max upload speed	Max download speed	Actions	Add
Collaboration	Jt Transfer	Weekend	0:00-23:59	System config	System config	Edit Disable Delete	
🖹 File	Transfer			2.530 B. C. 1940			
Security	Sync	Transfer unit Bit	$\vee$				
Q Notification	Peer-to-peer	Transfer file format limit					
Customize	% Link	Enable Whitelist					
🗉 Log	Share		aracters)Please enter the file type arated by semicolon, eg bd;exe;	es that allows			
(9 Statistics	More configurations			6			
	MySQL configuration	Select protocol					
		Automatically select UDP	/TCP When latency is less than 10	ms, switch to TCP			

#### 4.2.9 External Database Configuration

It supports external databases to provide more convenient and flexible

database configuration methods for enterprise deployment.





#### Enable external database:

#### 😂 Raysync Enterprise

	Configuration		
Space		MySQL configuration	
& Administrator	Basic configuration	Enable external MySQL o	latabase
≗ User	Email configuration	* Database address	
Seconfiguration	Client app	Dumbuse uddress	
🔶 Transfer Task	More	* Database port	3306
Ollaboration	Jt Transfer	* Database name	raysync_db
🖹 File	Transfer	* Database account	raysync
Security	Sync	Subuse about	ingone.
Q Notification	Peer-to-peer	*MySQL password	
∰ Customize	∿ Link	Test connection	🖺 Save
🗉 Log	Share		
C Statistics	Ø More configurations	Note: Click the test butter correct.	on after confirming that the information is
	MySQL configuration		,
	Event settings		
	Log		

#### 4.2.10 Encryption Certificate Configuration

It supports to configure confidential certificates to make service access more

secure.

Configure an encryption certificate:

€ F	Raysync Ente	rprise			
₽ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Devices Space Administrator User Configuration Transfer Task Collaboration File	Security Antivirus Access restriction Watermark Login Password Sensitive words Certificate	Certificate TLS certificate C SSL Pem SSL Key Certificate Validity	Upload again Upload again 2023-07-13 2024-07-13	
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27	www.r	aysync.io	🗹 supp	ort@raysync.io	O RAYWING PTE. LTD.





#### 4.2.11 Third-party users integration

Support configuration integration for third-party users to provide users with

#### better import

The original user system of the enterprise.

🚭 Raysync Enter	prise						admin
Devices  Space  Administrator	User © Local user & User integration	Authentication Third-party login auth Default per	missions				
∠ User     Configuration     Transfer Task		Imagement also supports I	ogin.			trol permissions by Raysync to log in, the account created manually in Raysync created manually in Raysync Management Center will not be able to log in.	
<ul> <li>Collaboration</li> <li>File</li> </ul>		Authentication type	None 💿 LDAP/AD domain After selecting this authentication, you can	Email Unix sy configure the default perm		OpenID Connect nport domain accounts in users	
Security		Server address	admin			(E.g. ldap://192.168.1.131:389)	
Q Notification		* Туре	AD domain OpenLdap				
Customize Log G Statistics		* Domain account path 🖗	Add Domain account path	Domain	Domain password		
G Statistics				No Data	Provide and a second se		
			🗊 Test		🖺 Save		

