

3.1 – Gateway

The gateway can be configured through the gateway.conf file. By default, this is located in the root installation directory of SparkView. All parameters and options are listed below.

The default gateway.conf file as shipped is shown [at the bottom of the page](#).

Key	Value
bindAddr	<p>Binding address, if you have multiple IP addresses and want to bind on one of them.</p> <p>If you have IIS running on same machine, you must ensure that it is not bound to the IP address & Port you want to use for the SparkGateway. You must set the bindings in the IIS Manager. However, it may also be necessary to change the HTTP service which by default listens on port 80 for all IP addresses. To do this you can use “netsh http add iplisten ipaddress=xxx.xxx.xxx.xxx” to instruct the HTTP service to listen on IP addresses not used by the SparkGateway. Then you can use port 80 on the unused IP Addresses with the SparkGateway.</p>
port	<p>Listening port, default is 80. You can let Gateway listen on 2 ports at the same time, e.g. port = 80, 443</p>
ssl	<p>Use HTTPS and WSS (WebSocket Secure Connection), default is false. If gateway is listening on 2 port, the parameter can be configured as: ssl = false, true</p>
credSSP	<p>Network Level Authentication, Value can be "true", "false" or "auto". Default is false. “true” will slow down the connection speed a little bit . It’s not necessary to use NLA if the gateway is connecting to internal RDP hosts only. It’s better to enable credSSP if you are using Microsoft RD Broker for load balancing. "auto" will connect without credSSP at the first time, reconnect with credSSP if the connection failed.</p>
backlog	<p>How many connections can be queued, default is 50.</p>
user	<p>Path of user configuration file (JSON format).</p>
server	<p>Path of RDP hosts configuration file (JSON format).</p>
html	<p>HTML root directory.</p>
directoryIndex	<p>Default page for html directory, default is "rdp.html;index.html".</p>

Key	Value
license	<p>Path of the license file.</p> <p>If you copy the license file named "license" (note that there is no file extension) to the SparkView root directory, it is automatically detected.</p> <p>If it is located elsewhere, please specify the full path of the license file including the file name, e.g. <code>license=C:\\Program Files\\Remote Spark\\SparkGateway\\licensefolder\\license.txt</code>.</p>
logfile	Path of log file.
maxbytes	Limit the maximum number of bytes to write to any one log file, default is 30M.
maxfiles	Log file rotation, the number of log files to use, default is 99.
logHTTPHeader	If log http header, which may contains sensitive information. Default is true.
converter	<p>Postscript to PDF converter, used for printing. Ghostscript is recommended:</p> <p>http://www.ghostscript.com/download/</p> <p>Example: <code>C:\\Program Files\\gs\\gs9.04\\bin\\gswin64c.exe</code></p>
arguments	<p>Arguments for converter. %1 is output pdf file name. %2 is input ps file name, they'll be replaced by program.</p> <p>Example: <code>-dBATCH -dNOPAUSE -dUseCIEColor -dPDFSETTINGS=/printer -sDEVICE=pdfwrite -q -sOutputFile=%1 %2</code></p>
plugin	Class name for your plug-in
pluginFile	The full path of your plug-in jar file
password	Password for reporting and management API
remoteManage	Make configuration accessible from everywhere. Default is false.
mime	Add extra mime types for web server: <code>rdp:application/rdp;conf:text/plain</code>
stderrLog	Set false to disable logging to stdout/stderr
keepDays	How many days the temporary files generated by system be kept, default is 1 day
disk	The name for the shared disk, used for file uploading/downloading
webfeed	RD Web Feed URL, for RD web access integration
recording	Session recording, 0: no recording; 1: recording graphic only. 3: recording graphic and audio.
recdir	Parent directory for session recording files.

Key	Value
recwarning	Warn user about the recording, default is true
accessNotInList	if logged in user can access computers which is not in their list (servers.json) or webfeed, default is false
printer	Printer name, default is "Remote Printer from Client". You can specify multiple printer names by using ";" as separator, e.g. "Printer1;Printer2". The first one will always be the default printer.
printerDriver	Printer driver name
shadowing	Shadowing switch (if allow joining a session), default is true.
resetOnJoin	Don't use seamless session shadowing.
nativeShadowing	Allow native RDP session shadowing, default is false.
cipherSuites	<p>The cipher suites can be used by SSL encryption. You may want to use some good cipher suites only, for example:</p> <p>SSL_RSA_WITH_RC4_128_MD5, SSL_RSA_WITH_RC4_128_SHA, SSL_RSA_WITH_3DES_EDE_CBC_SHA, SSL_DHE_DSS_WITH_3DES_EDE_CBC_SHA, SSL_DHE_RSA_WITH_3DES_EDE_CBC_SHA, TLS_DHE_RSA_WITH_AES_128_CBC_SHA, TLS_DHE_DSS_WITH_AES_128_CBC_SHA, TLS_RSA_WITH_AES_128_CBC_SHA, TLS_DHE_RSA_WITH_AES_256_CBC_SHA, TLS_DHE_DSS_WITH_AES_256_CBC_SHA, TLS_RSA_WITH_AES_256_CBC_SHA</p> <p>You need to install Java Cryptography Extension (JCE) Unlimited Strength Jurisdiction Policy Files for AES 256 cipher suites.</p> <p>http://www.oracle.com/technetwork/java/javase/downloads/jce-6-download-429243.html</p>
webAddress	HTTP server web address, used for OpenID login (redirection back). It's also used on client side for getting real gateway address (client side may not know that if you are using multiple gateways for load balancing).
clientHost	<p>Customize the host name of the client user. Default is the host name or ip address. You can use following variables in the string:</p> <p>\${hostName}: Host name of the gateway machine. \${hostAddress}: Host address of the gateway machine. \${sequence}: a sequence number \${__ip}: client host name or IP. \${_PARAM_SESSION_ID}: Session GUID. \${_PARAM_NUMERIC_ID}: Session 9 digit number ID. \${any parameter transferred from client side} e.g. clientHost = RS-\${__ip}-\${sequence} , the result will be RSClientHostName-0, RS-ClientHostName-1, ...</p>

Key	Value
performanceflags	Please check 3.4 RDP Host for more information. You may need this if you are connecting to a Terminal Server/Remote Desktop Session Host.
remotefx	Enable RemoteFX video acceleration, default is false. RemoteFX is LAN and 32 bit only
gfx	If enable GFX, default is false.
enableLookups	Set to true if you want calls to perform DNS lookups in order to return the actual host name of the remote client. Set to false to skip the DNS lookup and return the IP address in String form instead (thereby improving performance). By default, DNS lookups are disabled.
maxCacheTime	How long (minutes) the session can be cached on gateway, default is 0 (RDP session cache on gateway is disabled by default).
idleUserSession	User session idle timeout, in milliseconds
mail.smtp.host mail.smtp.port mail.user mail.password mail.from mail.to mail.smtp.auth mail.smtp.starttls.enable	Email notification when license expire etc, following is for gamil: smtp.gmail.com 587 support@toremote.com xxxx support@toremotec.om xxx@toremote.com true true You can use <code>java -cp SparkGateway.jar com.toremote.gateway.Mailer</code> title message to send a test email.
licenseAlert	Float value, Email alert when license usage reached this number. If value < 1, it means percentage of your license number; If value > = 1, it means the actual concurrent license number.
thumbnail.interval	Interval for obtaining thumbnails of RDP session, milliseconds, default is 0 (no thumbnail). Client will not send thumbnail to server if screen is not changed.
thumbnail.width	Thumbnail width, it must be smaller than 640, default is 0 (no thumbnail)
copyTimeout	Timeout for clipboard copy operation, milliseconds, default is 3000. You may need to increase this value if your application need to copy very big data.
savedSessionTimeout	This is the maximum value (milliseconds) for saved session, default is 0, means user cannot save session on gateway.
confirmJoin	Confirmation needed when a user try to join a session, default is false

Key	Value
keyStore	<p>Set up keystore or certificate name when ssl is true. For example <code>keystore.jks</code> or <code>cert.pfx</code>.</p> <p>If you are using a certificate (i.e. <code>cert.pfx</code>), a password is required (see <code>keyStorePassword</code>).</p> <p>If you are using a Java keystore (i.e. <code>keystore.jks</code>), the password of the keystore must match the one used for the certificate, which is integrated in the keystore.</p>
keyStorePassword	Keystore or certificate password. If you are using a Java keystore (i.e. <code>keystore.jks</code>), the password of the keystore must match the one used for the certificate, which is integrated in the keystore.
passwordEncrypted	<p>Encrypt the keystore password and the reporting password, default is false. Please use following command to get encrypted password:</p> <pre>java -cp SparkGateway.jar com.toremote.gateway.Encryption MyPassword</pre>
assistance	Enable Remote Assistance, default is false.
ssh	Enable SSH, default is false.
ssh.cache	Enable/disable SSH history cache for joined sessions, default is true.
telnet	Enable TELNET, default is false.
gatewayId	Used for email notification etc.
oauth2	Path of oauth2 providers file (JSON format)
disabledKeys	Keys (scancode) will not be sent to server, e.g. 219,220 (left and right Windows key); 29+56+211,56+1 will disable Ctrl+Alt+Del and Alt+Esc
dataEncrypted	If enable encryption on data files: <code>servers.json</code> , <code>users.json</code> , <code>symlink.json</code> .
webfeedCache	If enable webfeed cache. false to disable it. Default is true. You'll need to restart the gateway after your webfeed content changed if it's true.
redirectToHttps	Redirect http tranfic to https. Make sure gateway listen on both http and https
log.level	<p>The value can be an integer or SEVERE, WARNING, INFO, CONFIG, FINE, FINER, FINEST. Check https://docs.oracle.com/javase/8/docs/api/java/util/logging/Level.html for more details</p>
connectif	Create a new connection if you are joining symlink which doesn't connect to any hosts.
randomIp	Use a random ip if your host name has multiple ip address, default is false

Key	Value
authorization	“Basic”: enable HTTP Basic Authentication, default is null.
headers	Extra headers for HTTP response, For example: headers = Strict-TransportSecurity: max-age=31536000\r\nContent-Security-Policy: script-src 'self'\r\nXXSS-Protection: 1; mode=block\r\nX-Frame-Options: SAMEORIGIN\r\nX-ContentType-Options: nosniff\r\n
recFileSize	Limit the size (in bytes) of recording file (auto rotation)
file.filter	String. File type filter for the upload. Notation: ? excludes a file type, * allows all file types. Example: Allow all files except .exe and .com: <code>file.filter=?exe,?com,*</code> SparkView recognizes the matches from the beginning, so <code>*</code> must be the last instance for the filter to work.
file.maxSize	Integer in Bytes. Specify the maximum file size to be uploaded. Example: <code>file.maxSize=1000000</code>
file.filter.download	String. Specify which file formats may be downloaded. Example: <code>file.filter.download=pdf,doc,docx</code>
file.maxSize.download	Integer in Bytes. Specify the maximum file size to be downloaded. Example: <code>file.maxSize.download=1000000</code>
keepPrinting	Keep the printing results (PDF) on gateway, default is false.
timeoutWoL	Time out (milliseconds) of Wake on LAN. This will enable WoL if the value is great that 0.
symlinkOnly	Gateway will only accept aymlink connection if symlinkOnly is true
symlink	Full path of the symlink definition file, including file name, e.g. <code>C:\\Users\\foobar\\workspace\\data\\symlink.json</code>
simpleFormatter	Let gateway use SimpleFormatter which is slower but allow you to configure log format.
pingClient	Ping client interval (ms). CND or proxy may not close the websocket correctly and leave session alive forever on the gateway. You can enable this to fix this kind of issue. This is enabled by default since 5.6.
sessionRecordParam	You can enable session recording from the browser side (sessionRecord=on) if this is true. Default value is false.
userGroup	Path of user group configuration file in JSON format.
serverGroup	Path of server group configuration file in JSON format.
organization	Customize the connection name for the 2FA app on the mobile device.

Key	Value
maxRequestBytes	Determines the upper limit for the total size of the request line and the headers. Its default setting is 8KB
maxPrintTime	Printing conversion timeout, default is 1200000 milliseconds (20 minutes)
httpCookie	Use HTTP Cookie for file uploading to make it more secure. Default is true.
fileUnprompted	Files can be download directly without asking user to confirm when user copy a file in RDP server. For example, if the value is “pdf,zip”, when user copy a PDF file, the gateway will prepare the downloading directly without ask use to confirm. Depends on copyFile = true.
deployment	Enable deployment service. User can deploy, test applications with the deploy agent via SSH, SFTP.
preferInteractive	Prefer keyboard-interactive method on SSH. Default is true. Deprecated, please use ssh.preferInteractive instead.
ssh.preferInteractive	Prefer keyboard-interactive method on SSH. Default is true.
fileService	Enable SMB2, SFTP file proxy, so user can use file.html to upload/download files from SMB2 share or SFTP server. Disabled by default.
delSymlinkServer	The related server definition will be deleted too if a symlink is deleted or expired. Default is false.
trustStore	Trusted certificates for RDP or VNC server (when TLS encrypt is used, credSSP = true in gateway.conf).
trustStorePassword	Password for trustStore
fileBlockSize	File transferring block size, default is 524288 bytes(5M). Reduce this value can reduce the bandwidth usage but increase uploading time
keyDelay	Delay between keys (milliseconds). Default is 0.
authToken.name	The parameter name in the websocket URL.
authToken.exec	A path of executable or URL. If gateway found the authToken.name parameter in the websocket url, it'll execute the exe or HTTP Request. The connection can be only allow if the exe or HTTP Request Status Code is authToken.sucessCode.
authToken.sucessCode	Integer.
twoFA	1: Enable two-factor authentication; 0: Disable (default); 2: Enforce

Key	Value
twoFAStore	Two-factor authentication storage path. Default is installDir\data\store.data. Make sure you back up this file. It's encrypted by default.
rec.timestampSubDir	Enable/disable timestamp sub directory for recdir. Default is true.
rec.begin.exec	Run an executable before the session is recorded. Arguments: fileName, server, user, sessionId.
rec.end.exec	Run an executable after the session was recorded. Arguments: fileName, server, user, sessionId.
file.post	Run an executable after a file was uploaded. For example: file.post = C:\apps\scan.exe %1 %1 will be replaced by the file path of the uploaded file.
csv.file	Log session information to CSV file. Columns: Id, Server, Client, IP, Browser, Time ,NumericId, User, Domain, Join, Protocol, Symlink, Port, Action (CONNECT/DISCONNECT/LOGIN).
csv.size	Limit the maximum number of bytes to write the log file, default is 2G.
vnc.transferCredential, ssh.transferCredential, telnet.transferCredential	False by default, which disable SSO on VNC, SSH, TELNET connection when SSO is enabled in users.json (transferCredential = true).
app.id	String, UUID is recommended. Can be used for load balancing. This unique id will be automatically generated if it's not set.
file.viewable	Boolean, the "View" button on File Manager UI will be removed if it's false. Users then can only see the "Download" button.
license.limit	Integer, restricts the concurrent session number for testing etc. This value must be smaller than the license number.
kerberos.realm	String, enables authentication via Kerberos if set. Can be, for example, the DNS domain name in capital letters of an Active Directory.
http.proxy.enable	Boolean, enable/disable connections through the HTTP proxy.
readOnly	Boolean. Determines whether the configuration file (gateway.conf) can be changed via API or web config (config.html). Manual changes to the file itself are always possible. Default is false.

*Please always use absolute file path if you are running Gateway as a service.

Default gateway.conf file:


```
# Binding address, if you have multiple IP addresses and want bind to one of them, uncomment and change this
line
#bindAddr = 192.168.8.4

# Listening port, default is 80 for http and 443 for https (ssl = true)
port = 8080

# Use https and wss (WebSocket Secure connection), better to use 443 as listening port when ssl is true
#ssl = true

# Network Level Authentication (CredSSP), "false" is default, always false in free version
credSSP = auto

# How many client connections can be queued, default is 50
#backlog = 50

# User definition file, default is ./data/users.json. Uncomment this line and add users in this file if you want user
log in first before using any rdp host.
#user = C:\\Program Files\\Remote Spark\\SparkGateway\\data\\users.json

# Server definition file, default is ./data/servers.json. Uncomment this line and add RDP hosts here.
#server = C:\\Program Files\\Remote Spark\\SparkGateway\\data\\servers.json

# HTML root directory, default is ./html/. Printed file will be save in sub directory "temp", make sure application
have access right on "temp" directory.
html = C:\\Program Files\\Remote Spark\\SparkGateway\\html\\

# Default page for html directory, default is "rdp.html;index.html";
#directoryIndex = rdp.html;index.html

# License file, default is ./license, it's only for paid version
#license = C:\\Program Files\\Remote Spark\\SparkGateway\\license

# Log file, default gateway.log
logfile = C:\\Program Files\\Remote Spark\\SparkGateway\\logs\\gateway.log

# Limit the maximum number of bytes to write to any one log file, default 30M
#maxbytes = 30720000

# Log file rotation, the number of log files to use, default 99
```

#maxfiles = 99

Log http header, that may contains sensitive information like password. default is true.

#logHTTPHeader = false

Show warning and error messages to clients. Default is true

#showMessage = false

Postscript to PDF converter, Ghostscript is recommended: <http://www.ghostscript.com/download/>

converter = C:\\Program Files\\gs\\gs9.14\\bin\\gswin64c.exe

Arguments for converter. %1 is output pdf file name. %2 is input ps file name, they'll be replace by program

arguments = -dBATCH -dNOPAUSE -dPDFSETTINGS=/printer -sDEVICE=pdfwrite -q -sOutputFile=%1 %2

Plugin = com.toremote.gateway.plugin.SimpleManager

#pluginFile = C:\\Program Files\\Remote Spark\\SparkGateway\\plugin.jar

Password for configuration, reporting and management API.

#password = yourpassword

Parent directory for temporary files: downloading/uploading etc

#tmpdir = C:\\apps\\share

Session recording, 1: recording graphic only, 2 recording graphic and sound

#recording = 1

Directory for session recording

#recdir = C:\\apps\\share

Warn user about the recordig, default is true

recwarning = true

RD Web Feed URL, for RD web access integration

#webfeed = https://192.168.0.50/RDWeb/feed/webfeed.aspx

If logged in user can access computers which is not in their list (severs.json) or webfeed

accessNotInList = true

CipherSuites. You may want to only use some strong cipher suites for SSL. You may need to install Java Cryptography Extension (JCE) Unlimited Strength Jurisdiction Policy Files

(<http://www.oracle.com/technetwork/java/javase/downloads/jce-6-download-429243.html>)

```
#cipherSuites = SSL_RSA_WITH_RC4_128_MD5, SSL_RSA_WITH_RC4_128_SHA,  
SSL_RSA_WITH_3DES_EDE_CBC_SHA, SSL_DHE_DSS_WITH_3DES_EDE_CBC_SHA,  
SSL_DHE_RSA_WITH_3DES_EDE_CBC_SHA, TLS_DHE_RSA_WITH_AES_128_CBC_SHA,  
TLS_DHE_DSS_WITH_AES_128_CBC_SHA, TLS_RSA_WITH_AES_128_CBC_SHA,  
TLS_DHE_RSA_WITH_AES_256_CBC_SHA, TLS_DHE_DSS_WITH_AES_256_CBC_SHA,  
TLS_RSA_WITH_AES_256_CBC_SHA
```

```
# Printer driver you want to use
```

```
#printerDriver = HP LaserJet 4100 Series PCL
```

```
# HTTP server web address, used for OpenID login(redirection back). Also used on client side for getting real  
gateway address (client side may not know that if you are using multiple gateways for load balancing)
```

```
#webAddress = http://w-think
```

```
# Shadowing switch, default is true, if allow user join sessions
```

```
#shadowing = false
```

```
# Customize the host name of the client user
```

```
#clientHost = RS-${__ip}-${sequence}
```

```
# Performance flags for RD Web Access Portal integration only.
```

```
#performanceflags = 111
```

```
#remotefx = true
```

```
# Set to true if you want calls to perform DNS lookups in order to return the actual host name of the remote  
client. Set to false to skip the DNS lookup and return the IP address in String form instead (thereby improving  
performance). By default, DNS lookups are disabled.
```

```
#enableLookups = true
```

```
# How long (minutes) the session can be cached on gateway, default is 0 (RDP session cache on gateway is  
disabled by default).
```

```
#maxCacheTime = 10
```

```
# User session idle time out, in milliseconds
```

```
#idleUserSession = 3600000
```

```
# Email configuration. Test email with java -cp ..\SparkGateway.jar com.toremote.gateway.Mailer
```

```
#mail.smtp.host = smtp.gmail.com
```

```
#mail.smtp.port = 587
#mail.user = support@xxx.com
#mail.password = xxxx
#mail.from = support@yyy.om
#mail.to = xxx@xxx.com
#mail.smtp.auth = true
#mail.smtp.starttls.enable = true

#confirmJoin = true
#assistance = true
#ssh = true
#telnet = true

# Certificate for SSL, pfx (PKCS12) format is recommended, use keystore.jks if you prefer Java KeyStore
#keyStore=cert.pfx
#keyStore=keystore.jks
#keyStorePassword = password
#passwordEncrypted = true
#keyStorePassword = OOLZ+pOdZAa3QXanDDksAmMR4pdpVVD2SbluXe2ztg=

#oauth2 = C:\\Program Files\\Remote Spark\\SparkGateway\\data\\oauth2.json

# Scancodes for disabling keys (219 left windows key, 220 right windows key)
#disabledKeys = 219,220

# Enabling copy files
copyFile = true
```

You can also use config.html to configure gateway.conf. Use your browser navigate to:

<http://localhost/config.html>.

For security reason, this page can be only accessed from localhost.

Spark Configuration

localhost:8080/config.html

Gateway:localhost:8080

Password:

This page can only be accessed from local computer. Set password and remoteManage=true in gateway.conf to enable remote access.

Start Configuration

Gateway

Server

User

Symlink

Session

Server Group

User Group

Gateway Configuration (Saved in gateway.conf)

Save

SSL (https and wss)

Port(Default is 80 or 443(SSL))

8080

Binding Address

Network Level Authentication

Path of License File

Upload License File

Datei auswählen

Keine ausgewählt

HTML Root Directory

Default Web Page

login3.html

Path of Log File

Size of Single Log File(bytes)

30720000

Maximum number of Log Files

99

Log HTTP header

PDF Converter

/usr/bin/gs

PDF Converter Arguments

-dBATCH -dNOPAUSE

Plugin Class

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