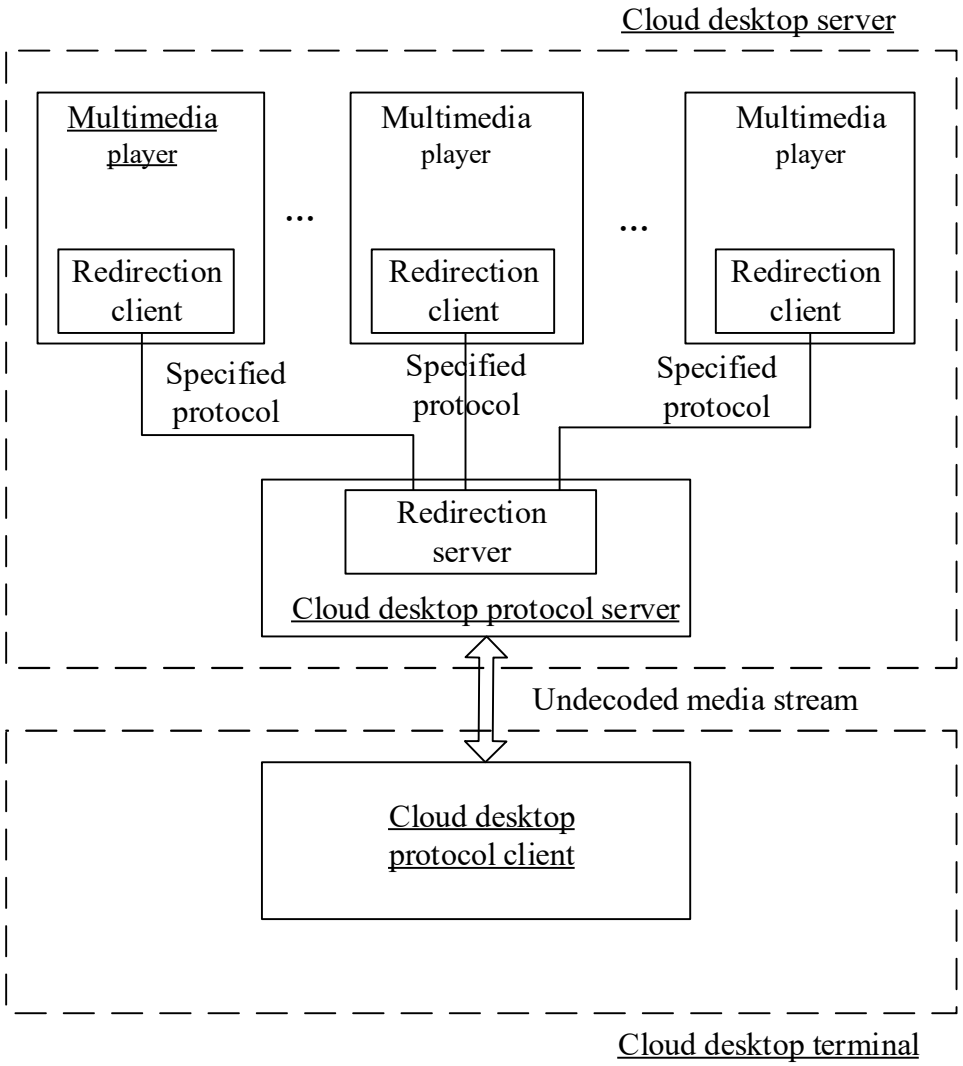

Cloud desktop server
Multimedia player
Redirection client
Multimedia player
Redirection client
Multimedia player
Redirection client
Specified protocol
Specified protocol
Specified protocol
Redirection server
Cloud desktop protocol server
Undecoded media stream
Cloud desktop protocol client
Cloud desktop terminal

FIG. 1

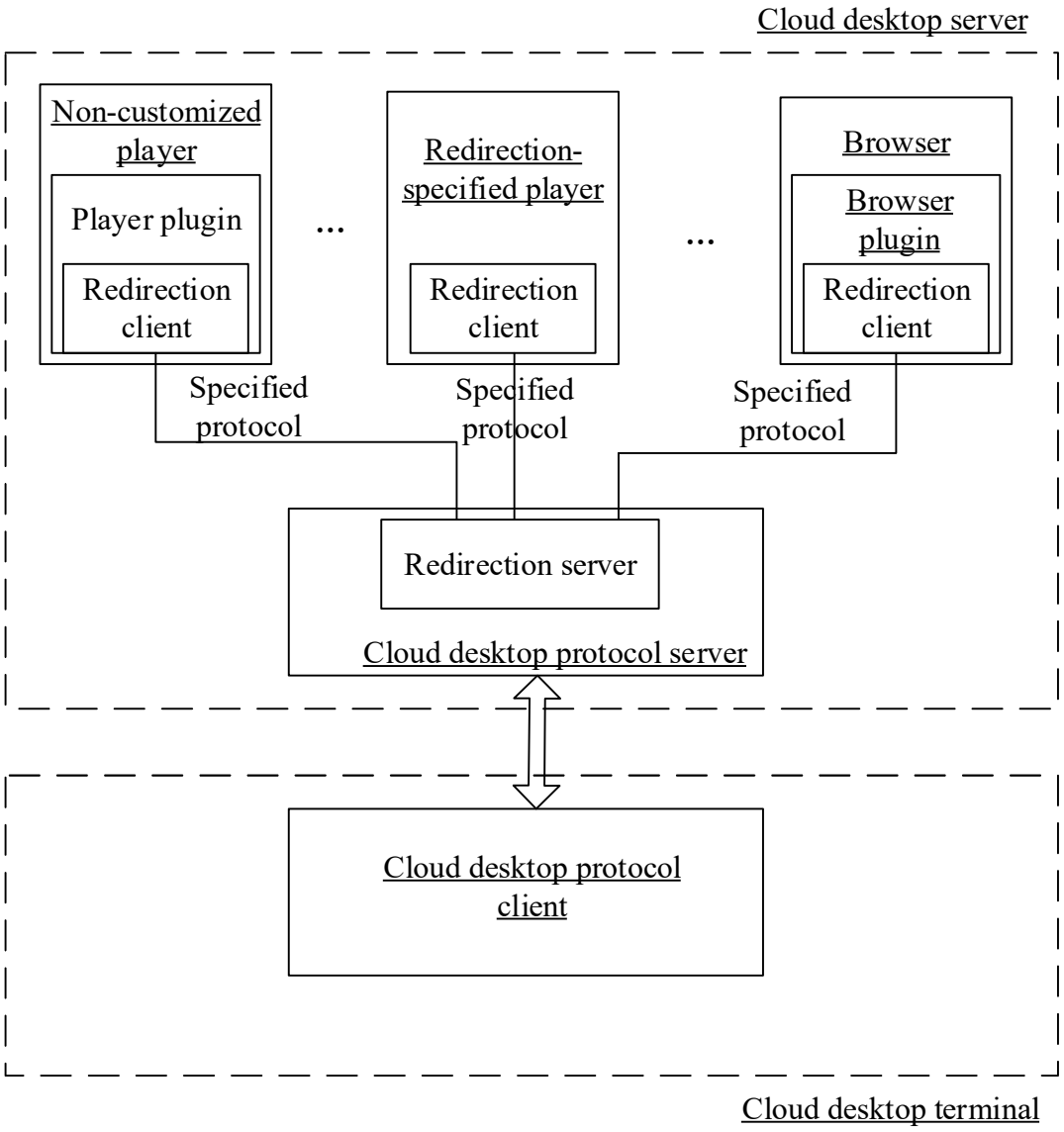

Cloud desktop server
Non-customized player
Player plugin
Redirection client
...
Redirection-specified player
Redirection client
...
Browser
Browser plugin
Redirection client
Specified protocol
Specified protocol
Specified protocol
Redirection server
Cloud desktop protocol server
Cloud desktop protocol client
Cloud desktop terminal

FIG. 2

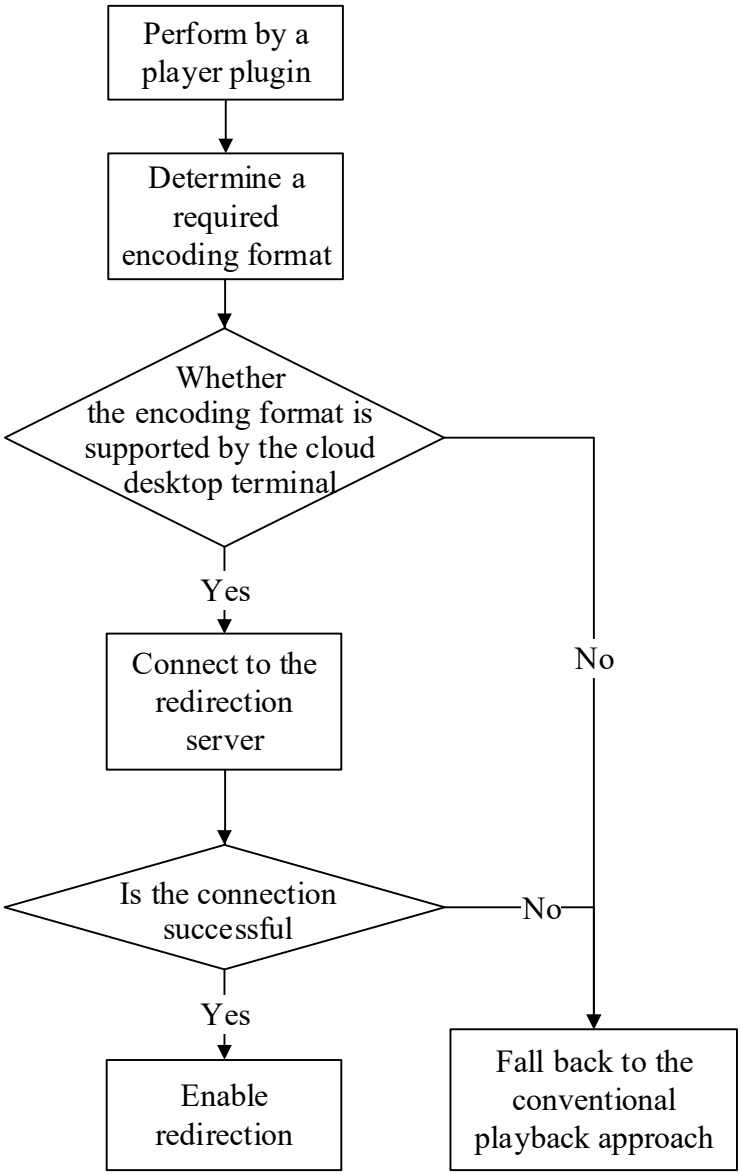

Perform by a player plugin
Determine a required encoding format
Whether the encoding format is supported by the cloud desktop terminal
Yes
No
Connect to the redirection server
Is the connection successful
No
Yes
Enable redirection
Fall back to the conventional playback approach

FIG. 3

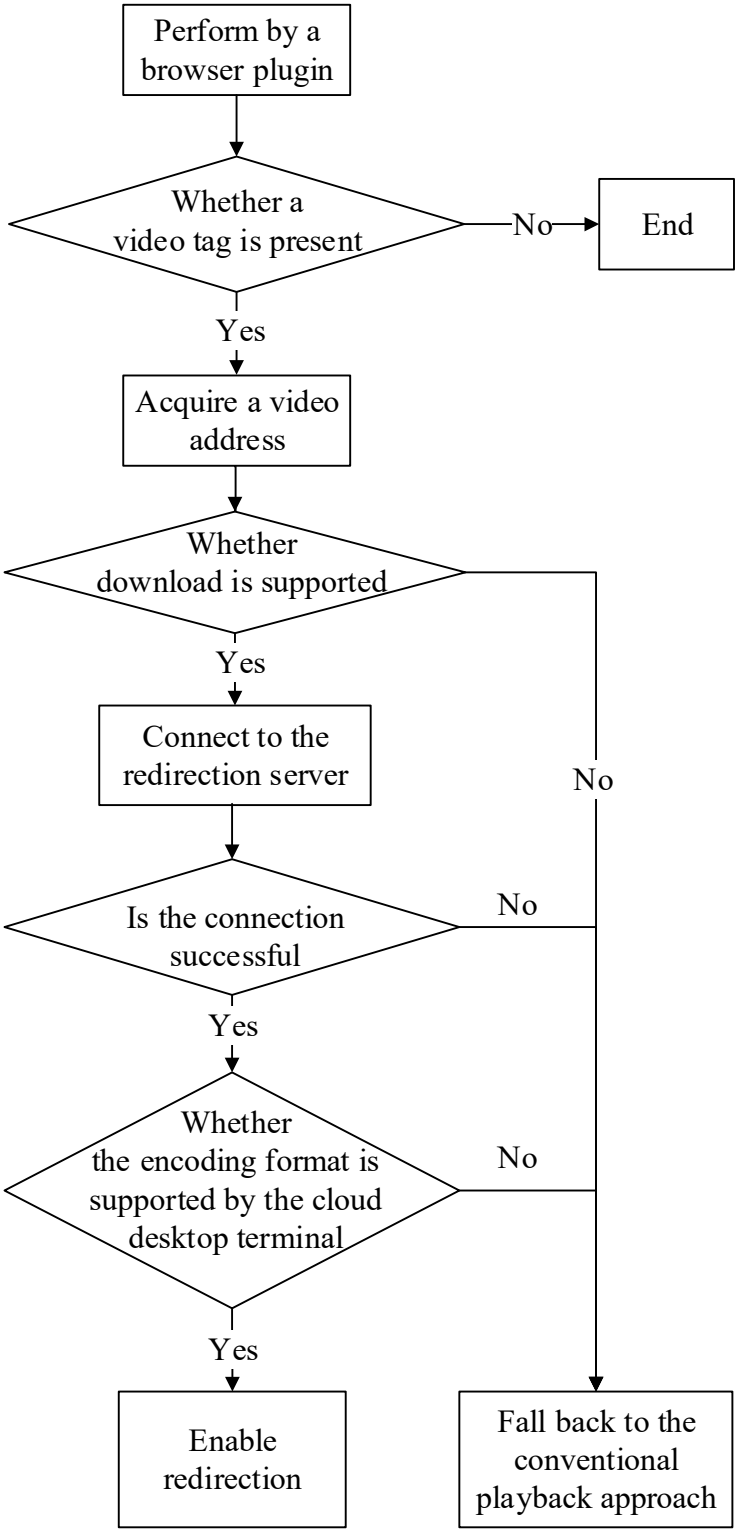

Perform by a browser plugin
Whether a video tag is present
No
End
Yes
Acquire a video address
Whether download is supported
Yes
No
Connect to the redirection server
Is the connection successful
No
Yes
Whether the encoding format is supported by the cloud desktop terminal
No
Yes
Enable redirection
Fall back to the conventional playback approach

FIG. 4

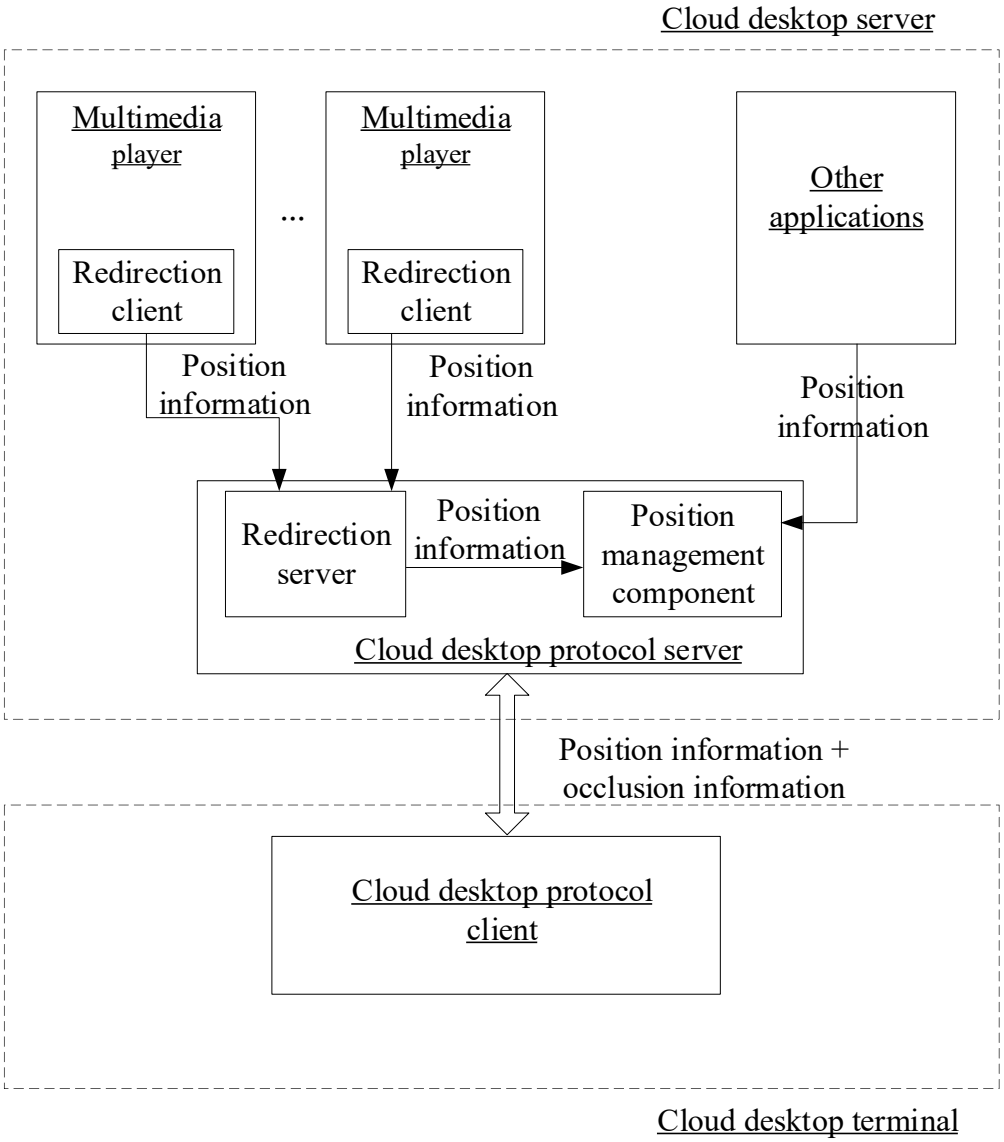

Cloud desktop server
Multimedia player
Redirection client
...
Multimedia player
Redirection client
Other applications
Position information
Position information
Position information
Redirection server
Position information
Position management component
Cloud desktop protocol server
Position information + occlusion information
Cloud desktop protocol client
Cloud desktop terminal

FIG. 5

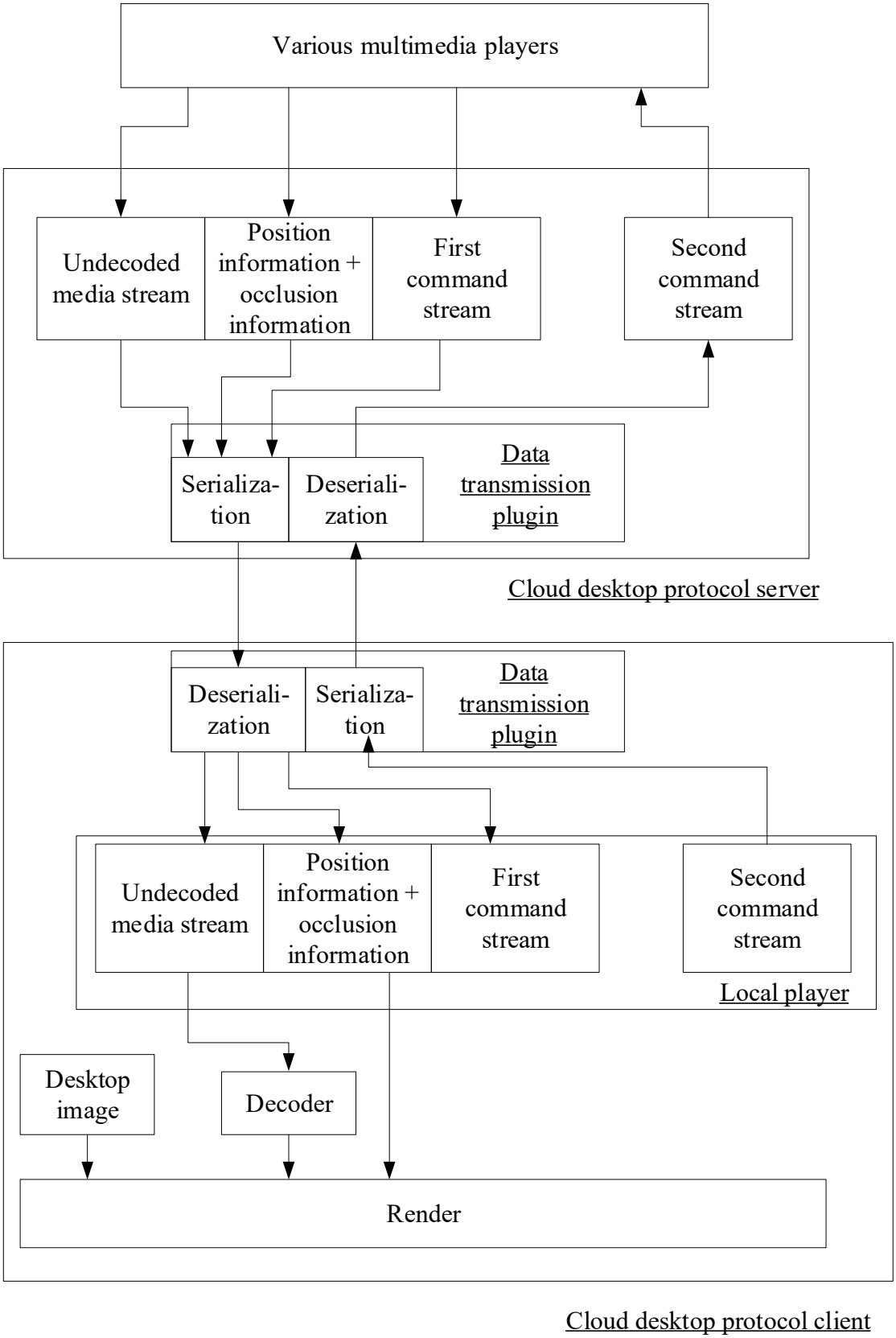

Various multimedia players
Undecoded media stream
Position information + occlusion information
First command stream
Second command stream
Serializa-tion
Deseriali-zation
Data transmission plugin
Cloud desktop protocol server
Deseriali-zation
Serializa-tion
Data transmission plugin
Undecoded media stream
Position information + occlusion information
First command stream
Second command stream
Local player
Desktop image
Decoder
Render
Cloud desktop protocol client

FIG. 6

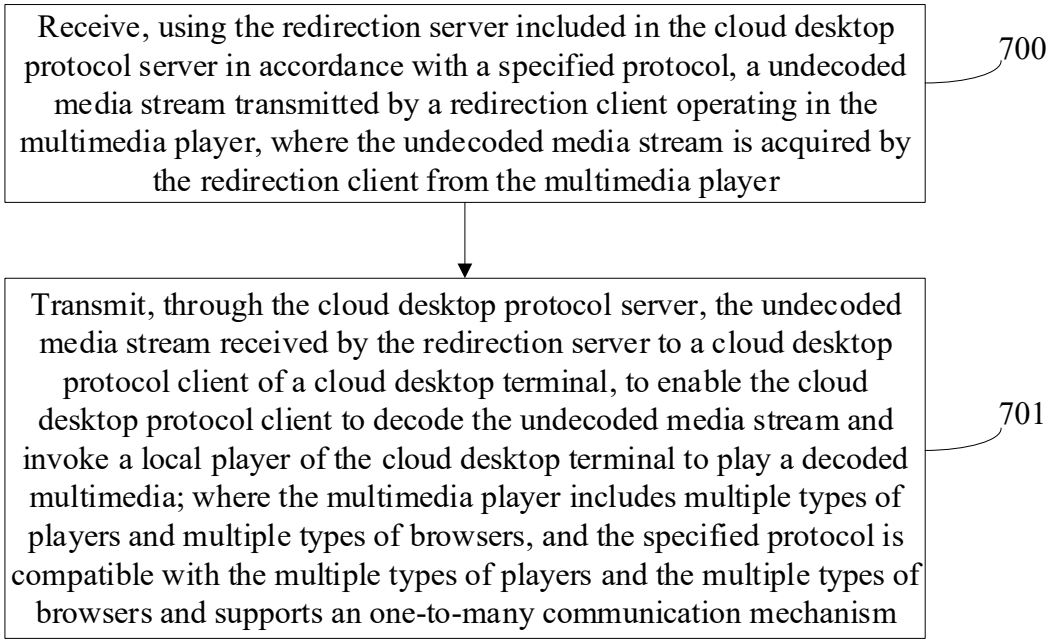

Receive, using the redirection server included in the cloud desktop protocol server in accordance with a specified protocol, a undecoded media stream transmitted by a redirection client operating in the multimedia player, where the undecoded media stream is acquired by the redirection client from the multimedia player
700
Transmit, through the cloud desktop protocol server, the undecoded media stream received by the redirection server to a cloud desktop protocol client of a cloud desktop terminal, to enable the cloud desktop protocol client to decode the undecoded media stream and invoke a local player of the cloud desktop terminal to play a decoded multimedia; where the multimedia player includes multiple types of players and multiple types of browsers, and the specified protocol is compatible with the multiple types of players and the multiple types of browsers and supports an one-to-many communication mechanism
701

FIG. 7

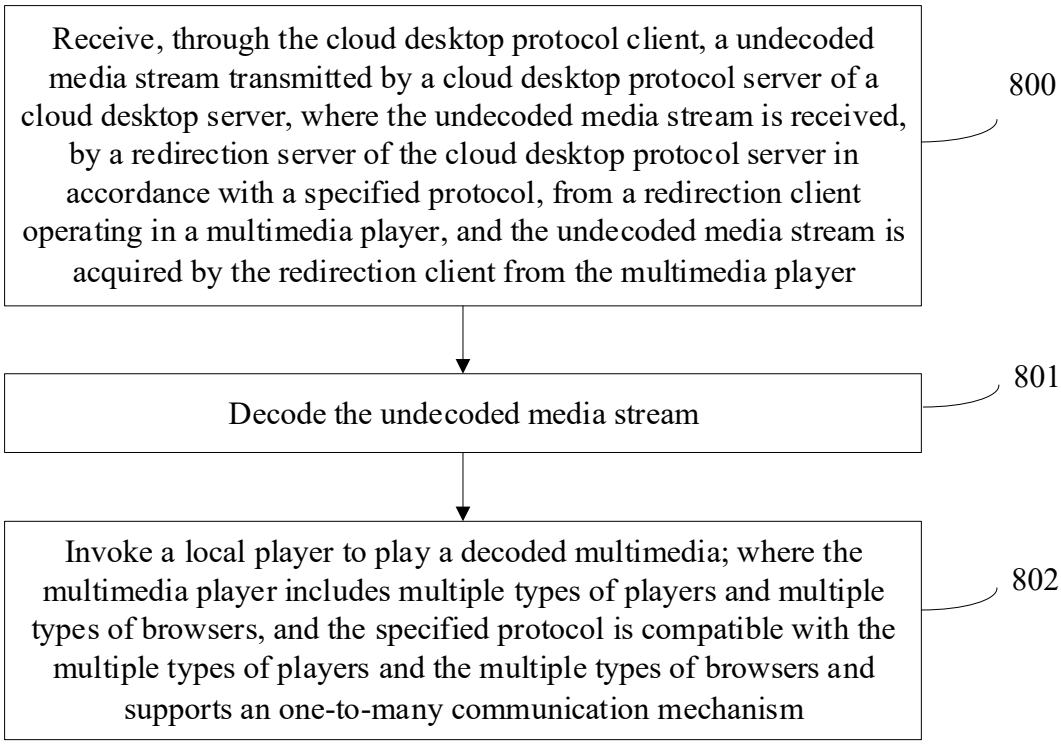

Receive, through the cloud desktop protocol client, a undecoded media stream transmitted by a cloud desktop protocol server of a cloud desktop server, where the undecoded media stream is received, by a redirection server of the cloud desktop protocol server in accordance with a specified protocol, from a redirection client operating in a multimedia player, and the undecoded media stream is acquired by the redirection client from the multimedia player
800
Decode the undecoded media stream
801
Invoke a local player to play a decoded multimedia; where the multimedia player includes multiple types of players and multiple types of browsers, and the specified protocol is compatible with the multiple types of players and the multiple types of browsers and supports an one-to-many communication mechanism
802

FIG. 8

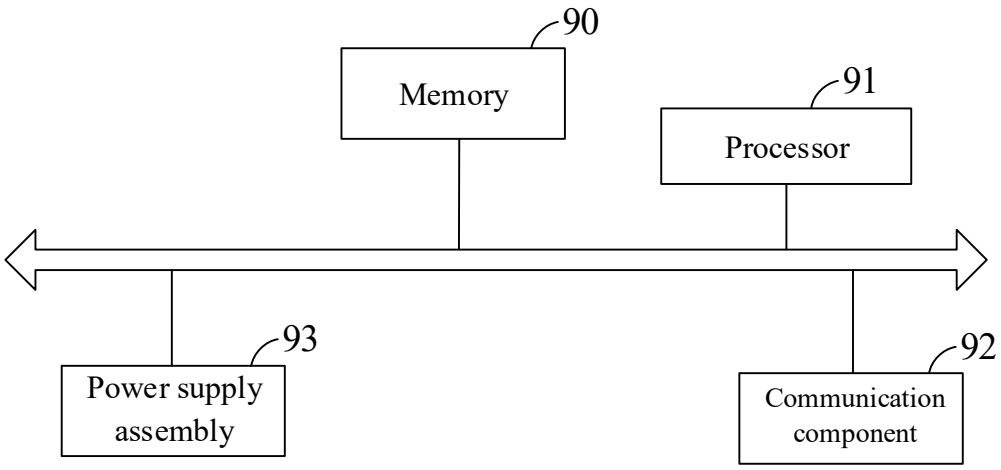

90
Memory
91
Processor
93
Power supply assembly
92
Communication component

FIG. 9

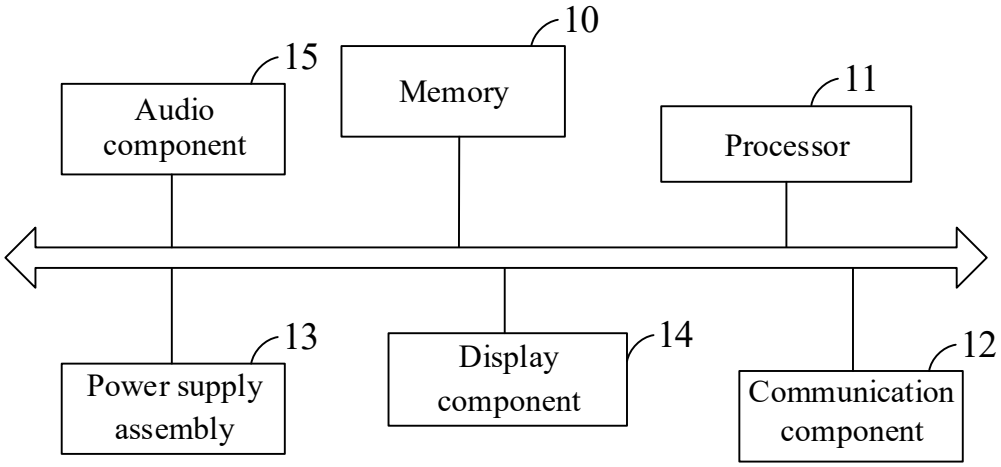

10
15
Memory
Audio component
11
Processor
13
14
12
Power supply assembly
Display component
Communication component

FIG. 10