4.2.2 – Handshake plug-in

Handshake plug-in is invoked before establishing a RDP connection. It’s a good place to verify, modify or refuse the connection.

You can put any parameter you want when you create a connection on the client side. For example, you can put user’s session id (session on your portal) into a RDP connection:

```
var rdp = new svGlobal.Rdp(‘ws://myGateway/RDP?server=myServer&token=mySessionId&…’);
```

Then in the handshake plug-in, you can get the parameter and verify it through a web server on your portal.

```
class SimpleHandshakePlugin implements HandshakeInterface{
@Override
public Map<String, String> onHandshake(Map<String, String> parameters) throws ClientException{
  String token = parameters.get("token");
  if (isInvalidSession(token)){
    throw new ClientException("Invalid sessioin");
  }
  return parameters;
}
```

You can also encrypt the token from your portal (encrypted on server side), then decrypt it in the plug-in:

```
public Map<String, String> onHandshake(Map<String, String> parameters) throws ClientException{
  String token = decryptToken(token);//throw ClientException if not valid
  Map<String, String> paramsFromToken = parseToken(token);
  parameters.put(RdpParameter.server, paramsFromToken.get("server"));
  parameters.put(RdpParameter.user, paramsFromToken.get("user"));
  parameters.put(RdpParameter.pwd, paramsFromToken.get("pwd"));
  String userIp = parameters.get(RdpParameter.ARG_CLIENT_IP);
  //enable recording
  parameters.put(RdpParameter.sessionRecord, "1"); //enable session recording
  //specify the recording file name (optional)
  parameters.put(RdpParameter.RECRODING_FILE_NAME, "myFileName");
  return parameters;
}
```

Best practices:

- Make sure your plug-in code is thread-safe.
- Make sure your code can be executed in 3-5 seconds, otherwise, please consider running it in a thread.
- You can also use the HTTP API instead if possible.
- Please check the plug-in example on our web site for more details.

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