

## 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 (isValidSession(token)){
            throw new ClientException("Invalid session");
        }
        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.RECORDING_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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