

# [security:high, CVE-2021-35472] session cache corruption can lead to authorization bypass or spoofing

## Concerned version

Version: %2.0.0 to %2.0.11

- Enable Impersonation plugin
- Enable REST Session server
- Disable CSRF tokens
- Start a terminal and execute : for i in {1..1000}; do curl -X POST -H 'Acceptapplication/json' -d user=msmith --data-urlencode password='msmith' http://auth.example.com:19876;done
- Login dwho/dwho/dwho and hit F5 to refresh Portal
- Alternatively authenticated as 'dwho' or 'msmith'



### Possible fixes

Seems issue is linked to handler internal cache.

Login with 'dwho' / 'dwho'

Enable Impersonation plugin -> make reload\_web\_server



@\_vokoscreen-2021-06-16\_21-49-41

0:00 / 0:38

On the right: an attacker (dwho) with a valid session at authnLevel 2 fails to obtain a valid CAS ticket because his authnLevel is too low On the left a user (msmith) lone in with authnlevel=5

Just after validating the OTP code, dwho's attempt succeeds, and dwho gets a valid CAS ticket for the service (for dwho's session, thankfully, but this is still a typass)

In this test, Impersonation was not enabled.

Any plugin that uses updateSession may lead to those mixups, but so far, the most risky ones are:

- Impersonation: updates the whole session
  SecondFactor: updates authnLevel, groups and macros

Maxime Besson changed title from Resquests are mixed up if Impersonation plugin is enabled to session cache corruption can lead to authorization bypass or spoofing 1 year ago









