

ICAT & Umbrella Integration



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Science & Technology Facilities Council

ISIS

.....or

What needs to be done so users can access their data in ICAT using their Umbrella account?



Scenarios

1) Real world – authorisation via user office

2) ‘Toy’ – direct ICAT <-> Umbrella

TopCAT cannot be responsible for much
Other clients matter too

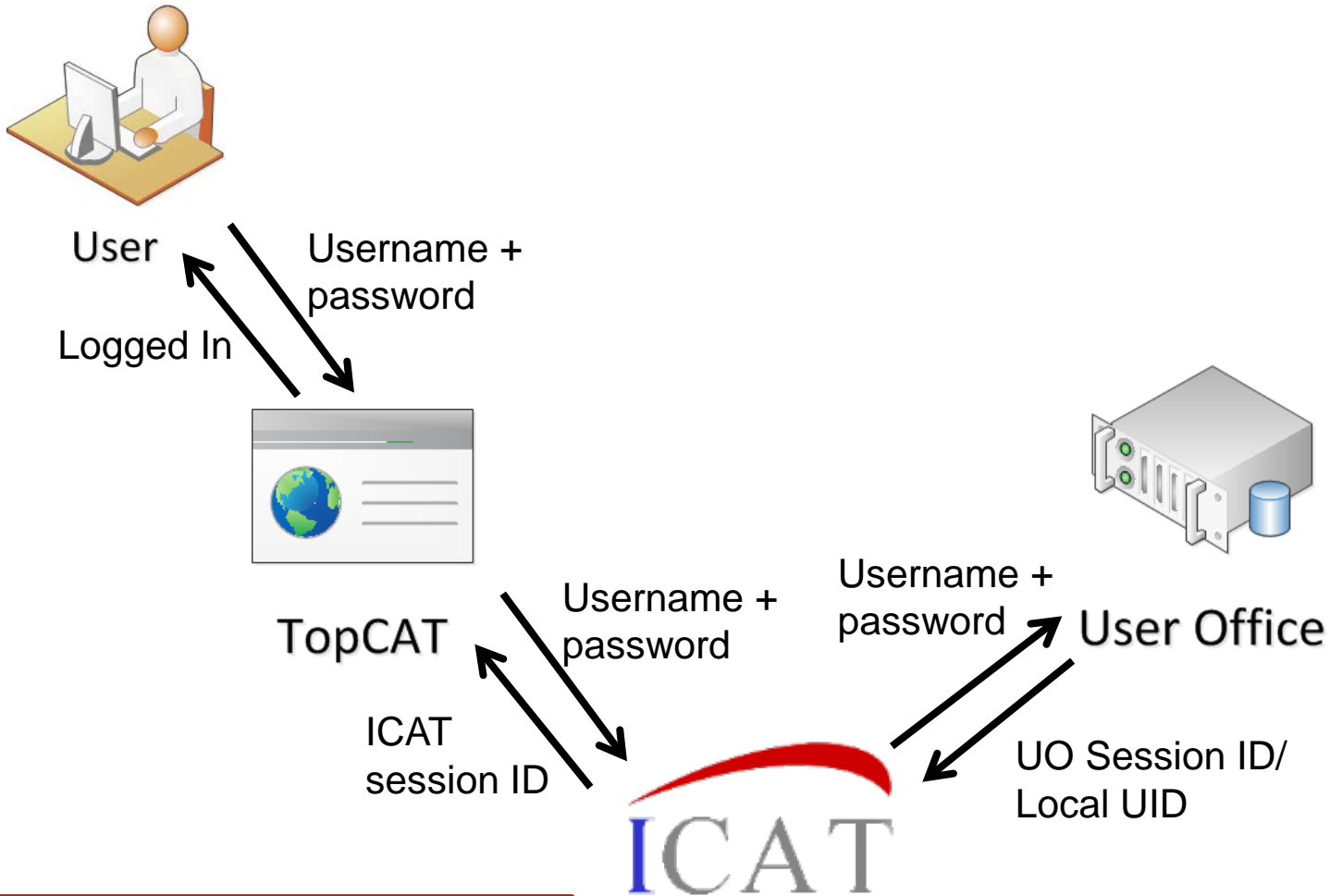


Real world - ISIS

- Users will always have local ids
- Multiple authentication routes
- Umbrella ID mapped to local id
- User office / Business system relates users to proposals



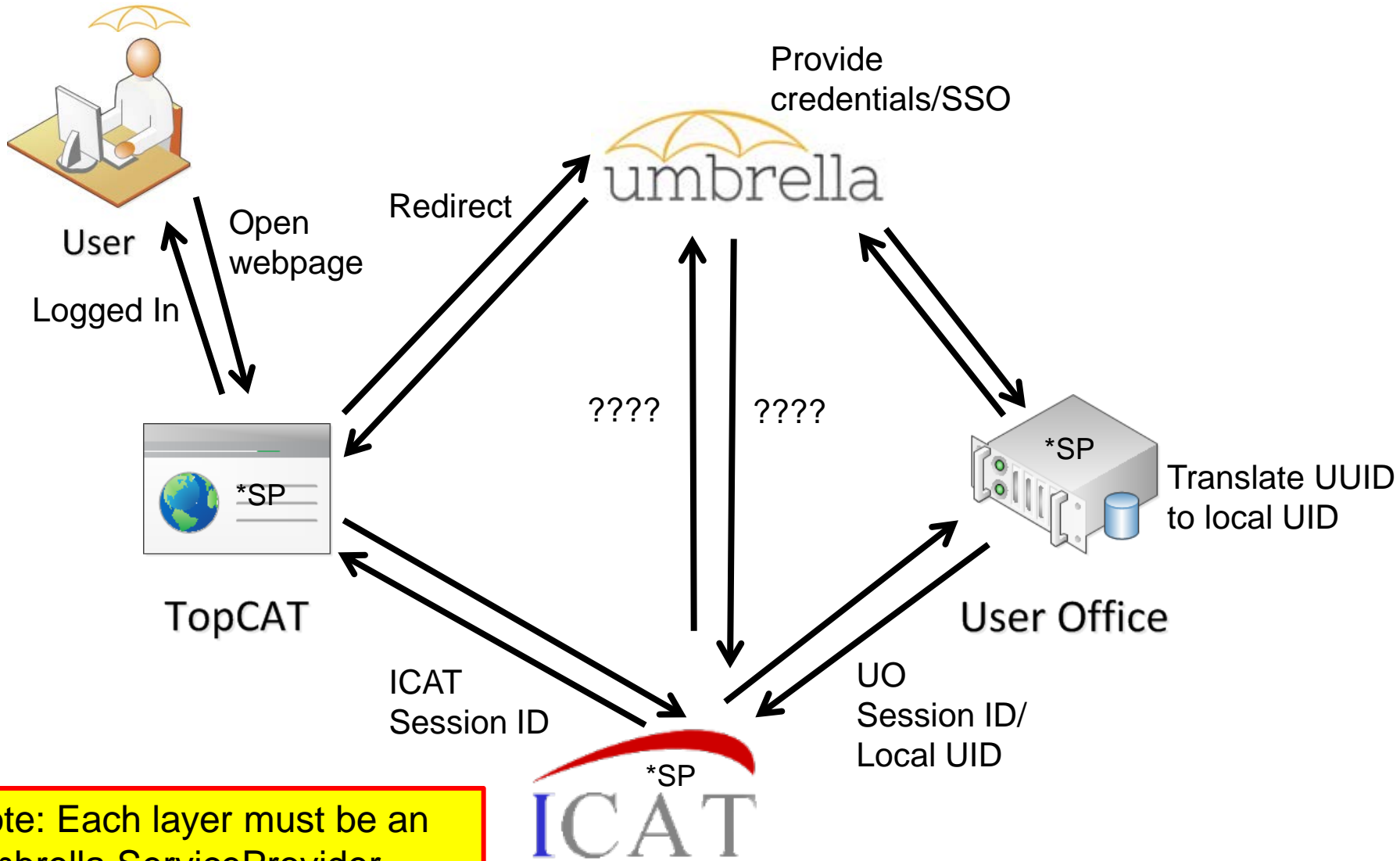
Real world – Non Umbrella



The credentials are passed between each layer in the system

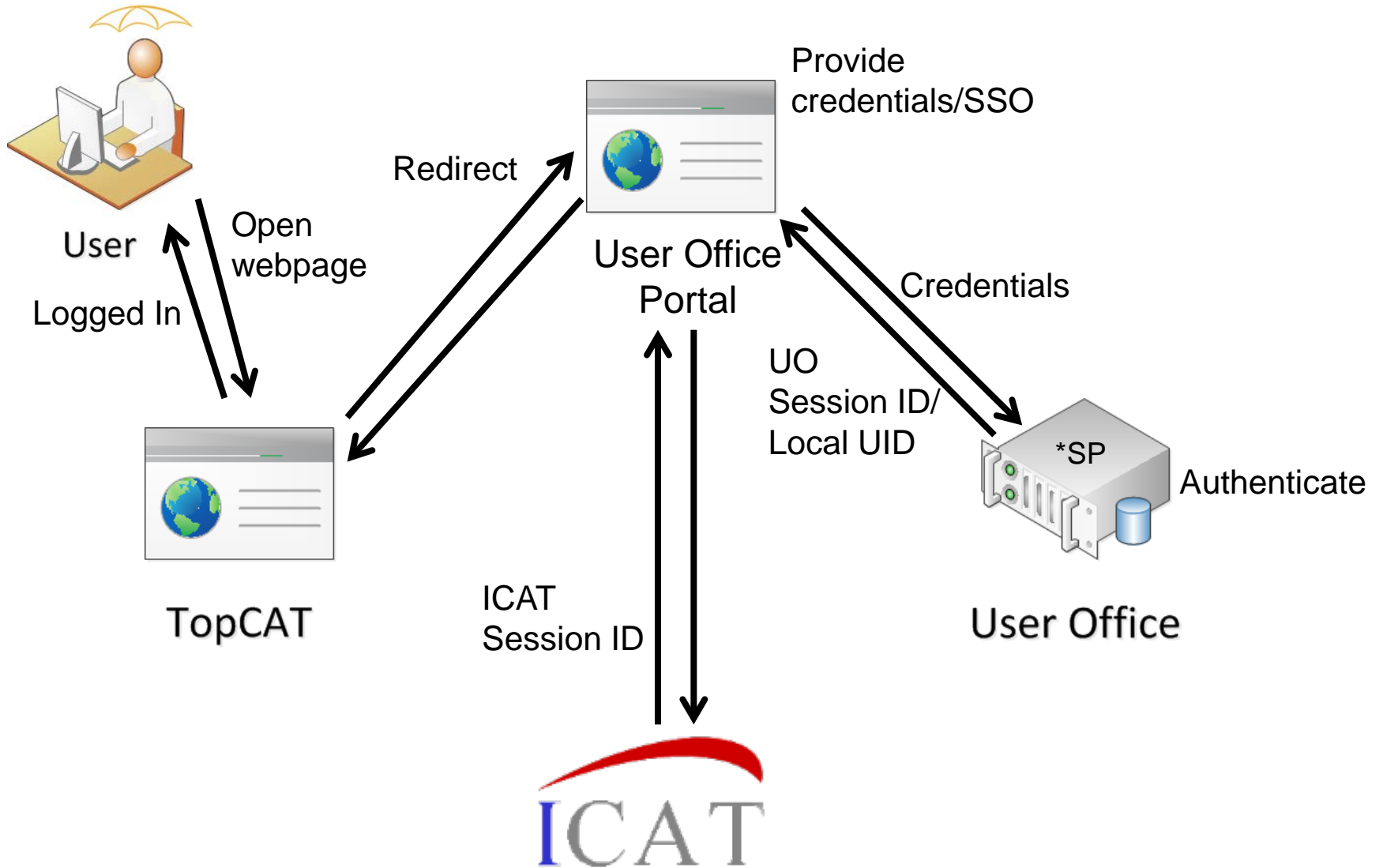
All references to ICAT mean the Authentication component of the ICAT

Real World - 'Pure' Shibboleth

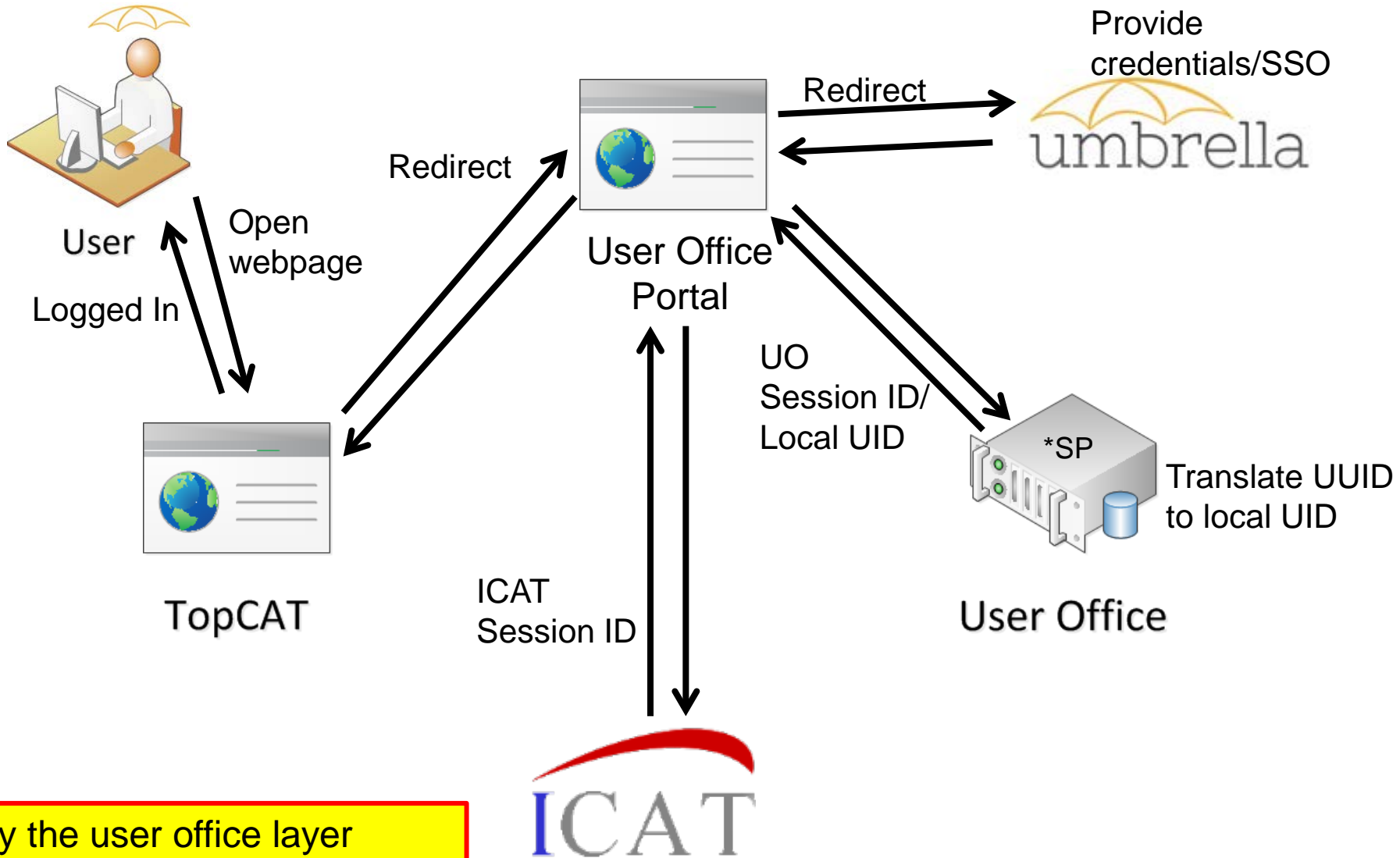


Note: Each layer must be an Umbrella ServiceProvider = lots of modifications required?

Non Umbrella + UO Portal

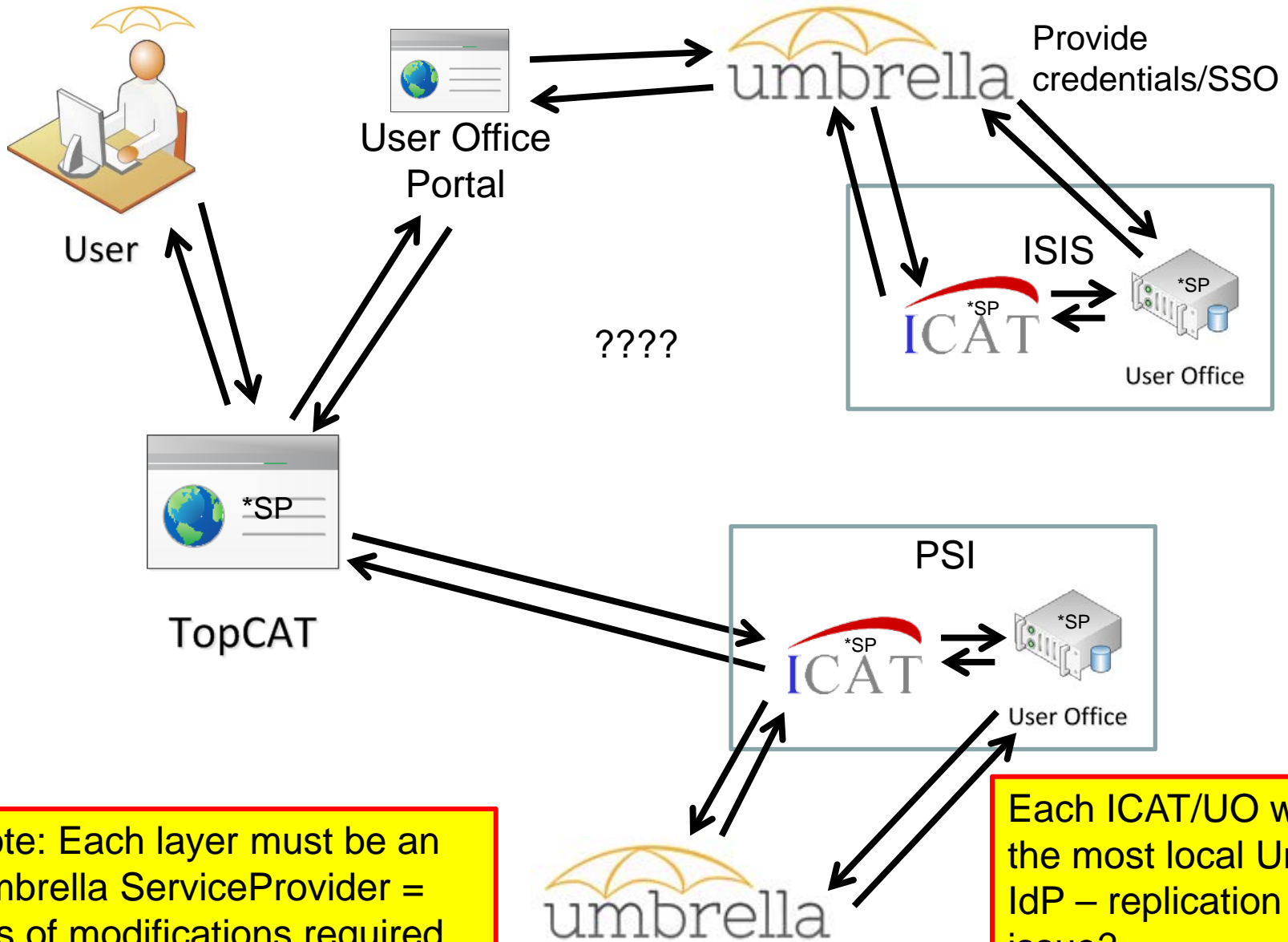


'Pure' Shibboleth + UO Portal



Only the user office layer needs to be Umbrella SPs

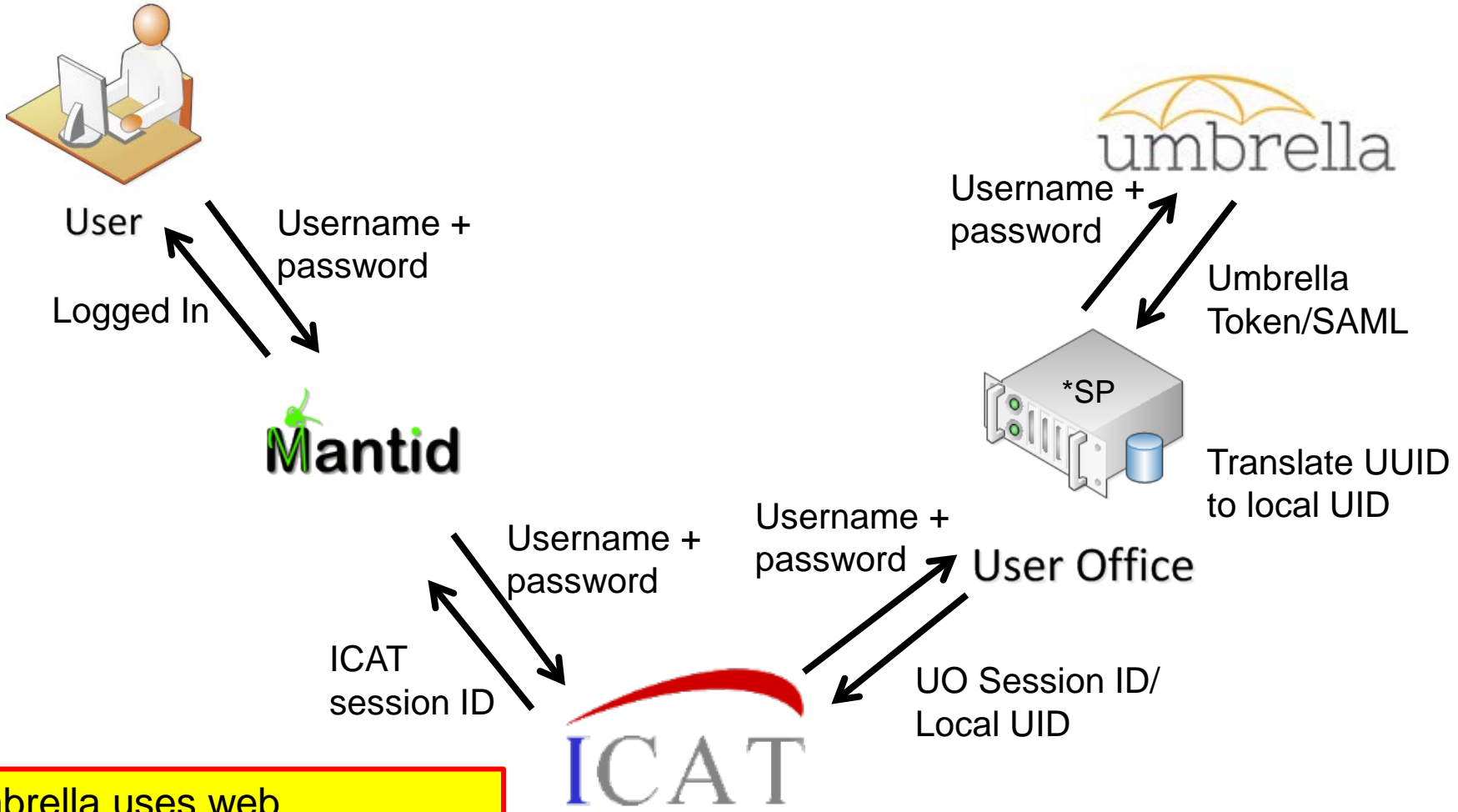
Real world -Umbrella - Many ICATs



Note: Each layer must be an Umbrella ServiceProvider = lots of modifications required

Each ICAT/UO will talk to the most local Umbrella IdP – replication lag an issue?

Real world -Umbrella - Mantid/Dawn



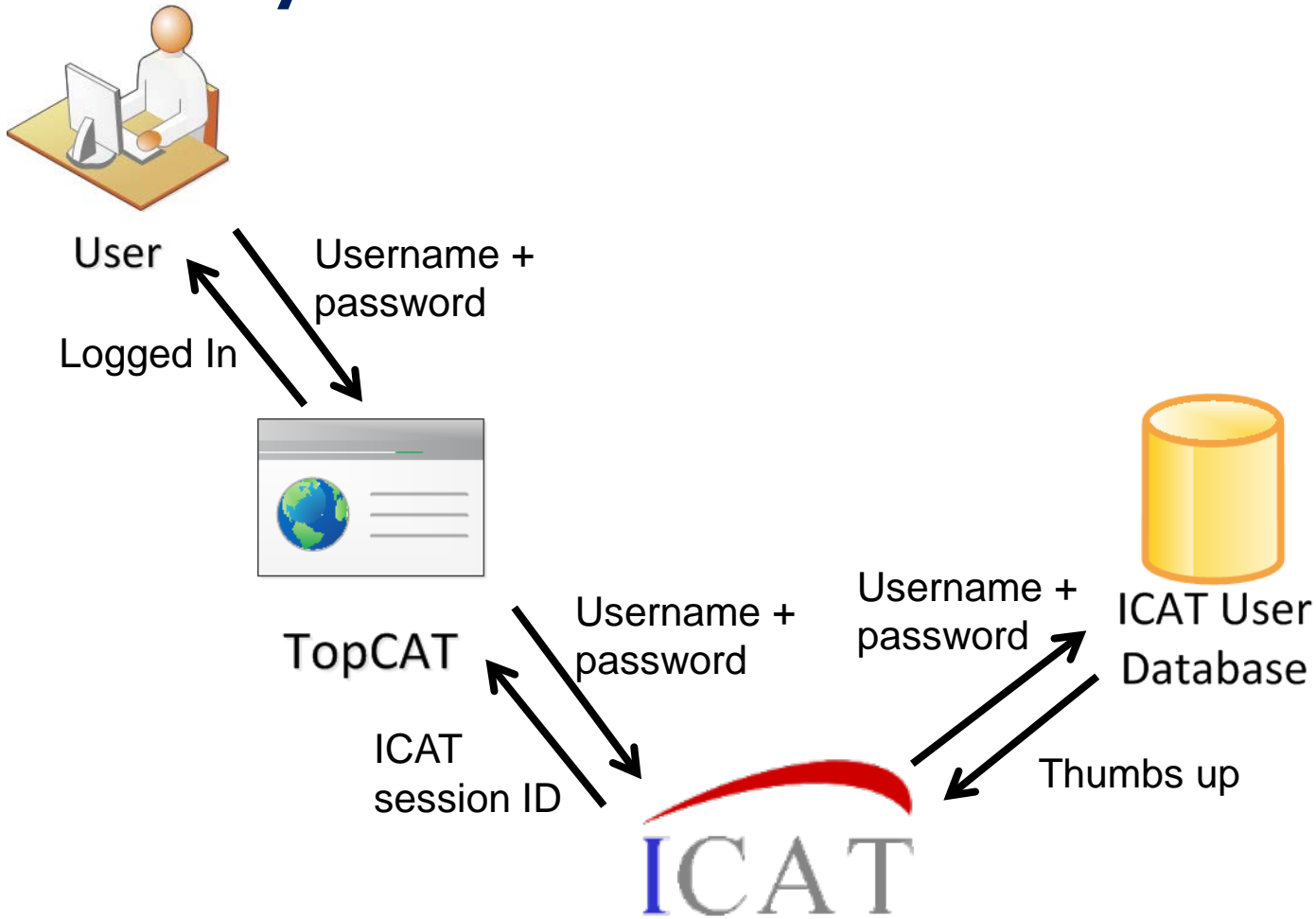
Umbrella uses web technologies. Mantid is a client application, so credentials must be explicitly passed ?

'Toy' – Direct connection

- Extend the ICAT user database/authn plugin
- Add Umbrella ID as an attribute
- Allow any authenticated umbrella user to create a local account



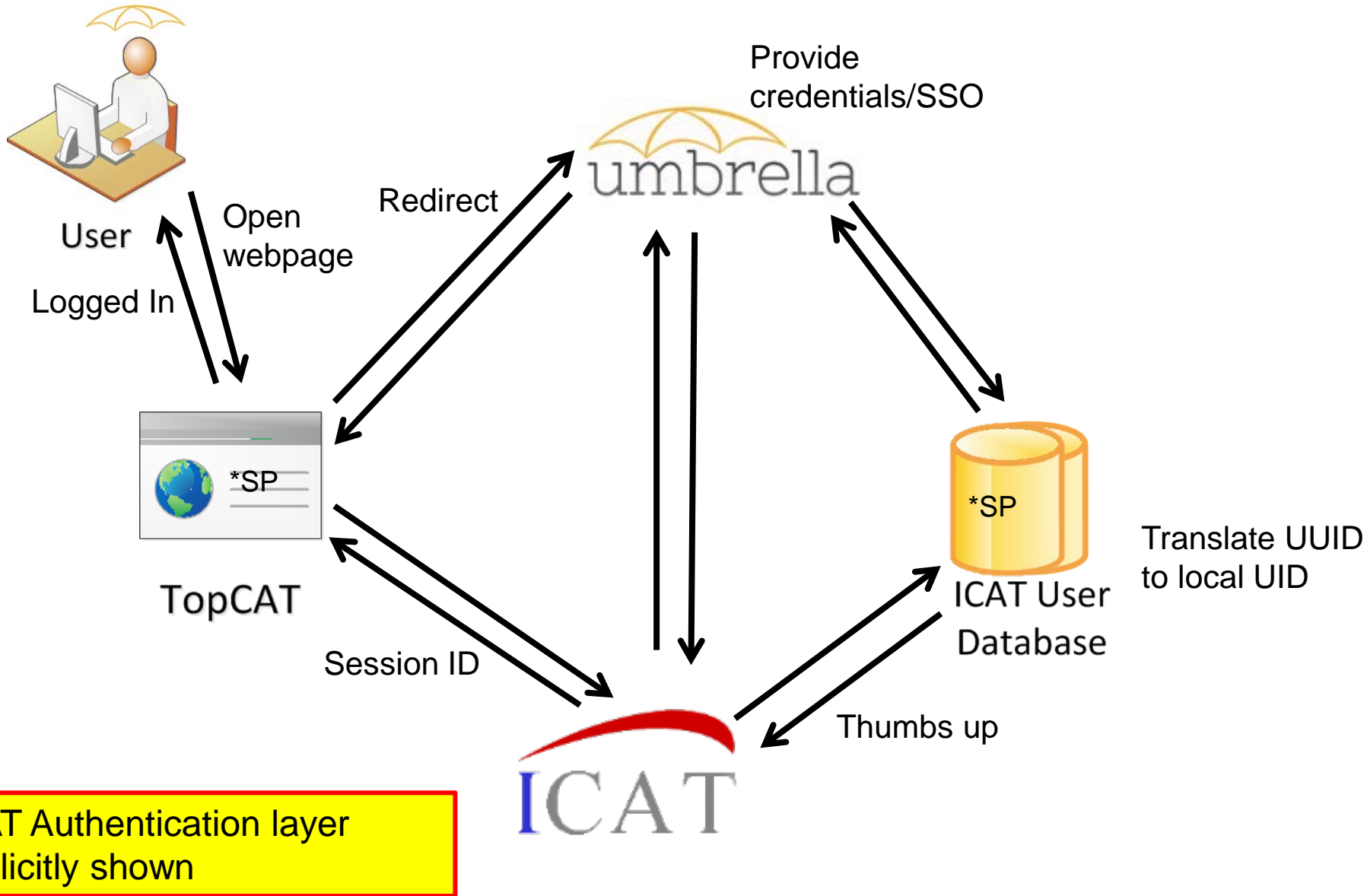
'Toy' ICAT - Non-Umbrella



'Toy' ICAT - Umbrella

Username	Password
root	Secret
tom.griffin	
mantid_test	testpassword
...	...

Real World - 'Pure' Shibboleth



Summary

- ‘ICAT’ does not require any changes
- New ICAT authentication components may be required
- Where a portal/CAS is used, no changes are needed
- Multiple sign.....?
- Mantid-like clients.....?

