WP3 & WP4 Integration









Animation is used to show credential flow.
This presentation is best seen in 'Slideshow' mode

This presentation has been amended following feedback at the Lund meeting

Tom Griffin, STFC ISIS Facility Antony Wilson, STFC SCD Björn Abt, PSI

Lund, Sweden

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tom.griffin@stfc.ac.uk



....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



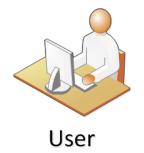
Real world - ISIS

- Users will always have local ids
- Multiple authentication routes

· Umbrella ID mapped to local id

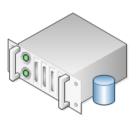
 User office / Business system relates users to proposals







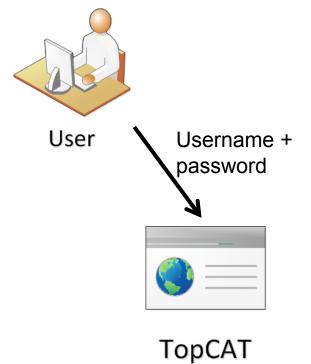
TopCAT

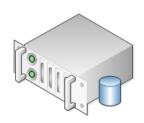


User Office



The credentials are passed between each layer in the system

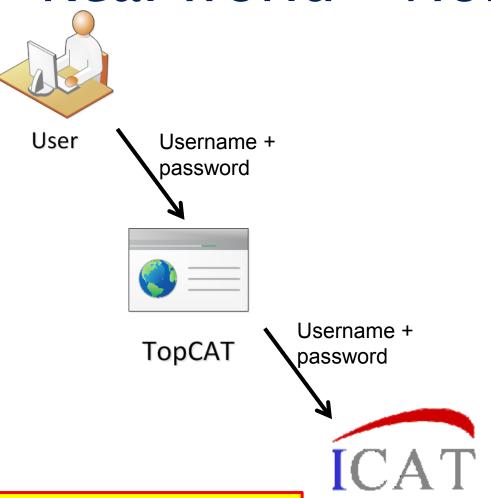


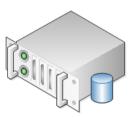


User Office



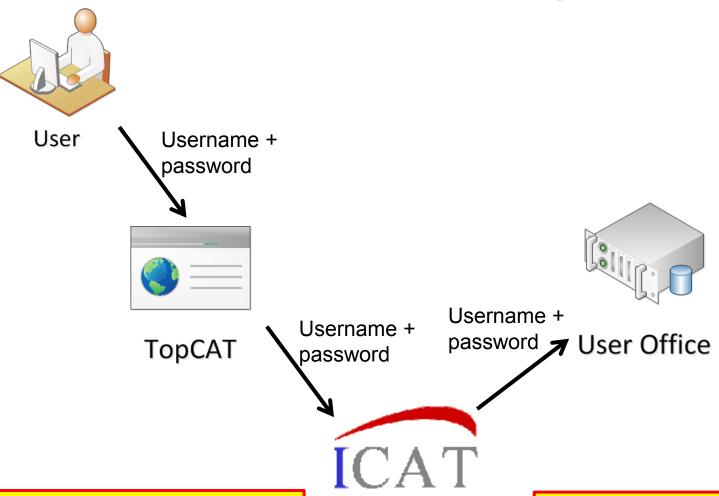
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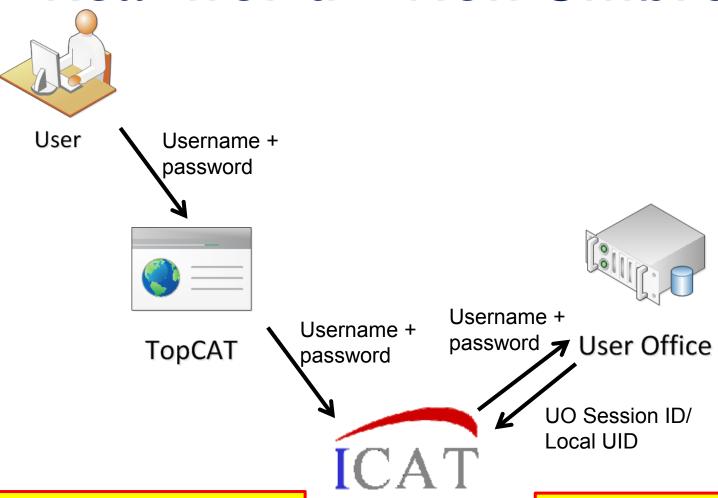


User Office

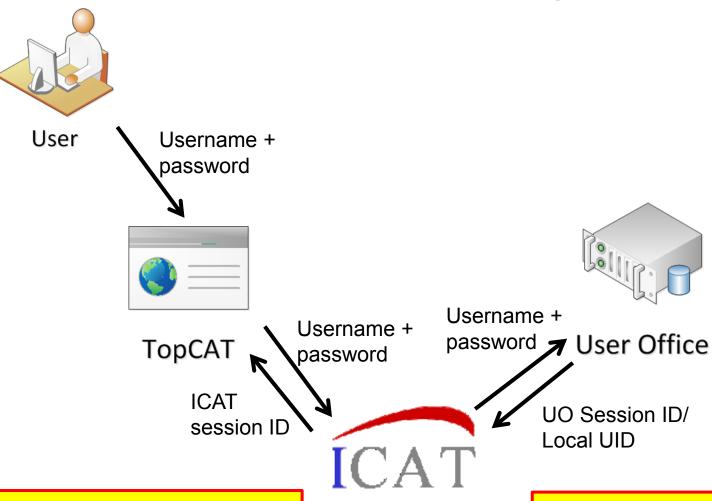
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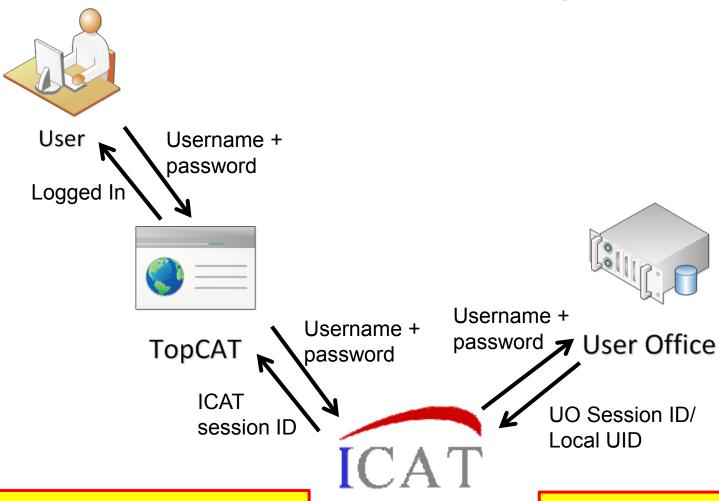
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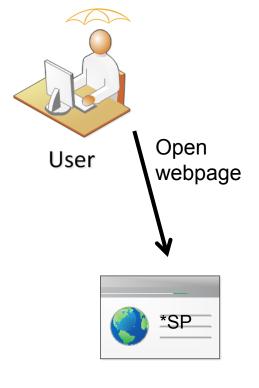


TopCAT



User Office





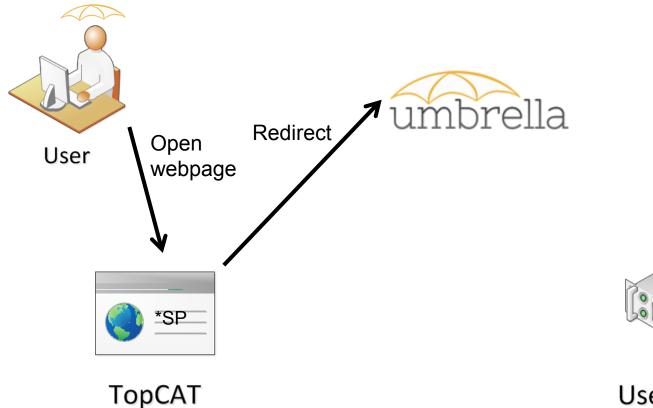




User Office

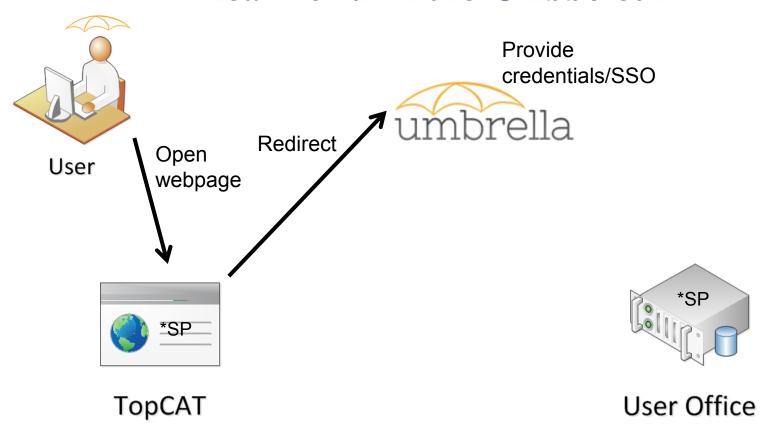
TopCAT



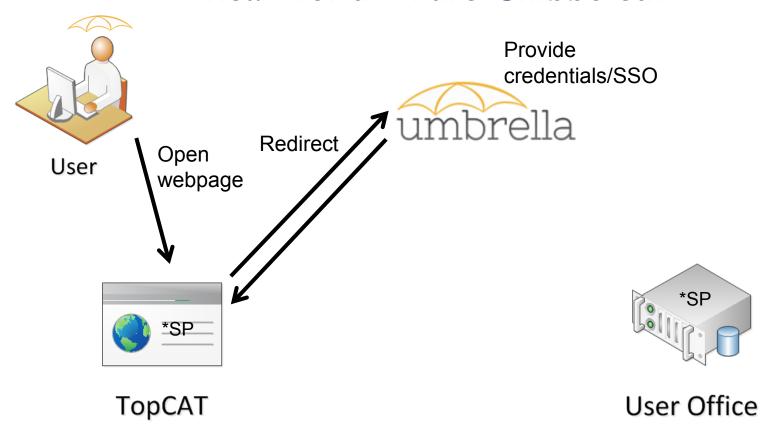


User Office

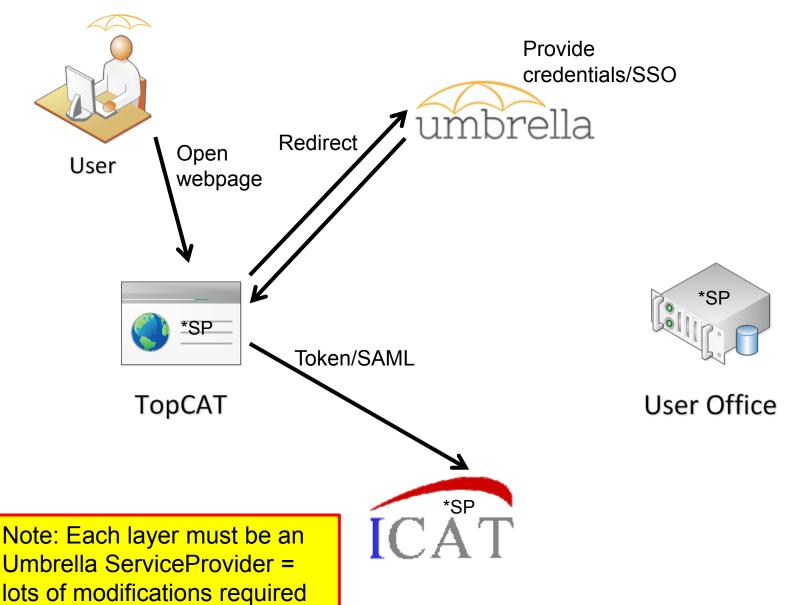


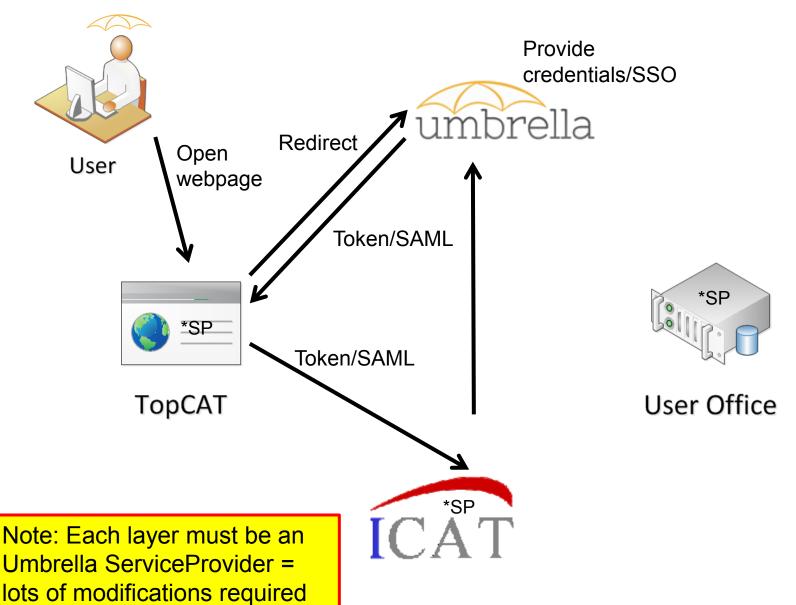


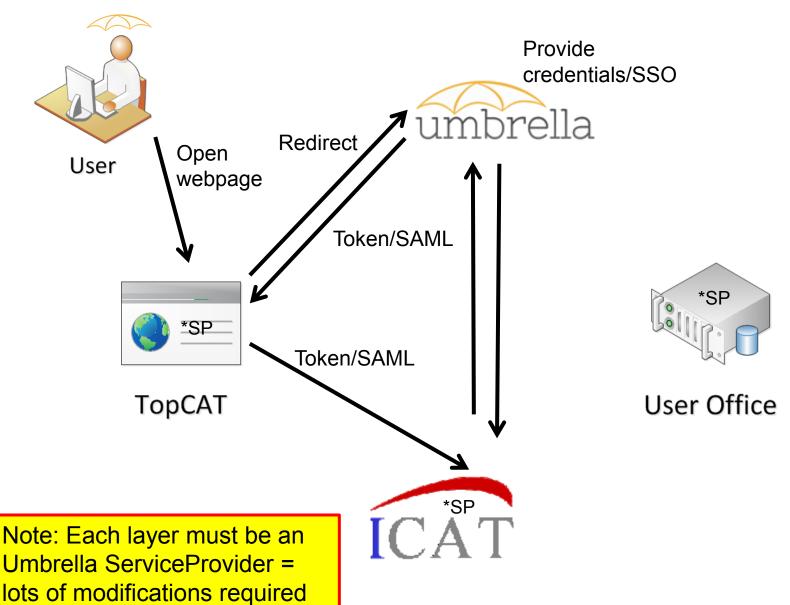


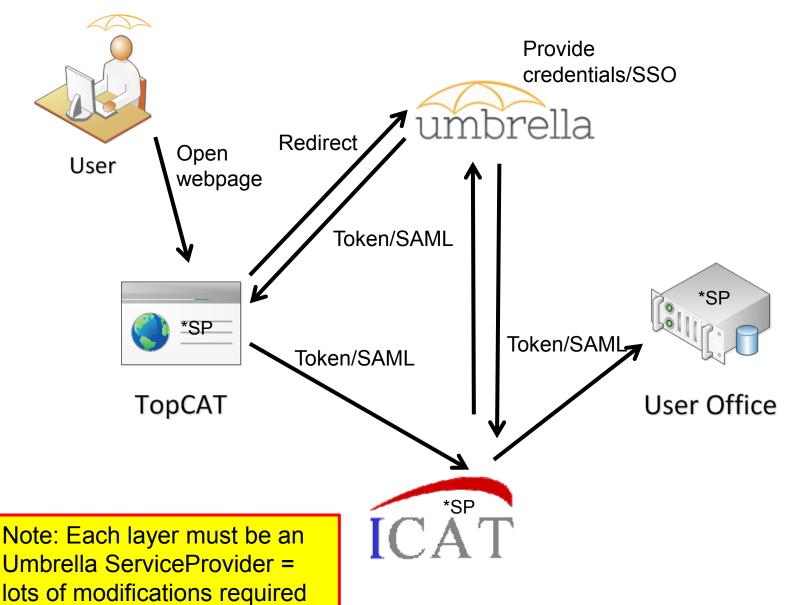


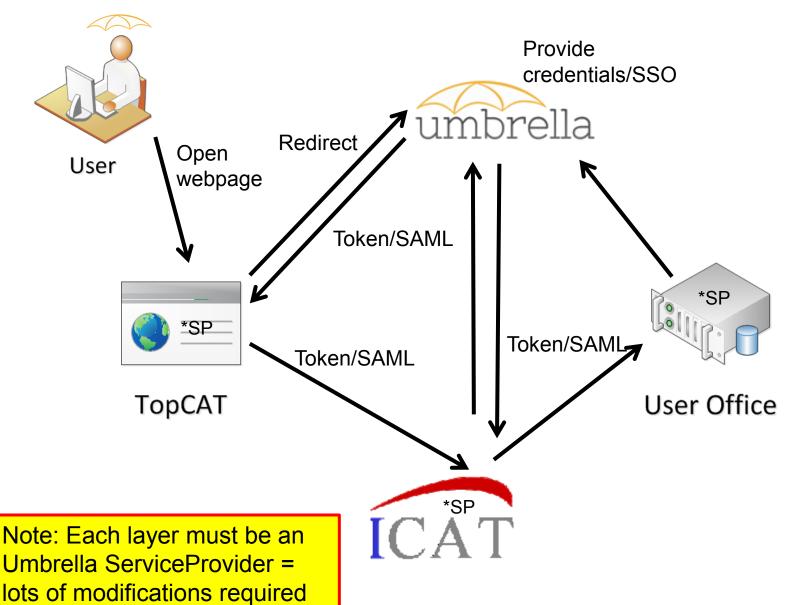


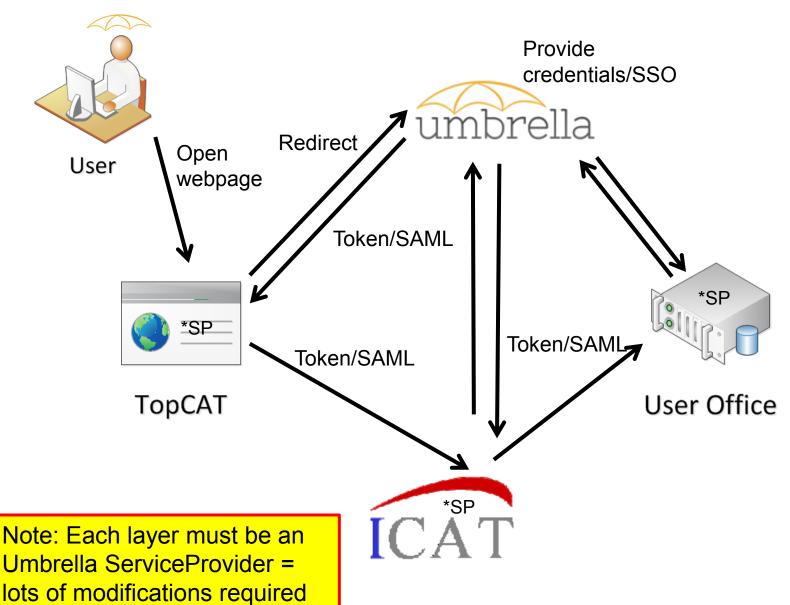


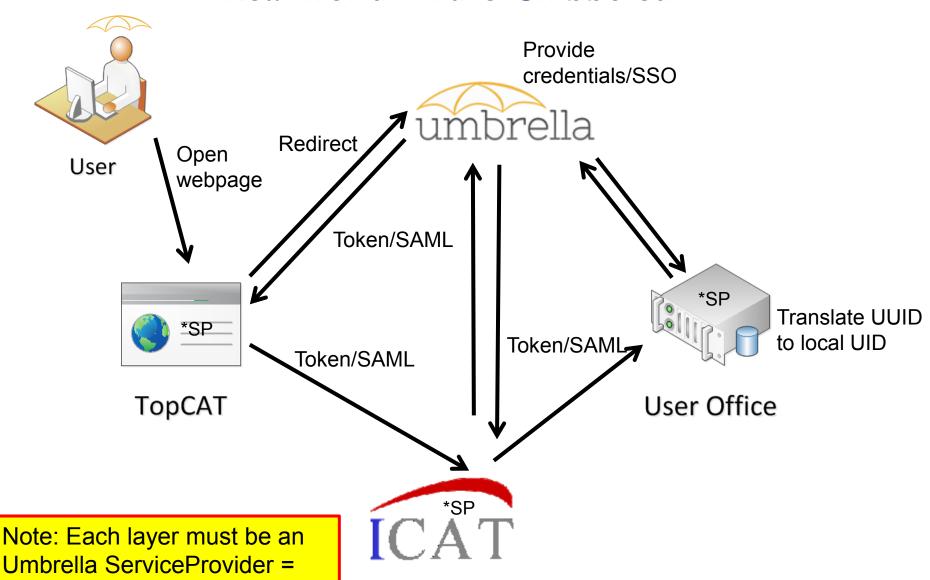




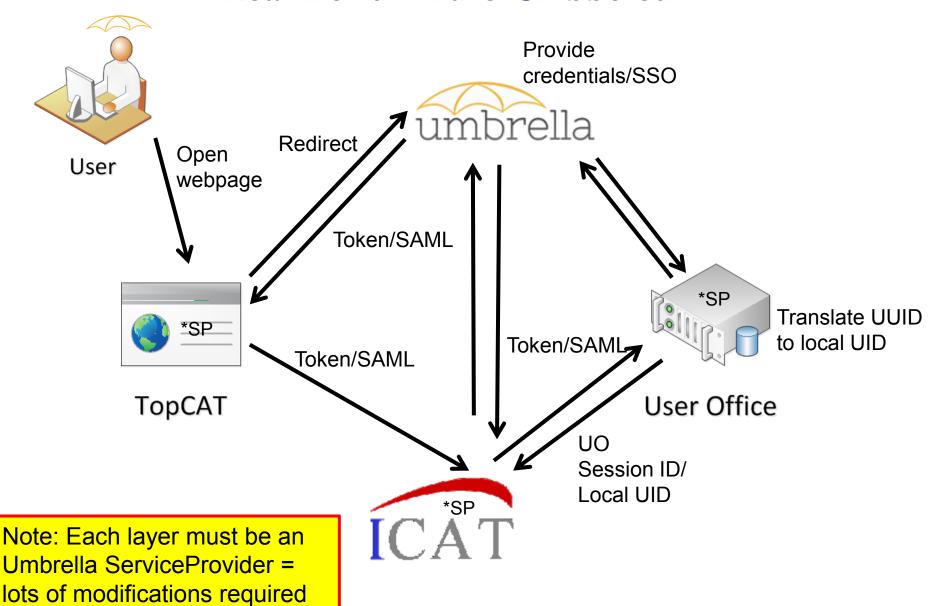


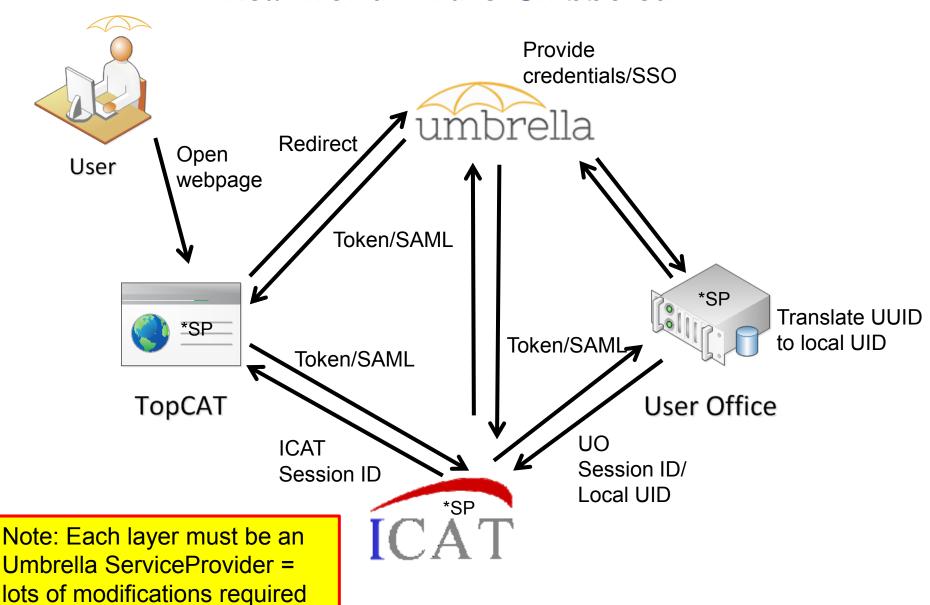


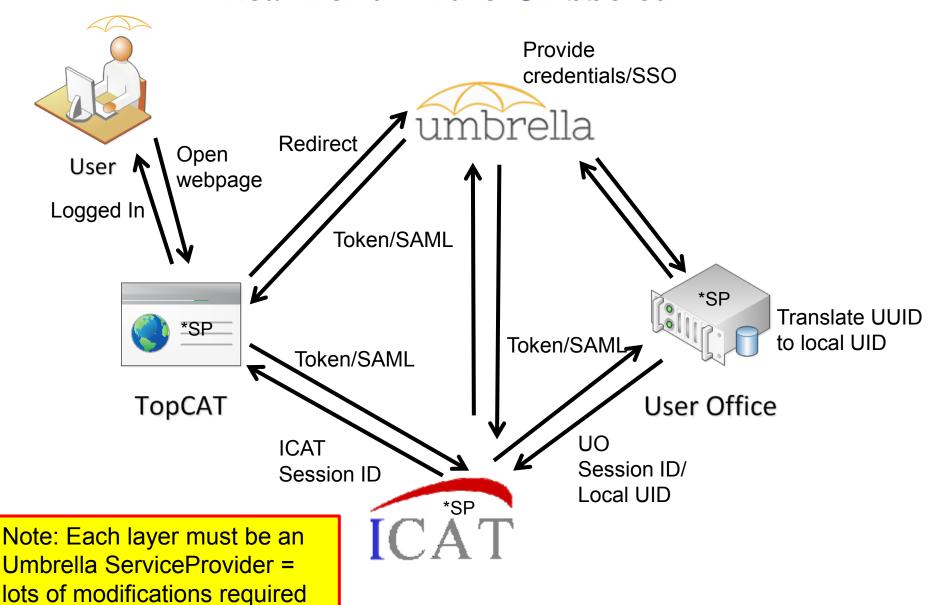




lots of modifications required











User Office Portal



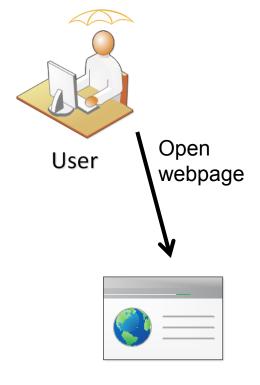


TopCAT



User Office









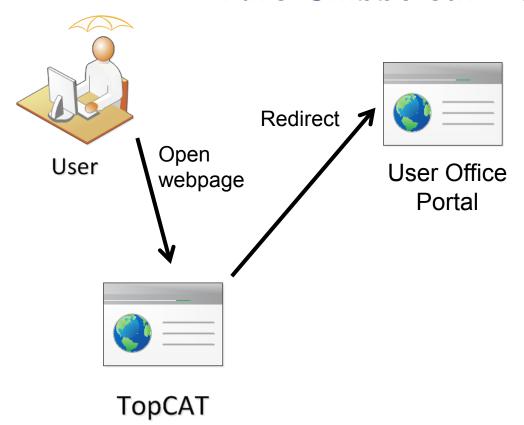
User Office Portal





User Office



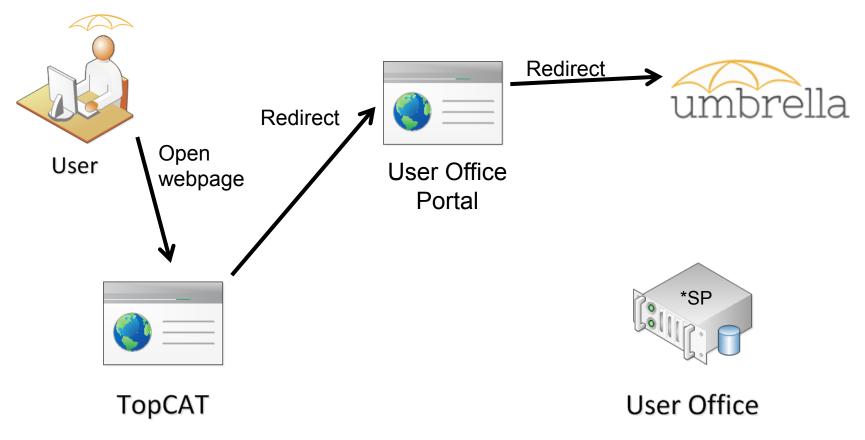




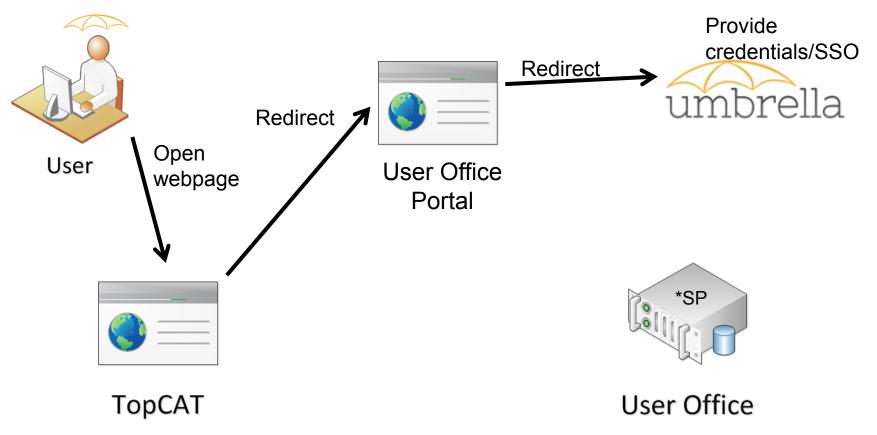


User Office

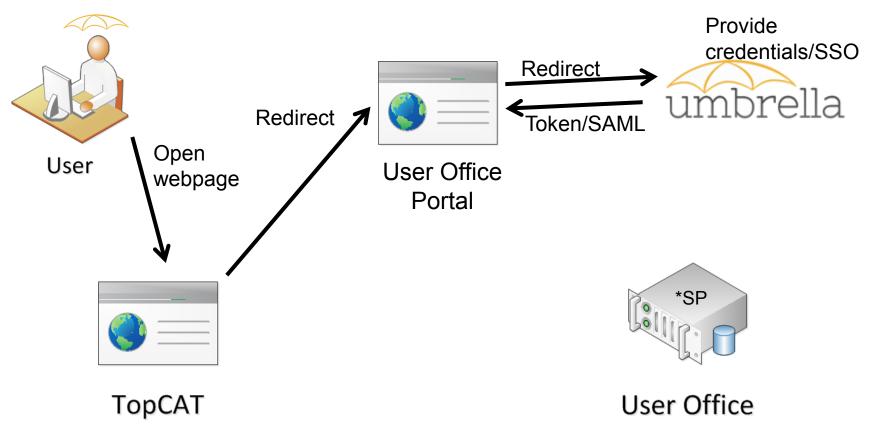




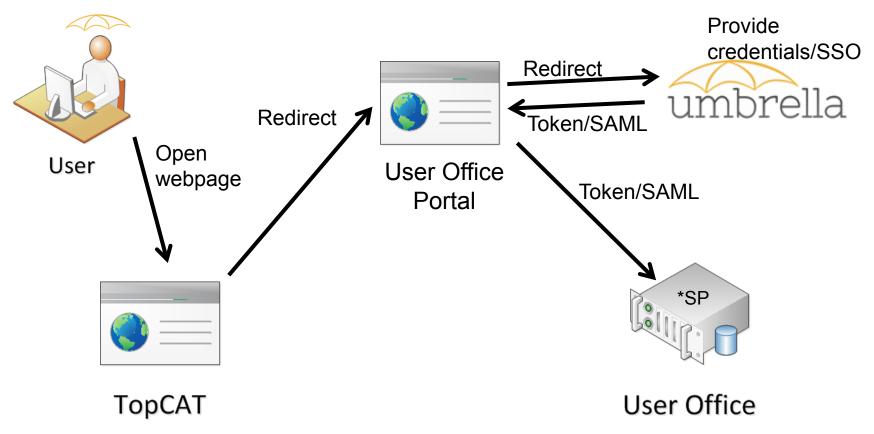




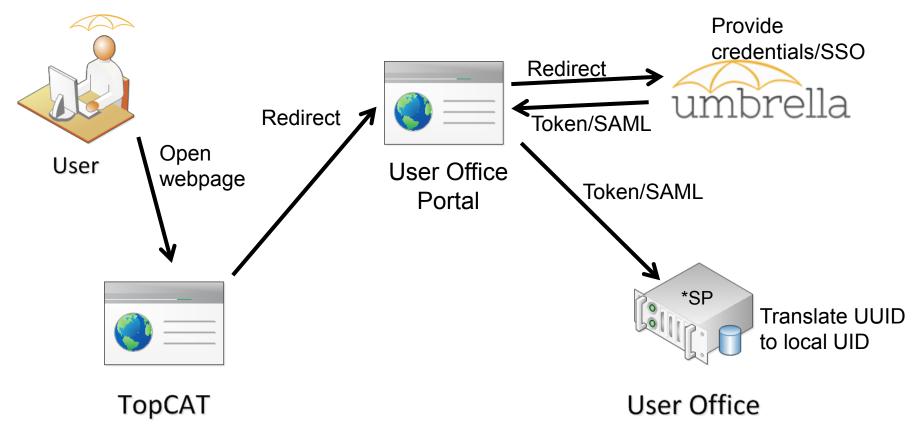




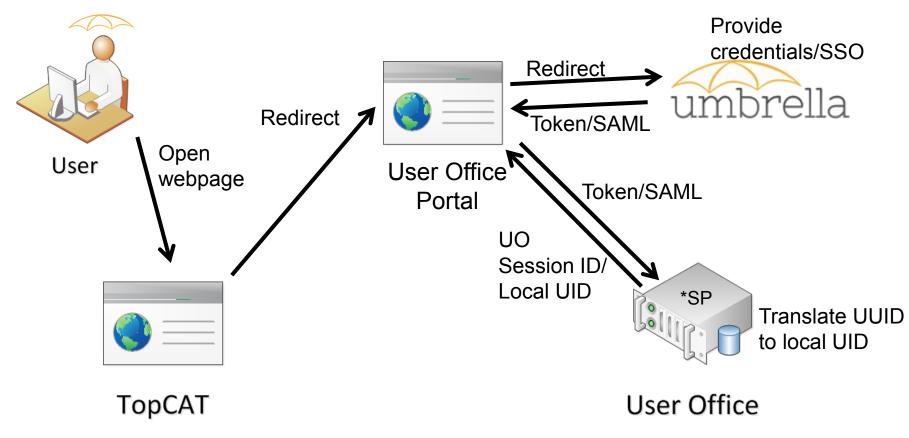




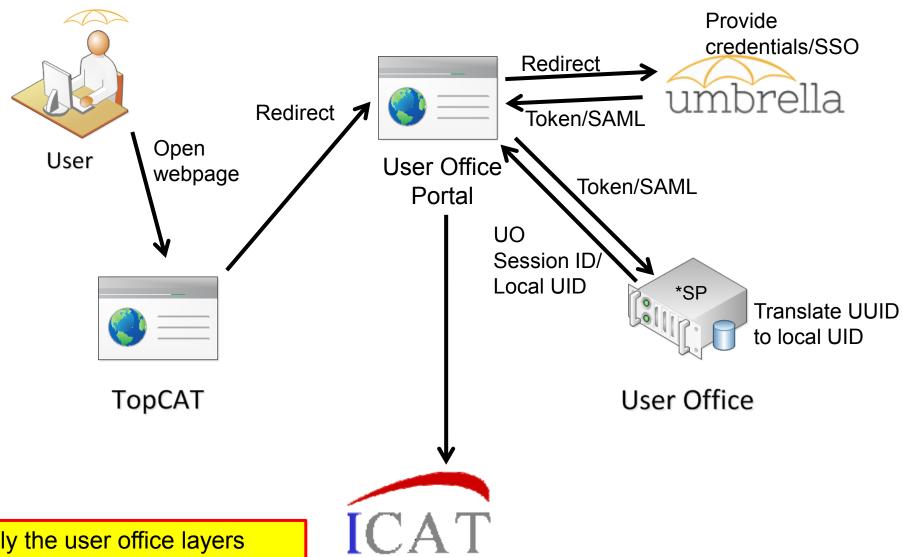




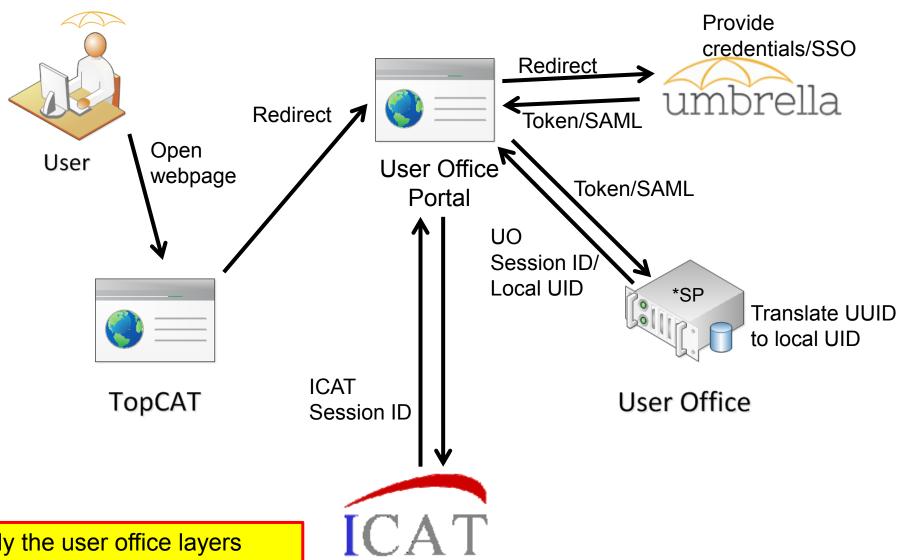






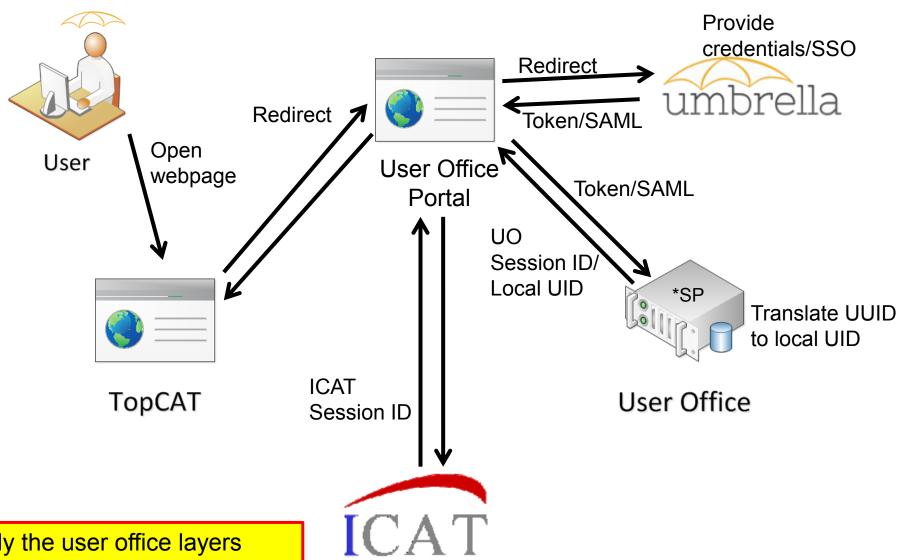


'Pure' Shibboleth + UO Portal



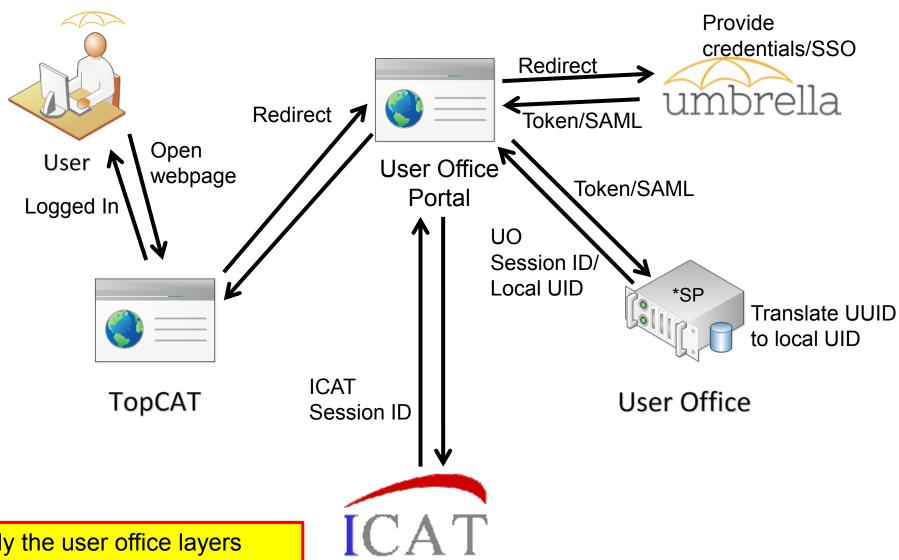
Only the user office layers needs to be Umbrella SPs

'Pure' Shibboleth + UO Portal



Only the user office layers needs to be Umbrella SPs

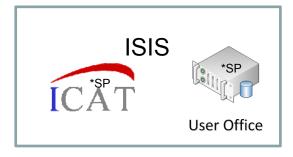
'Pure' Shibboleth + UO Portal



Only the user office layers needs to be Umbrella SPs

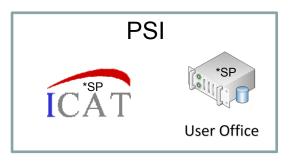






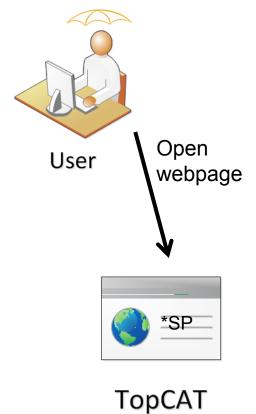


TopCAT

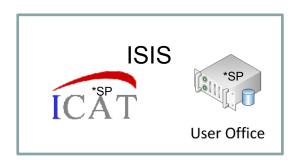


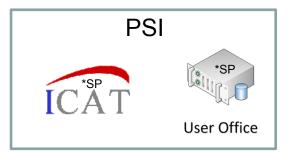
Note: Each layer must be an Umbrella ServiceProvider = lots of modifications required





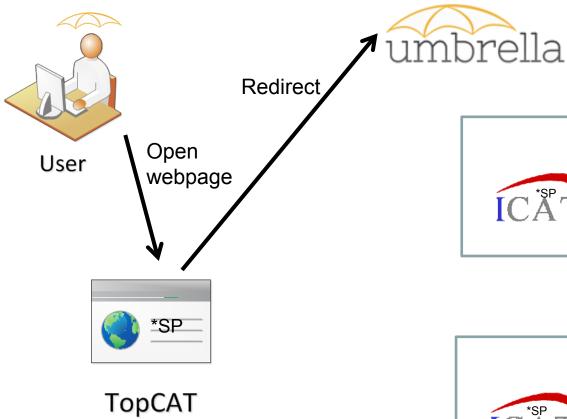


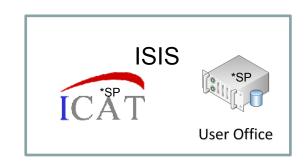


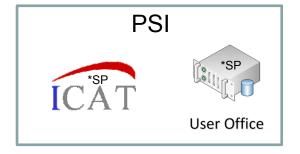


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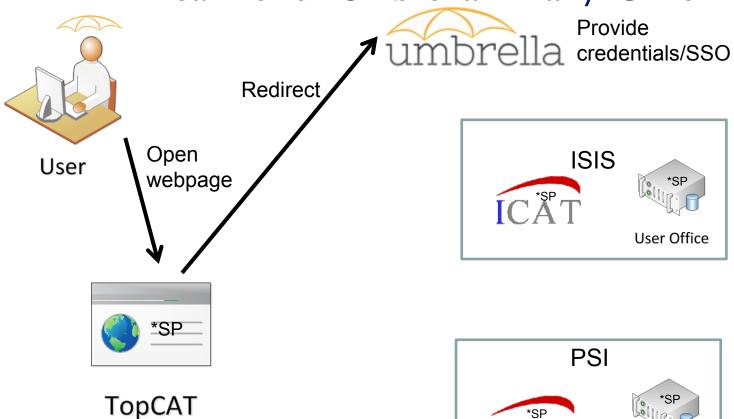


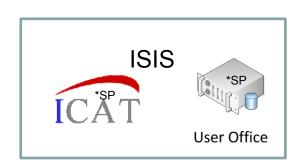




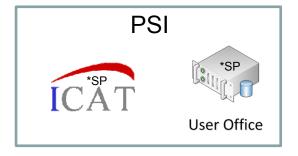
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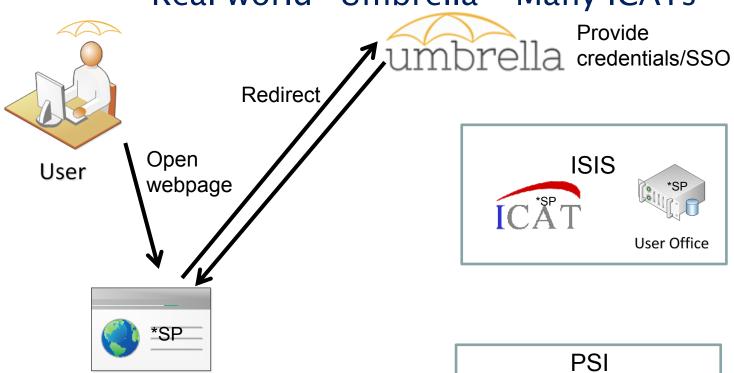


Provide



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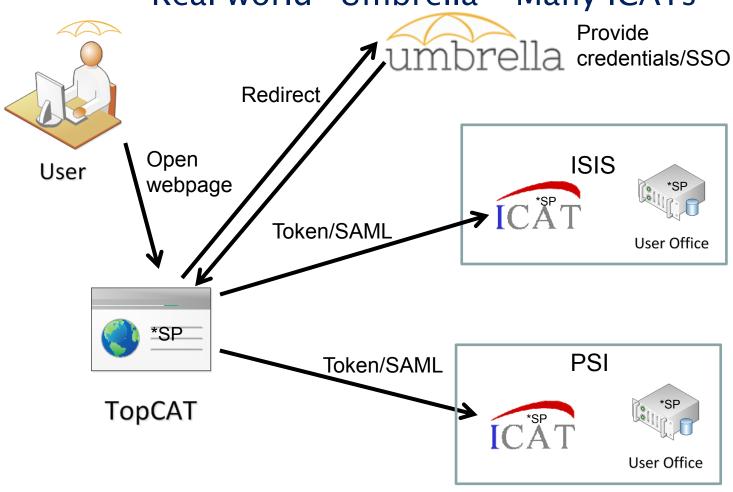
ICAT

User Office

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

TopCAT





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



Real world -Umbrella - Many ICATs Provide umbrella credentials/SSO Redirect Token/SAML Open ISIS User webpage Token/SAML **User Office** *SP **PSI** Token/SAML **TopCAT User Office** Token/SAMI Note: Each layer must be an Each ICAT/UO will Umbrella ServiceProvider = talk to the most local Umbrella IdP lots of modifications required

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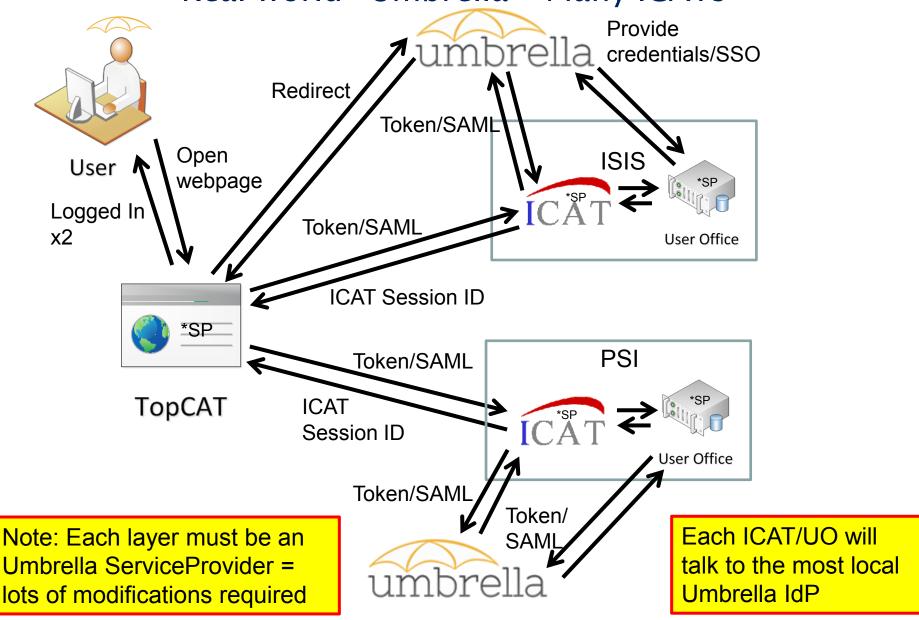
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Real world -Umbrella - Many ICATs Provide credentials/SSO Redirect Token/SAML Open ISIS User webpage Token/SAML **User Office** *SP **PSI** Token/SAML **TopCAT User Office** Token/SAMI Token/ Each ICAT/UO will Note: Each layer must be an SAMI Umbrella ServiceProvider = talk to the most local Umbrella IdP lots of modifications required

Real world -Umbrella - Many ICATs Provide credentials/SSO Redirect Token/SAML Open ISIS User webpage Token/SAML **User Office ICAT Session ID** *SP **PSI** Token/SAML TopCAT **ICAT** Session ID **User Office** Token/SAMI Token/ Each ICAT/UO will Note: Each layer must be an SAMI Umbrella ServiceProvider = talk to the most local Umbrella IdP lots of modifications required



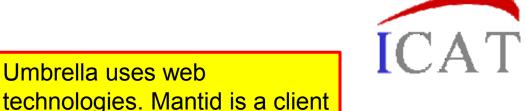


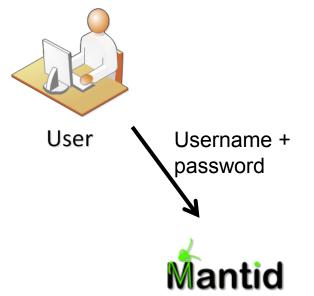




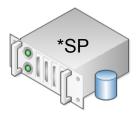


User Office



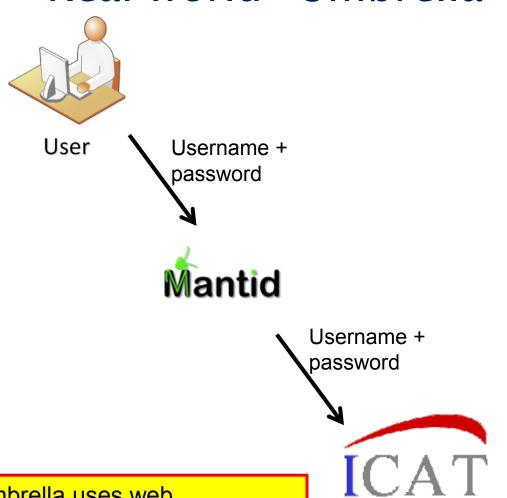




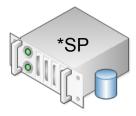


User Office

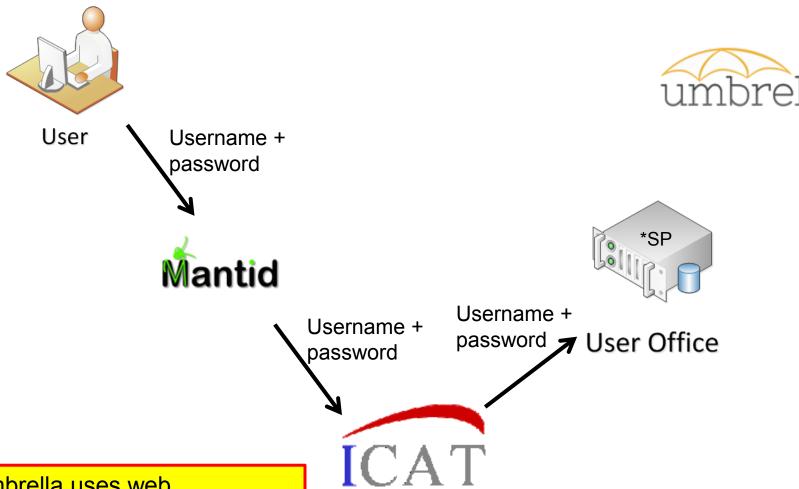


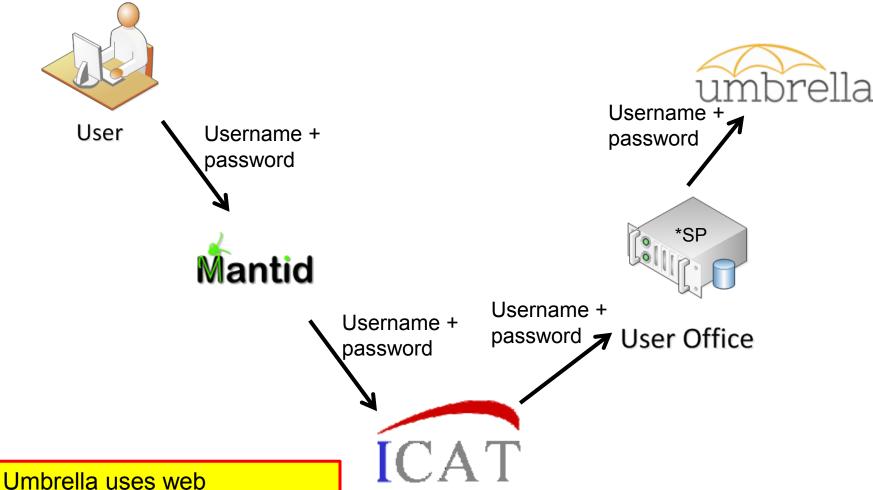


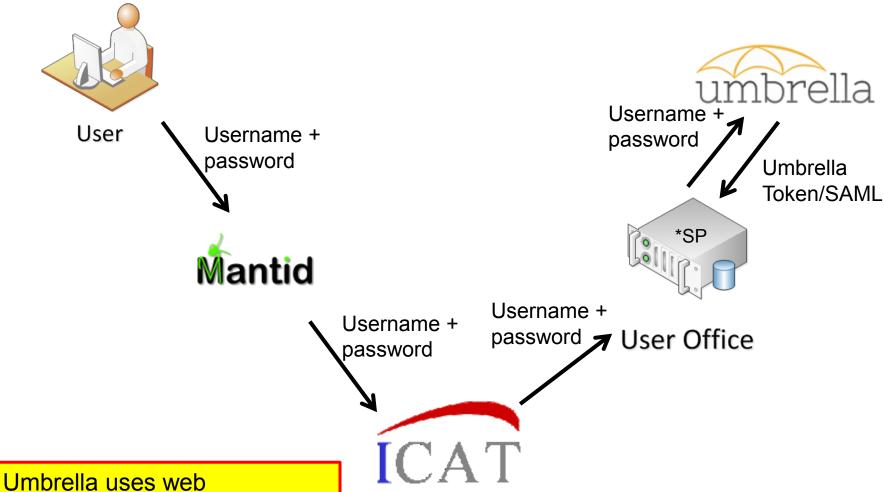


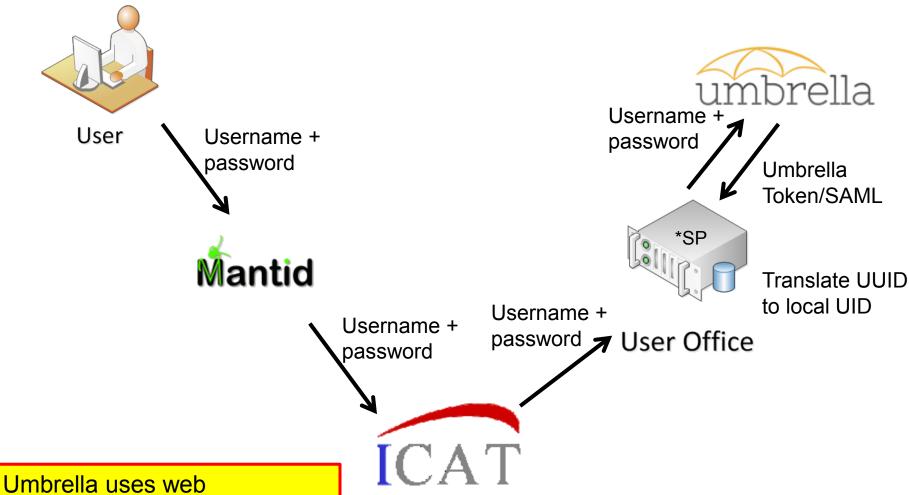


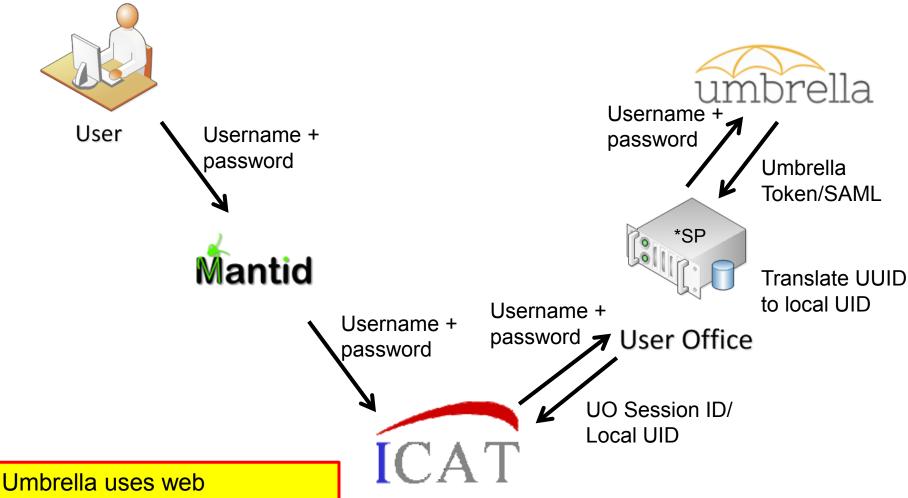
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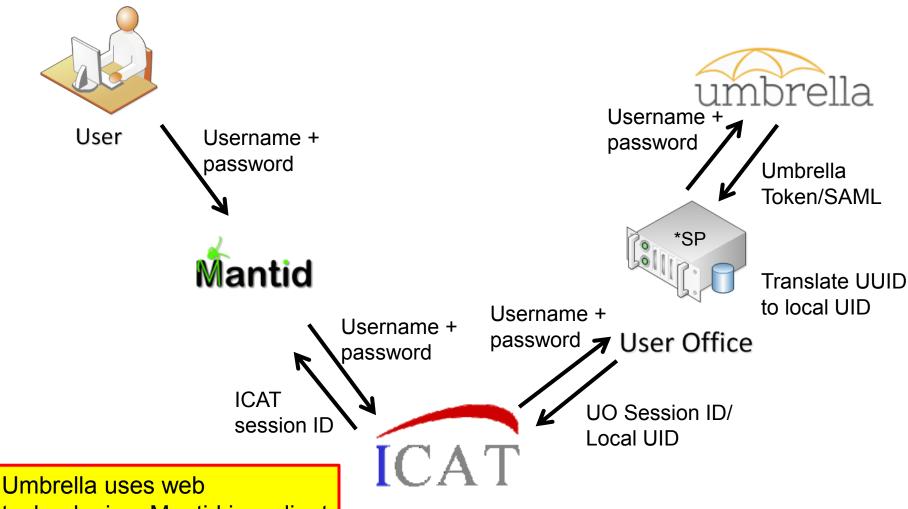


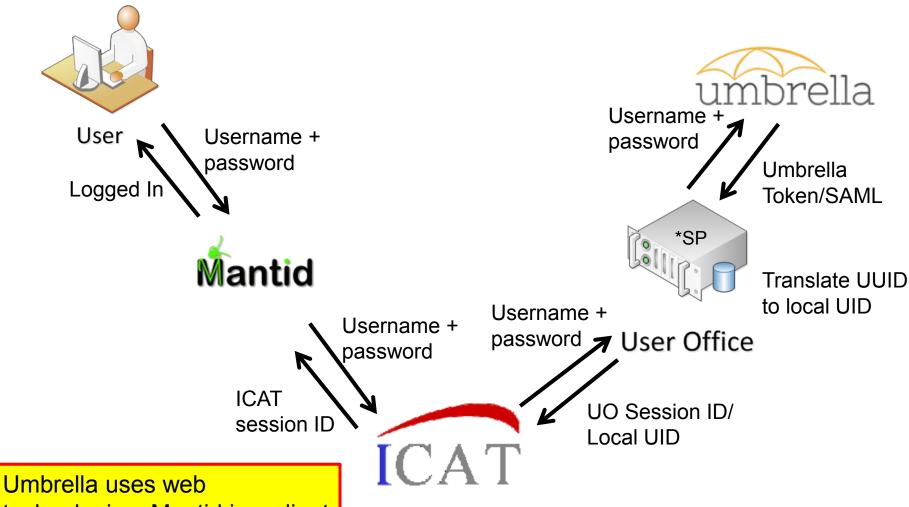












'Toy' - Direct connection

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



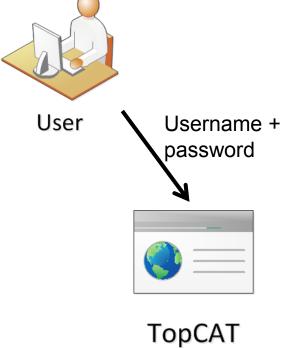




TopCAT

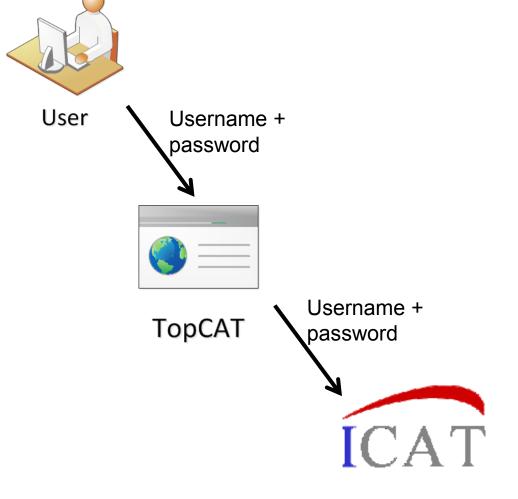




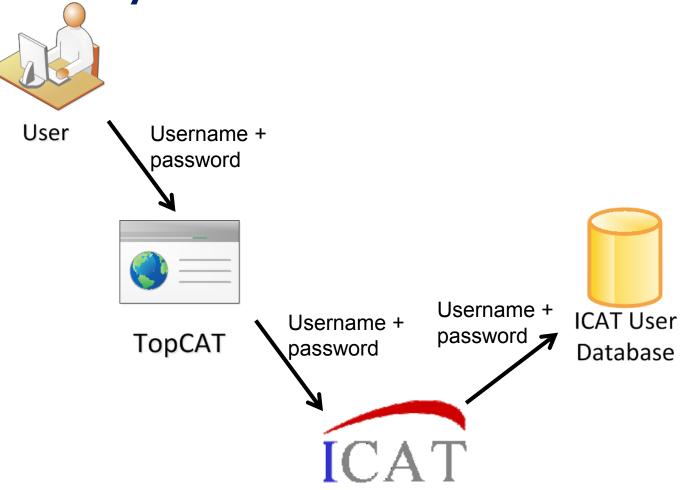


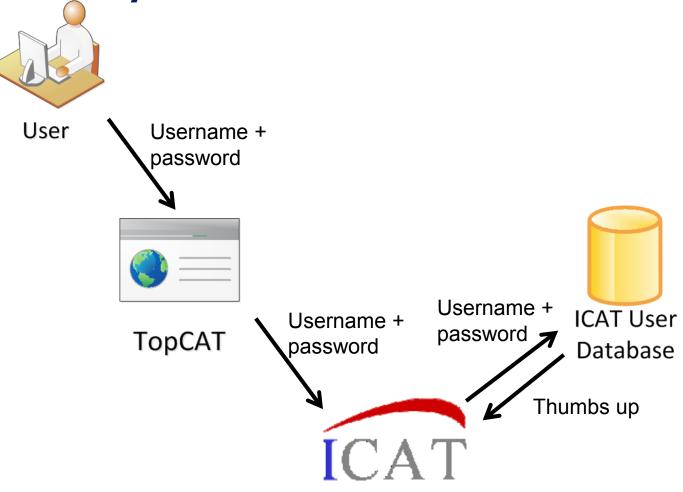


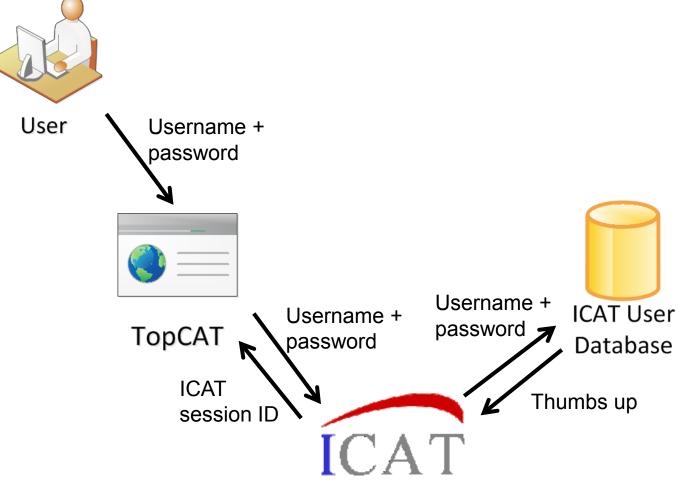


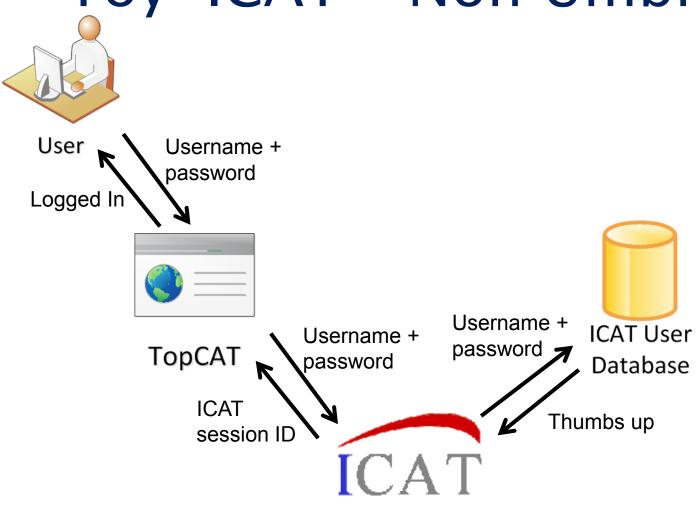












Username	Password
root	Secret
tom.griffin	
mantid_test	testpassword
• • •	

'Toy' ICAT - Umbrella

Username	Password	UUID
root	Secret	
tom.griffin		d5bed531a2e1-8013f8fb319f
mantid_test	testpassword	
		•••



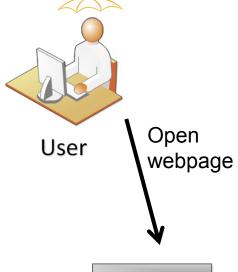




TopCAT







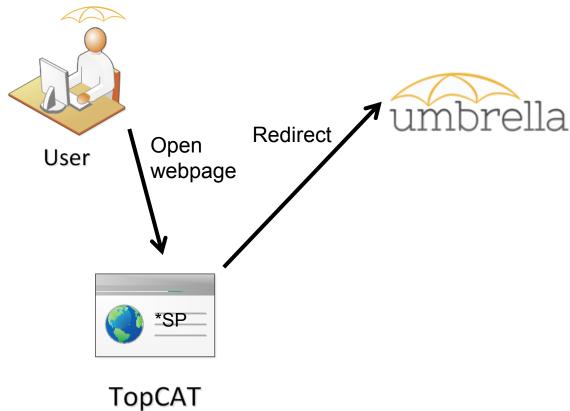




TopCAT



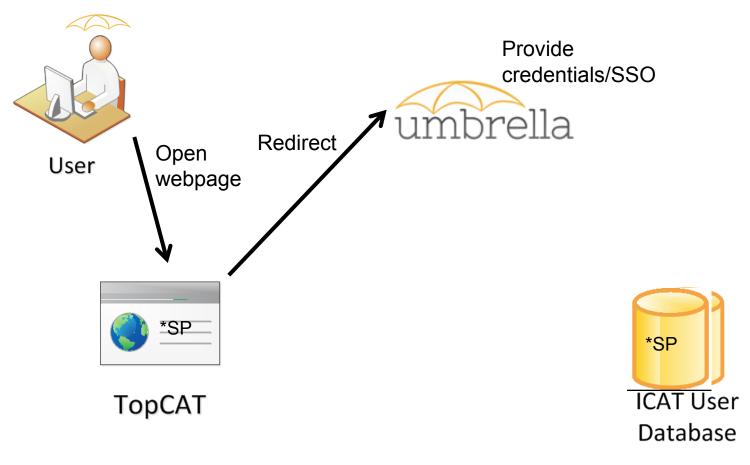




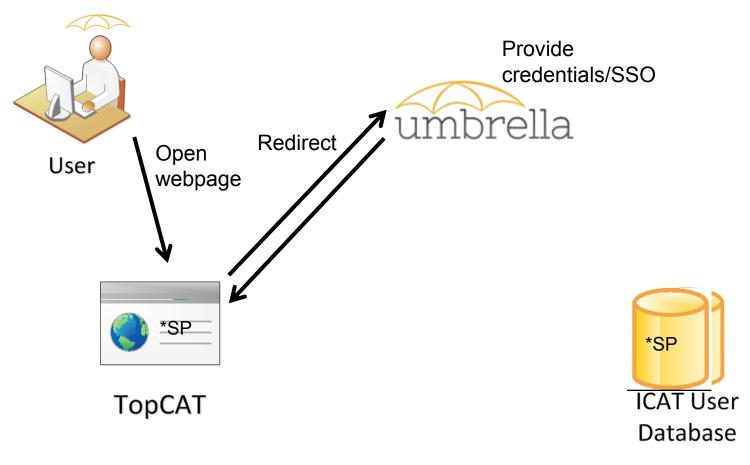




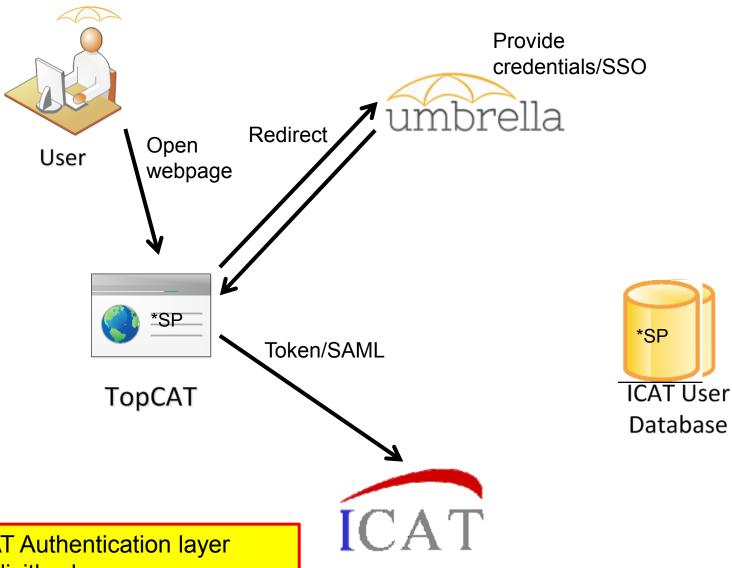


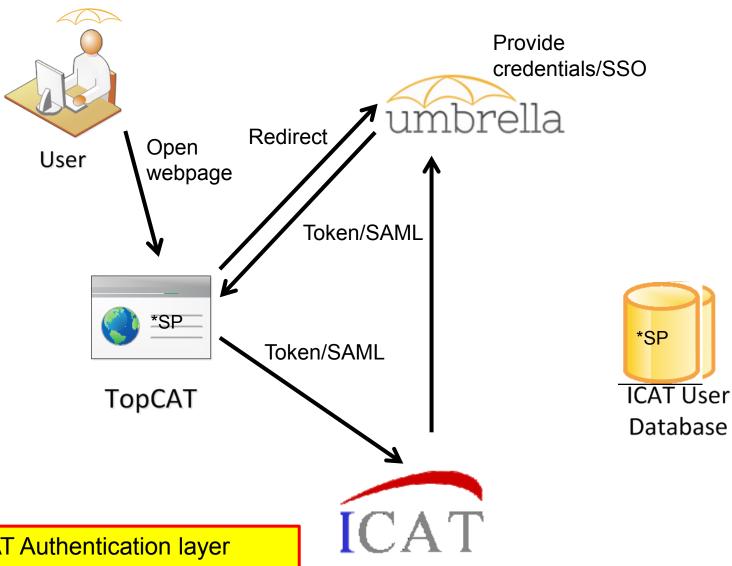


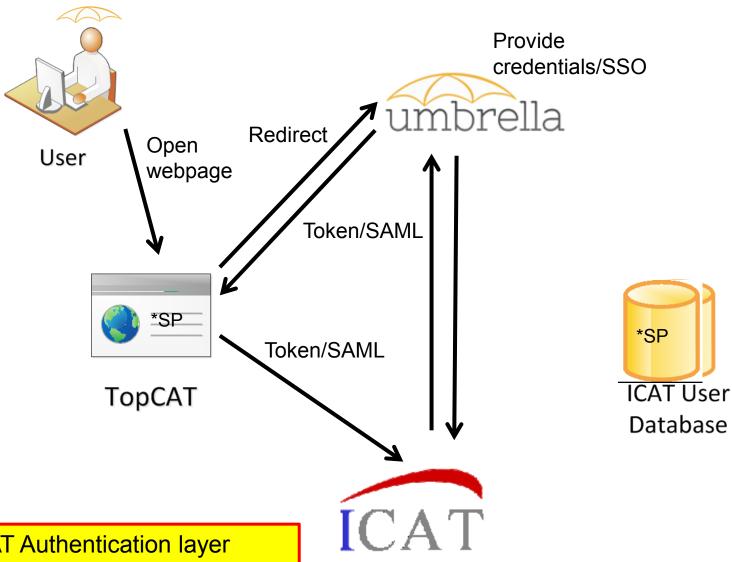


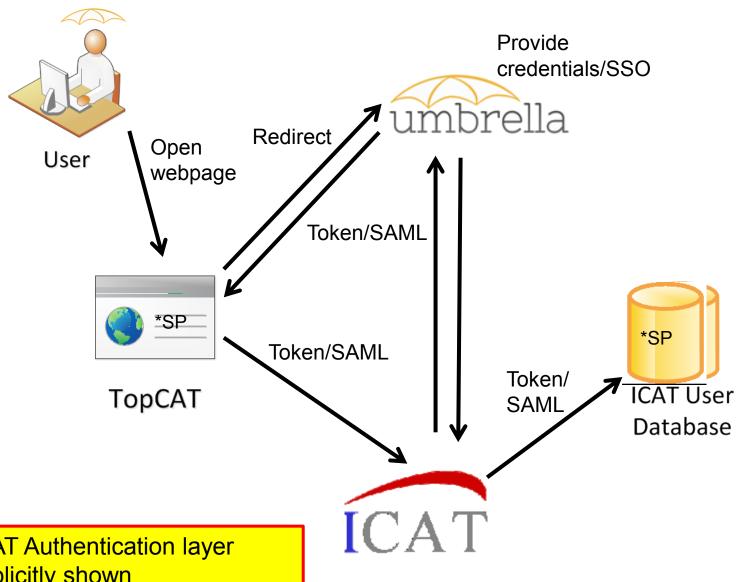


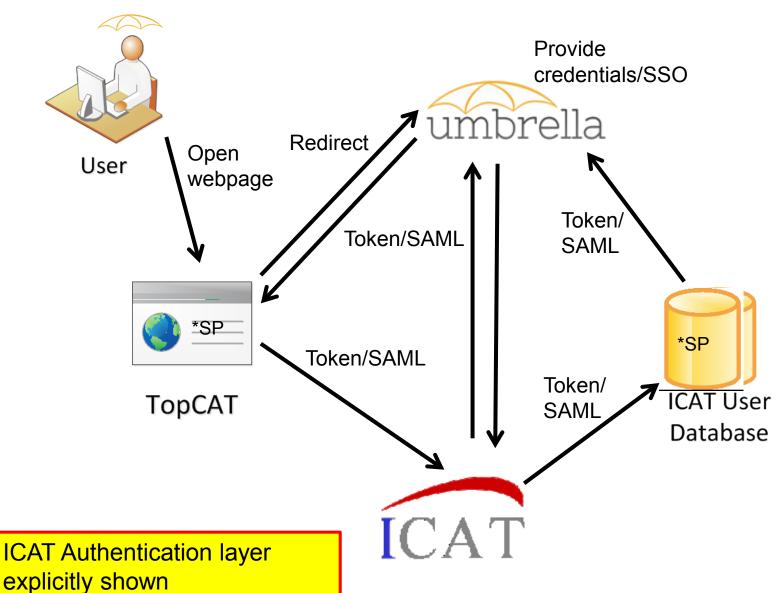


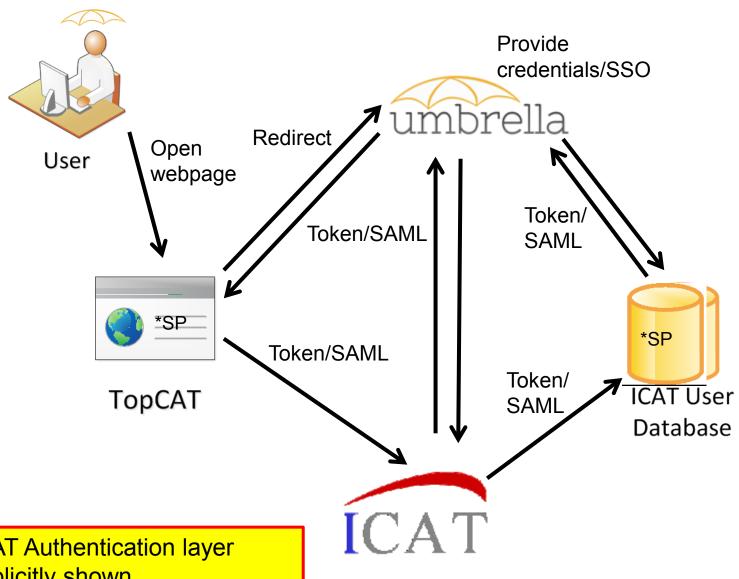


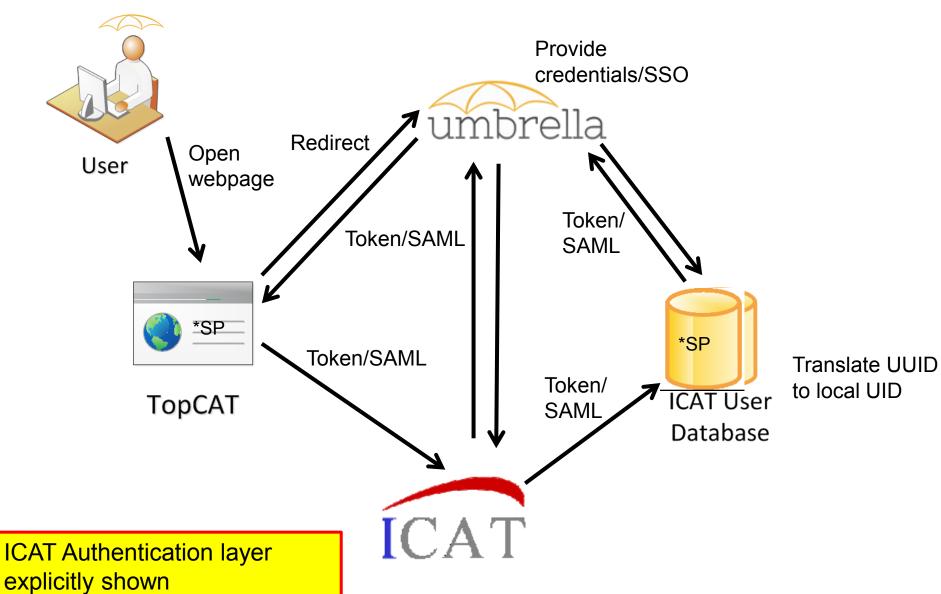


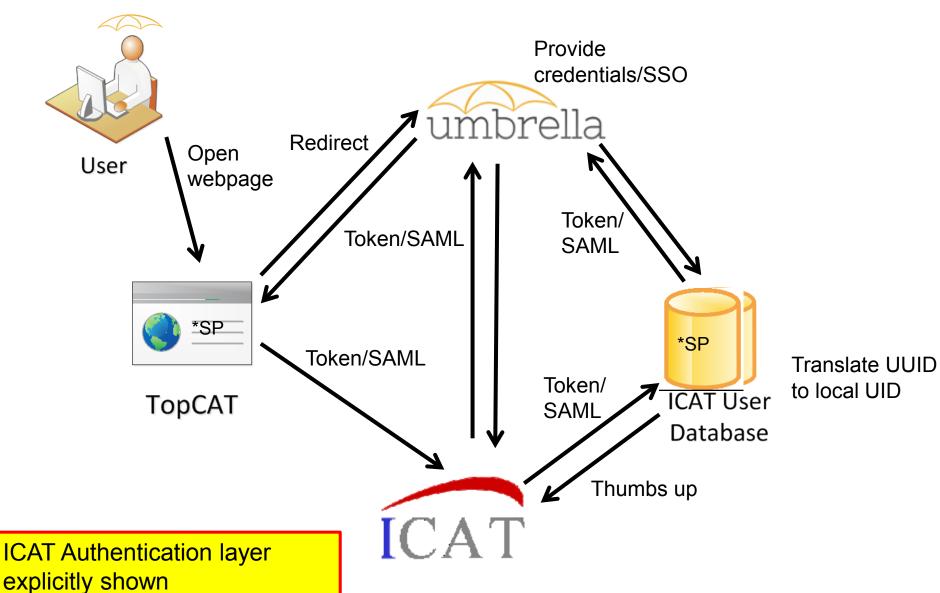


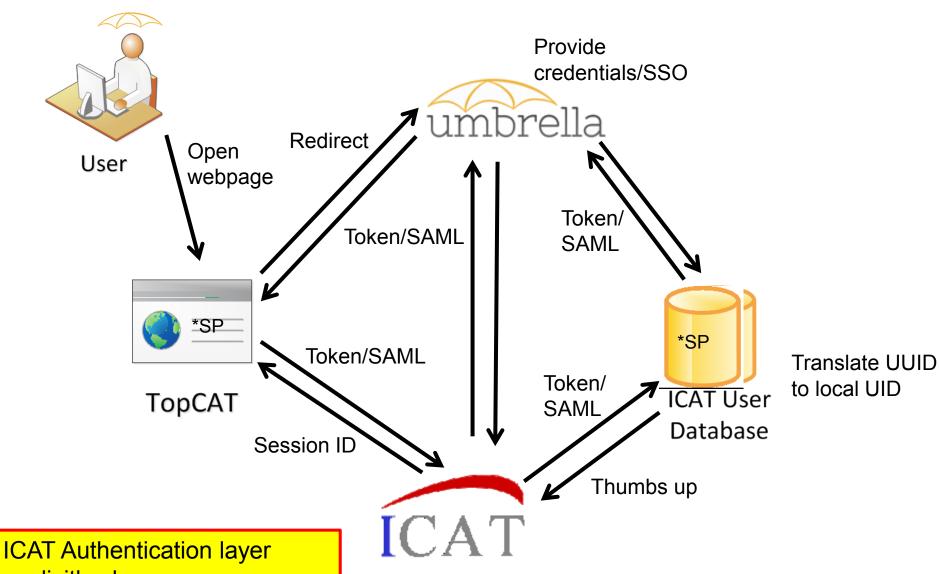




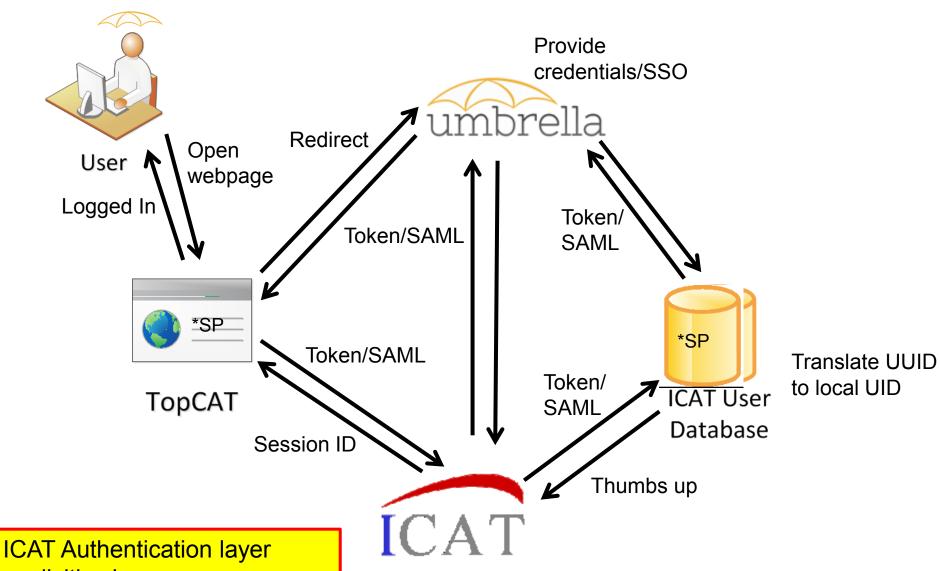








explicitly shown



explicitly shown

Summary

- Many options
 - Cheap and easy
 - More work, smoother experience
- ICAT db_authn can be modified to support 'toy' implementations with Umbrella
- Real world implementations always go via the user office



Questions...



