

Irvin Hayes Jr Product Manager

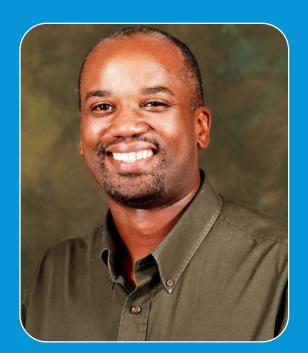
Join the conversation #AULondon



Irvin Hayes Jr.

- 26 years of IT Support and technical leadership
- Work with key customers or prospects to identify unsolved problems
- Assess and investigate different technologies to solve given market problems
- Lead user experience and development teams





"I am a person that is constantly driven by technology. Technology is a field I find completely exciting and I can't learn enough of it."



irvin.hayes@autodesk.com



@ihayesjr



https://www.linkedin.com/in/irvin-hayes-jr-294b255

Class summary

This class is essential for administrators who want to learn the different security models within Vault. The main focus of the class is to cover object and lifecycle level security. Learn how object level security sets or denies access to objects for users or groups. Learn how lifecycle security sets or denies access to objects based on the state of the object. Finally, learn how object and lifecycle state security are combined to work together to control object access, which is new in **Vault 2017**

Key Learning Objectives

At the end of this class, you will be able to:

- Configure object level security
- Configure lifecycle state level security
- Know how Object and Lifecycle level security work together
- Know how users are affected by the security settings





Object Security Types

- Access Control List (ACL)
- Role-based security
- Object-based security
- State-based security

Permission Precedence

- Deny
- Allow
- No permission



Roles and Permissions

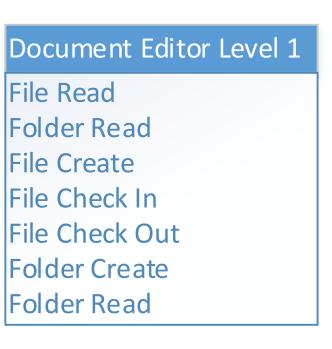
- A group of permissions
- Permissions to perform a specific task

Role	Details
Custom Object Consumer	Read-only access to Custom Objects only.
Custom Object Editor Level 1	Basic Custom Object adding and editing privileges within the vault, and add/remove Custom Object user-defined properties privileges. Cannot delete Custom Objects. Does not have administrative privileges on the server.
Custom Object Manager Level 1	Privileges to change category, lifecycle, and revision assignments, and to edit user-defined properties.
Document Consumer	Read-only access to files and folders only, including the job server queue.
Document Editor Level 1	Basic file adding and editing privileges within the vault, also add/remove file and folder user-defined properties, but cannot delete files and folders. No administrative privileges on the server.
Document Editor Level 2	Full privileges within the vault, also add/remove file and folder user-defined properties, but no administrative privileges on the server.
Document Manager Level 1	The privileges to change category, lifecycle, and revision assignments, and to edit user-defined properties.

Roles and Permissions

Multiple roles combine permissions









What is OBS?

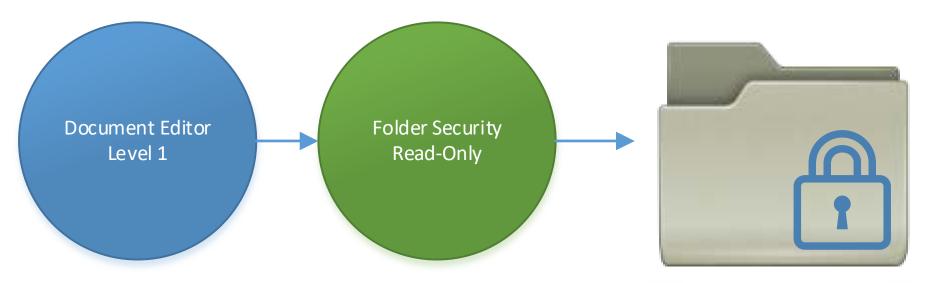
 ACL which controls whether the user can read, modify or delete the object

Permission	Access
Read	 Allow – grants Read permission on the object Deny – explicitly denies Read permission on the object. Null – implicitly denies Read permission on the object
Modify	 Allow – grants Modify permission on the object Deny – explicitly denies Modify permission on the object. Null – implicitly denies Modify permission on the object
Delete	 Allow – grants Delete permission on the object Deny – explicitly denies Delete permission on the object. Null – implicitly denies Delete permission on the object

Folder Security

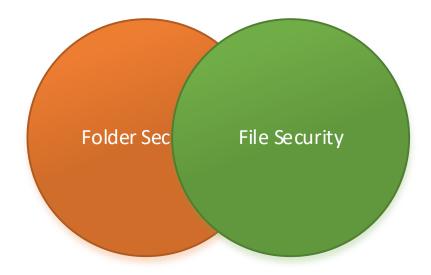
- Read, Modify & Delete
- Most Restrictive when combined

Permission	Access		
Read	 Allow – the folder and files in the folder can be viewed Deny - The folder and files in the folder cannot be viewed and this overrides any Read Allow permission. None - The folder and files in the folder cannot be viewed. 		
Modify	 Allow - The folder and files in the folder can be modified. Deny - The folder and files in the folder cannot be modified. This overrides any Modify Allow permission. None - The folder and files cannot be modified. 		
Delete	 Allow - The folder and files can be deleted. Deny - The folder and files cannot be deleted. This overrides any Delete Allow permission. None - The folder and files cannot be deleted. 		



File Security

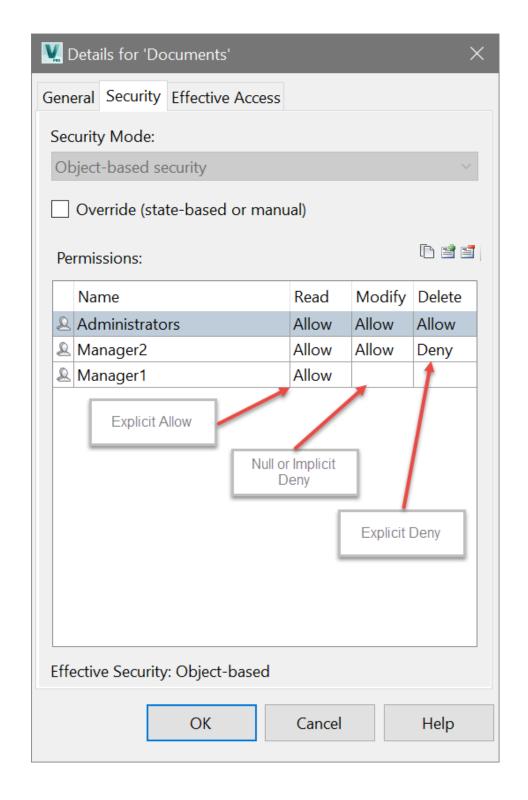
Permission	Access
Read	 Allow - Files can be viewed. Deny - Files cannot be viewed. This overrides any Read Allow permission. None - Files cannot be viewed.
Modify	 Allow - Files can be modified. Deny - Files cannot be modified. This overrides any Modify Allow permission. None - Files cannot be modified.
Delete	 Allow - Files can be deleted. Deny - Files cannot be deleted. This overrides any Delete Allow permission. None - Files cannot be deleted.



Overridden Security

Implicit or Explicit Deny

- Null Implicit Deny until granted
- Deny Explicit Deny
 - Takes precedence over grants



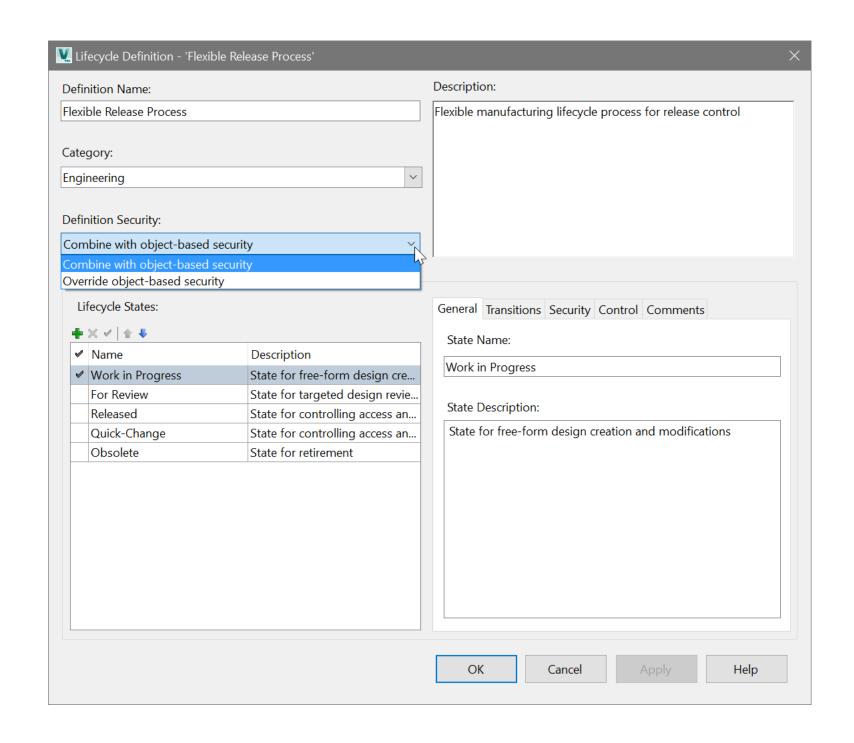


State-based Security

- Security based on State
- Each State security can be different

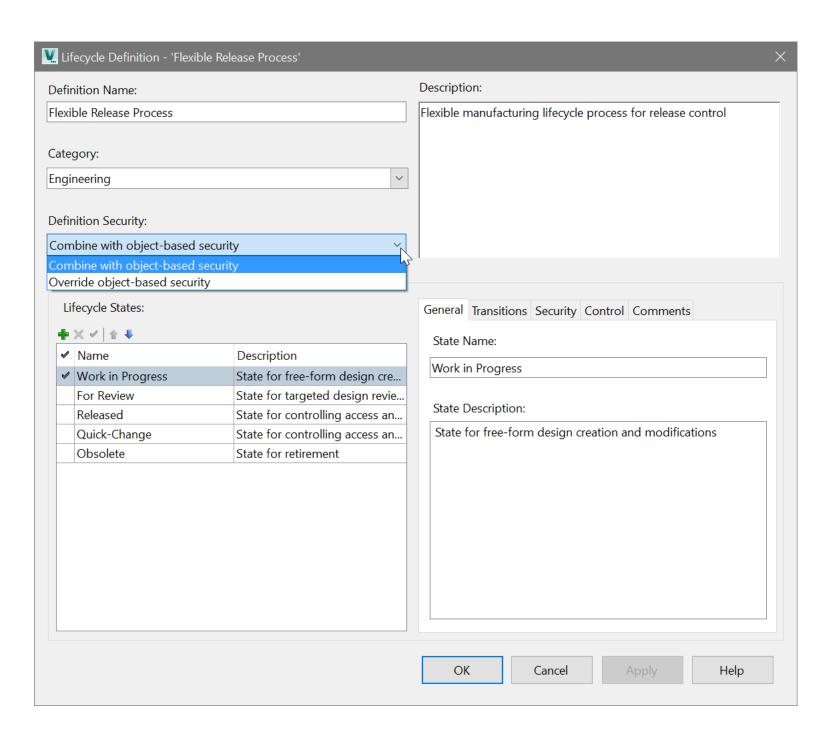
Security Options

- Combine
- Override



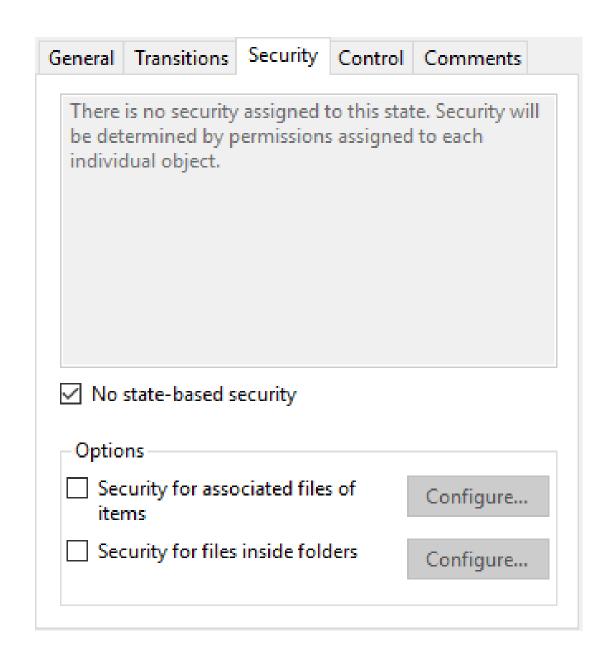
State-based Security

- Migrated definitions (Override) by default
- New definitions (Combined) by default



Security Options

- No state-based security
- Security for associated files of items – security set on the file's SBS
- Security for files inside folders –
 security set on the file's SBS







Role



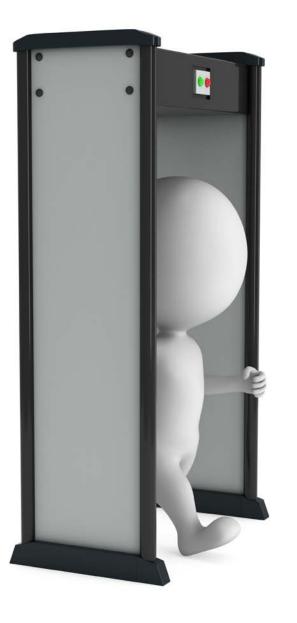




OBS







Role

OBS

SBS



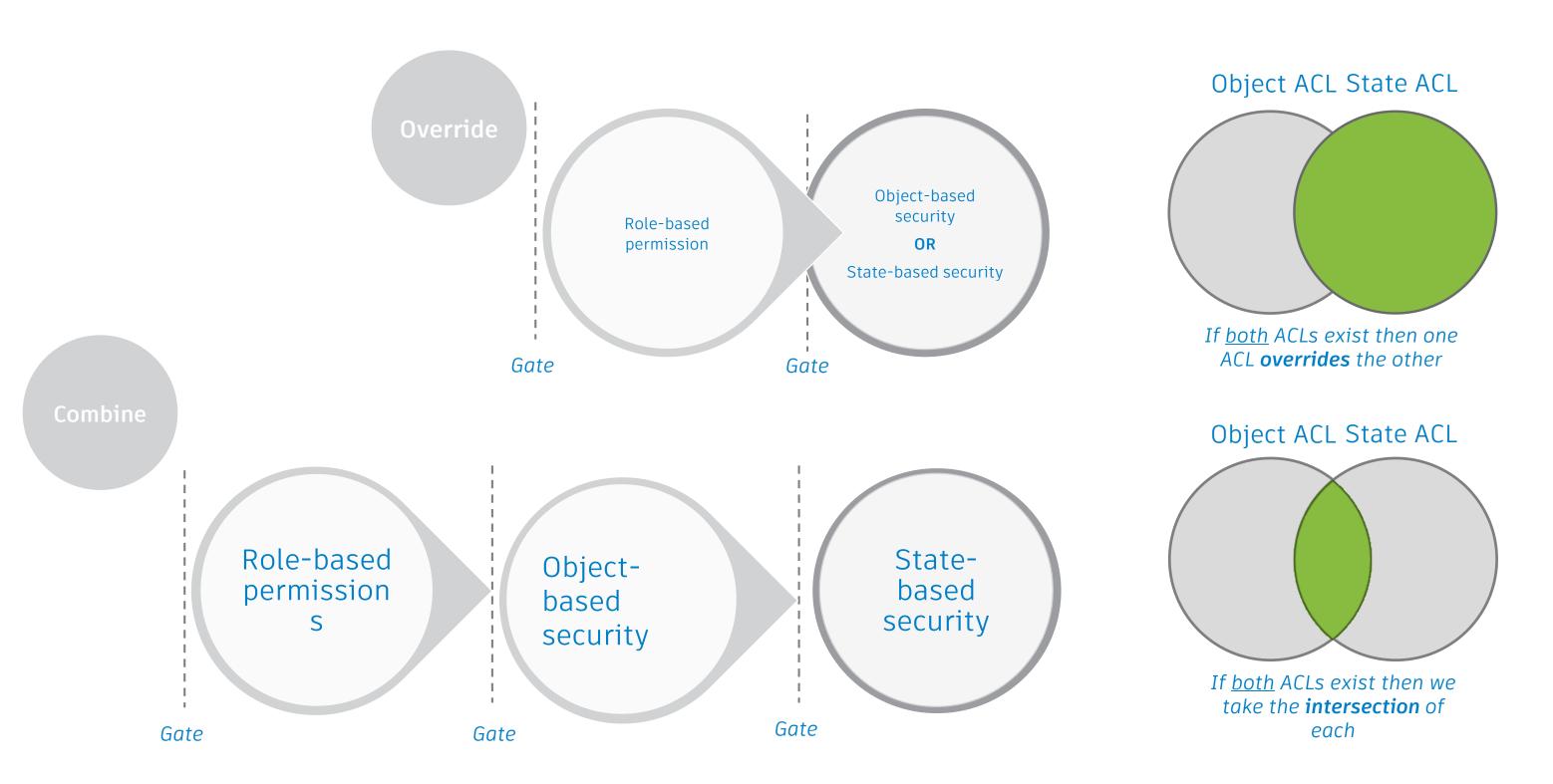






OBS\SBS

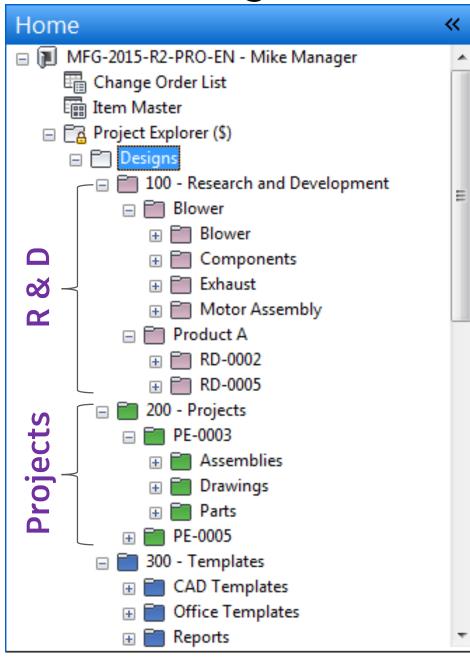
Security Paradigms



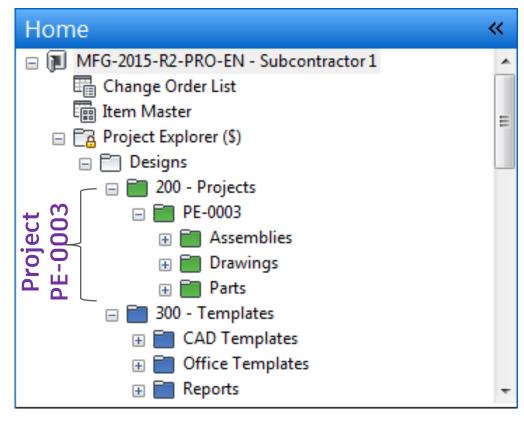
Object -based	State-Based	Effective Permission
Allow	Allow	Allow
Deny	Deny	Deny
Deny	Allow	Deny*
Null	Deny	Deny
Allow	Null	Deny
Null	Null	Deny
Null	Allow	Deny*
Allow (Group A)	Allow (Group B)	Allow* (intersect group)

Contractors with Strong Relationship

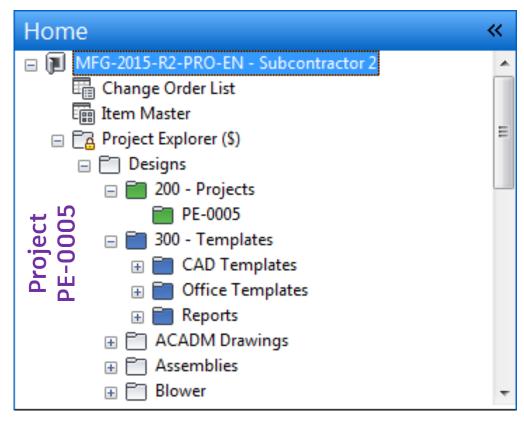
Mike Manager Access



Contractor 1 Access



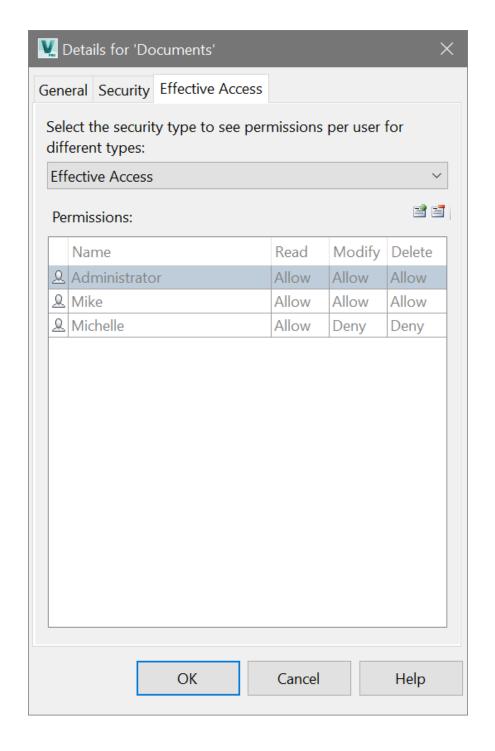
Contractor 2 Access





Effective Access

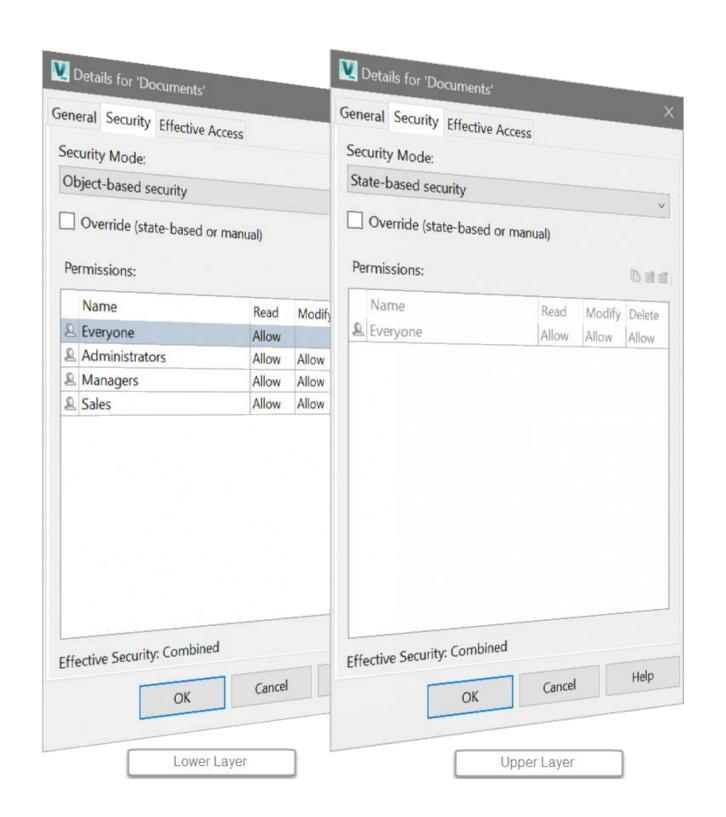
- See User Permissions
- Test Effects of Changes





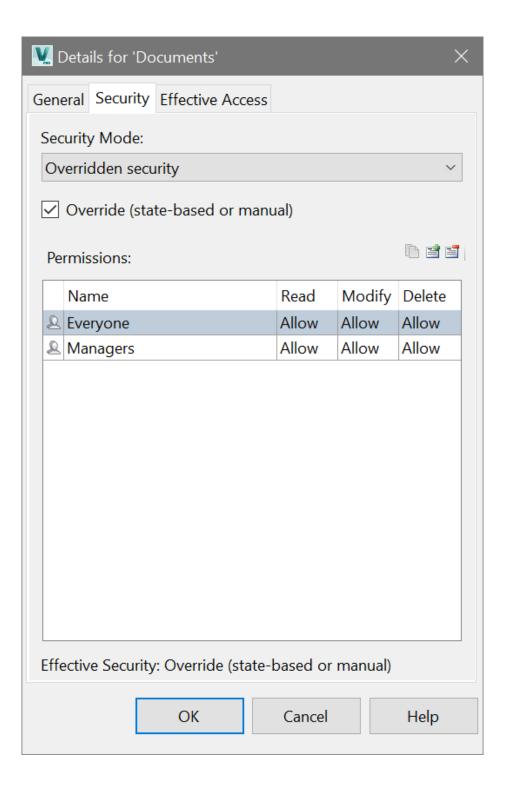
Overriding Security

- Security in layers
- OBS Lower Layer
- SBS\Overrides Upper Layer



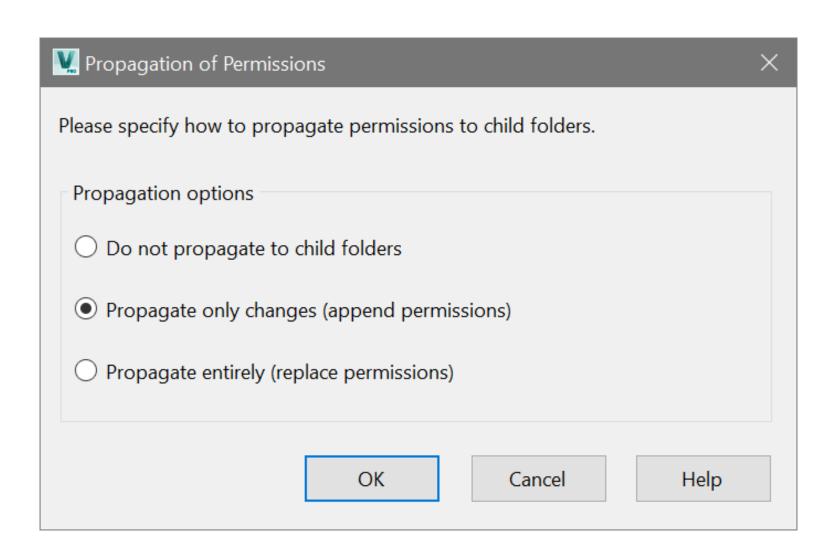
Overriding Security

- Select model to override
- Model ACL copied
- Override sits in Upper Layer



Overriding Security & Security Propagation

- Propagated to Lower Layer
- Upper Layer isn't changed



Summary

You now know how:

- To configure object level security
- To configure lifecycle state level security
- Object and Lifecycle level security work together
- Users are affected by the security settings

Related Classes

- PL11233 Behaviors 201 for Padawan Learners
- PL10597 Behaviors 101 for Younglings
- PL11664 Behaviors 301 for the Jedi Master
 - <u>PL2082 The Rock, Paper, Scissors of Autodesk Vault</u> <u>Security</u>





Make anything.

Autodesk and the Autodesk logo are registered trademarks or trademarks of Autodesk, Inc., and/or its subsidiaries and/or affiliates in the USA and/or other countries. All other brand names, product names, or trademarks belong to their respective holders. Autodesk reserves the right to alter product and services offerings, and specifications and pricing at any time without notice, and is not responsible for typographical or graphical errors that may appear in this document.

© 2017 Autodesk. All rights reserved.

