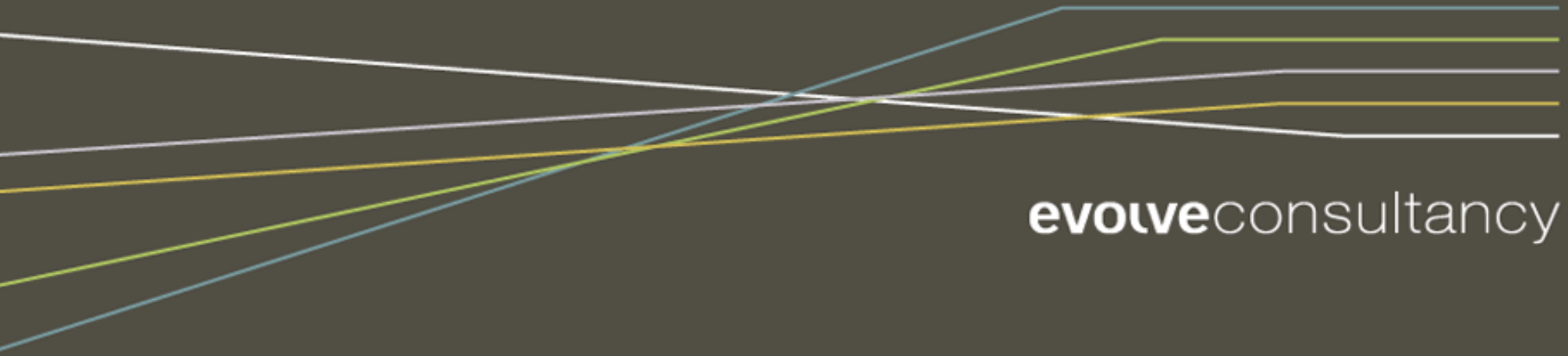

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THE COMMON DATA ENVIRONMENT

Nigel Davies, Director

WHO ARE WE?

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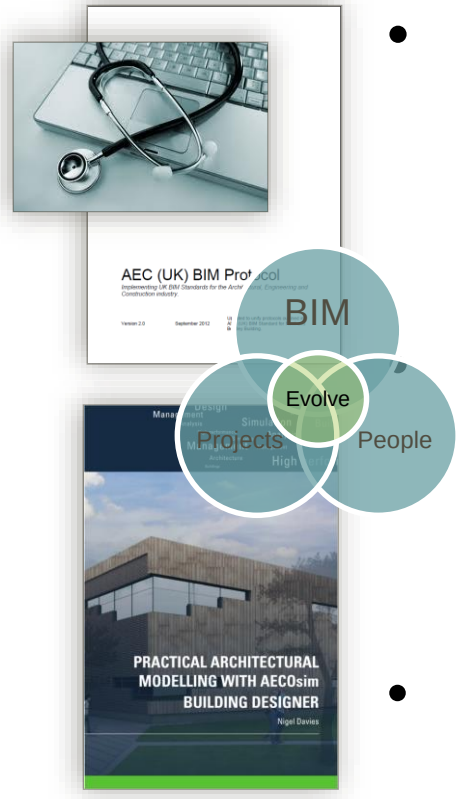

- Nigel Davies @NigelPDavies
  - 20+ years' experience in Engineering and Architecture
  - Chair of the AEC (UK) CAD & BIM Protocols
  - Steering committee for PAS1192-2

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- CAD & BIM Management Services
- Technology integration
- Project support & mentoring

- Bennetts Associates, John McAslan + Partners, Marks Barfield, RSH+P, Tideway, Wilkinson Eyre…

EDMS

3.13 common data environment (CDE)

single source of information for any given project, used to collect, manage and disseminate all relevant approved project documents for multi-disciplinary teams in a managed process

NOTE *A CDE may use a project server, an extranet, a file-based retrieval system or other suitable toolset.*

Collaboration

kəlabəˈreɪʃn/

noun

“the action of working with someone to produce something”

“traitorous cooperation with an enemy”

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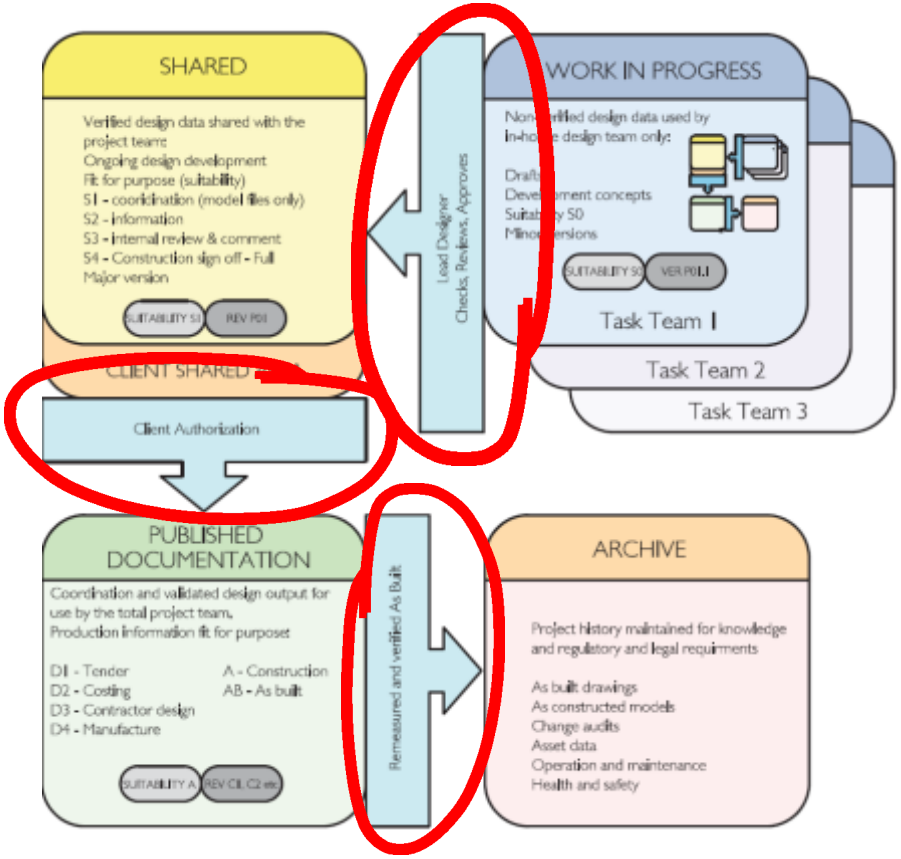
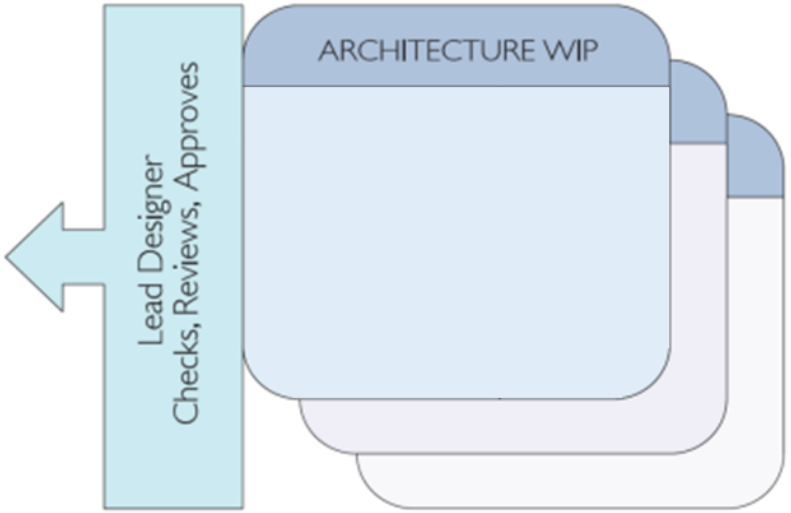


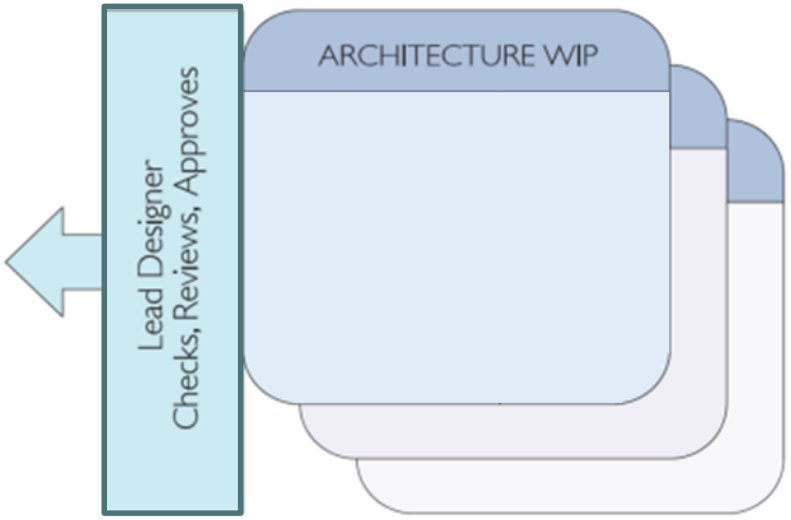
WIP

- Where is it?
  - Local server
- What is it?
  - Uncontrolled project information



WIP

- Checks, Reviews, Approves
- Model Validation Check
- How do you sign off a model?
- When does a model need to be approved?



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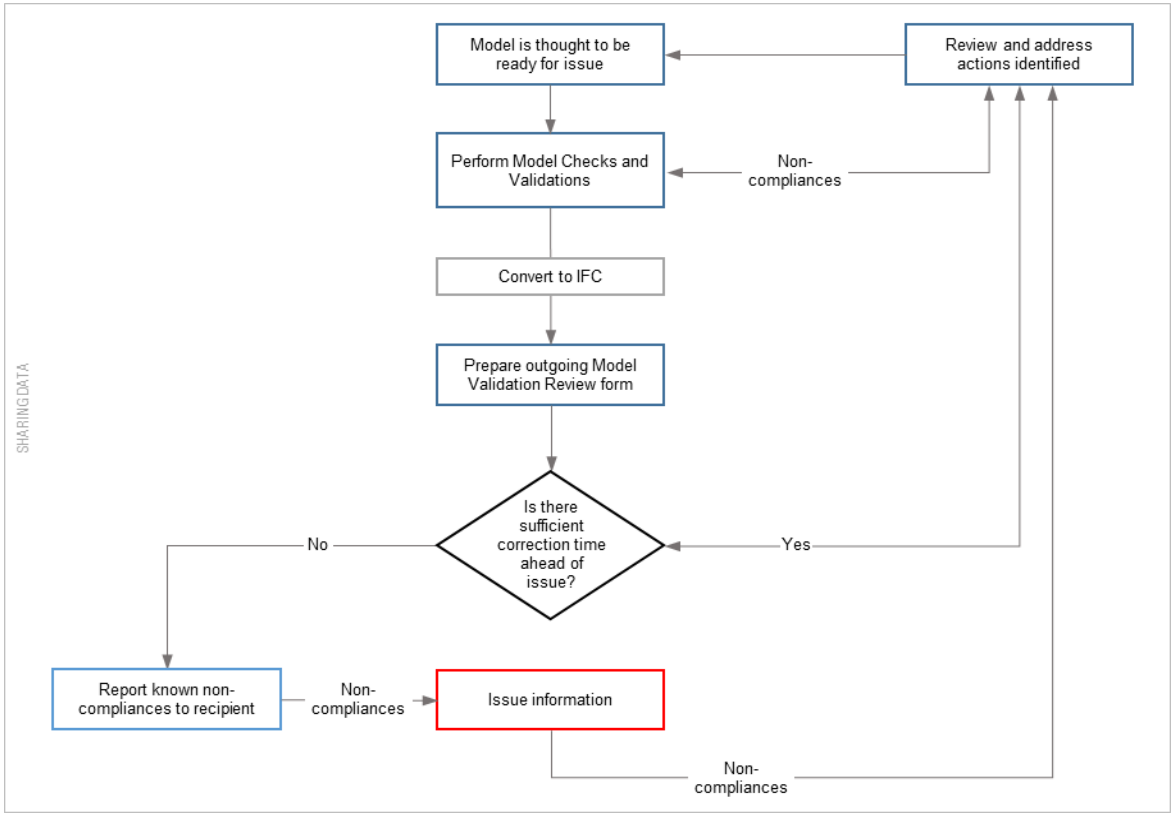

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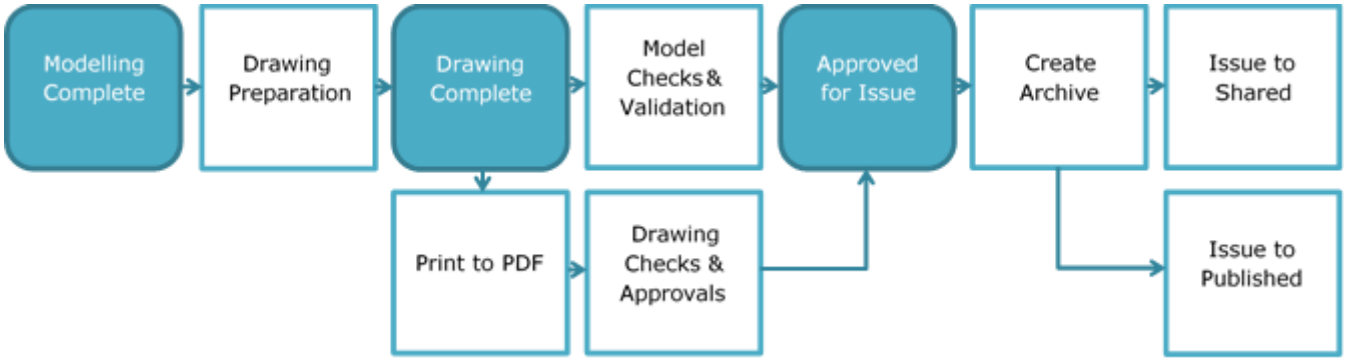

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IFC MODEL VALIDATION REVIEW

CLIENT PROJECT REFERENCE

VALIDATION REVIEW

In preparation for using [illegible] models, either to be [illegible] collaboration purposes or linking/referencing an incoming model, a validation review should be conducted in order to determine if the model is fit for purpose.

The checklist below is a tool that should be used in combination with experience and common sense to determine if the model should be accepted or rejected for sharing or use in the project.

The Employers Information [illegible]ents, BIM Execution Plan, project stage, purpose of the model and previous issues/revisions should be taken in to account during the validation process.

REFERENCE	CRITERIA	COMMENTS	COMPLIANT
1.00	MODEL SET UP		
1.01	Is the model file named correctly?	[illegible]	Yes/No.
1.02	Is there only one model in ea[illegible]	[illegible]	Yes/No.
1.03	Is the [illegible] drawi[illegible] [illegible]ect coordinate [illegible]?	[illegible] enter comment.	Yes/No.
1.04	Is th[illegible]ze below [illegible] [illegible] EIR/BEP?	Click here to enter comment.	Yes/No.
[illegible]	[illegible] Data [illegible]) suitable for the purpose of the [illegible]del? ([illegible]	Click here to enter comment.	Yes/No.
[illegible]	[illegible] the Level of Information (LOI) suitable for the purpose of the 3D model? (refer to the BEP)	Click here to enter comment.	Yes/No.

3 of 5

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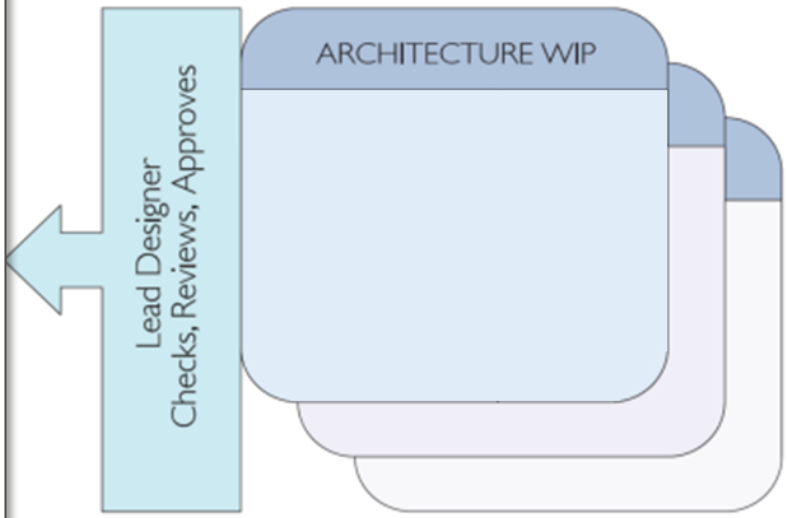
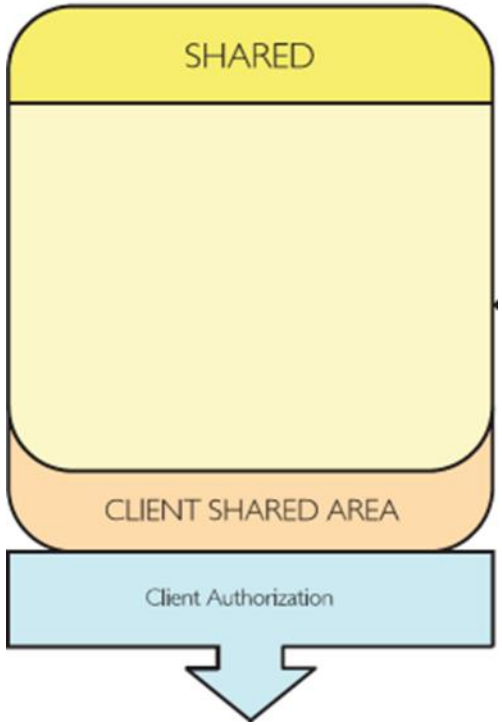


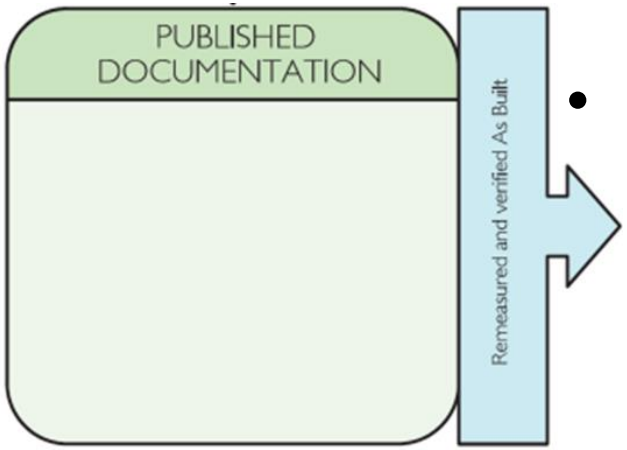


SHARED

- Where is it?
  - In the cloud?
  - Distributed local servers?
- What is it?
  - Approved for sharing with the project team
  - Native file formats
    - Issued as separate references, not “flattened” drawings

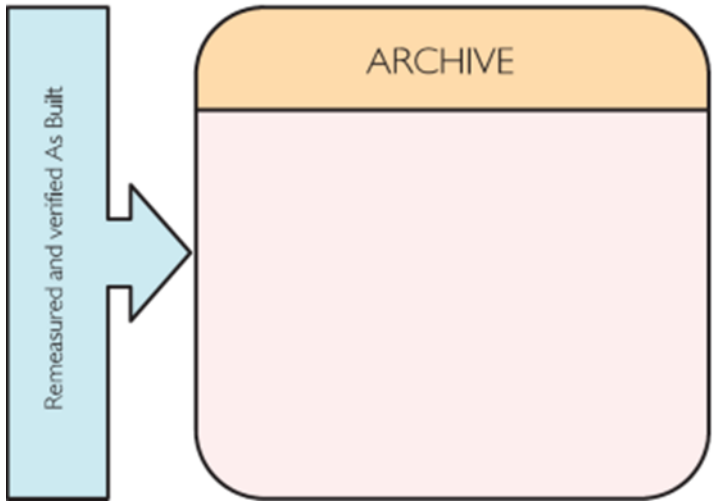
PUBLISHED

- Where is it?
  - In the cloud?
  - Client server?
  - Distributed local servers?
- What is it?
  - Approved drawing files (+ models if agreed)
  - Drawing renditions (e.g. PDF)
  - Produced from Shared files



ARCHIVED

- Where is it?
  - Multiple locations
  - Project archive does not negate need for local or “WIP” archives
- What is it?
  - Audit tracking & project analysis
  - All relevant handover data
    - All “decision making documents”



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- *[Project Folder]*
  - BIM
    - **01-WIP**
      - CAD
      - BIM
      - SheetFiles
      - Export
      - Families
      - WIP_TSA
    - **02-Shared**
      - CAD
      - BIM
      - CoordModels
    - **03-Published**
      - + YYYYMMDD-Description
      - + YYYYMMDD-Description
    - **04-Archived**
      - + YYMMDD-Description
      - + YYMMDD-Description
    - **05-Incoming**
      - Source
        - + YYYYMMDD-Description
      - + Source
    - **06-Resource**
      - + Titleblocks
      - + Logos
      - + Standards

- Does not need to be an extranet
- Does not need to be costly

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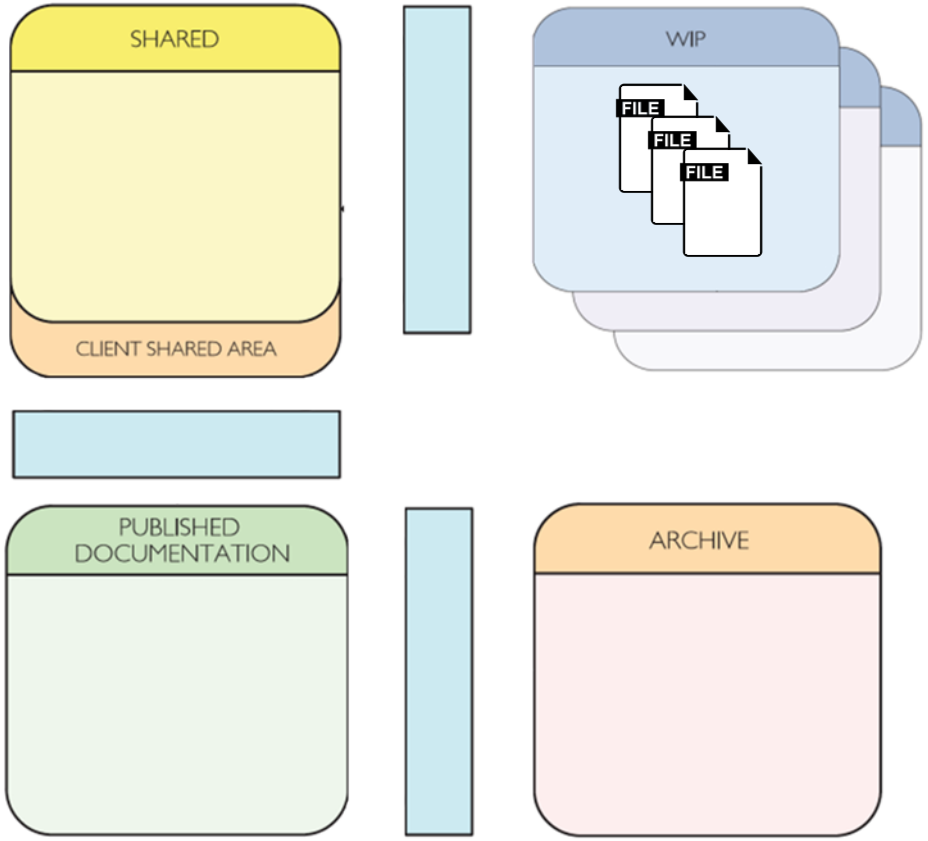

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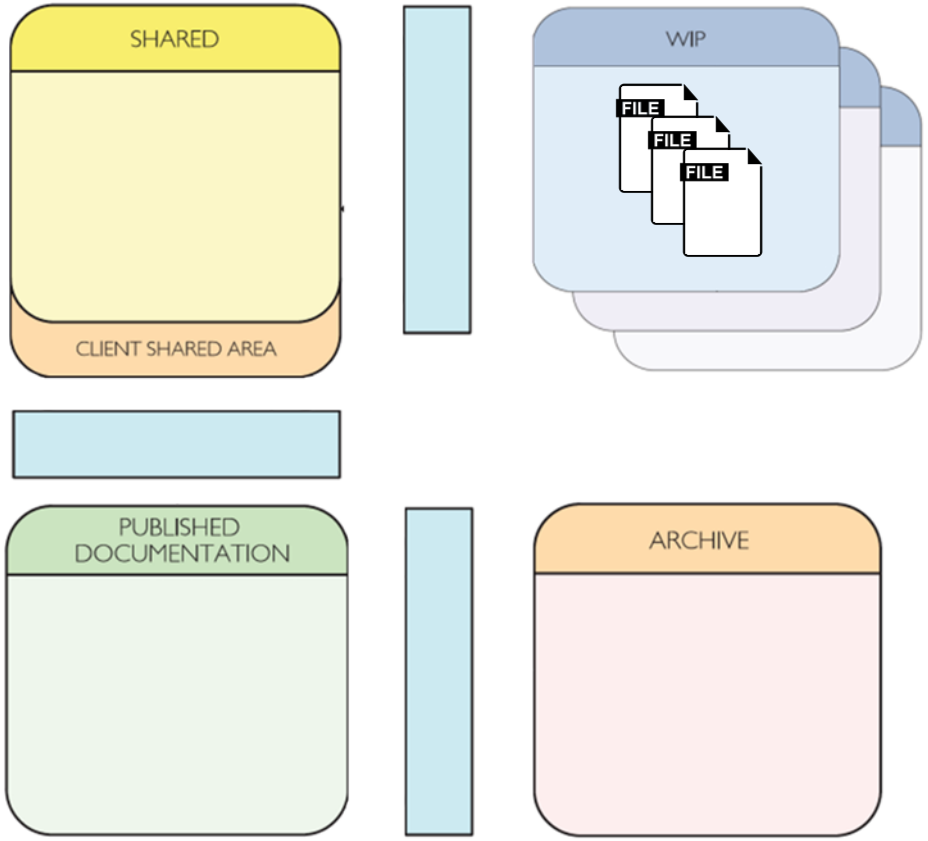

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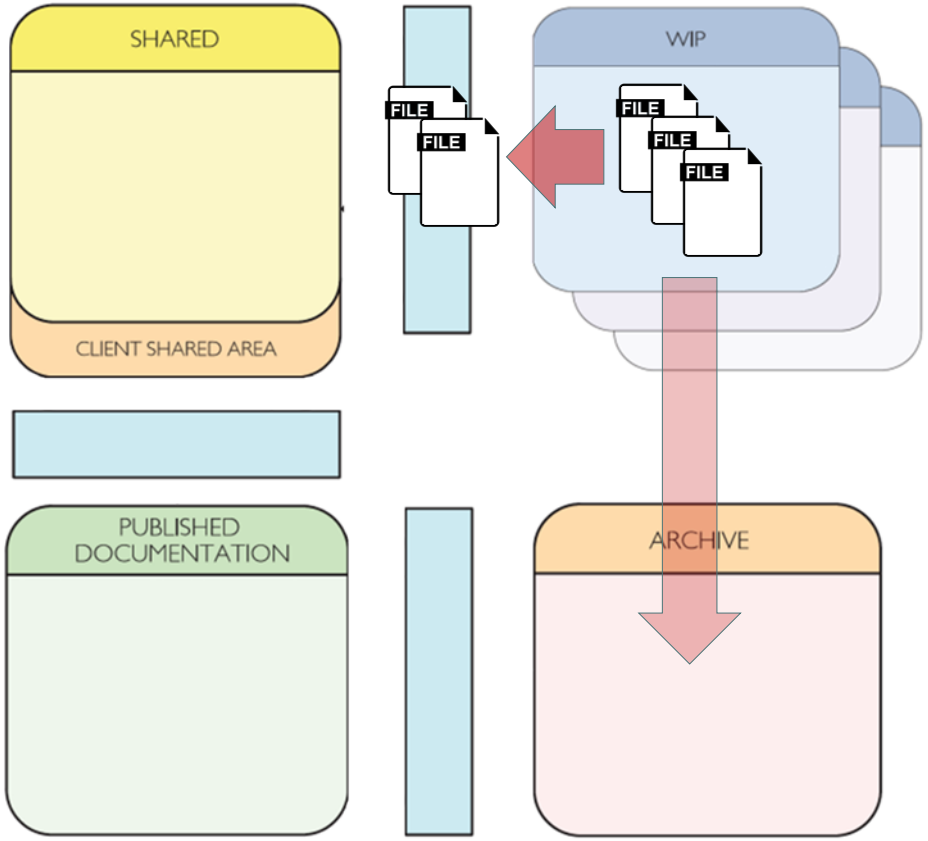

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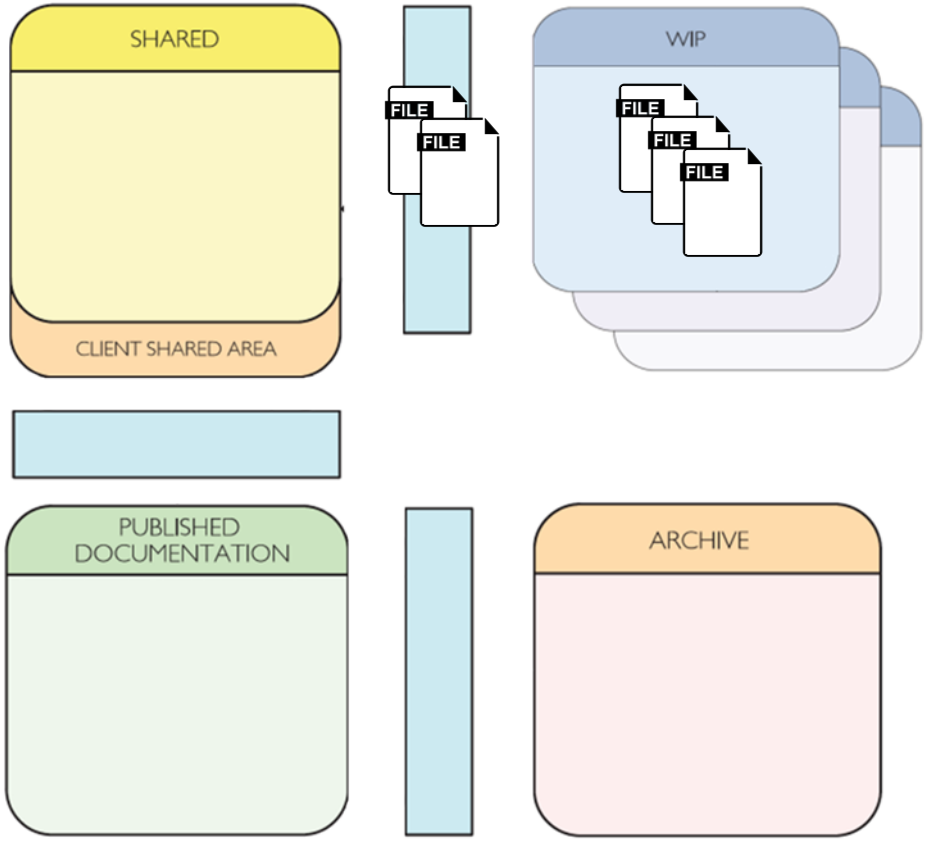

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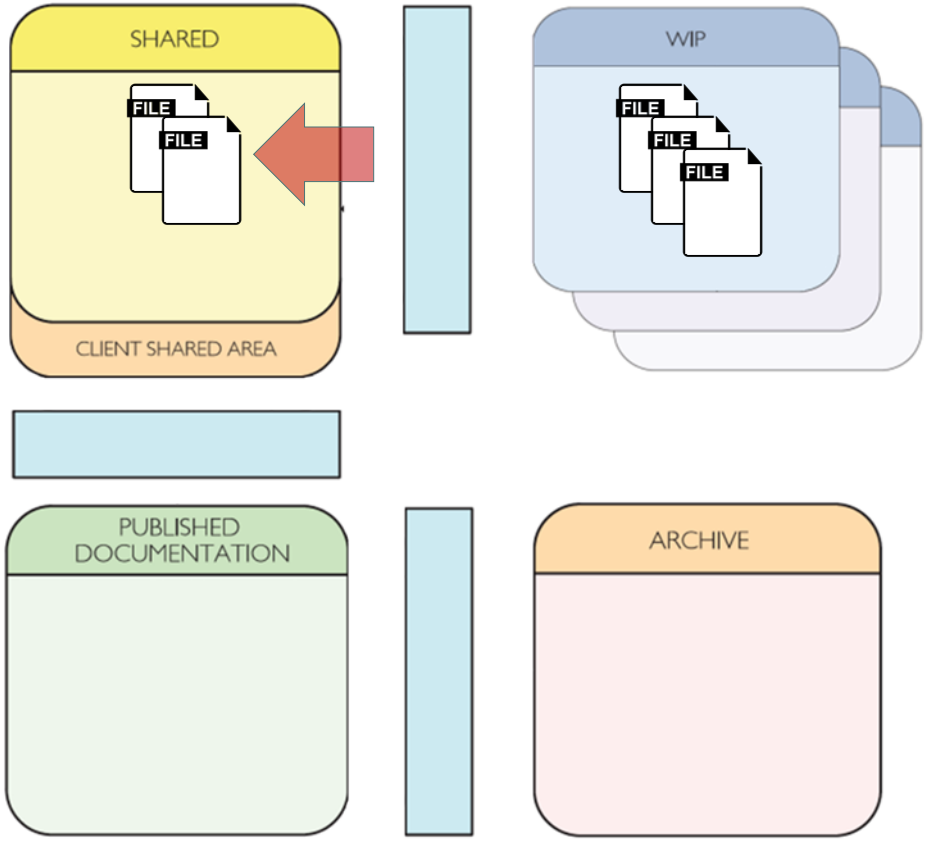

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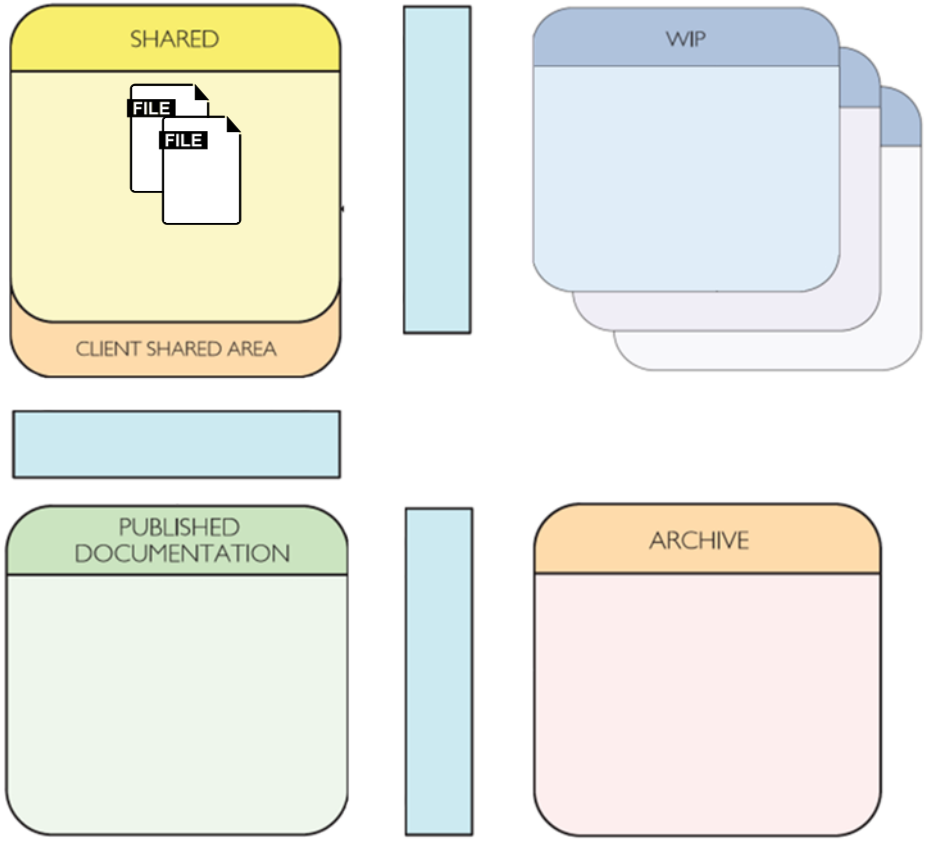

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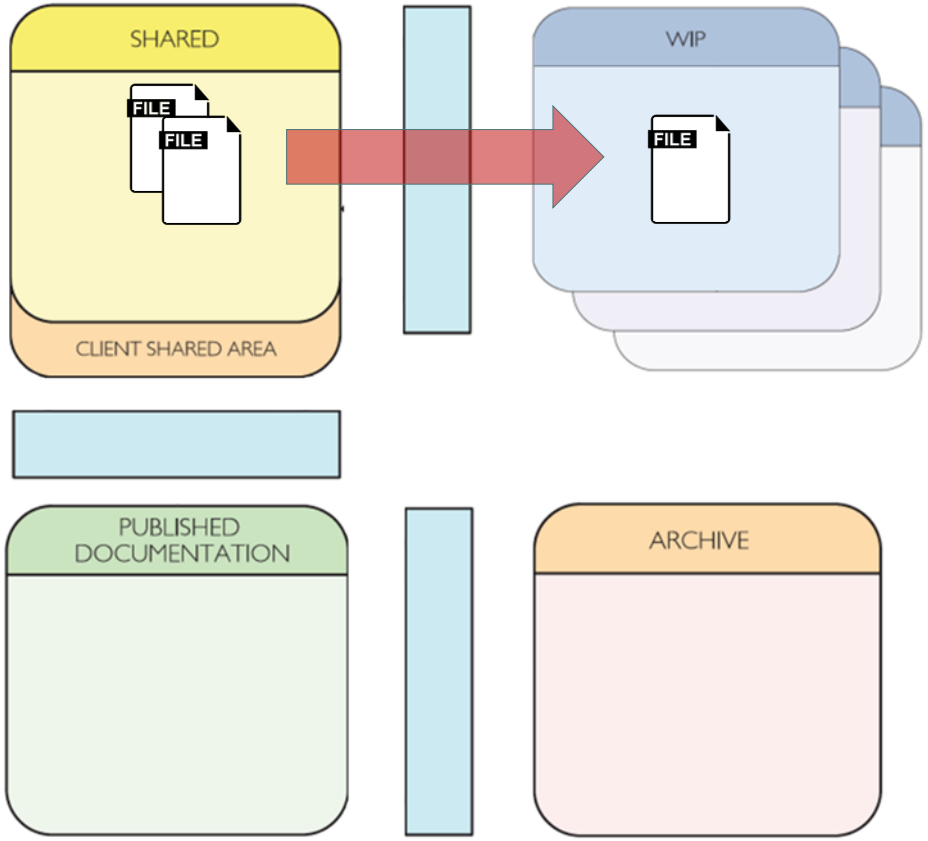

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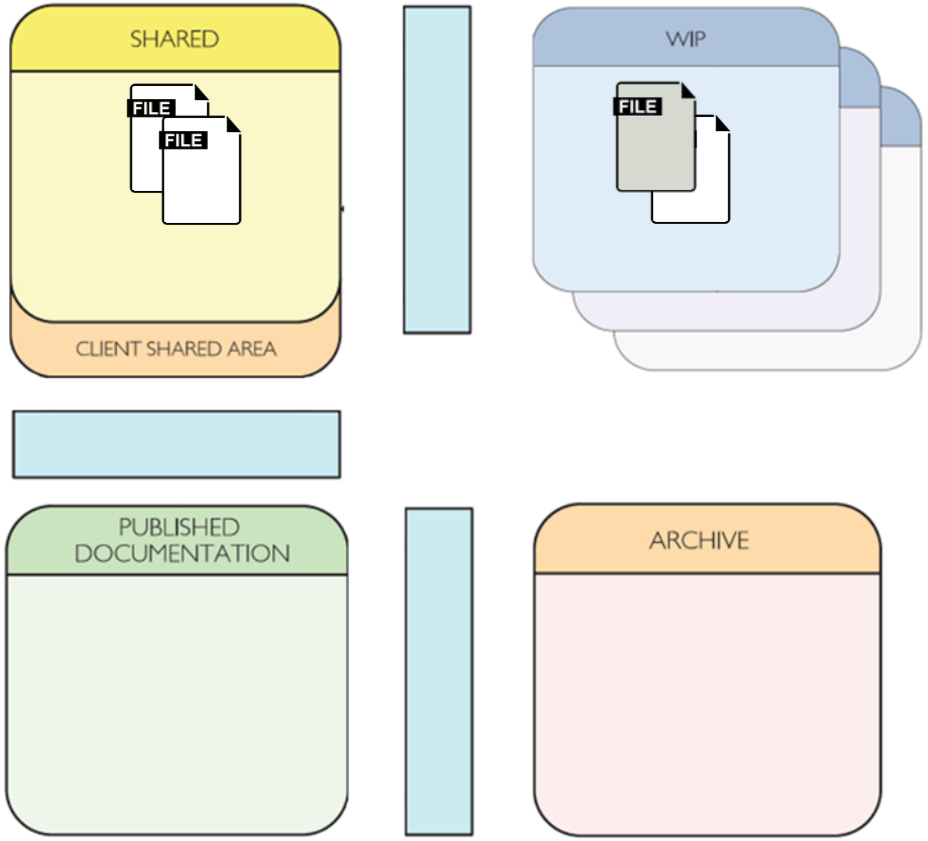

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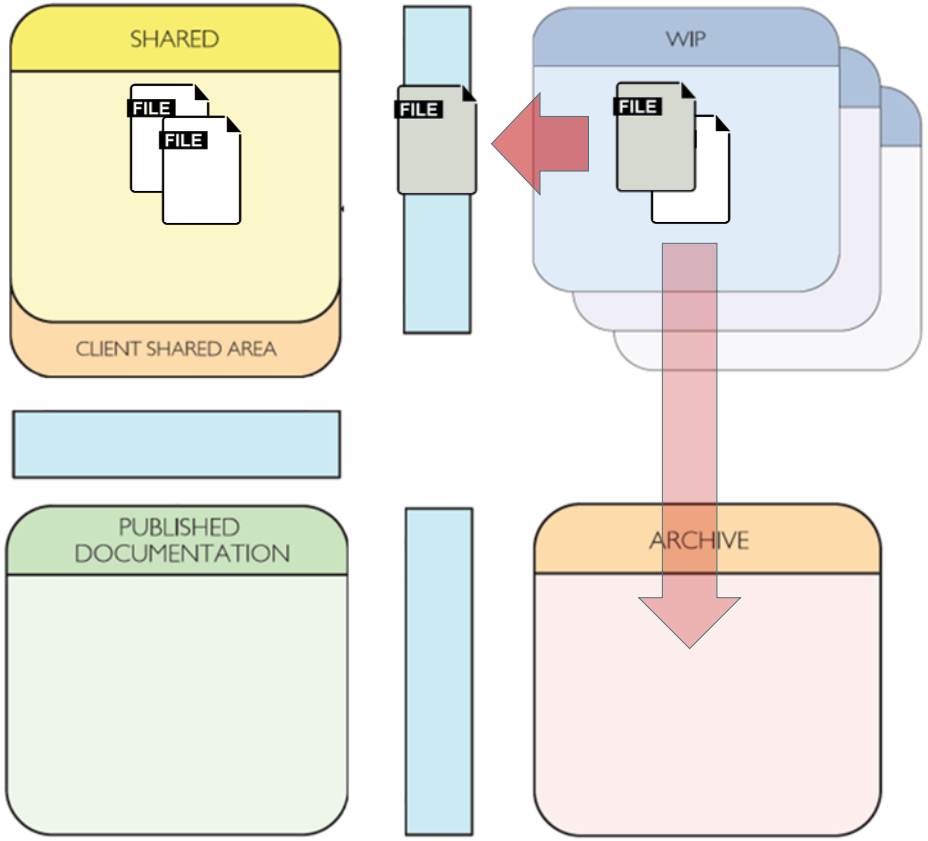

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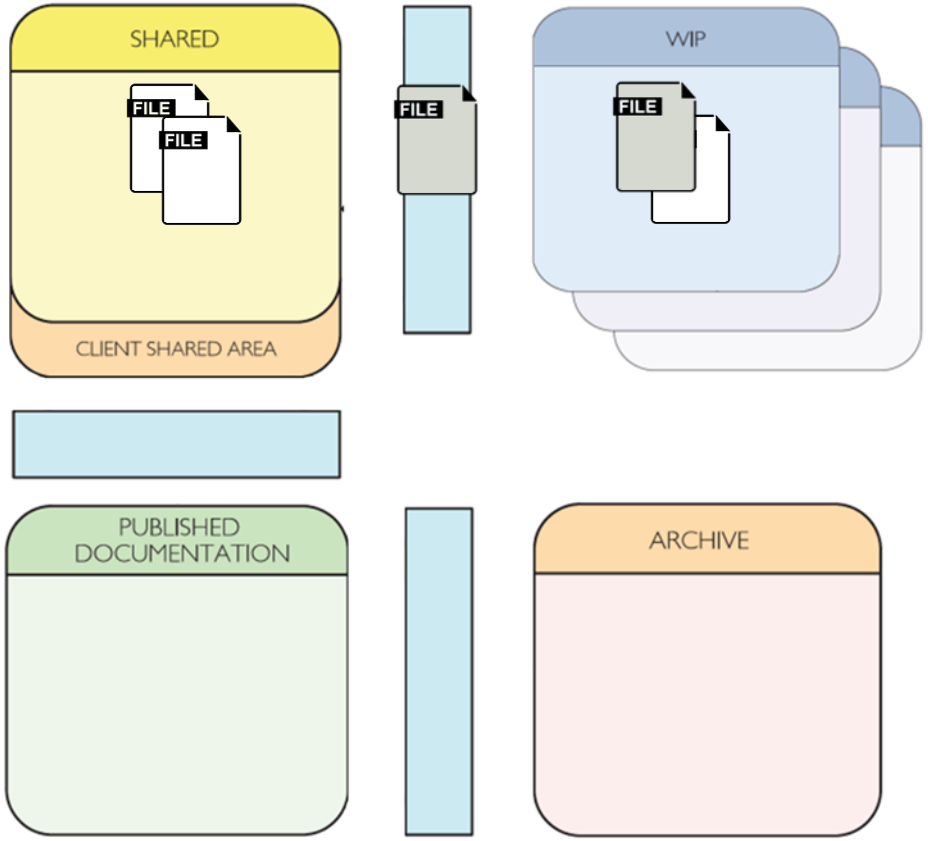

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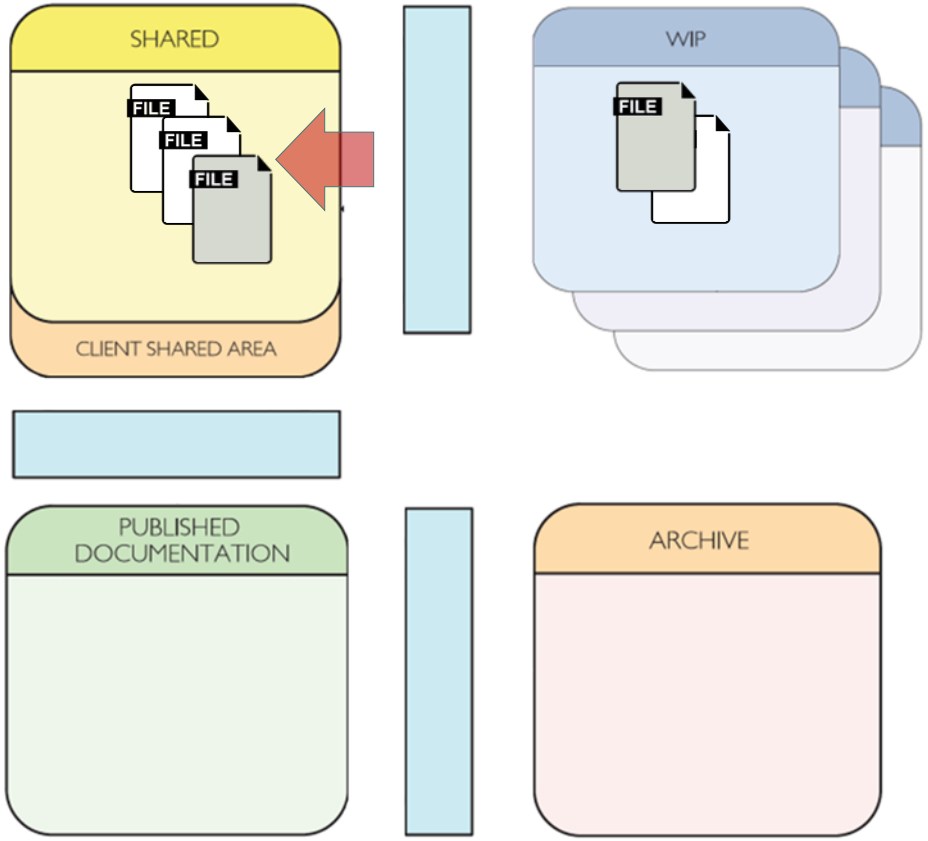

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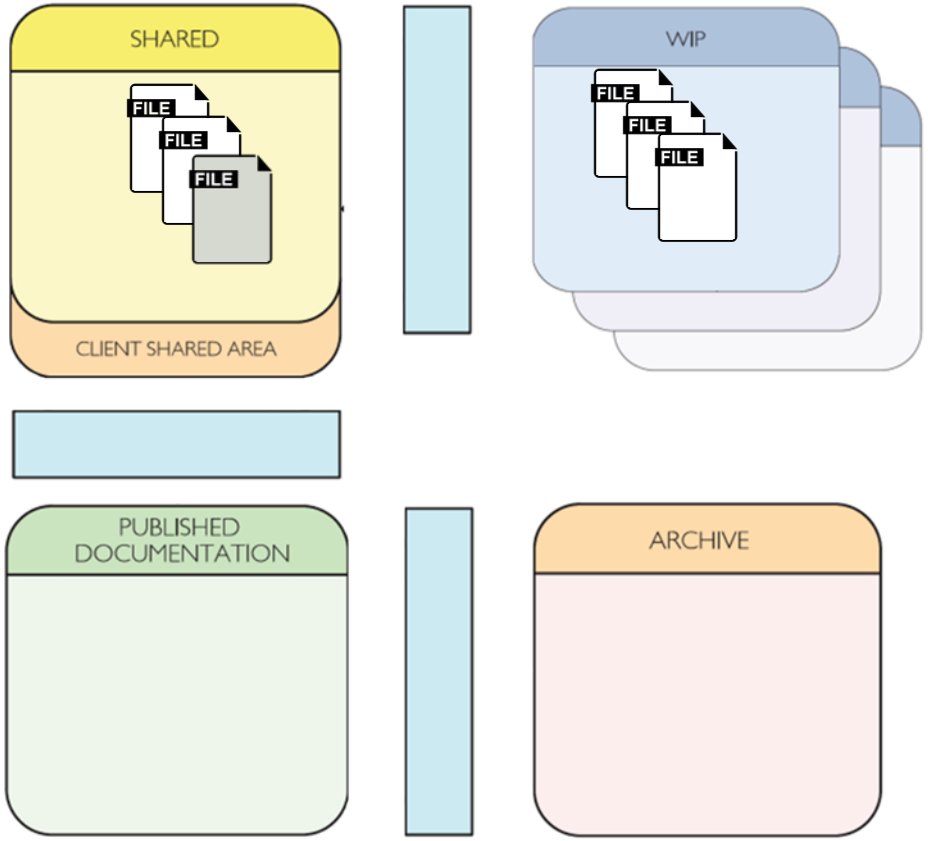

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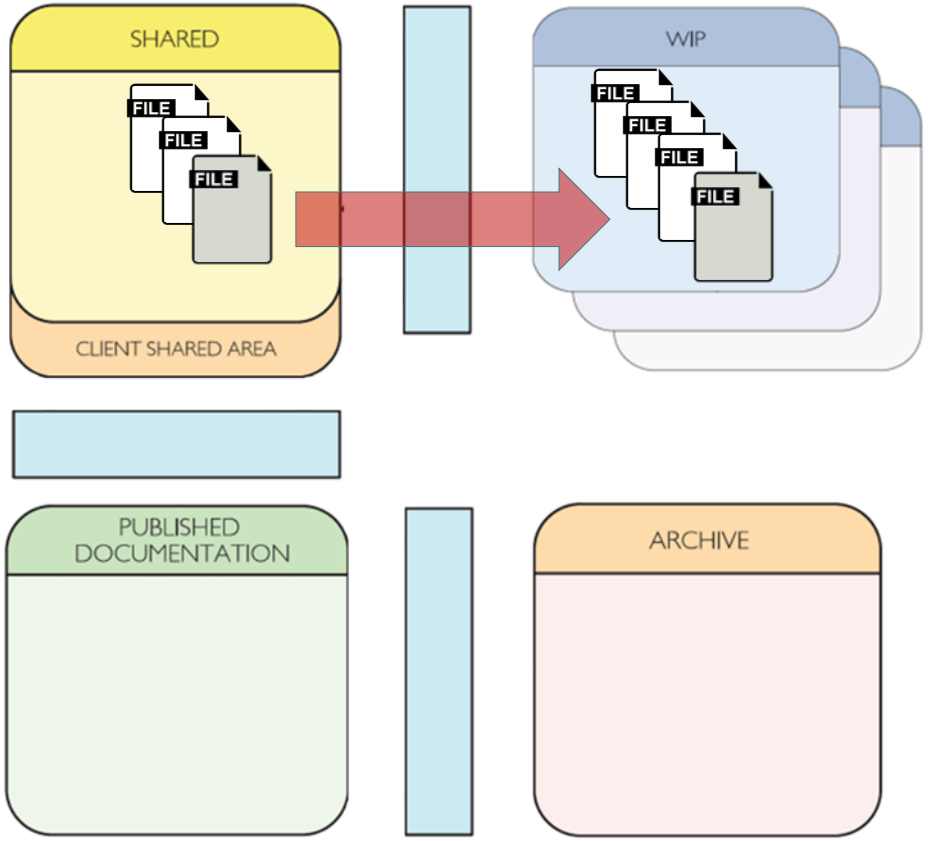

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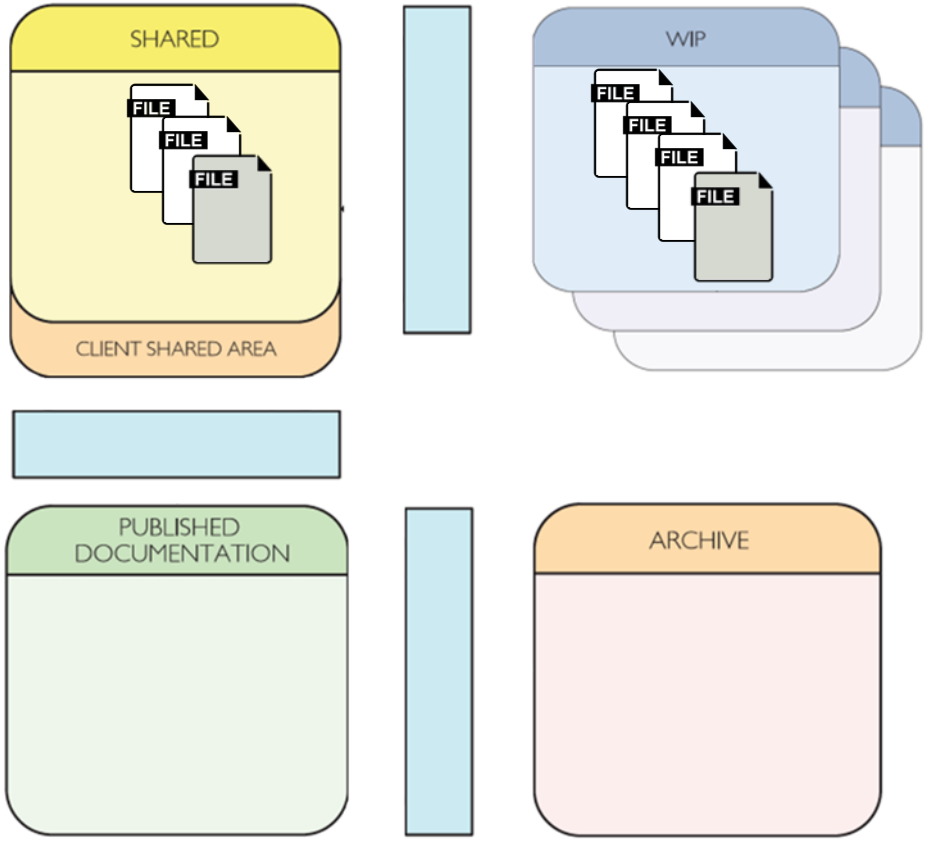

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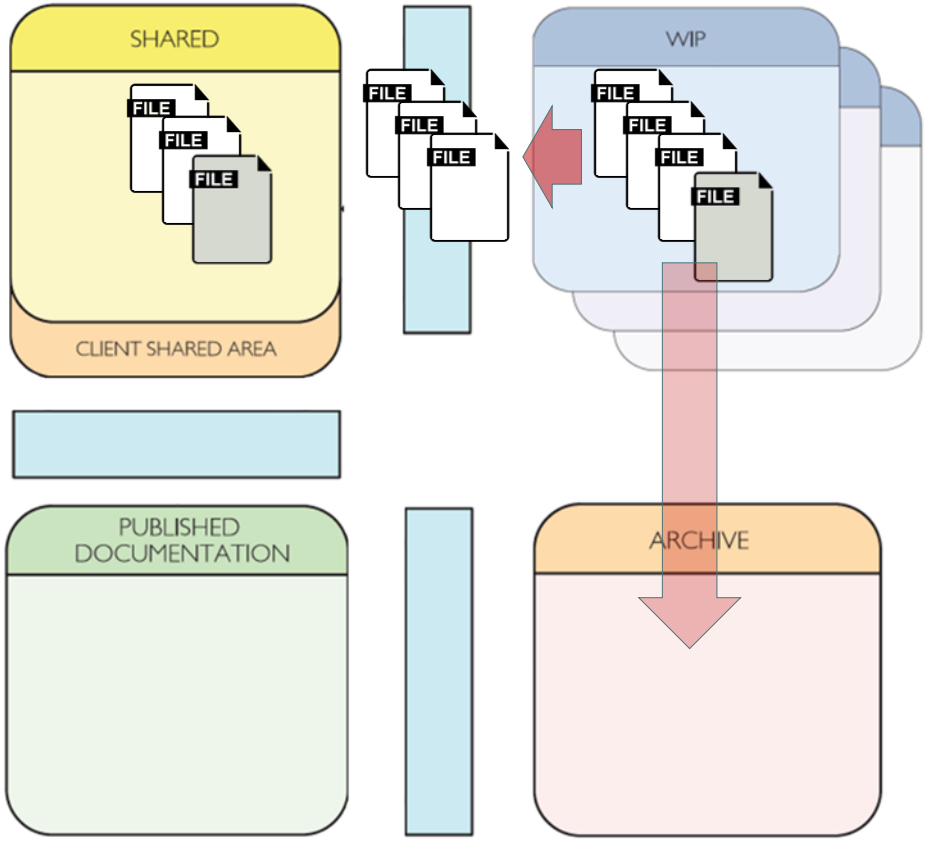

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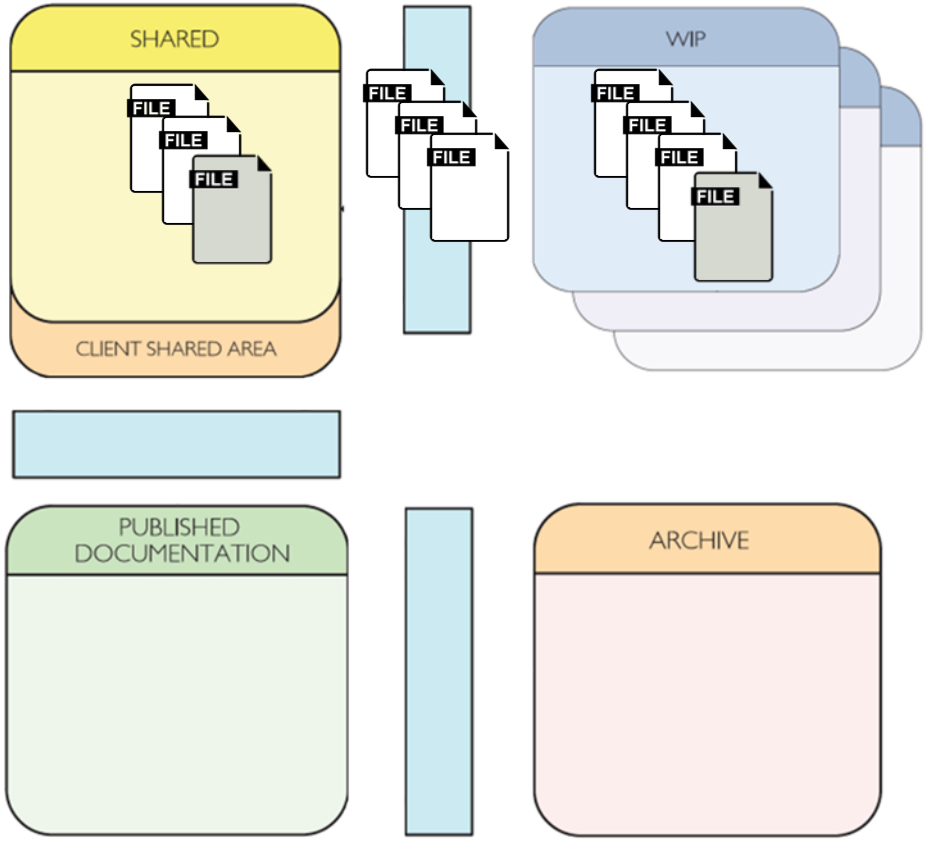

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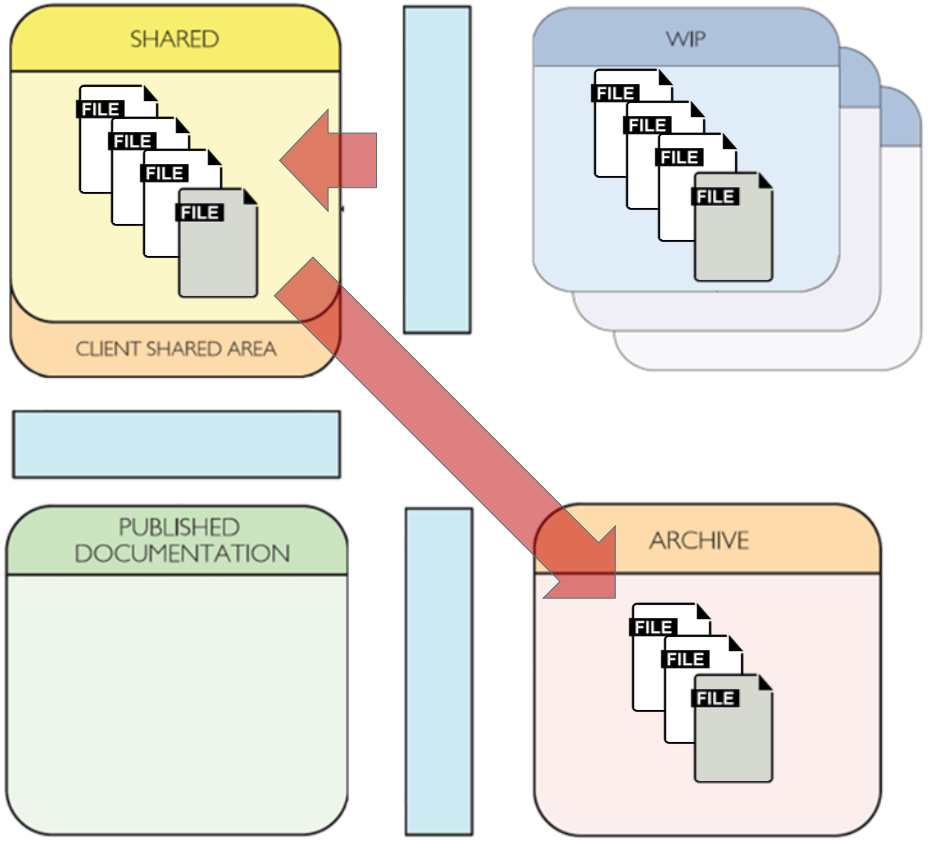

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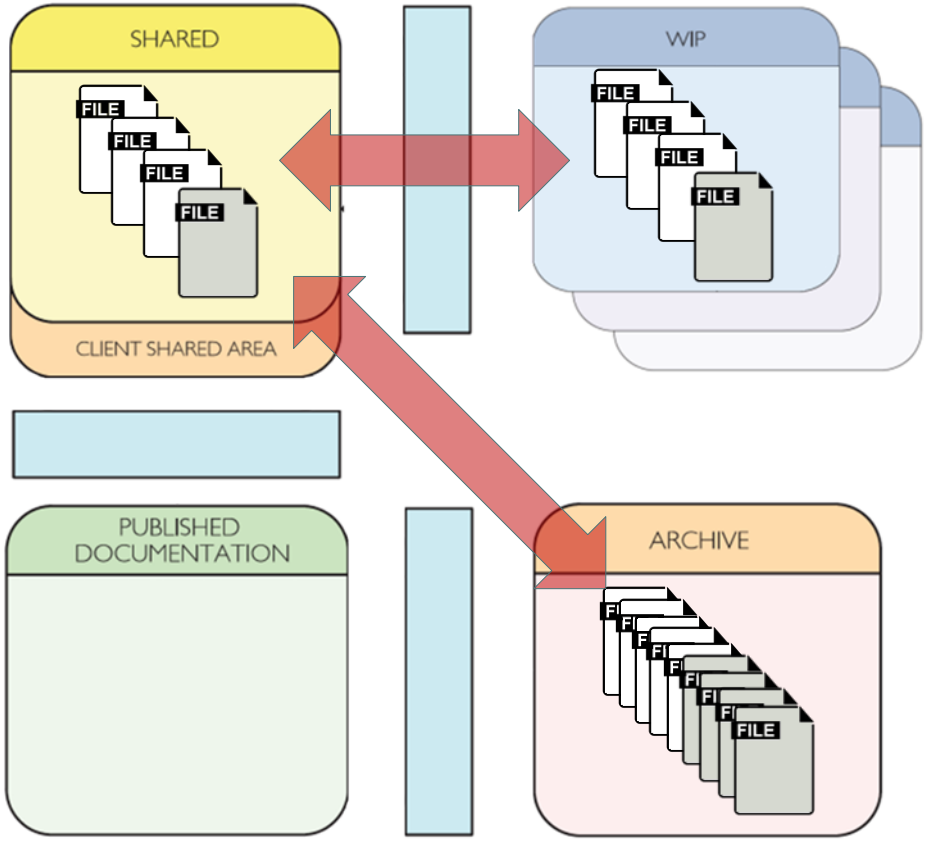

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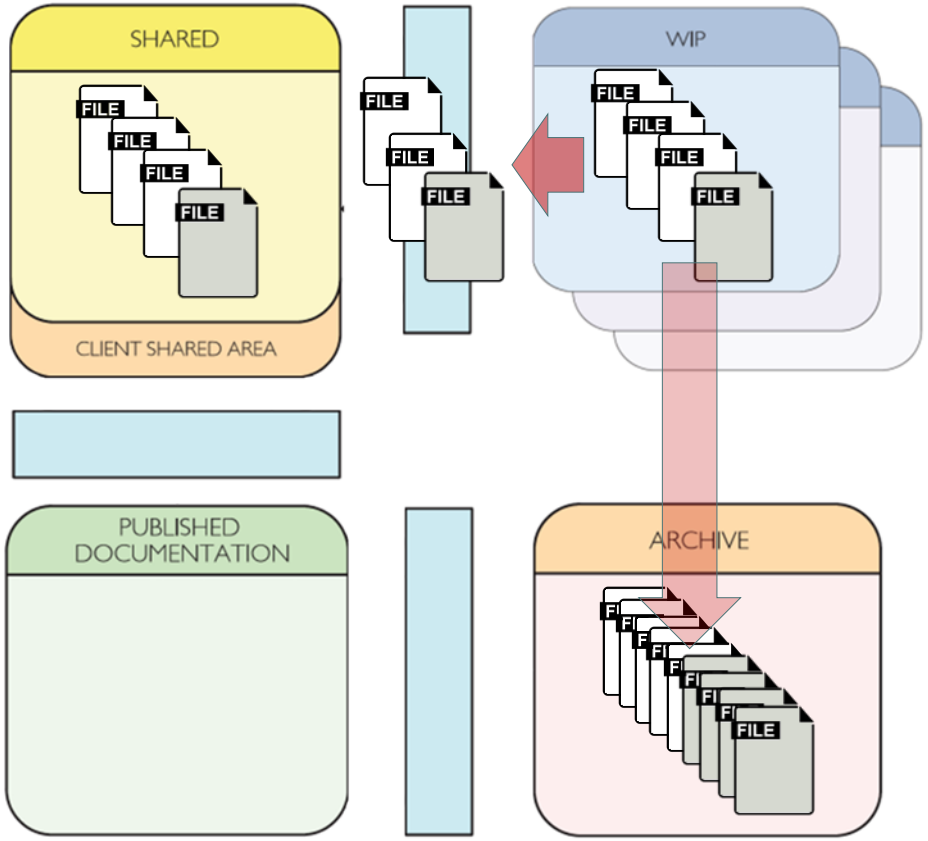

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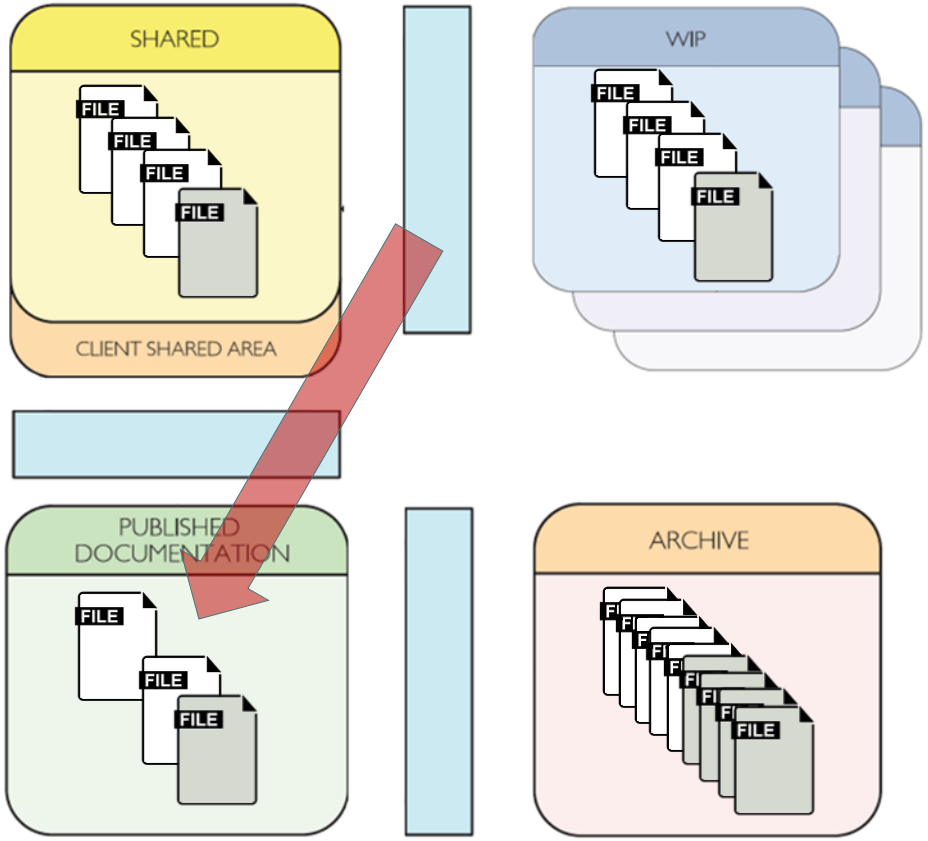

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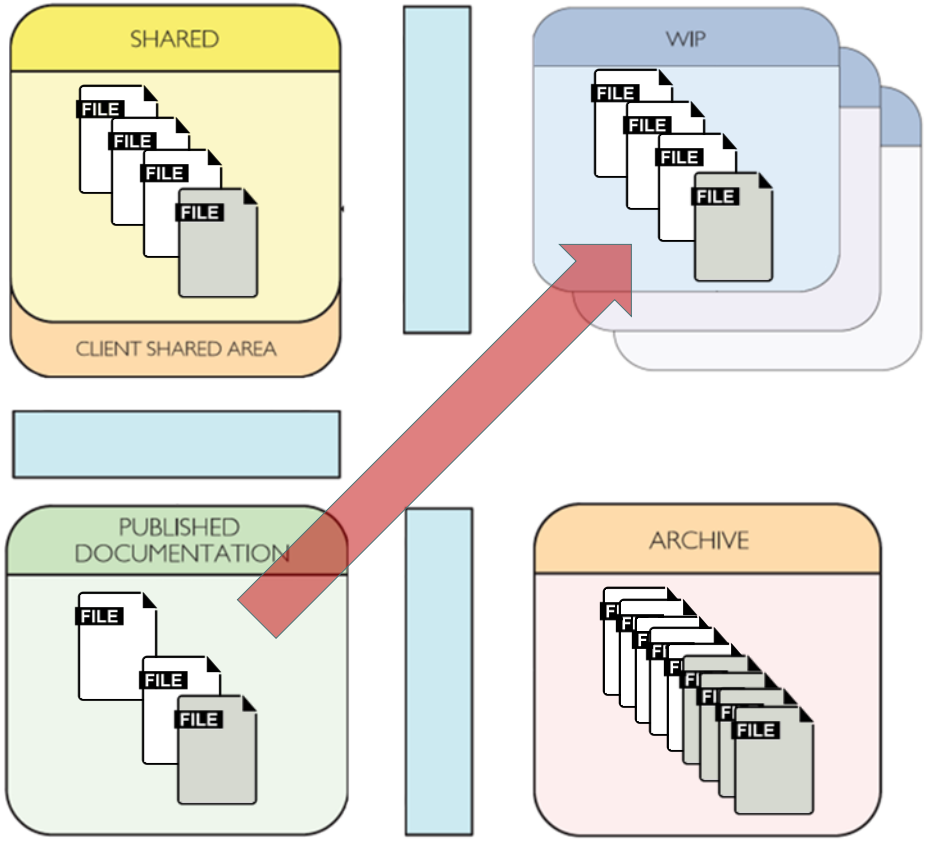

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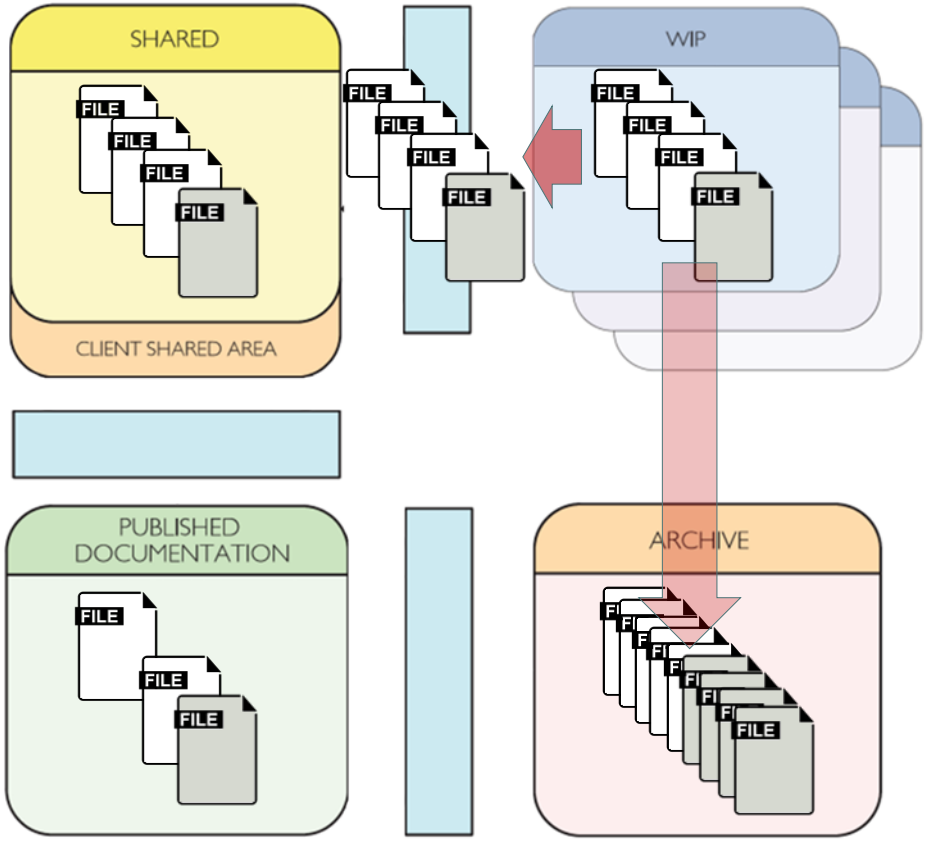

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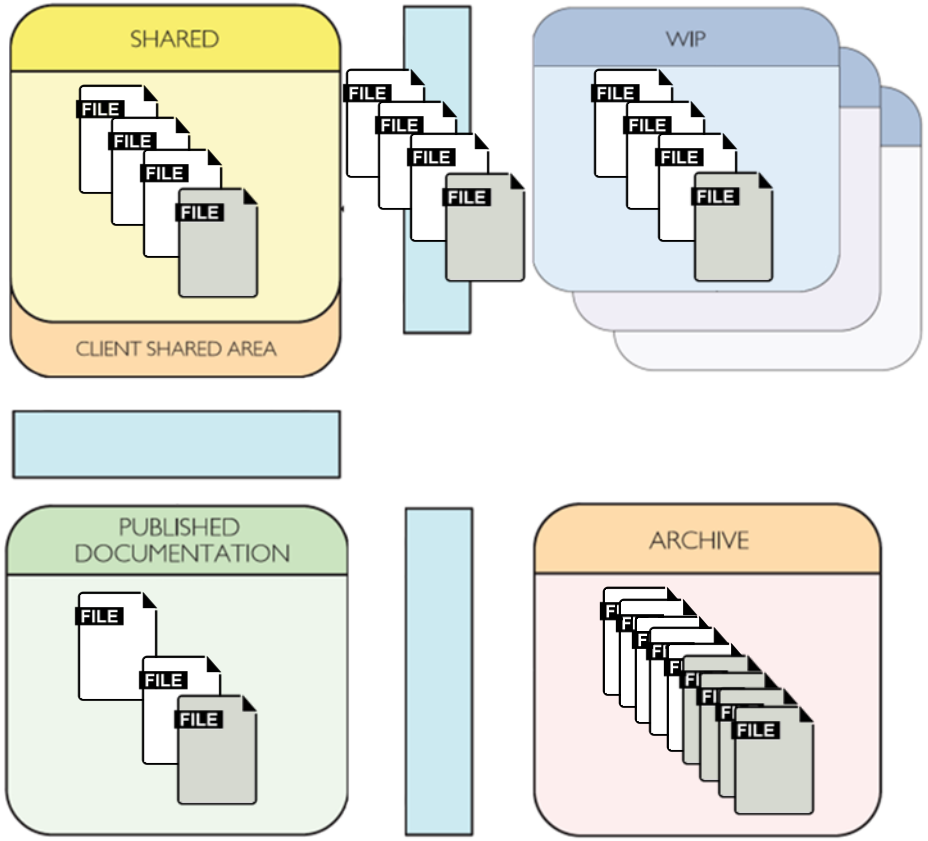

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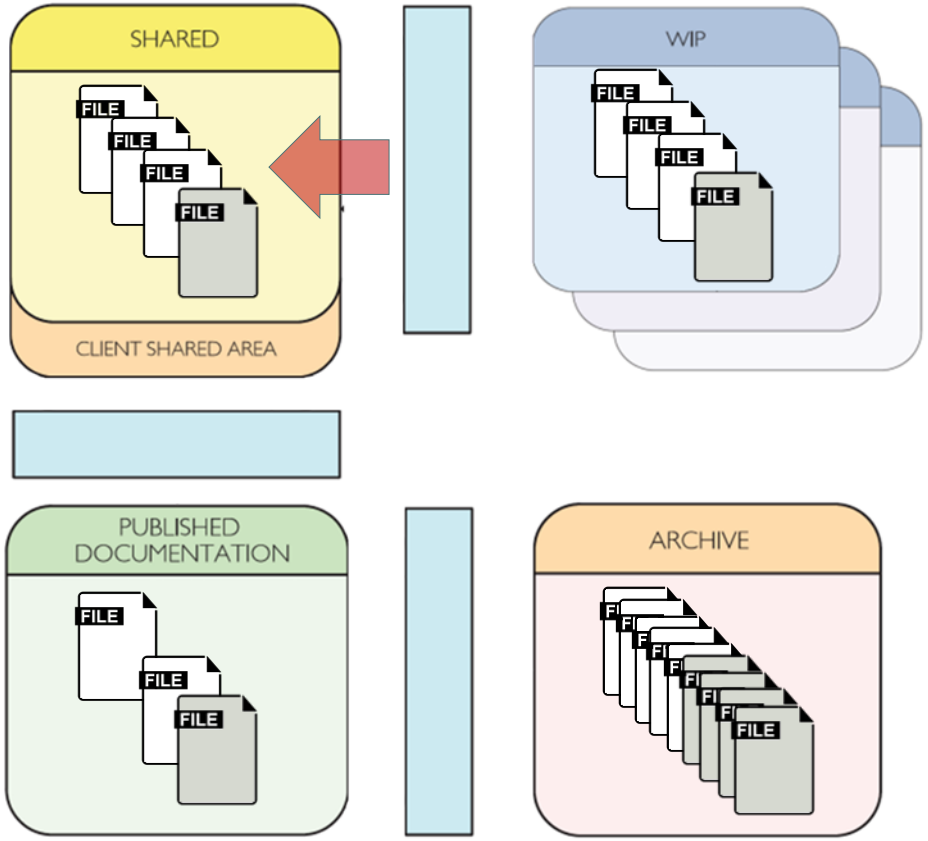

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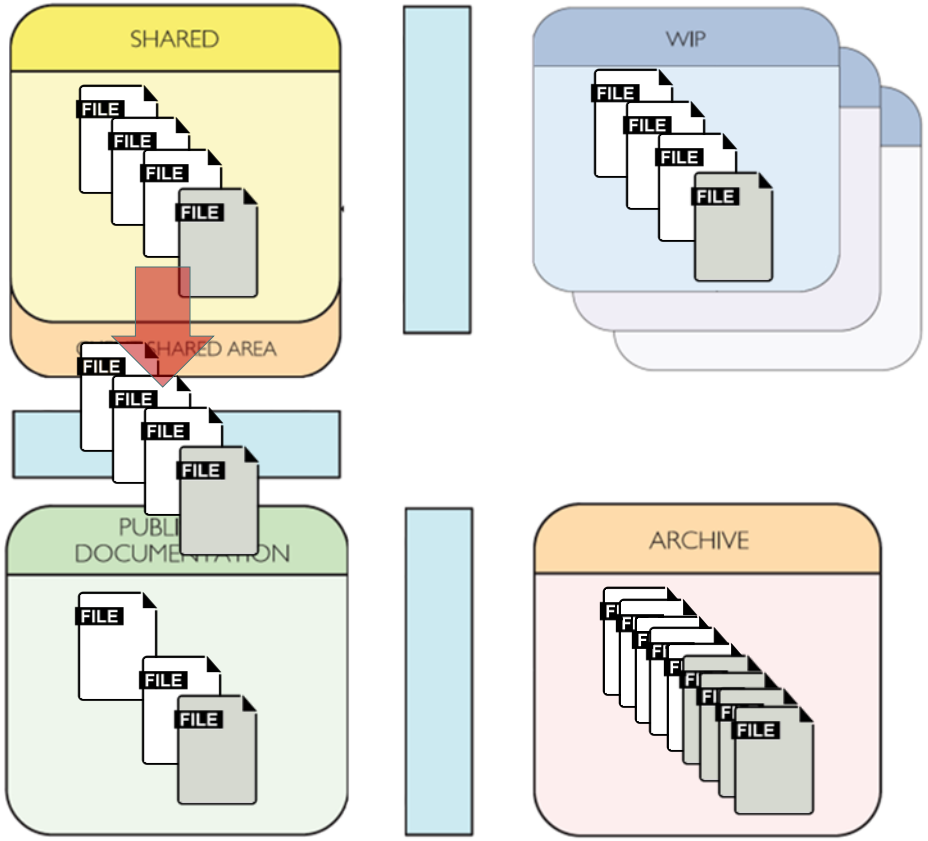

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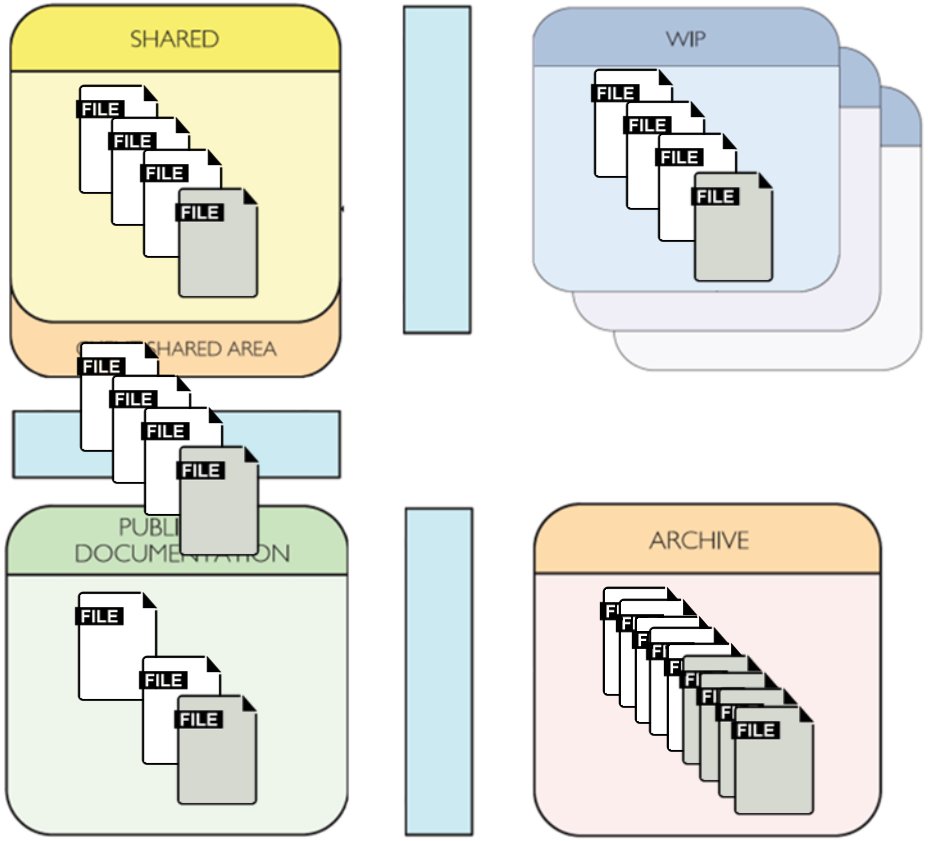

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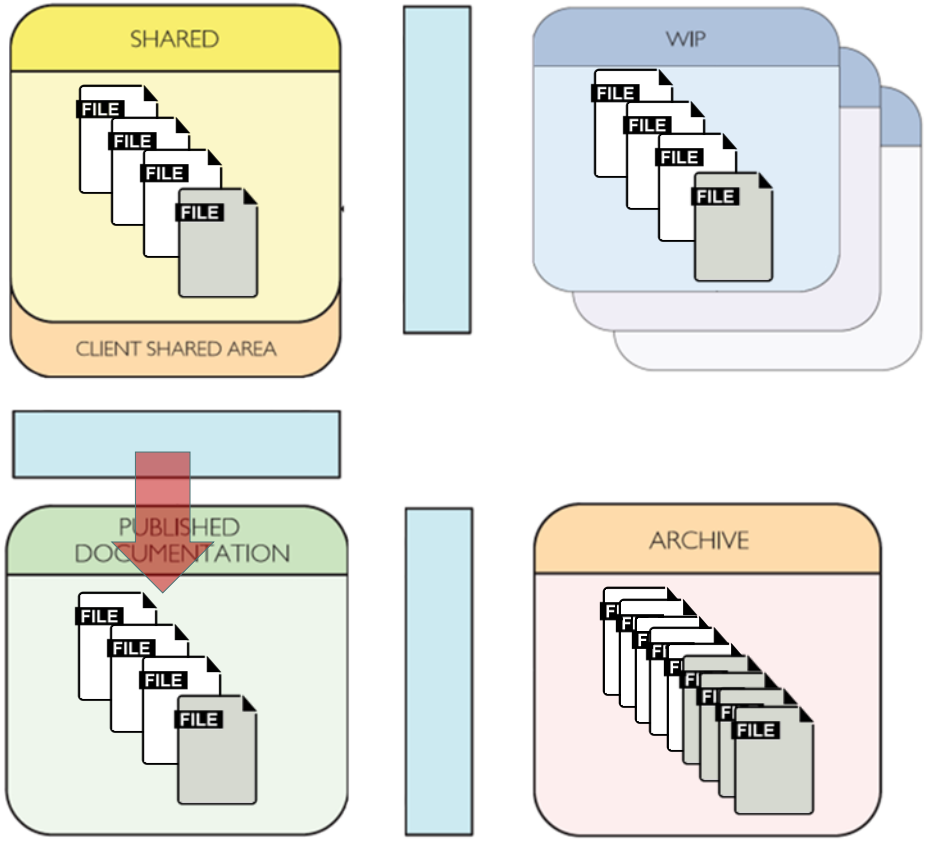

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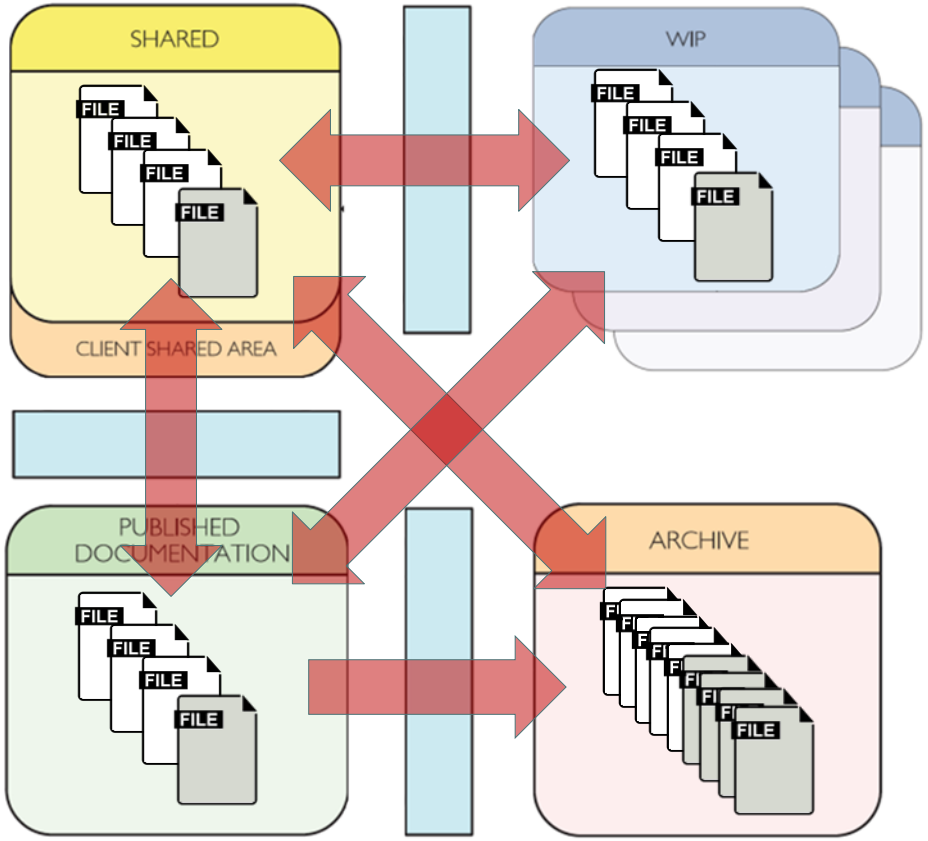

REVISION	etc
STATUS	etc
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STATUS	etc

THE COMMON DATA ENVIRONMENT

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- A “single source of truth”
- Validated & verified information
- Checked & approved
- Understand what you are trying to say
- Understand what others need from you
- Discuss, organise and agree

"IT IS A MISTAKE TO THINK YOU CAN SOLVE ANY MAJOR PROBLEMS JUST WITH POTATOES."

DOUGLAS ADAMS

THANK YOU VERY MUCH

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