



RPC versus Documents

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DAIS WG Face-to-Face

Option 1

- **Adopt only RPC**

- **One action per function call**

- **Pro**

- ▶ Every possible combination of actions exposed
- ▶ Externalises WFL enactment
- ▶ Tool support

- **Con**

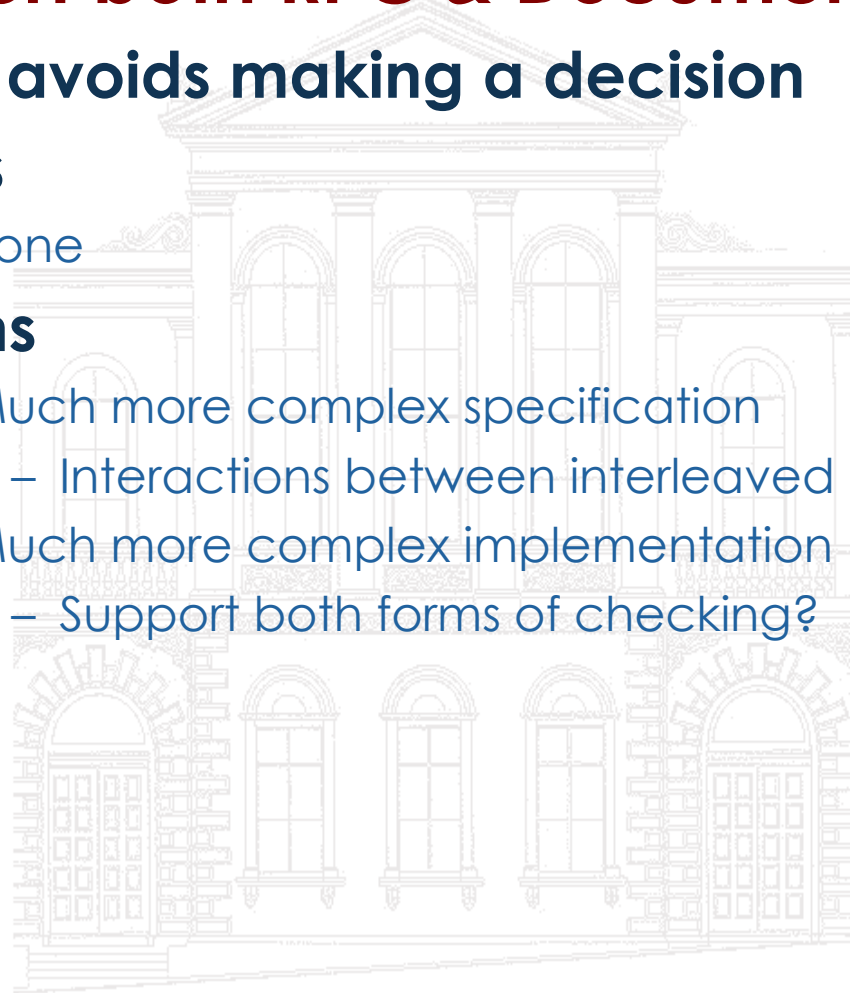
- ▶ Every possible combination of actions exposed
- ▶ Work flow and data operation optimisation harder
- ▶ More round-trip latencies
- ▶ Hard to represent the complex DB parameters as function types
- ▶ Consequence, tool support doesn't address hard issues
- ▶ Hard to partition full DB languages into separate functions
- ▶ How do you arrange inter-action data flow?
- ▶ Not easily extended

Option 2

- **Adopt only the Document model**
 - **Specified sequences or DAGs of actions**
 - **Pro**
 - ▶ Allows relationship between actions to be explicit
 - ▶ Simple extension mechanism
 - ▶ Consistent with the document models in DBs
 - ▶ Reduces round-trips
 - ▶ Can use document analysis to limit options and optimise before starting work
 - ▶ Can emulate RPC by one action per document
 - **Con**
 - ▶ More complex to specify & implement
 - ▶ May be missing opportunity to re-use WFL enactment

Option 3

- **Support both RPC & Document model**
 - This avoids making a decision
 - **Pros**
 - ▶ none
 - **Cons**
 - ▶ Much more complex specification
 - Interactions between interleaved calls in each mode
 - ▶ Much more complex implementation
 - Support both forms of checking?



Actions for the WG

- **Choose 1 option**
 - Only RPC
 - Only Document
 - Both RPC & Document
- **Probably by contact, i.e. per portType function**
- **Fix the spec. for V1 to this choice**
- **Recommend**
 - Only Document model for accessing DB capabilities, i.e. perform