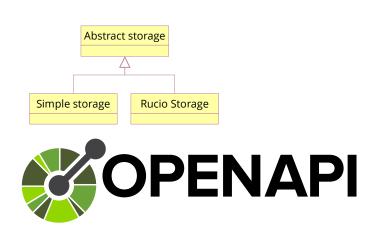




Execution Broker

SRCNet-0.2 Sequence diagram

> Dave Morris Manchester University

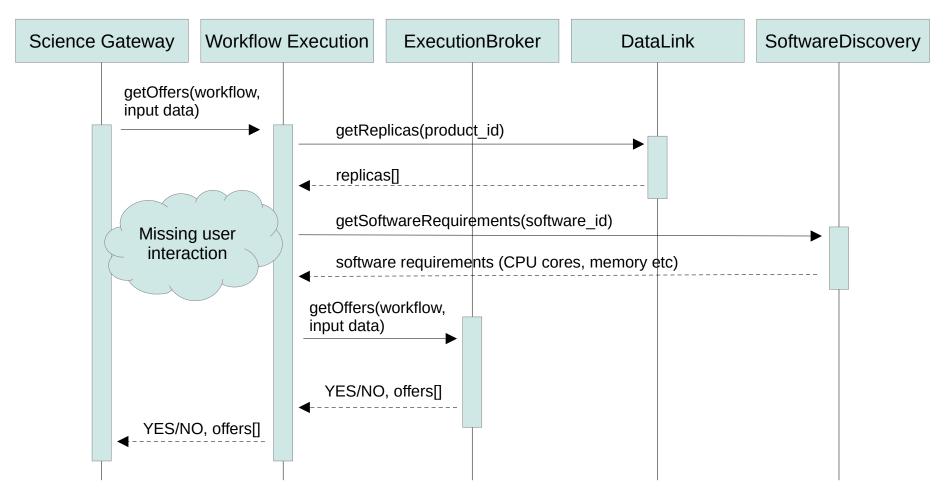






Current sequence diagram

https://confluence.skatelescope.org/pages/viewpage.action?pageId=311713724

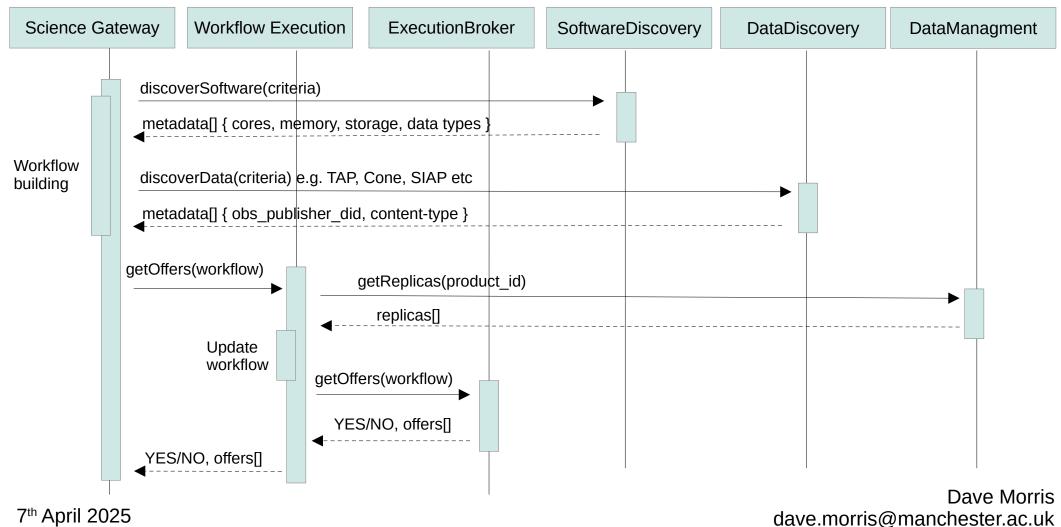






Revised sequence diagram

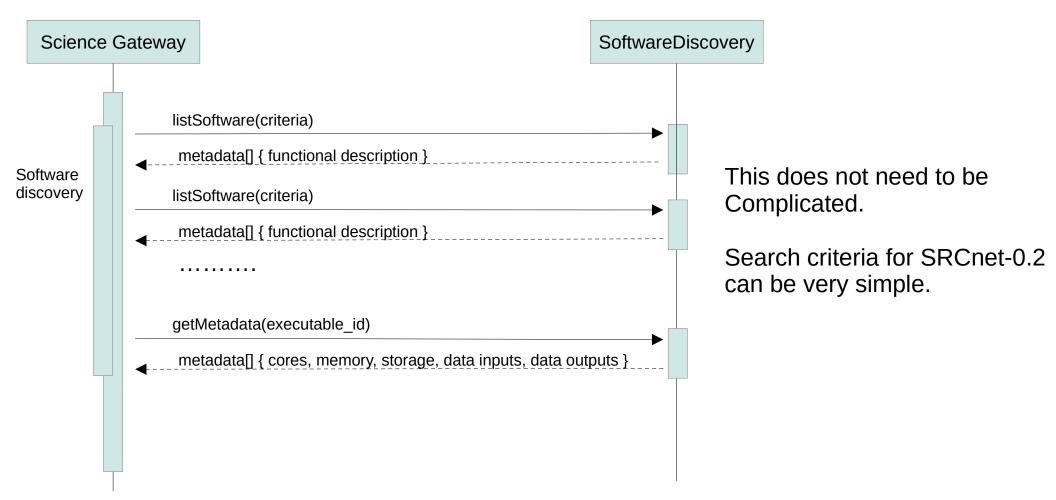
Adding user interaction to Software Discovery and workflow building







Conversation between Science Gateway and Software Discovery to select the software Adding user interaction into the Software Discovery process







Science Gateway 'advanced' tab allows the user to override the default requirements Enabling the user to correct bad defaults or experiment outside the box







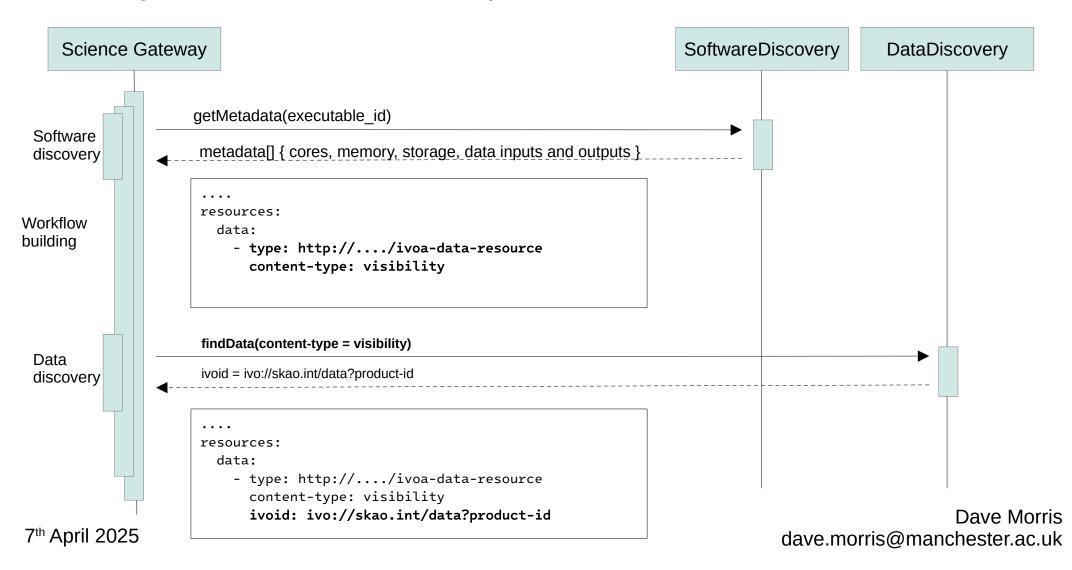
Metadata description includes compute, storage, and **data resources** required by the software Enabling software developers to provide describe the data inputs and outputs







Science Gateway can use the list of data resources to prompt the user to select the relevant data **Selecting the data to match the software inputs**

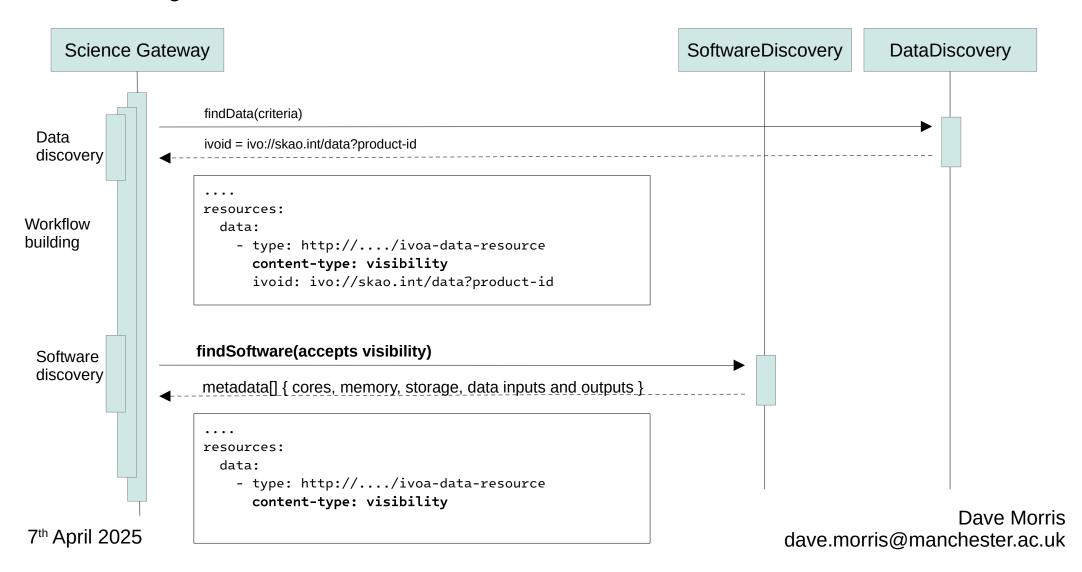






Science Gateway can use the list of data resources to prompt the user to select the relevant data

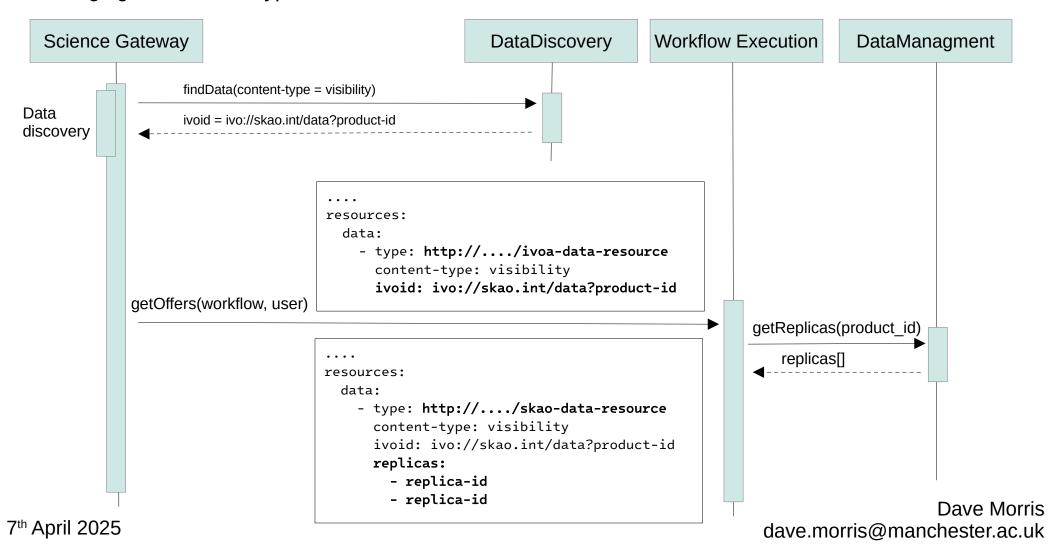
Or selecting the software to match the data







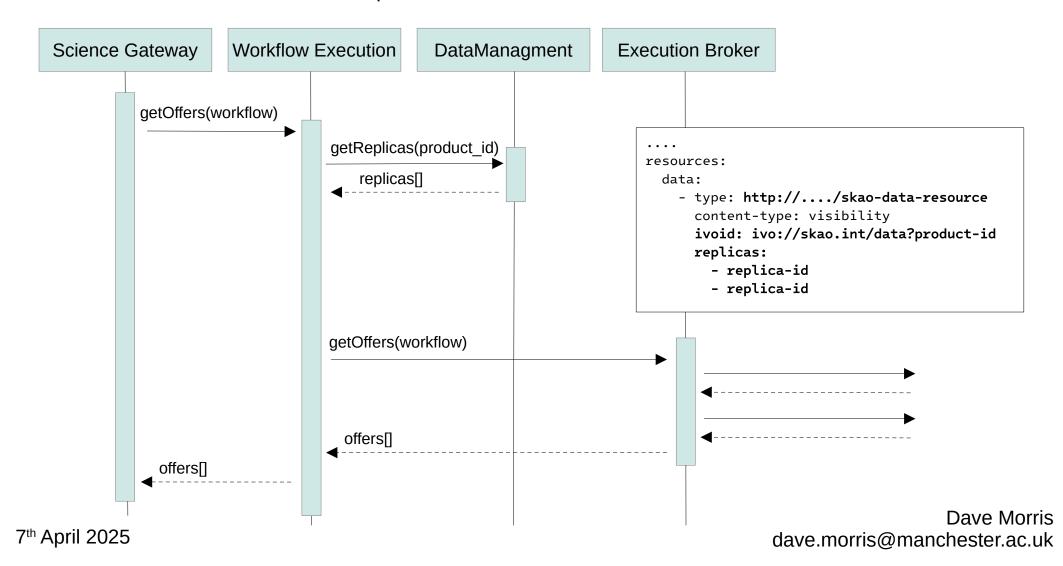
Data discovery returns ivoid references, Workflow Execution expands them to Data Lake replicas Changing the resource type from ivoa-data-resource to skao.data-resource







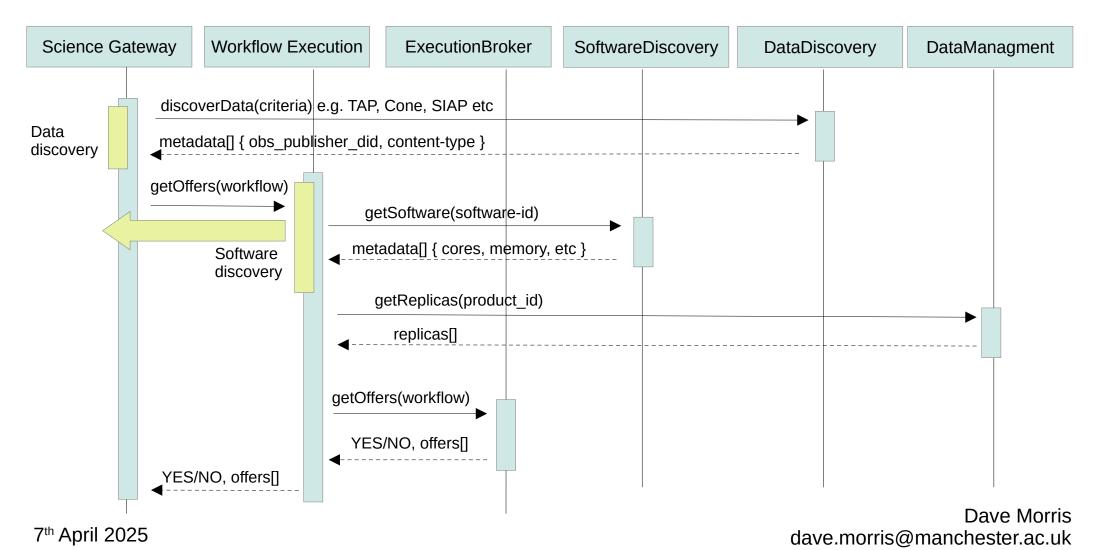
Workflow Execution sends skao-data-resources (with replica lists) to local Execution Brokers Local Execution Brokers use the replica lists to estimate transfer times







Key change is to move software discovery step from WorkflowExecution into Science Portal From this:







Key change is to move software discovery step from WorkflowExecution into Science Portal To this:

