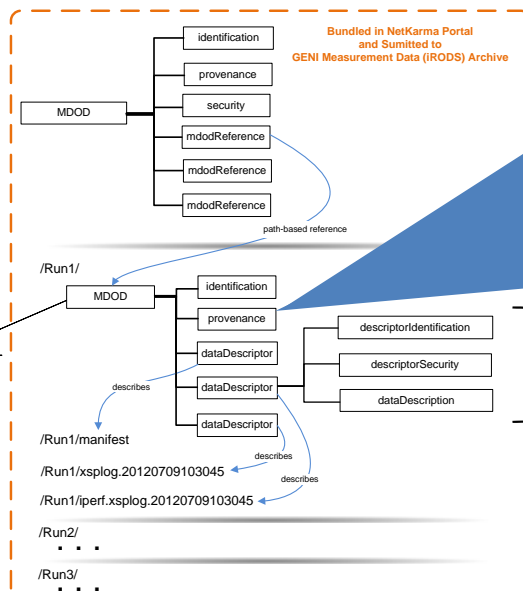
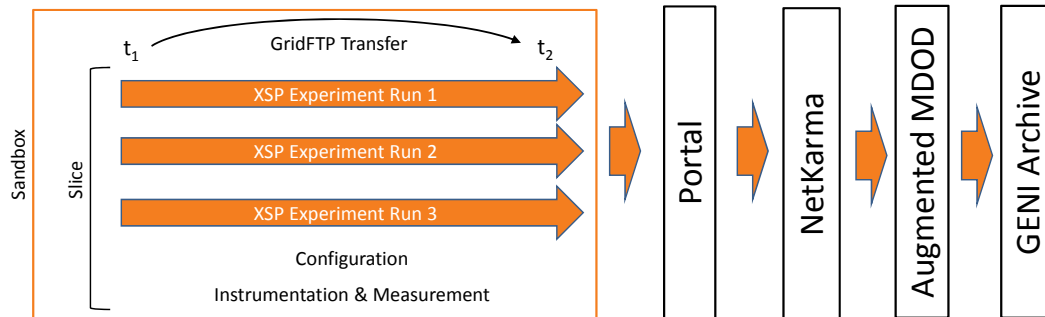
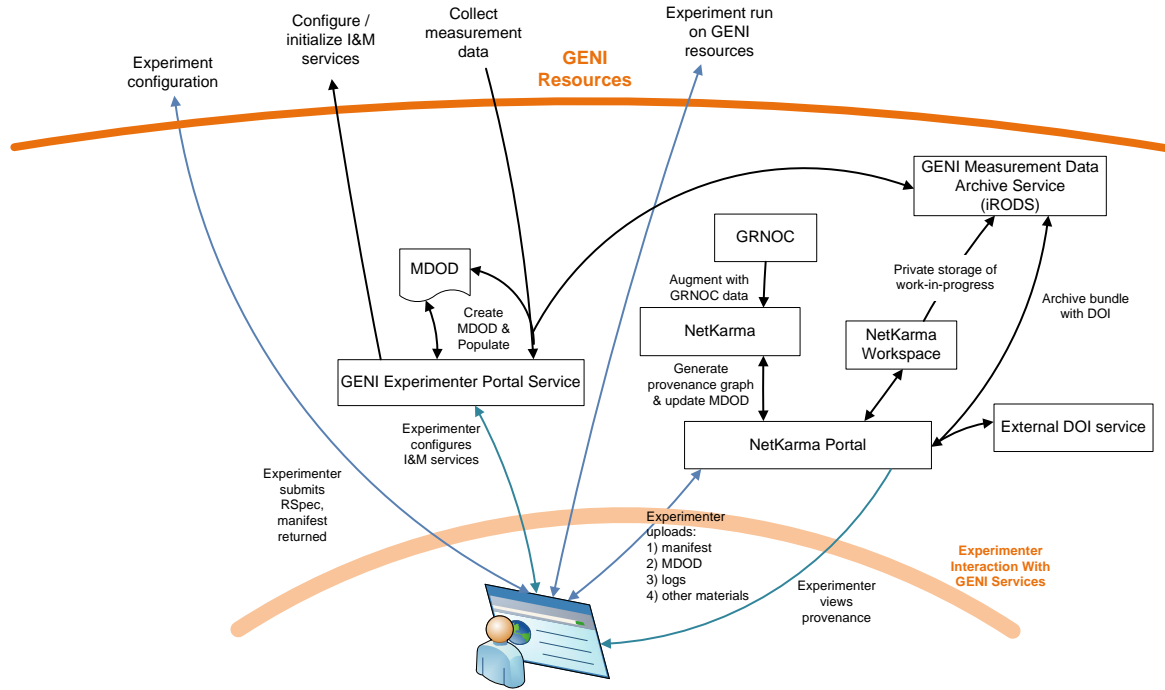


GENI Provenance, Instrumentation and Measurement: Integrating Provenance into the GENI Measurement Data Object Descriptor



DATA TO INSIGHT CENTER

INDIANA UNIVERSITY
Pervasive Technology Institute



Although only one is detailed here, each of the three MDODs at this level would have identification, provenance, and three data descriptors: 1) the XSP experiment log, 2) perf measurements, and 3) the manifest



The provenance of the run represented by the MDOD is embedded as an OPN graph – but without metadata, so it can be visualized but is 75% smaller. Using the value of the workflow ID attribute, the full graph can be retrieved from the NetKarma Portal.

Measurement Data Objects (MDOs) and other derived data products each have minimal required identification, optional policy settings, and the description of the data product. Policies can be inherited from the parent MDOD, or specified either inline or as a URL reference to a standard policy. The dataDescription describes a measurement event or an analysis event. By using controlled vocabularies for object types, categories, formats, interpretation methods, encryption methods, data types, parameters, units-of-measure, and keywords, the MDOD can capture new methods and data products without requiring schema updates but still be machine readable.

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