



PID Kernel Information WG

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Summary of the Problem

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- Current global middleware infrastructure exposes shortcomings for data identification, discovery and use
 - No good approach for automated services dealing with millions of objects in short timeframes
 - Needed: A tiny, selected amount of metadata injected into PID records
 - Benefits: Scalability, automation, cross-community solutions



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- 7 Guiding Principles for PID Kernel Information
 - Independent of specific infrastructure or technologies
 - Geared towards minimizing human interaction, long-term stability of processes relying on Kernel Information
 - Draft Kernel Information profile
 - Exemplary high-level architecture
 - Use cases and community adoption

Initial Adopters

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- RPID project: Pilot test bed for combining multiple RDA recommendations for advanced PID usage
 - European Network for Earth System Modelling: Streamlining existing use of Kernel Information for CMIP6 to be aligned with recommendation
 - DOI Foundation: Evaluation of Kernel Information concept for range of DOI applications
 - EUDAT B2HANDLE service: PID profiles for the EOSC-hub

Expected Impact of the Deliverable

- Guiding Principles for sustainable, scalable middleware PID usage
- Core Kernel Information profile as reliable common core across infrastructures and community applications
- Provide nucleus for community or application-specific extensions



Feedback Desired from RDA Community

- Are the Guiding Principles applicable and is their scope well suited?
- Are there alternative good approaches to the architecture design?
- Are there additional service perspectives or other use cases?