

4th PMD Hackathon: Protocol

PMDco Hackathon IV @ BAM

18th–20th November 2026 | Lunch 2 Lunch

Link to this document: [HackMD document for agenda and protocol of PMD Hackathon 4](#) **Share Link**

Living document / collaborative protocol: This document contains the workshop agenda and is intended to be updated collaboratively during the hackathon. Topics, working groups, results, decisions, deliverables, pull requests, and follow-up activities can be documented directly here.

Note: Agenda may be subject to change.

Agenda

Day 1: 18th November

Time	Agenda
12:00 PM	Registration and Get Together
01:00 PM	Welcoming / Motivation (BAM / HAP “Semantic Interoperability” Lead) Introduction Round (all); Find Topics; Fix the Agenda; Find Working Groups
02:00 PM	Coffee Break (+ Nibbles)
02:15 PM	Brief Introduction to PMD Core Ontology: New Structure, Concepts, Releases, Discussions
03:00 PM	Coffee Break (+ Nibbles)
03:30 PM	**Group Sessions Topic 1: (Re-)Organization of Processes (Classes) in PMDco ¹ Topic 2: Modularization of PMDco ² Topic 3: Microstructure Module ³ Topic 4: Semantic Patterns ⁴ Topic 5: Resolving SDC-bearer Issue ⁵ Topic 6: Coordination of Uplifting Concepts (Uplifting Party) ⁶
03:30 PM	Beginner’s Course ⁷ (parallel to other activities)
06:00 PM	Presentation of First Results (all)
07:30 PM	End of Day 1

¹Process descriptions, organization and axiomatization need to be reworked.

²Discussion on organizing modules in PMDco; What is a PMDco module? Distinction to application / domain ontologies.

³Discussions / decision on conceptualization of the PMDco module representing microstructure.

⁴Documentation of semantic patterns (pattern catalogue, RAG).

⁵Resolve SDC-bearer problem to assign different qualities to different parts / scales, e.g. “Spatially Qualified Continuant”.

Day 2: 19th November

Time	Agenda
09:00 AM	Parallel Group Sessions
11:30 AM	Plenum: Show Your Results and Pull Requests, Part 1
12:15 AM	Group Picture
12:30 PM	Lunch @ BAM Canteen
01:40 AM	Plenum: Show Your Results and Pull Requests, Part 2
03:00 PM	Continued Sessions Expert Round Discussion
03:30 PM	Coffee Break
04:00 PM	Continued Sessions
04:45 PM	Coffee Break
05:00 PM	Plenum: Presentation of Results from the Group Sessions
06:30 PM	End of Day 2; leave venue to travel to restaurant (tba)
07:00 PM	Dinner @ Restaurant (tba; at own cost)

Day 3: 20th November

Time / Format	Agenda
09:00 AM	Teamwork
Plenum	Expert Round; Fixation of Results; Deliverables
Plenum	What's Next? → Set up Future (Online) Meetings
Plenum, time & mood permitting	Coffee Break(s)
11:15 AM	Wrap up
12:30 PM	End of Hackathon

Working groups and notes

Add or adjust working groups collaboratively as the agenda is fixed.

Topic 1: (Re-)Organization of Processes (Classes) in PMDco

- **Participants:**
- **Objectives / questions:**
- **Discussion notes:**
- **Decisions:**
- **Results / deliverables:**
- **Issues / Pull Requests / Links:**
- **Open points:**

⁶Application and domain ontology developers come together to identify concepts in their ontologies as candidates for uplifting to PMDco.

⁷Beginner's course: Intro to ontologies, including "What is an ontology?" and Look and Feel in Protégé.

Topic 2: Modularization of PMDco

- **Participants:**
- **Objectives / questions:**
- **Discussion notes:**
- **Decisions:**
- **Results / deliverables:**
- **Issues / Pull Requests / Links:**
- **Open points:**

Topic 3: Microstructure Module

- **Participants:**
- **Objectives / questions:**
- **Discussion notes:**
- **Decisions:**
- **Results / deliverables:**
- **Issues / Pull Requests / Links:**
- **Open points:**

Topic 4: Semantic Patterns

- **Participants:**
- **Objectives / questions:**
- **Discussion notes:**
- **Decisions:**
- **Results / deliverables:**
- **Issues / Pull Requests / Links:**
- **Open points:**

Topic 5: Resolving SDC-bearer Issue

- **Participants:**
- **Objectives / questions:**
- **Discussion notes:**
- **Decisions:**
- **Results / deliverables:**
- **Issues / Pull Requests / Links:**
- **Open points:**

Topic 6: Coordination of Uplifting Concepts (Uplifting Party)

- **Participants:**
 - **Objectives / questions:**
 - **Discussion notes:**
 - **Candidates for uplifting:**
 - **Decisions:**
 - **Results / deliverables:**
 - **Issues / Pull Requests / Links:**
 - **Open points:**
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Results and Pull Requests, Part 1

- **Group / topic:**
 - Result:

- Pull Request / Issue / Link:
- Feedback / decision:

Results and Pull Requests, Part 2

- **Group / topic:**
 - Result:
 - Pull Request / Issue / Link:
 - Feedback / decision:

Expert Round Discussion

- **Questions / topics:**
- **Key points:**
- **Decisions / recommendations:**
- **Open points:**

End-of-day results

- **Results achieved:**
 - **Deliverables created or updated:**
 - **Decisions made:**
 - **Items to continue on Day 3:**
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Fixation of results and deliverables of the entire Hackathon

Topic / Working Group	Result / Decision	Deliverable / Link	Responsible	Status

What's next?

Follow-up activities

- ☐
- ☐
- ☐

Future meetings

Topic	Proposed date	Participants	Link / Notes

Overall Decisions & Action Items

Decisions

- 1.
- 2.
- 3.

Action items

Action	Responsible	Due date	Status / Link
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Relevant links and resources

- **PMDco:** <https://materialdigital.github.io/core-ontology/docs/>
 - **Repository:** <https://github.com/materialdigital/core-ontology>
 - **Issues / Pull Requests:** <https://github.com/materialdigital/core-ontology/issues>
 - **Other resources:** <https://w3id.org/pmd/co>
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Practical information

- Information on the BAM canteen (accessible from BAM site): <https://www.gastfroh.de/resources/speisekarten/bam.pdf>
 - Complimentary coffee and snacks are provided during the event.
 - Beginner's course participants may install Protégé beforehand: <https://protege.stanford.edu/>
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Topic descriptions