Archie

Open Source OpenEHR Library





Nedap Healthcare

- EHR software for the Dutch care market
- Home healthcare, residential care
- Mental Health care
- Disability care



Archie

Open Source OpenEHR Library



- Overview of library
- Demonstration
- Code examples
- Discussion



Why?

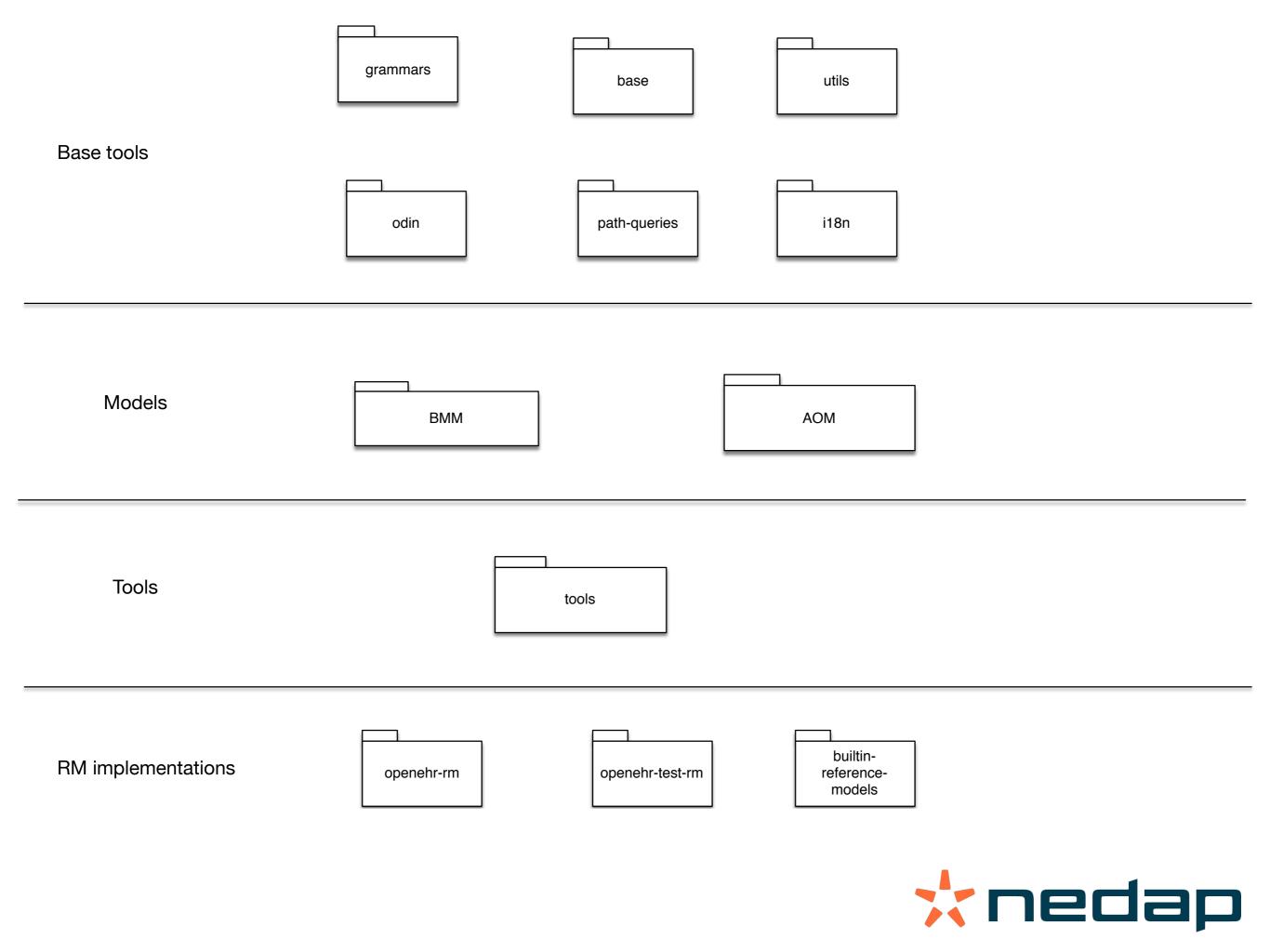
- We wanted to use ADL 2/AOM 2, but there was no suitable library
- Open source to promote ADL 2/AOM 2

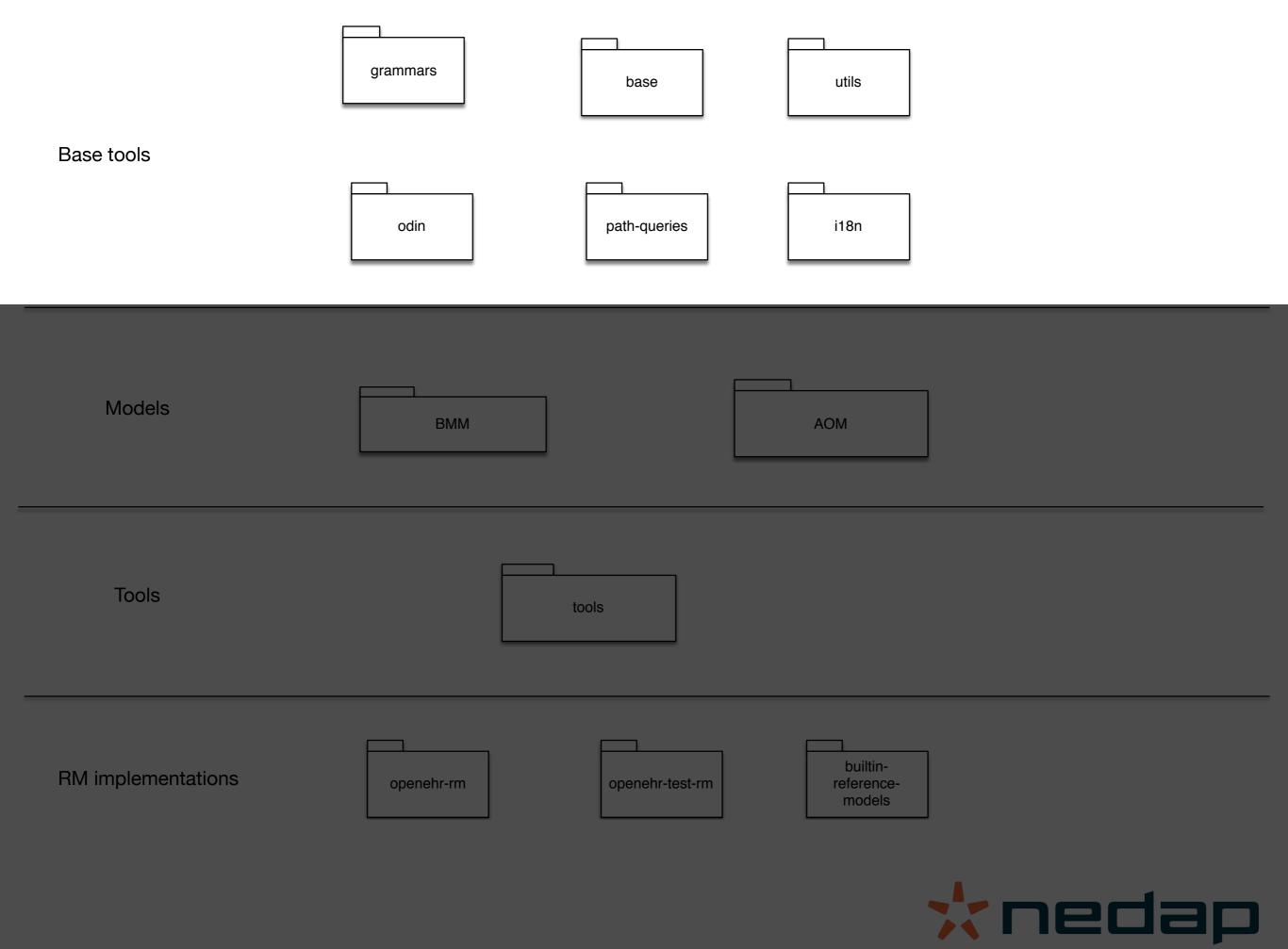


Archie

- Java OpenEHR library
- For modelling and EHR
 - BMM, ODIN, ADL, AOM, RM and more







Basics

- ADL grammar (Adapted from grammar by Thomas Beale)
- Odin parser + serialisers
- Path queries



ODIN

- ODIN to JSON converter to parse
- Custom serializer

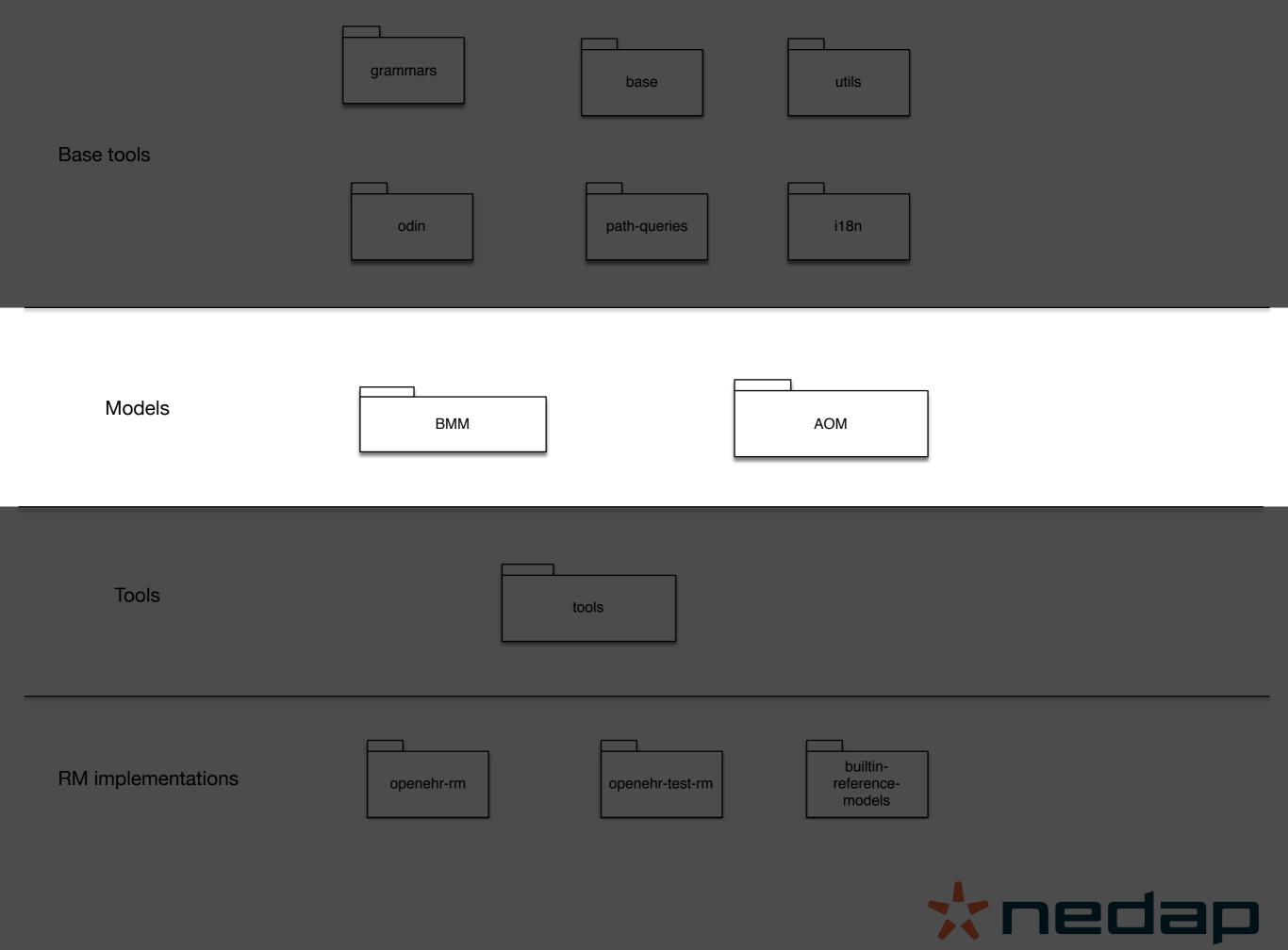
• ODIN object model



ADL/AOM

- ADL ANTLR parser
- Serializer
- Jackson bindings for JSON
- JAXB bindings for XML



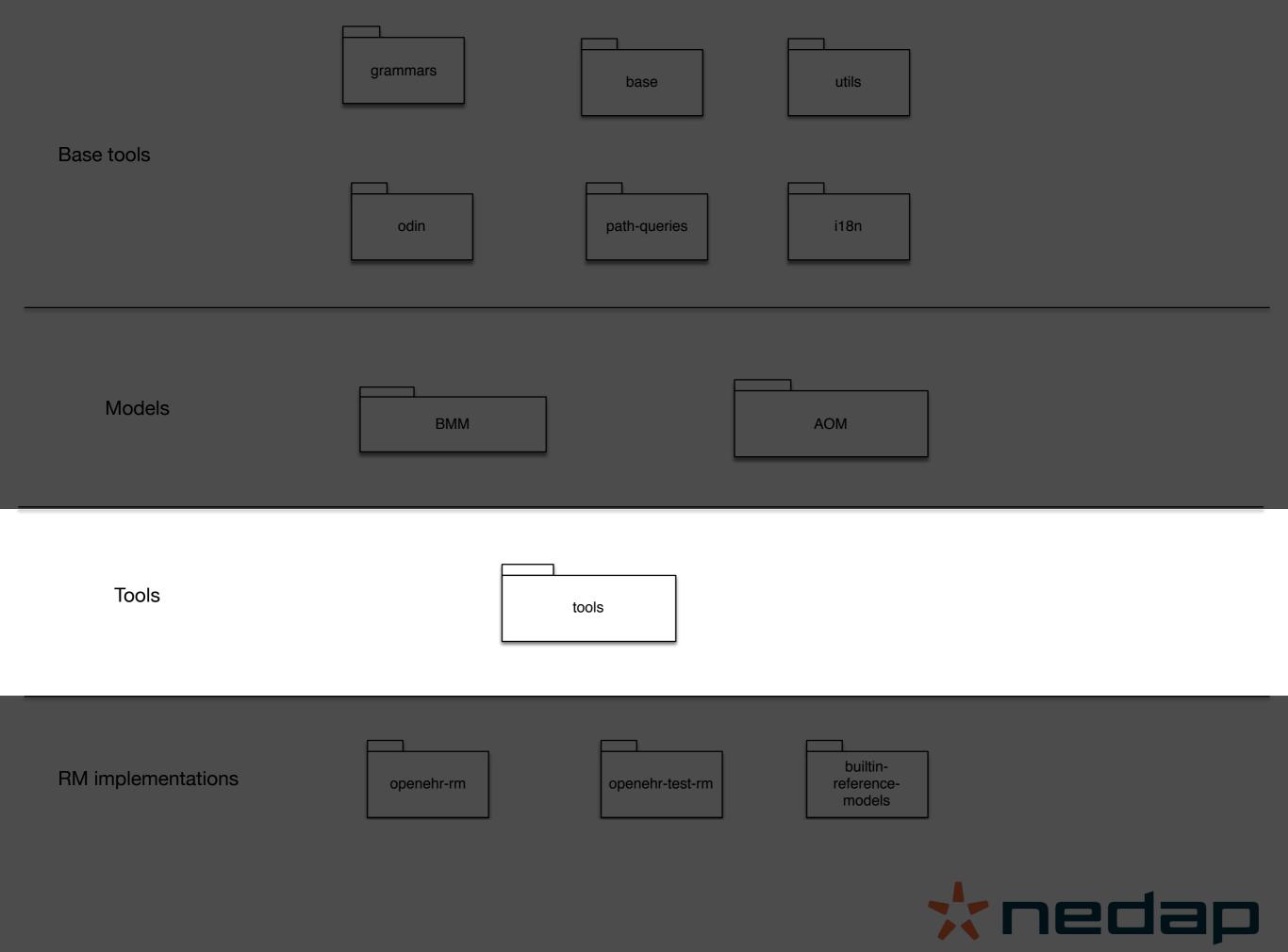


Models

• AOM

- Includes JSON, XML and ADL parsers and serialisers
- ADL serialiser, contributed by Marand
- BMM
 - Contributed by Claude Nanjo, Joey Coyle and Kurt Allen





Archetype tools 1/2

- Path queries
- Archetype validation
- Flattening
- Diff



Archetype tools 2/2

- Operational template creation
- In memory repository
- Node id generation



BMM-based

Tools work with any reference model



RM Tools

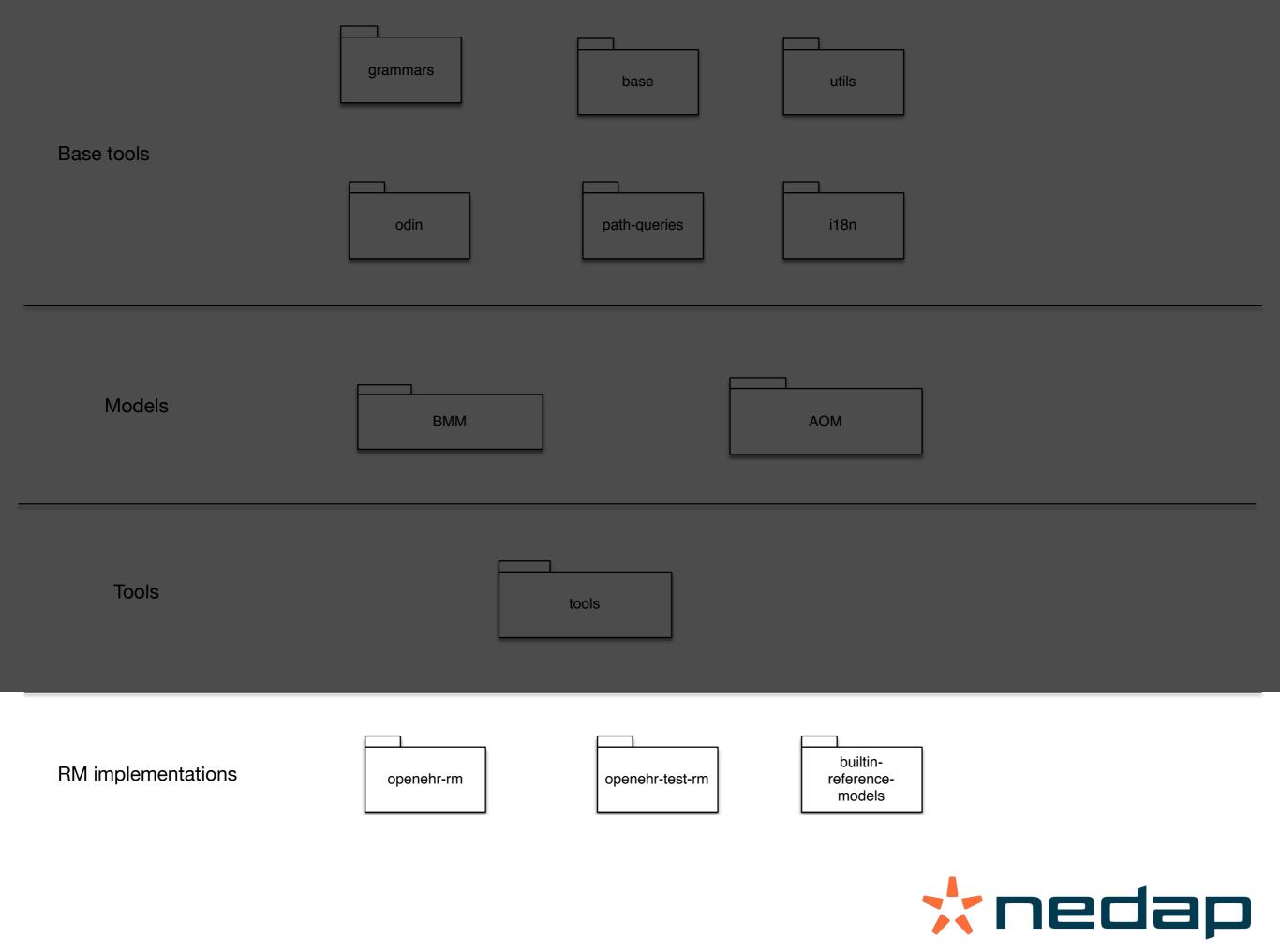
- Object creation + updates
- Validation against Archetypes
- Experimental:
 - rule evaluation



RM Tools

• Independent from RM implementations





RM Implementations

- RM 1.0.4 implementation
- OpenEHR Test RM for testing
- Tools to access builtin RM metadata (BMM + access to implementation)



RM implementation

- Jackson bindings for JSON
- JAXB bindings for XML



Apache 2 license



Automated tests



Performance optimised



Status

- Grammar, parser, serializer, AOM complete
- Flattener, OPT and Diff complete
- Archetype validations 95%
- BMM 80% implemented, previous version



Demo application:

Archetype editor

