

# NOMAD Meta Info & Archive API

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- NOMAD CoE <http://nomad-coe.eu> has as goal to make the data of the NOMAD Repository available for analysis.
- Bedrock for our developments:
  - An abstract description of the data stored (Nomad Meta Info)
  - unique identifiers (NOMAD Uris) to refers to any piece data stored
- Developed keeping in account more general efforts
  - EMMC (<http://emmc.info>) for Meta Info
  - Optimade (<http://www.optimade.org/>) for the API

# NOMAD Meta Info Recent Developments

- Recent extension to classical force field codes made us reevaluate some of our choices, and improve the MetaInfo infrastructure, with a particular emphasis on
  - Evolution (track and document changes)
  - Clarity (naming improvements, self reference/documentation)
- API development makes the whole abstract infrastructure more useful
  - Resolve API
  - Query API

- Meta Info & Ontologies
- Interoperability provided by Meta Info
  - API
  - Formats
  - DB & indexes (elastic search)
  - Codes