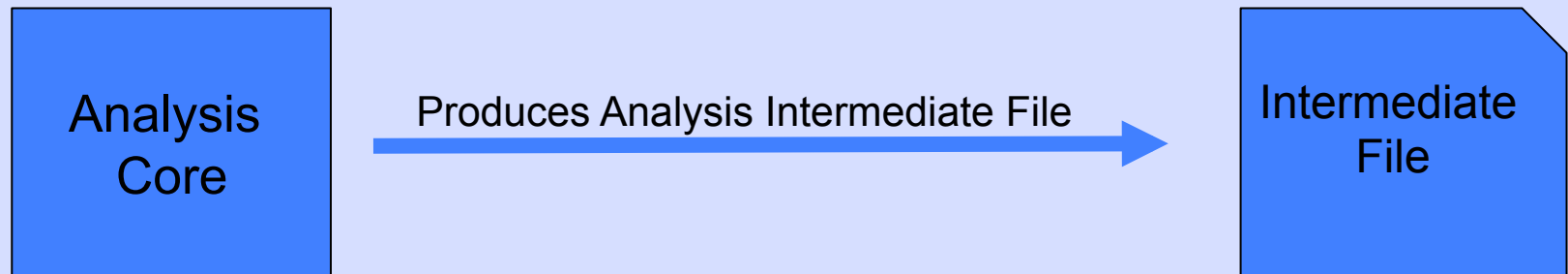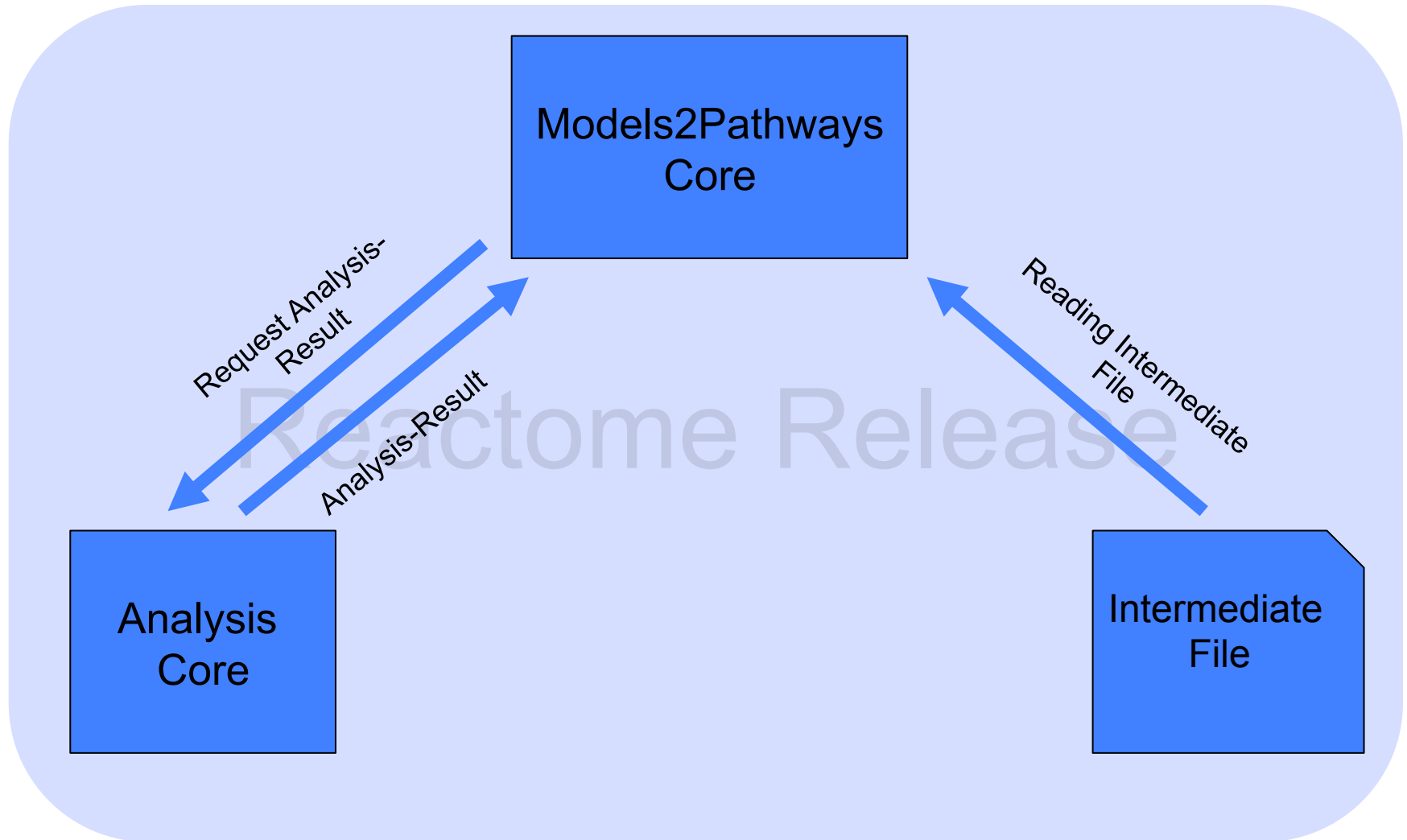# Models2Pathways

Purpose:

A tool to find significant BioModels, matching to Reactome Pathways, based on the Results of the Reactome Analysis Tool, during Release Process.
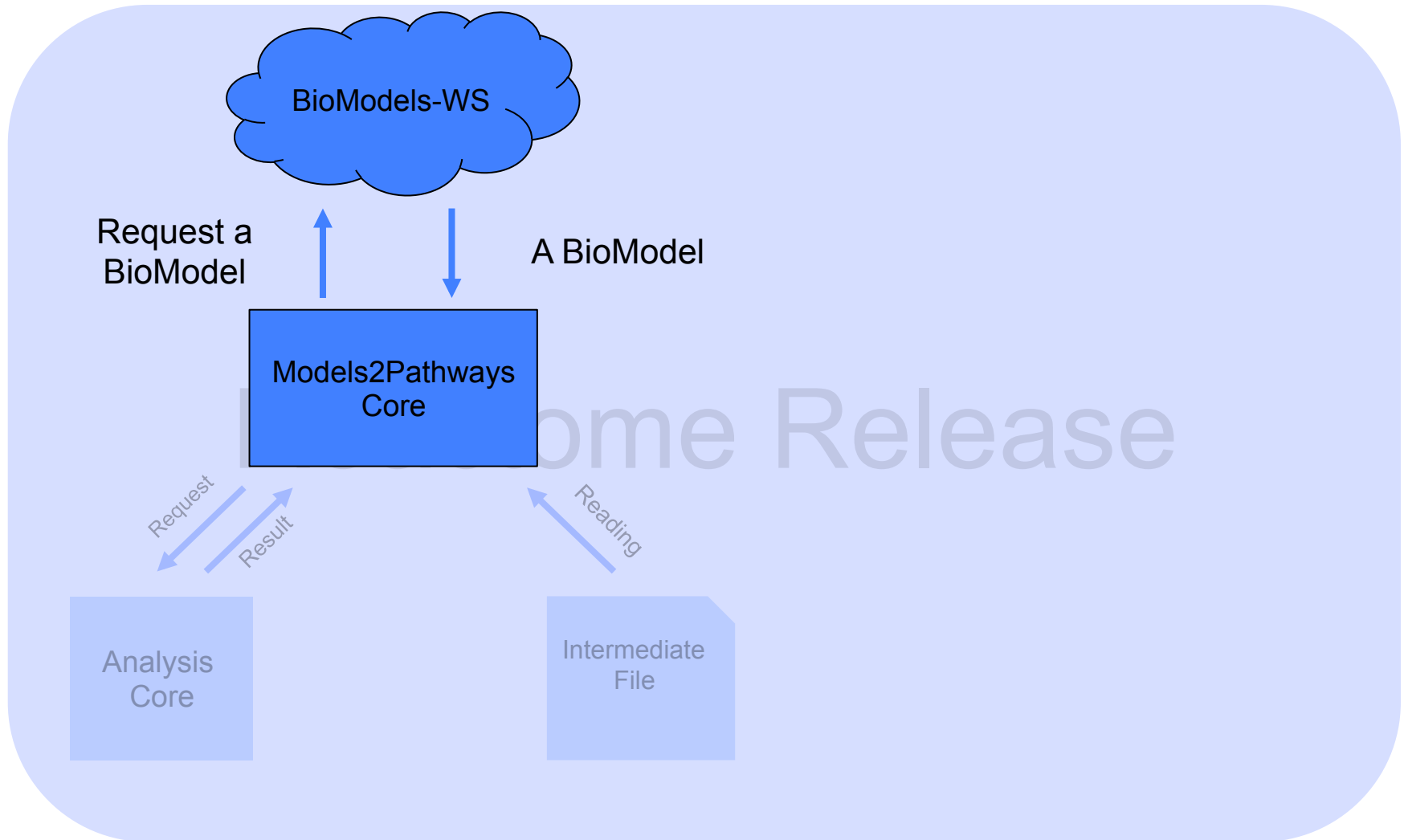
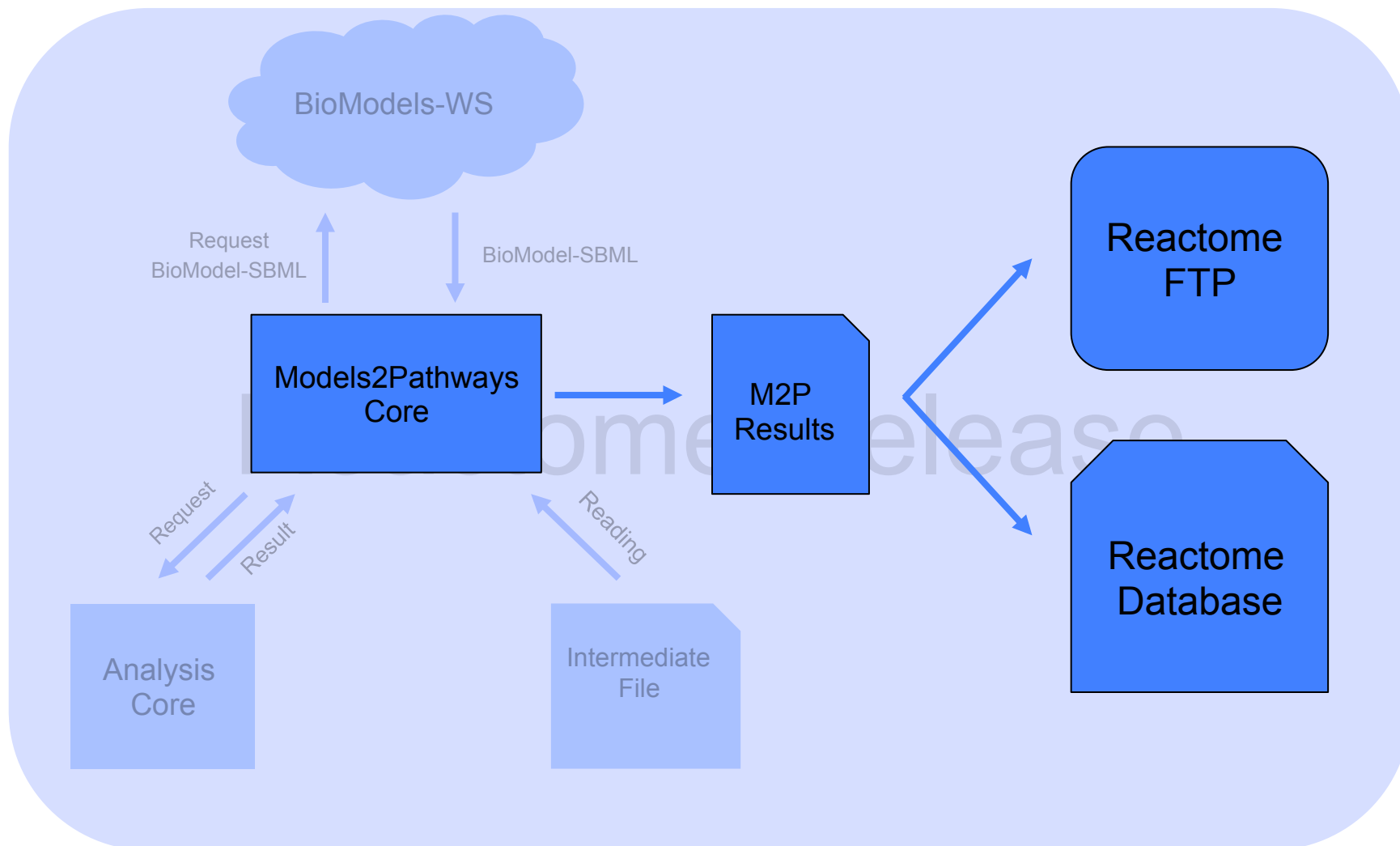# Models2Pathways – Overview

Models2Pathways – Overview

Models2Pathways – Overview

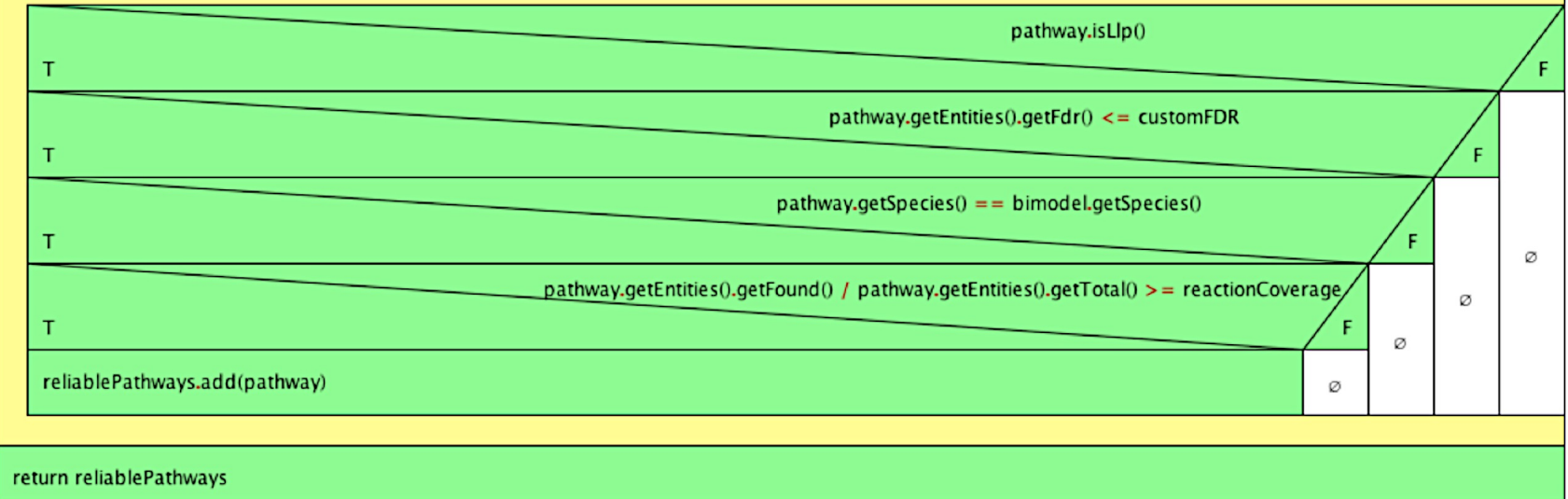# Models2Pathways – Overview

Models2Pathways – Significant Pathways
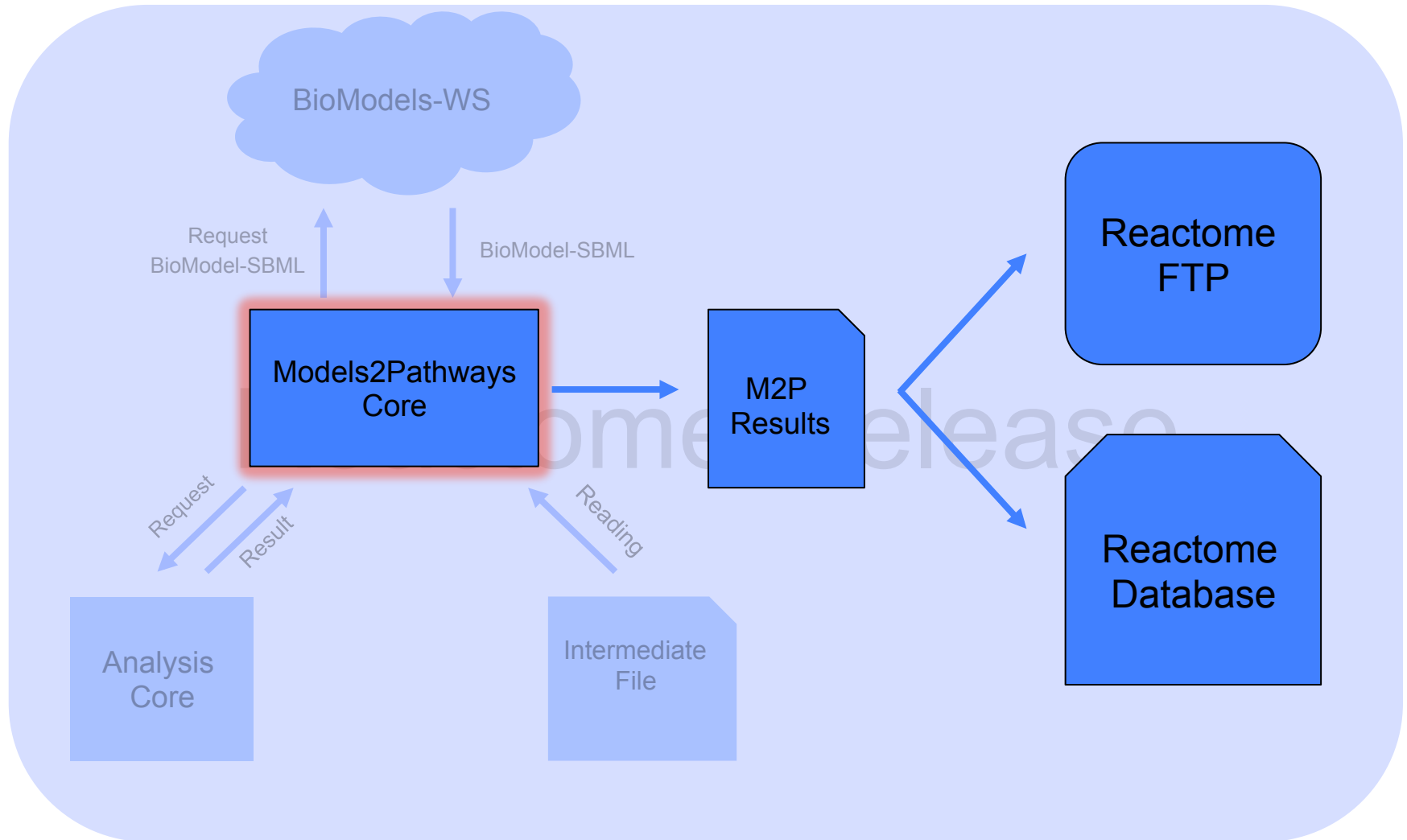
```
public List<PathwaySummary> getReliablePathways(
List<PathwaySummary> pathways,
Double customFDR,
BioModel bioModel,
Double reactionCoverage)
```

List<PathwaySummary> reliablePathways = new ArrayList<>()

for (PathwaySummary pathway : pathways)

pathway.isLlp()

T   F

pathway.getEntities().getFdr() <= customFDR

T   F

pathway.getSpecies() == bimodel.getSpecies()

T   F   ∅

pathway.getEntities().getFound() / pathway.getEntities().getTotal() >= reactionCoverage

T   F   ∅   ∅

reliablePathways.add(pathway)   ∅

return reliablePathways

REACTOME
A CURATED PATHWAY DATABASE

EMBL-EBI

OICR
Ontario Institute
for Cancer Research

NYU Langone
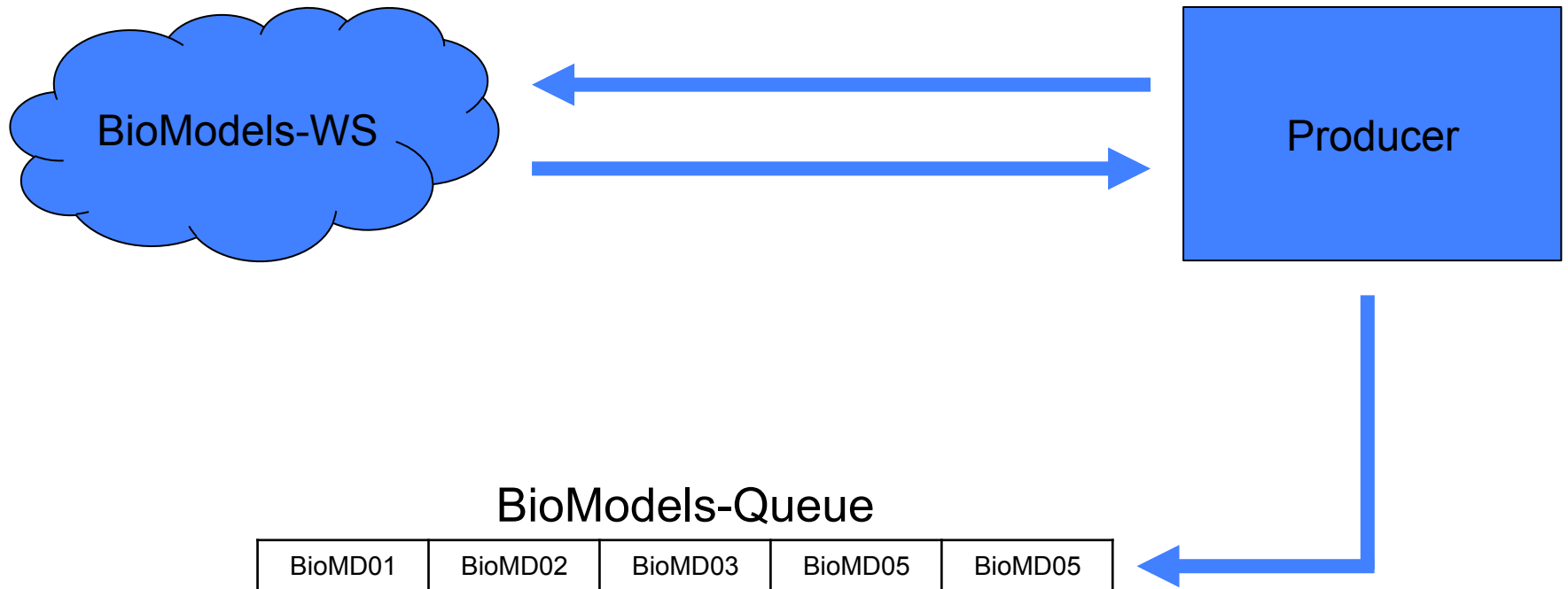MEDICAL CENTER

Models2Pathways – Overview

Models2Pathways – Core

Models2Pathways – Core

Models2Pathways – Core