

# Front-end

## Analysis

analysisID  
string: descriptionOfOriginalAnalysis  
list<User>: subscribers

## Model

modelID  
string: descriptionOfModel

## User

userID  
string: name  
string: email

# API

## RequestNotification

scanRequestID  
string: descriptionOfOriginalAnalysis  
string: descriptionOfModel  
string: descriptionOfRecastPotential

## ScanRequest

list<PointRequests>: scanPoints  
list<string>: parameters  
string: description of model  
scanRequestID  
analysisID  
modelID  
userID: requester  
userID: responder

## ScanResponse

list<PointResponse>: scanResponse  
scanRequestID  
analysisID  
modelID

## PointRequest

list<ElementRequest>: requests  
map<string,double>: parameterPoint  
pointRequestID  
analysisID  
modelID  
userID: requester

## PointResponse

list<BasicResponse>: basicAnswers  
double: lumiWeightedEfficiency  
double: totalLuminosity  
double: lower1sigLimitOnCrossSectionWrtReference  
double: upper1sigLimitOnCrossSectionWrtReference  
double: lower2sigLimitOnCrossSectionWrtReference  
double: upper2sigLimitOnCrossSectionWrtReference  
TH1\* (optional): mergedSignalTemplateWrtReference  
double: logLikelihoodAtReference  
pointRequestID  
analysisID  
modelID

## BasicRequest

LHE file: signal events  
int: numberOfEvents  
double: referenceCrossSection  
string: conditions description  
basicRequestID  
analysisID  
modelID  
userID: requester

## BasicResponse

double: overallEfficiency  
double: nominalLuminosity  
double: lower1sigLimitOnCrossSection  
double: upper1sigLimitOnCrossSection  
double: lower2sigLimitOnCrossSection  
double: upper2sigLimitOnCrossSection  
double: lower1sigLimitOnRate  
double: upper1sigLimitOnRate  
double: lower2sigLimitOnRate  
double: upper2sigLimitOnRate  
TH1\* (optional): signalTemplate  
double: logLikelihoodAtReference  
double: referenceCrossSection  
basicRequestID  
analysisID  
modelID

# Back-end

## PointProcessingTask

process(PointRequest): PointResponse  
  
*Note: associated to basic processing tasks, but the process method may need additional information that is not contained in BasicResponse.*

## BasicProcessingTask

process(BasicRequest): BasicResponse  
  
*Note: basic processing tasks can work independently.*