Database documentation

Installation of MongoDB:

Download MongoDB version 2.11.1 and follow the instructions in this tutorial:

http://docs.mongodb.org/manual/tutorial/install-mongodb-on-windows/

Overview about database in perfsonarServer:
Package information for "perfsonarserver.database":

TO = Transfer Object

response_to are the answers to the requests by the connection.

database_to are for insertion into the MongoDB. Easy convertion of JavaObjects into DBObjects and vice versa.

cache_to are for the management of cache chunks.

CacheEmptyException: used for an exception if the requested data isn't present in the database.

The class **DataAccess** processes the requests from the connection and manages the answer.

The class **Cache** manages the database and is used by the **DataAccess**.

The **Cache** is divided in chunks, so you know if data is present for a given period. One chunk stands for one period of data.

What doesn't work?

- Auto update (getting data for a not complete chunk)
- Implementing other features like Throughput data, Utilization etc.
- Deletion isn't thread safe
- Evaluate data