**JDG Site Questionnaire**

**Goal**

The goal of this document is to collect the relevant information for reviewing a customer's JDG implementation or design , reviewing it and provide feedback that will address the following aspects:

Does the system follow best practice recommendations?

Are there any risks or complexities that should be noted?

Are there any aspects of the system that are not covered by the support subscription?

**Multiple Data Grids**

Each data grid is has its own JDG instance or instances and they are not shared between grids.

How many data grids does the system include?

If there is more then one data grid fill the below Data Grid grid section , once for each Data Grid.

**Data Grid**

Environment

*OS,*

Which OS are the JDG instances running on? Linux 2.6.18

Is there a a virtualization or cloud layer ? If so which one? No

*Network*

How many physical machines? Maximum 3 machines in a cluster

Are all machines in the same LAN? Yes

What is the Network bandwidth?

*JVM*

How many JVMs per machine? Up to 30 JVMs

How much memory is available for each JVM? 25GB

What are the JVM settings(command line parameters)

JAVA\_JVM\_ARG=" -Djava.util.Arrays.useLegacyMergeSort=true "

JAVA\_JVM\_ARG=" $JAVA\_JVM\_ARG -Xms24g "

JAVA\_JVM\_ARG=" $JAVA\_JVM\_ARG -Xmx24g "

#JAVA\_JVM\_ARG=" $JAVA\_JVM\_ARG -XX:+UseConcMarkSweepGC "

#JAVA\_JVM\_ARG=" $JAVA\_JVM\_ARG -XX:+UseTLAB "

#JAVA\_JVM\_ARG=" $JAVA\_JVM\_ARG -XX:+CMSIncrementalMode "

#JAVA\_JVM\_ARG=" $JAVA\_JVM\_ARG -XX:+CMSIncrementalPacing "

#JAVA\_JVM\_ARG=" $JAVA\_JVM\_ARG -XX:CMSIncrementalDutyCycleMin=0 "

#JAVA\_JVM\_ARG=" $JAVA\_JVM\_ARG -XX:CMSIncrementalDutyCycle=10 "

#JAVA\_JVM\_ARG=" $JAVA\_JVM\_ARG -XX:MaxTenuringThreshold=0 "

#JAVA\_JVM\_ARG=" $JAVA\_JVM\_ARG -XX:SurvivorRatio=128 "

JAVA\_JVM\_ARG=" $JAVA\_JVM\_ARG -XX:CMSInitiatingOccupancyFraction=80 "

**Grid architecture**

Which JDG version is being used? 6.3.0

How many JDG instances are in the grid? You mean JVMs – up to 90

How are JDG nodes clustered (UDP, TCP)? UDP

Are there library mode instances? Yes

How are library mode installed and initiated?

Are there standalone mode instances? Yes

Which API is used to access the standalone instances? DistributedExecutionCompletionService

**Cache**

Each Data Grid can contain multiple caches , if the grid contains more then one cache fill the below section once for each cache.

We use proprietary caching; infinispan is used only to provide communication between the JVMs. One cache is used in distributed mode.

Is the cache Local, Distributed or Replicated?

Are there any cache stores being used? What type?

What is the passivation strategy?

What is the expiry strategy?

Are transactions being used ? How?

Data usage patterns

What is the average key size?

What is the average value size?

What is the total number of cache entries?

What is the read/write pattern?

What is the read frequency?

What is the write frequency?