

BSPPeer

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Procedure

- Listen on peer host:port
- Initialize IO
 - Input
 - Split class
 - Restore split data from BSPTask.split
 - Output Dir
 - Reinitialize Writer
- Initialize Messaging service (HamaMessageManagerImpl.java)
- Initialize Barrier Sync service

BSPPeerImpl

- Task
 - [TaskAttemptID](#)
 - partition
 - splitClass
 - split: [ByteWritable](#)
 - superstep
- [MessageManager](#)
 - [AbstractMessageManager](#)
 - a list of message event listener: [MessageEventListener](#)
 - local queue: [MessageQueue](#)/ [MemoryQueue](#)
 - local queue for next iteration: [MessageQueue](#)/ [SynchronizedQueue](#)
 - maxCachedConnections: default 100
 - compressor: [SnappyCompressor](#)
 - out going message manager: [OutgoingMessageManager](#)/ [OutgoingPOJOMessageBundle](#)
 - [HamaMessageManagerImpl](#)
 - remote listening
 - LRUCache
- IO
 - init input
 - instantiate and restore [InputSplit](#) through split class
 - read next record or pair: [TrackedRecordReader](#)
 - output dir: "bsp.output.dir" - tmp-\${currentTimeMillis}/part-\${partition}
 - collector: [OutputCollector](#) encapsulates writer (default [TextOutputFormat](#)).