Envoy XIPC Java Client

Version 3.X

Release Notes

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RELEASE NOTES

Envoy XIPC Java Client for version 3.X

The Java network client package for Envoy Technologies' XIPC version 3.X is supplied as a zip file, JavaXIPC3.zip. Unzip this file to any desired location. When unzipped, the installed files include the following directories and files:

Directory Name	Files	Description
Doc	Index.html	This is the starting point for the API documentation (in javadoc format).
	Tutorial.html	This is a brief "getting started" page, based on the sample programs client.java and server.java.
	Jxipc.html	This describes the Java version of the Envoy XIPC interactive tool.
Jar	Jxipc.jar	This contains a Java version of the Envoy XIPC interactive tool, using theEnvoy XIPC Java client package.
	XIPC30.jar	This contains the Envoy XIPC network client package, javaxipc30. This file should be included in the CLASSPATH environment variable or parameter list when compiling or running applications that will use it.
samples		The samples directory contains sample programs, including: - a client-server application, along with their C language analogs, - the complete source for the jxipc interactive tool, which exercises each of the Java Envoy XIPC APIs.

The Java Envoy XIPC API was designed to be like the existing 'C language' API. This makes it easy for developers familiar with the C API to rapidly transition to Java Envoy XIPC development. The Java API offers the full range of functionality, excluding the asynchronous completion options, as the C API.

The Java classes were built using JDK 1.1.8, and tested with JDK 1.1.8 and JDK 1.3.1.

All of the XIPC Network API's are implemented except:

1) XipcIdleWatch

2) XipcInfoUser

3) QueSendReceive

4) Momsys APIs

Asynchronous completion options are not implemented. We suggest using Java threads to perform asynchronous operations.

The list of implemented API's is:

Subsystem	API's				
XIPC	XipcAbort	XipcFreeze	XipcLogin	XipcLogout	XipcUnfreeze
QueSys	QueAccess	QueBrowse	QueCopy	QueCreate	QueDelete
	QueDestroy	QueFreeze	QueGet	QueInfoQue	QueInfoSys
	QueInfoUser	QueMsgHdrDup	QuePurge	QuePut	QueRead
	QueReceive	QueRemove	QueSend	QueSpool	QueTrigger
	QueUnfreeze	QueUnget	QueUntrigger	QueWrite	
MemSys	MemAccess	MemCreate	MemDelete	MemDestroy	MemFreeze
	MemInfoMem	MemInfoSec	MemInfoSys	MemInfoUser	MemLock
	MemRead	MemSecDef	MemSecOwn	MemSecPriv	MemSecRel
	MemSecUndef	MemTrigger	MemUnfreeze	MemUnlock	MemUntrigger
	MemWrite				
SemSys	SemAccess	SemAcquire	SemCancel	SemClear	SemCreate
	SemDelete	SenDestroy	SemFreeze	SemInfoSem	SemInfoSys
	SemInfoUser	SemRelease	SemSet	SemUnfreeze	SemWait

The Java version of the XIPC interactive interpreter, jxipc, implements all the above API's and all available options, except the QueSys QUE_RETSEQ option for returning Seq# instead of priority (this option is implemented by the Java client package).

Bug Fixes

1. An inefficiency in the QueReceive method has been eliminated.
2. There was a bug in the QueCopy and QueRead methods wherein when reading a large message, the message would only be partially read from the network connection. This would cause all further network API calls on the same connection to fail. This has been fixed.