

Photon Configuration (PhotonSocketServer.xml) What:

Version: 2.6.x

Author: Last update:	developer@exitgames.com 27.07.2011			
Section	Setting	Value Defau	ult EN	ET Description
<pre><instance></instance></pre>	Multiple instances are supported. Each inst	ance has its own node in the co	nfig file. I	PhotonControl will currently only start "Instance1" but the .cmd files could be modified to start other instances
	EnablePerformanceCounters	TRUE FA	ALSE	Determines whether the server will enable its performance counters or not. The performance counter implementation creates a shared memory segment to allow the counter DLL to communicate with the server. be able to create this shared memory segment requires that the user running the server has suitable privilege If you wish to run the server without those privileges (and without publishing performance data) then you can set this value to "false".
	[ENET] DatagramSocketAllocatorPoolSize	1	L000 x	The number of datagram sockets that are kept in the pool for later reuse. This is a classic trade of speed vs
	PingIntervalMilliseconds	1	1000 x	resources. The pooled sockets are faster to allocate but take up memory all the time. The Ping interval is how often a ping is sent from server to client when no data is flowing. Sending pings adds load to the server and so this can be tuned; a larger value leads to less load on the server. The ENet protocol usually uses a fixed value for this parameter. Defaults to the ENet standard value of 500ms.
	DataSendingDelayMilliseconds	50	150 x	The data sending delay is how long the server will wait to accumulate more data to send to the client in the same datagram. A larger value can lead to fewer datagrams being sent as more data can be put into a single datagram, however this also increases latency as the server waits longer before sending responses. If using the 'standard' ENet code then data is accumulated until a call to enet_host_flush() or enet_host_service().
	AckSendingDelayMilliseconds	50	250 x	potentially piggyback the ACK onto a data packet if a response packet is generated within the delay period. A larger value can lead to fewer datagrams being sent as an ACK can be put into the same datagram as a reply. doesn't increase latency. If using the 'standard' ENet code then data is accumulated until a call to
	MinimumRetransmitTimeout ENETBufferAllocatorPoolSize		200 x	retransmission time. Peers with very low latency could want to retransmit before the value that this setting allows and will be delayed. This value allows you to reduce the speed at which data is retransmitted and redu the load on the server. If you are sending reliable data and have low latency peers and require minimum later then setting this value to anything but zero will likely increase latency and reduce the number of peers that you can support with given CPU resources. The number of buffers that are kept in the pool for later reuse. This is a classic trade of speed vs resources. The
	ENETPreallocateBuffers	FA	ALSE x	pooled buffers are faster to allocate but take up memory all the time. If true then the buffer allocator's buffer pool is preallocated on start up. That is ENETBufferAllocatorPoolSize buffers are added to the pool during process start up rather than allowing them to accumulate as the server allocates and released buffers. This is useful when the low contention allocator is being used as the low contention allocator is only more performant when working from pooled buffers.
	[Throtteling] PerPeerMaxReliableDataInTransit	16384 16	5384	The maximum amount of reliable data that a peer can send and which the peer has not as yet received an ACI for. In bytes. Once this amount of data has been sent all future reliable data will be queued.
	PerPeerTransmitRateLimitKBSec	12	12	The maximum amount of data (reliable AND unreliable) that can be sent in a second (in KB). This can be used limit the amount of data that a peer can send. When the limit is reached further reliable data is queued and unreliable data is dropped. The default, 12, is a purely arbitrary value that has no meaning and has NOT been carefully calculated to be in any way special.
	PerPeerTransmitRatePeriodMilliseconds		250	How often we check the transmit rate limit. By default we check every 250ms (i.e. 4 times per second) and we scale the PerPeerTransmitRateLimitKBSec by 4 for each check. A smaller value makes the data flow more consistent, a larger value makes the flow more jerky but uses less server resources.
	MaxQueuedDataPerPeer		5536	The maximum amount of reliable data that a peer can queue. Reliable data is queued when either the PerPeerMaxReliableDataInTransit or the PerPeerTransmitRateLimitKBSec limits are exceeded. Once this limit exceeded all future reliable sends will return an error code.
	MinimumTimeout MaximumTimeout		0000 x	actual time is determined dynamically per peer based on the RTT history.
	[TCP]		1005	
	TCPBufferSize TCPBufferAllocatorPoolSize		500	The size of buffer used during TCP data transfer. Note that this does not in any way restrict the message size. ideal to have the buffer size be slightly more than the average message size. The number of buffers used for TCP data transfer that are kept in the pool for later reuse. This is a classic trace.
	StreamSocketAllocatorPoolSize		250	of speed vs resources. The pooled buffers are faster to allocate but take up memory all the time. The number of TCP sockets that are kept in the pool for later reuse. This is a classic trade of speed vs resource. The pooled sockets are faster to allocate but take up memory all the time.
	[DEBUGGING] ProduceDumps DumpType	TRUE FALS	SE .	Switch to enable or disable creation of "dump files" in case of a crash. Dump files are essential to find issues the Photon Core. Defines the type of crash dumps to write. The types are "Full", "Maxi" and "Mini" and they include less information from first to last but also require less space on the harddisk.
	MaxDumpsToProduce		10	Configures how many dump files are written maximum. If the files are moved or deleted, new ones can be written.
<iopool></iopool>			-	to the read completions, etc. This pool can also handle Enet protocol operations if deblocked into commands it is sent to the "Business Logic" thread pool for passing into the CLR and managed
	NumThreads		2	This value determines the number of threads used for socket I/O. A value of 4-8 tends to be good but you sho profile your server to see what works best. Use the I/O thread performance counters to see when all I/O thread performance counters to see when all I/O threads busy when the server is under load. If set to 0 then the I/O Pool uses 2 x the number of CPU cores as the number of threads; whilst this works well for up to a dual core it isn't especially useful if the resulting number threads is more than 8.
	Priority	Nor	rmal	Thread priority of the IO threads. Valid values are "Lowest", "Below Normal", "Normal", "Above Normal" and "Highest".
hreadPool>	This is the "Business Logic" thread pool. It's	used for all CLR operations.		
	InitialThreads MinThreads MaxThreads	4 4 4	5 5 10	This setting determines the number of threads that the thread pool starts with. This setting determines the minimum number of threads that the thread pool will contain. This setting determines the maximum number of threads that the thread pool will contain. Note that if Initia min and max are all the same then the pool is a static pool rather than a dynamic pool. Static pools are more efficient than dynamic pools as the work item dispatch process is optimised. Dynamic pools can grow and shr as demand changes. If your work items are generally short lived and the pool rarely expands in general use the you can get a performance boost by setting the pool up as a static pool.
	MaxDormantThreads		4	This setting determines the maximum number of threads that can be 'dormant', i.e. not currently performing work. Once the number of dormant threads exceeds this amount some threads will be shut down.
	PoolMaintPeriod	5	5000	This setting determines how often the pool is maintained. The value is in milliseconds. A maintenance thread wake up every X ms to check on and possibly shut down dormant threads.

	DispatchTimeout		100	This setting determines when a new thread may be started. If a work item is dispatched and this number of milliseconds passes before a worker thread picks up the item and begins processing it then a new thread may be
	Deionity		Normal	started. Thread priority of the business logic threads. Valid values are "Lowest", "Below Normal", "Normal", "Above
	Priority		Normal	Normal" and "Highest".
<enetthreadpool></enetthreadpool>			s used for all E	net protocol operations (i.e. deblocking inbound datagrams, acking on and sending ACKs, dealing with periodic
	protocol events for peers; e.g. retransmiss			Con Thomas ID and
	InitialThreads MinThreads	2 2	5 5	See ThreadPool. See ThreadPool.
	MaxThreads OnlyDispatchTimers	2	10 FALSE	See ThreadPool. If set to true the only Enet timer operations use this pool. If set to false then all Enet operations (i.e. protocol
				level operations such as deblocking inbound data and processing ACKs etc) are dispatched to this pool.
	MaxDormantThreads		4	See ThreadPool.
	PoolMaintPeriod DispatchTimeout		5000 100	See ThreadPool. See ThreadPool.
	Priority		Normal	Thread priority of the enet threads. Valid values are "Lowest", "Below Normal", "Normal", "Above Normal" and "Highest".
<tcplisteners></tcplisteners>				
<pre><tcplistener></tcplistener></pre>	IDAddross	0.0.0		The ID Address to listen on a gr 102 100 0.1 or 0.0 0.0 to listen on ALL interferes
	Port Port	0.0.0.0 4530	5051	The IP Address to listen on, e.g. 192.168.0.1 or 0.0.0.0 to listen on ALL interfaces. The port to listen on.
	ListenBacklog		150	The size of the listen backlog queue. This affects the number of connections that can be established simultaneously; so, for example, if 151 clients attempt to connect at exactly the same time then the last one
				could be rejected. Note that each connection establishment attempt takes very little time and once the connection IS established the connection is not affected by the limit. So you can set the value to 10 and still hav
				10,000 concurrent active connections as long as no more than 10 attempt to connect at exactly the same time.
	RecvBufferSize		0	The size of the TCP recv buffer used by the TCP stack. This is also used to determine the TCP window size (which
				is used by the TCP stack for flow control). Defaults to zero which means "don't change" which causes the operating system's default value to be used.
	SendBufferSize		0	The size of the TCP send buffer used by the TCP stack. Defaults to zero which means "don't change" which cause the operating system's default value to be used.
	DisableNagle	TRUE	FALSE	Determines if Nagle's algorithm is in use on the connection. If set to true then Nagle is disabled and outbound TCP data will be sent as soon as it reaches the TCP stack. If set to false then Nagle is in operation and the TCP
				stack will attempt to colasce outbound data into fewer datagrams. Setting this setting to true might improve the
				latency of your TCP connections a little, at the expense of there being more datagrams sent.
	InactivityTimeout	5000	1000	A time, in ms, which is allowed between receiving data on a connection. If this time is exceeded then the connection is deemed to be inactive and is aborted. To ensure that this timer doesn't fire inappropriately you
				should make sure that there is an inbound TCP message on each connection more frequently than the value set
	OverrideApplication			here. Set to zero to disable the inactivity timer. Can be used to override the application used for this connector. The application selection sent by clients will be
	DefaultApplication			ignored. The value can be the name of any setup application. Defines a default application for a Listener. This DefaultApplication is used, when a client tries to connect to a
				application that is not loaded. For this Listener, the DefaultApplication overrides the "Default" application set in the Applications node. The value can be the name of any setup application.
<udplisteners></udplisteners>				
<udplistener></udplistener>	IPAddress	0.0.0.0		The IP Address to listen on, e.g. 192.168.0.1 or 0.0.0.0 to listen on ALL interfaces.
	Port ListenBacklog	5055	5055 500	The port to listen on. The size of the listen backlog queue. This affects the number of connections that can be established
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				connection IS established the connection is not affected by the limit. So you can set the value to 10 and still have
				10,000 concurrent active connections as long as no more than 10 attempt to connect at exactly the same time.
	RecvBufferSize		0	The size of the UDP recv buffer used by the UDP stack. Defaults to zero which means "don't change" which causes the operating system's default value to be used. Larger values lead to fewer UDP datagrams being
				discarded if more datagrams arrive in a burst faster than the server can process them.
	SendBufferSize		0	The size of the TCP send buffer used by the TCP stack. Defaults to zero which means "don't change" which cause
	OverrideApplication			the operating system's default value to be used. Can be used to override the application used for this connector. The application selection sent by clients will be
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				the Applications node. The value can be the name of any setup application.
Runtime>	Defines the Photon Runtime Assembly to			
<runtime></runtime>	Defines the Photon Runtime Assembly to use. Assembly	PhotonHostRuntime,		
<runtime></runtime>	use.	PhotonHostRuntime,		The details of the Photon Runtime assembly to use. Normal .Net assembly loading rules are used to locate the By default, the latest DotNet runtime is used to host Photon Applications. Per instance, this setting allows to load
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<applications></applications>	Assembly CLRVersion EnableMDA Type Default PassUnknownAppsToDefaultApp Name SharedDirectory BaseDirectory Assembly Type EnableShadowCopy	PhotonHostRuntime. PhotonDomainMana ger	TRUE Shared" FALSE	The details of the Photon Runtime assembly to use. Normal .Net assembly loading rules are used to locate the By default, the latest DotNet runtime is used to host Photon Applications. Per instance, this setting allows to loa a select version. Values are "v4.0" or "v2.0" or complete versions with build numbers. Example: CLRVersion = "2.0" Enables the managed debugging assistants. Configure these with a PhotonSocketServer.exe.mda.config file in the same directory as the exe. The name of the type that is used as the Photon Runtime's domain manager. This type MUST be located in the assembly detailed by the Runtime value. MUST derive from PhotonHostRuntimeInterfaces.IPhotonDomainManager. A default application to use if no application is specified. If true then if an unknown application name is supplied the the default application is used. If false then this is a fatal error which will terminate a connection. Arbitrary name for the application, used for dispatch. Used to contain 'shared' assemblies. WILL BE located under the Base Directory. This folder should contain a "bin" folder with all the application assemblies and config files, etc. Details of the assembly to use. Normal .Net assembly loading rules are used to locate this assembly and it can contain a complete assembly specification string (including PublicKeyToken if requried). The name of the type that will be loaded as the application. MUST derive from PhotonHostRuntimeInterfaces.IPhotonApplication. If enabled then the CLR will create copies of the assembly files in a private directory when they are loaded. This allows you to overwrite the originals, for update, say. The copies are used until the application domain that's using them is shut down.
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<applications></applications>	Assembly CLRVersion EnableMDA Type Default PassUnknownAppsToDefaultApp Name SharedDirectory BaseDirectory Assembly Type EnableShadowCopy	PhotonHostRuntime. PhotonDomainMana ger	TRUE Shared" FALSE	The details of the Photon Runtime assembly to use. Normal .Net assembly loading rules are used to locate the By default, the latest DotNet runtime is used to host Photon Applications. Per instance, this setting allows to loa a select version. Values are "v4.0" or "v2.0" or complete versions with build numbers. Example: CLRVersion = "2.0" Enables the managed debugging assistants. Configure these with a PhotonSocketServer.exe.mda.config file in the same directory as the exe. The name of the type that is used as the Photon Runtime's domain manager. This type MUST be located in the assembly detailed by the Runtime value. MUST derive from PhotonHostRuntimeInterfaces.IPhotonDomainManager. A default application to use if no application is specified. If true then if an unknown application name is supplied the the default application is used. If false then this is a fatal error which will terminate a connection. Arbitrary name for the application, used for dispatch. Used to contain 'shared' assemblies. WILL BE located under the Base Directory. This folder should contain a "bin" folder with all the application assemblies and config files, etc. Details of the assembly to use. Normal .Net assembly loading rules are used to locate this assembly and it can contain a complete assembly specification string (including PublicKeyToken if required). The name of the type that will be loaded as the application. MUST derive from PhotonHostRuntimeInterfaces.IPhotonApplication. If enabled then the CLR will create copies of the assembly files in a private directory when they are loaded. This allows you to overwrite the originals, for update, say. The copies are used until the application domain that's using them is shut down. If enabled the app will restart automatically if files changes occur. A new copy of the application is started; existing connections to the old copy are allowed to continue until all connections disconnect at which point the app domain is unloaded. The IPhotonApplicationControl.OnStopRequested() method i
<pre><runtime> <applications><application></application></applications></runtime></pre>	Assembly CLRVersion EnableMDA Type Default PassUnknownAppsToDefaultApp Name SharedDirectory BaseDirectory Assembly Type EnableShadowCopy EnableAutoRestart	PhotonHostRuntime. PhotonDomainMana ger	TRUE Shared" FALSE FALSE	The details of the Photon Runtime assembly to use. Normal .Net assembly loading rules are used to locate the By default, the latest DotNet runtime is used to host Photon Applications. Per instance, this setting allows to loa a select version. Values are "v4.0" or "v2.0" or complete versions with build numbers. Example: CLRVersion = "2.0" Enables the managed debugging assistants. Configure these with a PhotonSocketServer.exe.mda.config file in the same directory as the exe. The name of the type that is used as the Photon Runtime's domain manager. This type MUST be located in the assembly detailed by the Runtime value. MUST derive from PhotonHostRuntimeInterfaces.IPhotonDomainManager. A default application to use if no application is specified. If true then if an unknown application name is supplied the the default application is used. If false then this is a fatal error which will terminate a connection. Arbitrary name for the application, used for dispatch. Used to contain 'shared' assemblies. WILL BE located under the Base Directory. This folder should contain a "bin" folder with all the application assemblies and config files, etc. Details of the assembly to use. Normal .Net assembly loading rules are used to locate this assembly and it can contain a complete assembly specification string (including PublicKeyToken if required). The name of the type that will be loaded as the application. MUST derive from PhotonHostRuntimeInterfaces.IPhotonApplication. If enabled then the CLR will create copies of the assembly files in a private directory when they are loaded. This allows you to overwrite the originals, for update, say. The copies are used until the application domain that's using them is shut down. If enabled the app will restart automatically if files changes occur. A new copy of the application is started; existing connections to the old copy are allowed to continue until all connections disconnect at which point the app domain is unloaded. The IPhotonApplicationControl.OnStopRequested() method i

	ExcludeFiles	IIII	By default no "ExcludeFiles" entry means exclude nothing. Example: ExcludeFiles="log4net.config"
<tcpflashlisteners></tcpflashlisteners>			
<tcpflashlistener></tcpflashlistener>	{see TCPListener}		
\TCFFIdSHLIStellel>	(see repuisiener)		
<tcppolicylisteners></tcppolicylisteners>			
,			
<tcppolicylistener></tcppolicylistener>	{see TCPListener}		
<tcpchunklisteners></tcpchunklisteners>	{for internal use}		
TCDCh weld interest by	(for internal con)		
<tcpchunklistener></tcpchunklistener>	{for internal use} IPAddress		
	Port	666	
	Application	000	
	ListenBacklog	150	
	RecvBufferSize	0	
	SendBufferSize	0	
	DisableNagle	FALSE	
	PacketHeader		
	Separator	0A	
	Min	0	
	Max	1024	
	InactivityTimeout	1000	
<udpchunklisteners></udpchunklisteners>	{for internal use}		
«UDDChunklistenen »	{for internal use}		
<udpchunklistener></udpchunklistener>	IPAddress		
	Port	6000	
	Application	0000	
	ListenBacklog	150	
	RecvBufferSize	0	
	SendBufferSize	0	
	PacketHeader	<u> </u>	
	Min	0	
	Max	1024	
<configserver></configserver>		esent then you can configure a listener which presents a tex	t menu based interface to telnet clients. The menu lets you stop, start and restart apps and also allows you to
	IPAddress		
	Port	943	
	ListenBacklog	5	