

What: Photon Configuration (PhotonServer.config)

3.2.x

Version: Author: Last update: developer@exitgames.com 02.04.2013

Section	02.04.2013 Setting	PhotonServer	Default	Description			
	Jetting	.config	Delault				
<instance></instance>	Multiple instances are supported. Each instance has its own node in the config file. PhotonControl will currently only start "Instance1" but the .cmd files could be modified to start other						
	instances.						
	ConfigName			Optional "ConfigName" value from config file if present it will be logged.			
	ReportOnJob		FALSE	It causes photon to determine if it is running inside a win32 job object (something that is used by process starting code to place limits on what the process can do) and if so reports on the limits that are currently imposed.			
	LogFileLocation			Sets the path for logfiles. Default is the location where the server is started. Can be absolute or relative to the PhotonSocketServer.exe			
	MaxMessageSize		512000	Determines the maximum number of bytes that a UDP, TCP or WebSockets message might have that is received or sent by the server. If the message exceeds the MaxMessageSize limit, the clien will be disconnected from the server. MaxMessageSize can be overwritten in the appropriate			
	[TCP]			listener			
	TCPBufferSize		4096	The size of buffer used during TCP data transfer. Note that this does not in any way restrict the message size. It's ideal to have the buffer size be slightly more than the average message size.			
	TCPBufferAllocatorPoolSize		500	The number of buffers used for TCP data transfer that are kept in the pool for later reuse. This is classic trade of speed vs resources. The pooled buffers are faster to allocate but take up memory			
	StreamSocketAllocatorPoolSize		250	all the time.  The number of TCP sockets that are kept in the pool for later reuse. This is a classic trade of spee vs resources. The pooled sockets are faster to allocate but take up memory all the time.			
	[UDP/ENET]						
	DatagramSocketAllocatorPoolSize		1000	The number of datagram sockets that are kept in the pool for later reuse. This is a classic trade of speed vs resources. The pooled sockets are faster to allocate but take up memory all the time.			
	PingIntervalMilliseconds		1000	The Ping interval is how often a ping is sent from server to client when no data is flowing. Sendin 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			
	DataSendingDelayMilliseconds		5	standard value of \$00ms. 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		5	The data sending delay is how long the server will wait before sending an ACK to the client. This allows it to 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. This doesn't increase latency. If using the 'standard' ENet code then data is accumulated until a call to enet_host_flush() or enet_host_service().			
	Minimum Retransmit Time out		200	Enet retransmission times are calculated based on the accumulated RTT of the peer. This setting sets a minimum retransmission time. Peers with very low latency could want to retransmit befor the value that this setting allows and will be delayed. This value allows you to reduce the speed a which data is retransmitted and reduce the load on the server. If you are sending reliable data and have low latency peers and require minimum latency 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.			
	ENETBufferAllocatorPoolSize		5000	The number of buffers that are kept in the pool for later reuse. This is a classic trade of speed vs resources. The pooled buffers are faster to allocate but take up memory all the time.			
	MinimumTimeout	5000	5000	The minimum amount of time before an Enet peer's lack of response causes a timeout disconnect. Note that the actual time is determined dynamically per peer based on the RTT history.			
	MaximumTimeout	30000	30000	The maximum amount of time before an Enet peer's lack of response causes a timeout disconnect. Note that the actual time is determined dynamically per peer based on the RTT history.			
	SetValidateCRCifPresent		FALSE	If enabled: if the incoming datagram contains an optional CRC value, the checksum is validated. I the peer had been created with the CRC value present (indicated by a "CRC" flag in the UDP header that is set by the client library), all outbound datagrams that are sent to the client will			
	Contain the CRC value, too.  [Udp/Enet Throtteling]						
	PerPeerMaxReliableDataInTransit	51200	16384	The maximum amount of reliable data that a peer can send and which the peer has not as yet received an ACK for. In bytes. Once this amount of data has been sent all future reliable data will be queued.			
	PerPeerTransmitRateLimitKBSec	256	256	The maximum amount of data (reliable AND unreliable) that can be sent in a second (in KB). This can be used to 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		200	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	512000	163840	The maximum amount of reliable data that a peer can queue. Reliable data is queued when eith the PerPeerMaxReliableDataInTransit or the PerPeerTransmitRateLimitKBSec limits are exceeded Once this limit is exceeded all future reliable sends will return an error code.			
	[DEBUGGING]			<u></u>			
	ProduceDumps		TRUE	Switch to enable or disable creation of "dump files" in case of a crash. Dump files are essential to find issues in the Photon Core.			
	DumpType  MayDumpsTeReduce		Full	Defines the type of crash dumps to write. The types are "Full", "Maxi" and "Mini" and they includ 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.			

	This thread pool handles all I/O operations such as datagram sending and reception, tcp read completions, etc. This pool can also handle Enet protocol operations if ENetThreadPool\OnlyDispatchTimers is set to "true". Once inbound data has been deblocked into commands it is sent to the "Business Logic" thread pool for passing into the CLR and managed code.					
	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 should profile your server to see what works best. Use the I/O thread performance counters to see when all I/O threads are 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 of threads is more than 8.		
	Priority		Normal	Thread priority of the IO threads. Valid values are "Lowest", "Below Normal", "Normal", "Above Normal" and "Highest".		
<threadpool></threadpool>	This is the "Business Logic" thread pool. It's used for	all CLR operations.				
	InitialThreads		4	This setting determines the number of threads that the thread pool starts with.		
	MinThreads		4	This setting determines the minimum number of threads that the thread pool will contain.		
	MaxThreads		4	This setting determines the maximum number of threads that the thread pool will contain. Note that if Initial, 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 shrink as demand changes. If your work items are generally short lived and the pool rarely expands in general use then you can get a performance boost by setting the gool up as a static gool.		
	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		5000	This setting determines how often the pool is maintained. The value is in milliseconds. A maintenance thread will 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 started.		
	Priority		Normal	Thread priority of the business logic threads. Valid values are "Lowest", "Below Normal",  "Normal", "Above Normal" and "Highest".		
<enetthreadpool></enetthreadpool>	The Enet Thread Pool is one of three thread pools in	the server. This is used for	r all Enet pi	otocol operations (i.e. deblocking inbound datagrams, acking on and sending ACKs, dealing with		
	InitialThreads	T	2	See ThreadPool.		
	MinThreads		2	See ThreadPool.		
	MaxThreads  MaxDormantThreads		5	See ThreadPool. See ThreadPool.		
	PoolMaintPeriod		5000	See ThreadPool.		
	DispatchTimeout		100	See ThreadPool.		
	Priority		Normal	Thread priority of the enet threads. Valid values are "Lowest", "Below Normal", "Normal", "Above Normal" and "Highest".		
	OnlyDispatchTimers		FALSE	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.		
<runtime></runtime>	Defines the Photon Runtime behavior.					
	Assembly	PhotonHostRuntime, Culture=neutral		The details of the Photon Runtime assembly to use. Normal .Net assembly loading rules are used to locate the assembly. The assembly MUST be signed by the Exit Games Photon Runtime key and the PublicKeyToken part of the assembly name must NOT be specified as we add that on ourselves before we load the assembly.		
	CLRVersion			By default, the latest DotNet runtime is used to host Photon Applications. Per instance, this setting allows to load a select version. Values are "v4.0" or "v2.0" or complete versions with build numbers. Example: CLRVersion = "2.0"		
	EnableMDA		FALSE	Enables the managed debugging assistants. Configure these with a PhotonSocketServer.exe.mda.config file in the same directory as the exe.		
	Туре					
	Type	PhotonHostRuntime .PhotonDomain		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		
	UnhandledExceptionPolicy		Ignore	The name of the type that is used as the Photon Runtime's domain manager. This type MUST be		
<applications></applications>	UnhandledExceptionPolicy	.PhotonDomain Manager	Ignore	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. Ignore, ReloadAppDomain, TerminateProcess		
<applications></applications>	UnhandledExceptionPolicy  Default	.PhotonDomain Manager		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.  Ignore, ReloadAppDomain, TerminateProcess  A default application to use if no application is specified.		
	UnhandledExceptionPolicy	.PhotonDomain Manager	Ignore TRUE	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. Ignore, ReloadAppDomain, TerminateProcess		
<pre><applications> </applications></pre>	UnhandledExceptionPolicy  Default PassUnknownAppsToDefaultApp	.PhotonDomain Manager		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. Ignore, ReloadAppDomain, TerminateProcess  A default application to use if no application is specified.  If true when an unknown application name is supplied the default application is used. If false then this is a fatal error which will terminate a connection.		
	UnhandledExceptionPolicy  Default	.PhotonDomain Manager	TRUE	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 PhotonHostBuntimeInterfaces. IPhotonDomainManager. Ignore, ReloadAppDomain, TerminateProcess  A default application to use if no application is specified.  If true when an unknown application name is supplied the default application is used. If false then		
	UnhandledExceptionPolicy  Default PassUnknownAppsToDefaultApp  Name SharedDirectory BaseDirectory	.PhotonDomain Manager	TRUE	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 PhotonathostRuntimeInterfaces. IPhotonathomainManager. Ignore, ReloadAppDomain, TerminateProcess  A default application to use if no application is specified. If true when an unknown application name is supplied 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.		
	UnhandledExceptionPolicy  Default PassUnknownAppsToDefaultApp  Name SharedDirectory	.PhotonDomain Manager	TRUE	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 Photonhost RuntimeInterfaces. IPhotonDomainManager. Ignore, ReloadAppDomain, TerminateProcess  A default application to use if no application is specified.  If true when an unknown application name is supplied 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. WIILL 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		
	UnhandledExceptionPolicy  Default PassUnknownAppsToDefaultApp  Name SharedDirectory BaseDirectory	.PhotonDomain Manager	TRUE	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 PhotonHostBuntimeInterfaces. IPhotonDomainManager. Ignore, ReloadAppDomain, TerminateProcess  A default application to use if no application is specified.  If true when an unknown application name is supplied 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 recurried).		
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	UnhandledExceptionPolicy  Default PassUnknownAppsToDefaultApp  Name SharedDirectory BaseDirectory Assembly  Type	.PhotonDomain Manager	TRUE	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 PhotonHostBuntimeInterfaces. IPhotonDomainManager. Ignore, ReloadAppDomain, TerminateProcess  A default application to use if no application is specified. If true when an unknown application name is supplied 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 renurierd).  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		
	UnhandledExceptionPolicy  Default PassUnknownAppsToDefaultApp  Name SharedDirectory BaseDirectory Assembly  Type EnableShadowCopy	.PhotonDomain Manager	TRUE "Shared"	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 PhotonAnostBuntimeInterfaces. IPhotonDomainManager. Ignore, ReloadAppDomain, TerminateProcess  A default application to use if no application is specified.  If true when an unknown application name is supplied 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 renurierd).  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 IPhotonApplication.Ontol.OnStopRequested() method is called when the unmanaged code wishes to 'kindly' unload an app domain, the app could inform the clients at this point.  ForceAutoRestart, if set to "true", implies "EnableAutoRestart" but aborts all existing connections		
	UnhandledExceptionPolicy  Default PassUnknownAppsToDefaultApp  Name SharedDirectory BaseDirectory Assembly  Type EnableShadowCopy  EnableAutoRestart  ForceAutoRestart	PhotonDomain Manager Ignore	"Shared"  FALSE	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 PhotonAnostRuntimeInterfaces. IPhotonDomainManager.  Ignore, ReloadAppDomain, TerminateProcess  A default application to use if no application is specified.  If true when an unknown application name is supplied 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 renuried).  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 is called when the unmanaged code wishes to 'kindly' unload an app domain, the app could inform the clients at this point.  ForceAutoRestart, if set to "true", implies "EnableAutoRestart" but aborts all existing connections rather than waiting for them to disconnect.		
	UnhandledExceptionPolicy  Default PassUnknownAppsToDefaultApp  Name SharedDirectory BaseDirectory Assembly  Type EnableShadowCopy  EnableAutoRestart	.PhotonDomain Manager Ignore	TRUE  "Shared"  FALSE  FALSE	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 PhotonAnostBuntimeInterfaces. IPhotonDomainManager. Ignore, ReloadAppDomain, TerminateProcess  A default application to use if no application is specified.  If true when an unknown application name is supplied 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 renurierd).  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 IPhotonApplication.Ontol.OnStopRequested() method is called when the unmanaged code wishes to 'kindly' unload an app domain, the app could inform the clients at this point.  ForceAutoRestart, if set to "true", implies "EnableAutoRestart" but aborts all existing connections		

<tcplistener></tcplistener>				
	IDAddress	0.000		The ID Address to listen on a grant 103 169 0.1 as 0.0 0.0 to listen on ALL interfaces
	IPAddress Port	0.0.0.0	5051	The IP Address to listen on, e.g. 192.168.0.1 or 0.0.0.0 to listen on ALL interfaces.  The part to listen on
	ListenBacklog	4530	150	The port to listen on.  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 sat time then the last one could be rejected. Note that each connection establishment attempt to very little time and once the connection IS established the connection is not affected by the lir So you can set the value to 10 and still have 10,000 concurrent active connections as long as n 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 "doo's changes" which causes the operating custom's default value to be used.
	SendBufferSize		0	"don't change" which causes the operating system's default value to be used. The size of the TCP send buffer used by the TCP stack. Defaults to zero which means "don't change" which causes the operating system's default value to be used.
	MaxPendingWrites		50	Flow control setting: configures the max amount of pending writes in buffers (see TCPBufferS
	MaxQueuedBuffers		200	Flow control setting:: configures the amount of buffers used to queue writes (see TCPBufferSi. More queueued buffers than pending writes means that we use less non-paged pool (a scarce
	DisableNagle	TRUE	TRUE	resource) as only pending writes use non-paged pool.  Determines if Nagle's algorithm is in use on the connection. If set to true then Nagle is disable and outbound TCP data will be sent as soon as it reaches the TCP stack. If set to false then Nag 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
	InactivityTimeout	5000	5000	expense of there being more datagrams sent A time, in ms, which is allowed between receiving data on a connection. If this time is exceede then the connection is deemed to be inactive and is aborted. To ensure that this timer doesn't inappropriately you should make sure that there is an inbound TCP message on each connecti more frequently than the value set here. Set to zero to disable the inactivity timer.
	DisconnectTimeout		120000	A time, in ms, which is allowed for the client to close the connection once the connection has been disconnected by the application.
	OverrideApplication			Can be used to override the application used for this connector. The application selection sent clients will be ignored. The value can be the name of any setup application.
	DefaultApplication			Defines a default application for a Listener. This DefaultApplication is used, when a client tries connect to a application that is not loaded. For this Listener, the DefaultApplication overrides "Default" application set in the Applications node. The value can be the name of any setup annication.
	PolicyApplication			Defines the application to be used in case policy requests are sent to this listener. (Bug of som flash clients)
	MaxInboundMessageSize			Determines the maximum number of bytes that a message might have which is <b>received</b> by th server through this Listener. If the message exceeds the MaxinboundMessageSize limit, the cl will be disconnected from the server. Default is the configured value in MaxMessageSize.
	MaxOutboundMessageSize			Determines the maximum number of bytes that a message might have which is <b>sent</b> by the se through this Listener. If the message exceeds the MaxOutboundMessageSize limit, the client of be disconnected from the server. Default is the configured value in MaxMessageSize.
	MaxOutboundMessageSize  To define a list of UDP/Enet listeners.			through this Listener. If the message exceeds the MaxOutboundMessageSize limit, the client of
JDPListeners> _ <udplistener></udplistener>	To define a list of UDP/Enet listeners.	0,000		through this Listener. If the message exceeds the MaxOutboundMessageSize limit, the client be disconnected from the server. Default is the configured value in MaxMessageSize.
	To define a list of UDP/Enet listeners.  IPAddress	0.0.0.0	5055	through this Listener. If the message exceeds the MaxOutboundMessageSize limit, the client be disconnected from the server. Default is the configured value in MaxMessageSize.  The IP Address to listen on, e.g. 192.168.0.1 or 0.0.0.0 to listen on ALL interfaces.
	To define a list of UDP/Enet listeners.  IPAddress Port	0.0.0.0	5055	through this Listener. If the message exceeds the MaxOutboundMessageSize limit, the client be disconnected from the server. Default is the configured value in MaxMessageSize.  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.
	To define a list of UDP/Enet listeners.  IPAddress Port ListenBacklog		5055 500	through this Listener. If the message exceeds the MaxOutboundMessageSize limit, the client be disconnected from the server. Default is the configured value in MaxMessageSize.  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.  See TCPListener.
	To define a list of UDP/Enet listeners.  IPAddress Port ListenBacklog RecvBufferSize		_	through this Listener. If the message exceeds the MaxOutboundMessageSize limit, the client be disconnected from the server. Default is the configured value in MaxMessageSize.  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. See TCPListener. See TCPListener.
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	To define a list of UDP/Enet listeners.  IPAddress Port ListenBacklog RecvBufferSize SendBufferSize OverrideApplication		_	through this Listener. If the message exceeds the MaxOutboundMessageSize limit, the client be disconnected from the server. Default is the configured value in MaxMessageSize.  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.  See TCPListener.  See TCPListener.  See TCPListener.  See TCPListener.
	To define a list of UDP/Enet listeners.  IPAddress Port ListenBacklog RecvBufferSize SendBufferSize OverrideApplication DefaultApplication		_	through this Listener. If the message exceeds the MaxOutboundMessageSize limit, the client be disconnected from the server. Default is the configured value in MaxMessageSize.  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.  See TCPListener. See TCPListener. See TCPListener. See TCPListener. See TCPListener.
	To define a list of UDP/Enet listeners.  IPAddress Port ListenBacklog RecvBufferSize SendBufferSize OverrideApplication DefaultApplication MaxinboundMessageSize		_	through this Listener. If the message exceeds the MaxOutboundMessageSize limit, the client be disconnected from the server. Default is the configured value in MaxMessageSize.  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. See TCPListener. See TCPListener. See TCPListener. See TCPListener. See TCPListener. See TCPListener.
_ <udplistener></udplistener>	To define a list of UDP/Enet listeners.  IPAddress Port ListenBacklog RecvBufferSize SendBufferSize OverrideApplication DefaultApplication		_	through this Listener. If the message exceeds the MaxOutboundMessageSize limit, the client be disconnected from the server. Default is the configured value in MaxMessageSize.  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.  See TCPListener. See TCPListener. See TCPListener. See TCPListener. See TCPListener.
_ <udplistener></udplistener>	To define a list of UDP/Enet listeners.  IPAddress Port ListenBacklog RecvBufferSize SendBufferSize OverrideApplication DefaultApplication MaxInboundMessageSize MaxOutboundMessageSize		_	through this Listener. If the message exceeds the MaxOutboundMessageSize limit, the client be disconnected from the server. Default is the configured value in MaxMessageSize.  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. See TCPListener. See TCPListener. See TCPListener. See TCPListener. See TCPListener. See TCPListener.
<udplistener>  VebSocketListeners&gt;</udplistener>	To define a list of UDP/Enet listeners.  IPAddress Port ListenBacklog RecvBufferSize SendBufferSize OverrideApplication DefaultApplication MaxInboundMessageSize MaxOutboundMessageSize		_	through this Listener. If the message exceeds the MaxOutboundMessageSize limit, the client be disconnected from the server. Default is the configured value in MaxMessageSize.  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. See TCPListener. See TCPListener. See TCPListener. See TCPListener. See TCPListener. See TCPListener.
<udplistener>  VebSocketListeners&gt;</udplistener>	To define a list of UDP/Enet listeners.  IPAddress Port ListenBacklog RecvBufferSize SendBufferSize OverrideApplication DefaultApplication MaxInboundMessageSize MaxOutboundMessageSize IPAddress	5055	500	through this Listener. If the message exceeds the MaxOutboundMessageSize limit, the client be disconnected from the server. Default is the configured value in MaxMessageSize.  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. See TCPListener.
<udplistener>  VebSocketListeners&gt;</udplistener>	To define a list of UDP/Enet listeners.  IPAddress Port ListenBacklog RecvBufferSize SendBufferSize OverrideApplication DefaultApplication MaxinboundMessageSize MaxOutboundMessageSize  IPAddress Port	5055	_	through this Listener. If the message exceeds the MaxOutboundMessageSize limit, the client be disconnected from the server. Default is the configured value in MaxMessageSize.  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. See TCPListener.
_ <udplistener> VebSocketListeners&gt;</udplistener>	To define a list of UDP/Enet listeners.   PAddress	5055	500	through this Listener. If the message exceeds the MaxOutboundMessageSize limit, the client be disconnected from the server. Default is the configured value in MaxMessageSize.  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.  See TCPListener.
_ <udplistener> VebSocketListeners&gt;</udplistener>	To define a list of UDP/Enet listeners.    IPAddress	5055	500	through this Listener. If the message exceeds the MaxOutboundMessageSize limit, the client be disconnected from the server. Default is the configured value in MaxMessageSize.  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. See TCPListener.
_ <udplistener></udplistener>	To define a list of UDP/Enet listeners.  IPAddress Port ListenBacklog RecvBufferSize SendBufferSize OverrideApplication DefaultApplication MaxInboundMessageSize MaxOutboundMessageSize >>  IPAddress Port ListenBacklog RecvBufferSize SendBufferSize SendBufferSize	0.0.0.0	500	through this Listener. If the message exceeds the MaxOutboundMessageSize limit, the client be disconnected from the server. Default is the configured value in MaxMessageSize.  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. See TCPListener.
_ <udplistener></udplistener>	To define a list of UDP/Enet listeners.  IPAddress Port ListenBacklog RecvBufferSize SendBufferSize OverrideApplication DefaultApplication MaxInboundMessageSize MaxOutboundMessageSize  >> IPAddress Port ListenBacklog RecvBufferSize SendBufferSize SendBufferSize DisableNagle	0.0.0.0  TRUE	500 5051	through this Listener. If the message exceeds the MaxOutboundMessageSize limit, the client be disconnected from the server. Default is the configured value in MaxMessageSize.  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. See TCPListener.
_ <udplistener></udplistener>	To define a list of UDP/Enet listeners.    IPAddress	0.0.0.0	500	through this Listener. If the message exceeds the MaxOutboundMessageSize limit, the client be disconnected from the server. Default is the configured value in MaxMessageSize.  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. See TCPListener.
_ <udplistener></udplistener>	To define a list of UDP/Enet listeners.    PAddress	0.0.0.0  TRUE	500 5051	through this Listener. If the message exceeds the MaxOutboundMessageSize limit, the client be disconnected from the server. Default is the configured value in MaxMessageSize.  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.  See TCPListener.
_ <udplistener></udplistener>	To define a list of UDP/Enet listeners.  IPAddress Port ListenBacklog RecvBufferSize SendBufferSize OverrideApplication DefaultApplication MaxInboundMessageSize MaxOutboundMessageSize View MaxOutboundMessageSize IPAddress Port ListenBacklog RecvBufferSize SendBufferSize JoisableNagle InactivityTimeout OverrideApplication DefaultApplication DefaultApplication	0.0.0.0  TRUE	500 5051	through this Listener. If the message exceeds the MaxOutboundMessageSize limit, the client be disconnected from the server. Default is the configured value in MaxMessageSize.  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. See TCPListener.
_ <udplistener></udplistener>	To define a list of UDP/Enet listeners.    PAddress	0.0.0.0  TRUE	500 5051	through this Listener. If the message exceeds the MaxOutboundMessageSize limit, the client be disconnected from the server. Default is the configured value in MaxMessageSize.  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.  See TCPListener.
_ <udplistener> VebSocketListeners&gt;</udplistener>	To define a list of UDP/Enet listeners.  IPAddress Port ListenBacklog RecvBufferSize SendBufferSize OverrideApplication DefaultApplication MaxInboundMessageSize MaxOutboundMessageSize View MaxOutboundMessageSize IPAddress Port ListenBacklog RecvBufferSize SendBufferSize JoisableNagle InactivityTimeout OverrideApplication DefaultApplication DefaultApplication	0.0.0.0  TRUE	500 5051	through this Listener. If the message exceeds the MaxOutboundMessageSize limit, the client be disconnected from the server. Default is the configured value in MaxMessageSize.  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. See TCPListener.
_ <udplistener></udplistener>	To define a list of UDP/Enet listeners.    PAddress	0.0.0.0  TRUE	500 5051	through this Listener. If the message exceeds the MaxOutboundMessageSize limit, the client be disconnected from the server. Default is the configured value in MaxMessageSize.  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. See TCPListener.
<udplistener>  VebSocketListeners&gt;</udplistener>	To define a list of UDP/Enet listeners.  IPAddress Port ListenBacklog RecvBufferSize SendBufferSize OverrideApplication DefaultApplication MaxInboundMessageSize MaxOutboundMessageSize  SendBufferSize DisableNagle InactivityTimeout OverrideApplication DefaultApplication DefaultApplication MaxInboundMessageSize  IPAddress Port ListenBacklog RecvBufferSize SendBufferSize DisableNagle InactivityTimeout OverrideApplication DefaultApplication MaxInboundMessageSize MaxQueudBuffers MaxQueudBuffers	0.0.0.0  TRUE	500 5051	through this Listener. If the message exceeds the MaxOutboundMessageSize limit, the client be disconnected from the server. Default is the configured value in MaxMessageSize.  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. See TCPListener.
_ <udplistener> VebSocketListeners&gt;</udplistener>	To define a list of UDP/Enet listeners.  IPAddress Port ListenBacklog RecvBufferSize SendBufferSize OverrideApplication DefaultApplication MakinboundMessageSize MaxOutboundMessageSize Miness Port ListenBacklog RecvBufferSize DisableNagle InactivityTimeout OverrideApplication DefaultApplication DefaultApplication DefaultApplication MakinboundMessageSize MaxOutboundMessageSize MaxPudingMessageSize MaxPudingMessageSize MaxPudingWrites MaxQueuedBuffers DisconnectTimeout	0.0.0.0  TRUE	500 5051	through this Listener. If the message exceeds the MaxOutboundMessageSize limit, the client be disconnected from the server. Default is the configured value in MaxMessageSize.  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.  See TCPListener.
<udplistener>  VebSocketListeners&gt;</udplistener>	To define a list of UDP/Enet listeners.    PAddress	0.0.0.0  TRUE	500 5051 TRUE 10000	through this Listener. If the message exceeds the MaxOutboundMessageSize limit, the client be disconnected from the server. Default is the configured value in MaxMessageSize.  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. See TCPListener.
<udplistener></udplistener>	To define a list of UDP/Enet listeners.    IPAddress	0.0.0.0  TRUE	500 5051 TRUE 10000	through this Listener. If the message exceeds the MaxOutboundMessageSize limit, the client be disconnected from the server. Default is the configured value in MaxMessageSize.  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.  See TCPListener.  See TCPListener.
<udplistener> WebSocketListeners&gt;</udplistener>	To define a list of UDP/Enet listeners.    IPAddress	0.0.0.0  TRUE	500  5051  TRUE 10000	through this Listener. If the message exceeds the MaxOutboundMessageSize limit, the client be disconnected from the server. Default is the configured value in MaxMessageSize.  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. See TCPListener.
WebSocketListeners>	To define a list of UDP/Enet listeners.    IPAddress	0.0.0.0  TRUE	500 5051 TRUE 10000	through this Listener. If the message exceeds the MaxOutboundMessageSize limit, the client be disconnected from the server. Default is the configured value in MaxMessageSize.  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.  See TCPListener.  See TCPListener.

<tcpflashlisteners></tcpflashlisteners>						
<tcpflashlistener></tcpflashlistener>	Deprecated use TCPPolicyListener instead.					
<tcppolicylisteners></tcppolicylisteners>						
<tcppolicylistener></tcppolicylistener>						
	Address			The IP Address to listen on, e.g. 192.168.0.1 or 0.0.0.0 to listen on ALL interfaces.		
	Port		943	The port to listen on.		
	Application			Defines the application for a Listener.		
	ListenBacklog			See TCPListener.		
	InactivityTimeout		1000	See TCPListener.		
<configserver></configserver>	If a <configserver> node is present then you can configure a listener which presents a text menu based interface to telnet clients. The menu lets you stop, start and restart apps and also allows you to shut the server down.</configserver>					
	IPAddress			The IP Address to listen on, e.g. 192.168.0.1 or 0.0.0.0 to listen on ALL interfaces.		
	Port		5051	The port to listen on.		
	ListenBacklog			See TCPListener.		
<\$2\$>						
	PingFrequency		2500	The Ping frequency is how often a ping is sent out when no data is flowing.		
	MaxInboundMessageSize			See TCPListener.		
	MaxOutboundMessageSize			See TCPListener.		
	RecvBufferSize			See TCPListener.		
	SendBufferSize			See TCPListener.		
	MaxPendingWrites			See TCPListener.		
	MaxQueuedBuffers			See TCPListener.		
	MaxPendingWritesMUX			same as MaxQueuedBuffers, but for MUX connections. Only applies if TuneFlowControlForMUX is not set.		
	MaxQueuedBuffersMUX			same as MaxQueuedBuffers, but for MUX connections. Only applies if TuneFlowControlForMUX is not set.		
	TuneFlowControlForMUX			MUX connections are configured with X * MaxPendingWrites and X * MaxQueuedBuffers		
	DisableNagle		TRUE	See TCPListener.		
<outboundenet></outboundenet>			•			
	GenerateOutboundCRC		FALSE	If enabled, a 32bit CRC value is appended to each UDP header.		
	MaxInboundMessageSize			See TCPListener.		
	MaxOutboundMessageSize			See TCPListener.		
	MTU		1200	Maximum transmition unit at UDP level. Defaults 1200 - same default the client sdk's have.		
	MaxChannels		255	Maximum number of Channles the peer should support. Default is 255.		