Corrections for all Printings

Pg	Error	Correction		
32	In points 5, 6 and 8, the IP address 18.19.200.1 is incorrect	It should be 18.19.200.2		
47	fig 2.15: SND.NXT of Host B is incorrect	The value should be 3051, not 3001		
59	Some IP addresses do not match those	Paragraph should read:		
	in the figure	As the packet travels from Host A to Host B, it passes through Router A. Router A sees in the NAT table that Host A's address, 192.168.10.2:200, already maps to external port 60000, so it chooses this port for the outgoing packet. It then makes an additional entry stating that 192.168.10.2:200 has sent traffic to 12.12.6.5:62000. This additional entry is the key. The packet will probably never arrive at Host B, but after this has happened, Host N can reply to Host B, telling it to connect directly to Host A at 18.19.20.21:60000. Host B does so, and when the packet arrives at Router A, Router A sees that it is indeed expecting an incoming packet from 12.12.6.5:62000. It rewrites the packet to be targeting 192.168.10.2:200 and sends it to Host A.		
69	WinSocket2.h is not a header name	WinSocket2.h should be WinSock2.h		
73	sockadd_in is not a struct name	sockadd_in should be sockaddr_in		
73	In the note, sa_len is no longer a field in the Mac OS X sockaddr	sa_len in the note should be sin_len		
77	Listing 3.4 should not call freeaddrinfo on an interated result	Listing 3.4 Name Resolution Using the SocketAddressFactory		
		<pre>class SocketAddressFactory { public: static SocketAddressPtr CreateIPv4FromString(const string& inString) {</pre>		

```
auto pos = inString.find last of(':');
       string host, service;
       if(pos != string::npos)
           host = inString.substr(0, pos);
            service = inString.substr(pos + 1);
       else
           host = inString;
           //use default port...
            service = "0";
       addrinfo hint;
       memset(&hint, 0, sizeof(hint));
       hint.ai family = AF INET;
       addrinfo* result;
       int error = getaddrinfo(host.c str(), service.c str(),
                                 &hint, &result);
        addrinfo* initResult = result;
       if(error != 0 && result != nullptr)
           freeaddrinfo(initResult);
           return nullptr;
       while(!result->ai addr && result->ai next)
            result = result->ai next;
       if(!result->ai addr)
            freeaddrinfo(initResult);
            return nullptr;
       auto toRet = std::make_shared< SocketAddress >(*result->ai addr);
       freeaddrinfo(initResult);
       return toRet;
};
```

80	The 5 th paragraph actually describes the parameter named tolen but claims to describe the parameter named len	<u>len</u> at the beginning of that 5 th paragraph should be changed to <u>tolen</u>		
83	WASGetLastError is not a function	WASGetLastError should be WSAGetLastError		
94	In listing 3.10, the lines	They should read		
	<pre>fd_set *writePtr = FillSetFromVector(read, inWriteSet);</pre>	<pre>fd_set *writePtr = FillSetFromVector(write, inWriteSet);</pre>		
	<pre>fd_set *exceptPtr = FillSetFromVector(read, inExceptSet); are incorrect</pre>	<pre>fd_set *exceptPtr = FillSetFromVector(except, inExceptSet);</pre>		
102	sentdo is not a function	sentdo should be sendto		
121	In the definition of Read(std::vector <t>&), the inner call to Read does not take a const argument, so the iterated variable should not be const T& element</t>	const T& element should instead be T& element with no const in front		
126	The equal signs were printed as plus signs	The equation should read: $P_{OnGround} * Bits_{OnGround} + P_{InAir} * Bits_{InAir} = 0.9 * 1 + 0.1 * 33 = 4.2$		
127	The equal signs were printed as plus signs and the line breaks were omitted	The equation should read:		
		$P_{OnGround} * Bits_{OnGround} + P_{InAir} * Bits_{InAir} + P_{OnCeiling} * Bits_{OnCeiling} = 0$		
		0.9*2+0.07*2+0.03*33=		
		2.93		
128	The equal signs were printed as plus signs and the line breaks were omitted	(MaxValue - MinValue) / Precision + 1 =		
		(20002000)/0.1 + 1 =		
		40001		

135	The Serialize code snippet is missing the case keyword from each case in the switch statement	<pre>void Serialize(MemoryStream* inMemoryStream,</pre>		
141	In listing 5.2 the class definition does not end with a semicolon	There should be a semicolon after the closing brace after the class definition		
151	In listing 5.9 the code to detect if a game object is missing from the receivedObjects list does not work correctly	<pre>find(go) != receivedObjects.end() should be changed to find(go) == receivedObjects.end()</pre>		
160	The text incorrectly refers to the PlaySoundRPCParams struct as PlayerSoundRPCParams	PlayerSoundRPCParams should be PlaySoundRPCParams		
160	In listing 5.7, the typedef statement is missing a semicolon	The first line of the listing should end with a semicolon.		
162	The text incorrectly refers to the nonexistent ProcessReplicationFunction.	ProcessReplicationFunction should be ProcessReplicationAction function.		
221	HandleDeliverySucess is not a function	HandleDeliverySucess should be HandleDeliverySuccess		

225	ReplicationTransmissionData is not a type	ReplicationTransmissionData should be ReplicationManagerTransmissionData		

This errata sheet is intended to provide updated technical information. Spelling and grammar misprints are updated during the reprint process, but are not listed on this errata sheet.