

mono-nat - Bug # 696: Unhandled XmlException on invalid XML

Status:	New	Priority:	Normal
Author:	J W	Category:	
Created:	02/22/2012	Assigned to:	
Updated:	02/22/2012	Due date:	
Subject:	Unhandled XmlException on invalid XML		
Description:	<p>I've got this exception:</p> <p>System.Xml.XmlException was unhandled Message=An error occurred while parsing EntityName. Line 1, position 459. Source=System.Xml LineNumber=1 LinePosition=459 SourceUri="" StackTrace: at System.Xml.XmlTextReaderImpl.Throw(Exception e) at System.Xml.XmlTextReaderImpl.Throw(String res, String arg) at System.Xml.XmlTextReaderImpl.ParseEntityName() at System.Xml.XmlTextReaderImpl.ParseEntityReference() at System.Xml.XmlTextReaderImpl.Read() at System.Xml.XmlLoader.LoadNode(Boolean skipOverWhitespace) at System.Xml.XmlLoader.LoadDocSequence(XmlDocument parentDoc) at System.Xml.XmlLoader.Load(XmlDocument doc, XmlReader reader, Boolean preserveWhitespace) at System.Xml.XmlDocument.Load(XmlReader reader) at System.Xml.XmlDocument.LoadXml(String xml) at Mono.Nat.Upnp.MessageBase.Decode(UpnpNatDevice device, String message) in C:\Projects\mono-Mono.Nat-e03fd86\Mono.Nat\Upnp\Messages\UpnpMessage.cs:line 78</p> <p>From this XML response:</p> <pre><s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/" s:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"><s:Body><u:GetGenericPortMappingEntryResponse xmlns:u="urn:schemas-upnp-org:service:WANIPConnection:1"><NewRemoteHost></NewRemoteHost><NewExternalPort>2727</NewExternalPort><NewProtocol>UDP</NewProtocol><NewInternalPort>0</NewInternalPort><NewInternalClient></NewInternalClient><NewEnabled>0</NewEnabled><NewPortMappingDescription>AT&T D-Link DVG-1402M ATA [MICROSOFT]</NewPortMappingDescription><NewLeaseDuration>0</NewLeaseDuration></u:GetGenericPortMappingEntryResponse></s:Body></s:Envelope></pre> <p>The issue definitely seems to be the unescaped '&' in 'AT&T' there. Not a big surprise that bad XML leads to an exception, but I'll see what I can do about fixing it anyway.</p>		

History

02/22/2012 06:50 PM - J W

Was easy to fix. Added this method to Mono.Nat.Upnp.MessageBase:

```
private static string SanitizeXml( string message )
{
    // Invalid XML will stymie the XmlDocument.Load method, so we'll check for possible problems
    StringBuilder sanitized = new StringBuilder( message );
```

```
for(int i = 0; i < sanitized.Length; ++i)
{
    if (sanitized[i] == '&')
    {
        if (sanitized.ToString( i, 5 ) != "&");
        {
            sanitized.Replace( "&", "&amp;", i, 1 );
        }
    }
}

return sanitized.ToString();
}
```

All references to XmlDocument.LoadXml can be changed like this:

```
System.Xml.XmlDocument doc = new System.Xml.XmlDocument();
doc.LoadXml( SanitizeXml( message ) );
```

And thusly, problem solved.