



Bristol Water G14 Installation Site Visit Report

Language English

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2 Introduction

With the end of the G14 Road Works Online trial, Bristol Water (BW) required a method to allow GeoMe to access their street works data for presentation on maps. The process described here was carried out on the BW test system offsite and then against the live system onsite on Tuesday 20th May 2014.

3 Hardware Summary

Role	Name	IP
Live Web Service	BWEXORWEBP01	Unknown
Test Web Service	BWEXORWEBD01	Unknown

4 Live Installation Steps

4.1 IIS

- Installation of IIS on web logic server (installation options include only ASP.NET and it's mandatory sub options)
- Verified that .NET Framework v4 is installed
- Registration of .NET v4 using aspnet_regiis.exe
- IIS port binding changed from 80 to 81 (see section 5)
- Default App Pool switched to use .NET Framework v4, and allowed 32 bit applications

4.2 The G14 Web Site

- Installed under c:\inetput\wwwroot\RoadWorksOnline
- Converted to an application in IIS

4.3 Oracle Data Access Components (ODAC)

- Installed ODAC 11.2.0.2.1 (32 bit version)
- Installed client version, not server
- Base and Path were: c:\oracle\product\ODAC11g32x\
- TNSNAMES.ora and SQLNET.ora taken from sandbox TMA server, and modified so only the live database is accessible

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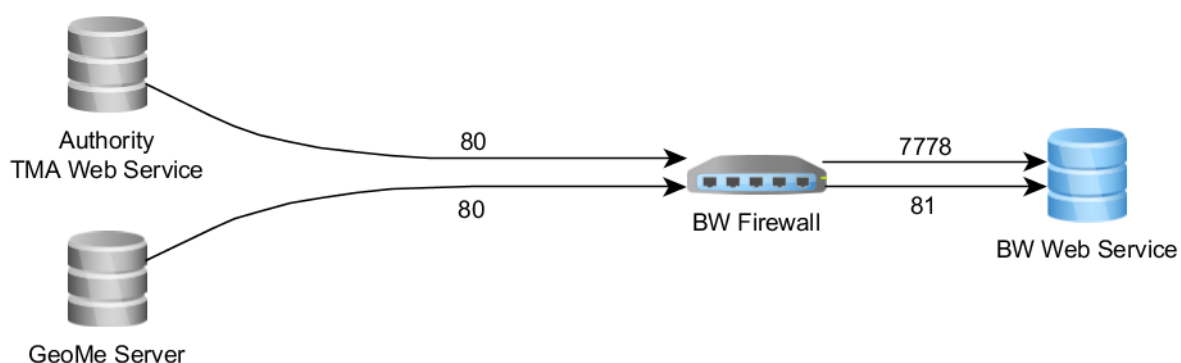
Note: a restart of the server was required after the above steps.

4.4 Oracle Database Objects

- Two materialised views: X_MV_BRISTOL_WATER_GEOME1 and X_MV_BRISTOL_WATER_GEOME2 (note: these were specially for BW modified by Aileen Heal to handle SRIDs being not being set in the BW databases)
- Procedure X_BRISTOLWATER_REFRESH_MATVIEW
- DBMS Scheduled Job BRISTOLWATER_REFRESH_MAT_VIEWS (runs every 15 minutes)

5 Firewall Routing

Since the website is installed on the live Oracle WLS Web Service for TMA, URL-based routing was needed to ensure connections to the live TMA web service were unaffected, and that connections to the G14 website would reach IIS and not the Oracle WLS endpoint for TMA.



E.g. the URL “roadworksonline” would cause the connection to redirect internally to port 81. Although WLS is not using port 80, it was necessary to bind IIS to port 81 to avoid the route back out being lost.

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6 Testing

Live test url: -

<http://tma.bristolwater.co.uk/roadworksonline/LoadDataPoints.ashx?&uLat=51.78&uLon=-3.15&brLat=51.07&brLon=-2.03&layertype=BRISTOLGEOME&layer=x>

7 End Result

Stuart Grant confirmed on 2014-05-20 at 15:53 that GeoMe could connect to the new server and that they have pointed their service at the new URL. The installation is now considered live and production.

End of report