WEATHERZONE PROCESSING ROLE

VERSION: 2.2   REVISION DATE: 9 Nov 2016

0. REVISION

Version	Author	Date	Comments
2.2	IH	9 Nov 2016	Role and file name changes
2.1	IH	12 Jun 2015	Minor edits to clarify scope and assumptions.
2.0	IH	8 May 2015	Perl specified. Database ingest.
1.0	BB	15 Dec 2011	

1. INTRODUCTION AND BACKGROUND

This project is to assess the coding abilities and style of an applicant for the role of Data Processing Specialist within the data-processing team at Weatherzone.

Two sample data files, one CSV and the other XML have been provided as the input to the process.

A MySQL `CREATE TABLE` script has also been included. The table should be created from this script and the data loaded into it as the outcome of the process. The process should also write a summary to standard output (eg lines read; rows inserted; errors encountered).

2. SCOPE

- Create a program (or programs) in Perl that take files in the supplied formats and returns output in the format specified. Note that files with different content may be provided for testing.

- The program created should be in Perl. Commonly-available modules (eg `XML::LibXML`) may be used; these should be listed in the test response.

EXCLUSIONS

- The provision of hardware and software for the creation of the program. It is expected that the applicant will provision their own development environment.

ASSUMPTIONS

- That the program created can be run for Weatherzone inspection without the need to purchase any additional software by Weatherzone.

- Weatherzone can provide hardware for the demonstration if requested in advance. Preferred Environment for this would be a CentOS 5 system with default package installs of Perl and MySQL as required. A Windows environment with a default ActiveState Perl can also be provided.

3. INPUT FILE FORMATS

Two input data files will be provided for this test. Both of these files contain similar data in terms of the locations and weather information. However the XML file contains additional information that is not required for the output side of this project.

- `twc_fcast_4day_capcity.xml`

- `twc_fcast_4day_capcity.csv`

4. OUTPUT FORMAT

The outcome of the process should be the forecasts loaded into the database table. As an additional option, you may wish to output a pipe delimited text file with one location and date record per line as per below

- `loc_code|name|date|icon|min_temp|max_temp`

The output should be ordered by location code ascending, then date ascending