



# Laurel Hill GIS

Geodatabase Integrity Solutions<sup>SM</sup>



## GeoData Sentry Product Description

Laurel Hill GIS' GeoData Sentry is an automated Quality Control/Quality Assurance application for ESRI's© ArcGIS™ geodatabase. GeoData Sentry assists technical and managerial users in detecting and reporting errors related to attribute validity, referential integrity, and spatial relationships.

### **Configuring Test Suites**

GeoData Sentry allows for connection to Personal, File and SDE geodatabases. Tests may be generated based on geodatabase properties such as Domains, Relationships, Logical Connectivity Rules and Subtype Dependent domains. Individual test may also be configured based on a user specific Quality Assurance Plan.

A Test Suite includes one or more configured tests. A Test Suite can be saved to be run or modified at another time. A user may modify a Test Suite by removing tests, re-configuring tests, adding new tests, and moving or coping tests between Test Suites.

### **Running Test Suites**

Once the test configuration is complete, it can be run against a geodatabase. A configuration can be run against incoming data deliveries as well as against production geodatabases. The user chooses a test run name and output location for the HTML reports.

### **Reviewing Reports**

A report is created after executing a single test or a Test Suite. The report allows both managers and technical reviewers to easily understand the outcome of each test in a Test Suite. The report includes data metrics, such as the number of rows tests, and the number of errors detected. Additionally, a comma separated file is created with each test run giving summary statistics that easily drive acceptance reporting.

### **Ongoing Automated Testing**

GeoData Sentry features a commandline executable that can be configured for run one or more Test Suites. The commandline executable can be configured to run as part of a batch file that can be run from a Windows scheduled task or UC4 job scheduler script. Running groups of tests on a regular schedule allows users to baseline database quality and then proactively monitor database quality. By monitoring the quality of the database, users can prioritize error corrections, modify user training and education and identify gaps in transactional validation.

### **Benefits of GeoData Sentry**

Sentry can help you protect your costly data investment by creating a unified environment for testing incoming data from conversion vendors, migrated data or ongoing testing on



production data. Sentry will help you manage data related risk factors by testing at regular intervals, so that systematic data errors will be uncovered early in the production process rather than being allowed to accumulate in an untested environment. Sentry will also help improve your overall confidence in the data allowing for more robust usage, such as complex network analysis, outage management, pipe line integrity, Smart Grid implementations, and hydraulic modeling. All of these activities expect and require a high level of data quality and GeoData Sentry will help your organization meet those quality goals with a comprehensive view of your geodatabase data quality.



## GeoData SENTRY™ Version 3.4.2 Test Inventory

GeoData Sentry version 3.4.2 support ArcGIS version 10.2.1. GeoData Sentry has three different editions available at version 3.4.2. Below are the tests that are available for each edition and the geodatabase connection support for each edition.

Test Categories and Tests	Personal	Professional	Enterprise
<b>Attribute Tests</b>	•	•	•
Coded Domain Test	•	•	•
Range Domain Test	•	•	•
Non-Standard Test	•	•	•
NULL Values Test	•	•	•
Unique Values Test	•	•	•
Single Values Test	•	•	•
Column Length Test	•	•	•
Subtype Values Test	•	•	•
Custom Query Test	•	•	•
Table Relationship Test	•	•	•
Subtype Dependent Domain Test	•	•	•
<b>Spatial Relationship Tests</b>		•	•
Intersect Test		•	•
Overshoot/Undershoot		•	•
Duplicates		•	•
Invalid Geometry		•	•
<b>Logical Connectivity Tests</b>			•
Edge To Edge Test			•
Junction To Edge Test			•
Edge To Edge with Junction Filter Test			•

Geodatabase Connection Support	Personal	Professional	Enterprise
Personal geodatabase	•	•	•
File geodatabase		•	•
Oracle Enterprise SDE geodatabase		•	•
SQL Server Enterprise SDE geodatabase		•	•



### **GeoData SENTRY™ Version 3.4.2 Licensing**

GeoData Sentry has two types of licensing, Desktop Standalone, Network Concurrent and Site. The Desktop standalone license is a node locked license that will work on a single non-server computer. It is best suited for a small enterprise where only a single user will be running tests. Sentry also has a Network Concurrent licensing model which allows for several simultaneous users access to Sentry based on license availability. For instance, for a three-user concurrent license, after 3 users are logged on to Sentry, the 4<sup>th</sup> user will be prohibited, until one of the first 3 close their session. Concurrent licensing works well in a larger enterprise where there is a need for several simultaneous users. Site licensing is available for very large enterprises where there is an unlimited number of licenses available.

### **Support and Maintenance**

There is an annual maintenance fee per license, depending on the licensed edition and license type. Annual Maintenance includes software upgrades, bug fixes and technical support. The first year of maintenance is complimentary.

### **Contact Information**

Laurel Hill GIS, Inc.  
Matt McCain  
307 Bross Street  
Longmont, CO 80501  
(303) 772-6856

[matt@laurelhillgis.com](mailto:matt@laurelhillgis.com)

For more information about GeoData Sentry or Laurel Hill GIS visit our website at:

[www.laurelhillgis.com](http://www.laurelhillgis.com)