

The screenshot shows the 'Weasel - Historian Administrator' window. The left pane displays a tree view of the 'Trend Historian (Weasel)' structure, including folders like 'TH Audit', 'Weather', 'K2', 'PlantC', 'Lab', 'Wastewater', and 'Sample Data'. The right pane shows a table of data points for 'Sample Data.Tag0001'.

	TimeStamp	Value	Type	Quality
1	12/05/2005 15:24:25.748.7500	18.1875	R4	Good (0xC0)
2	12/05/2005 15:24:28	19.1875	R4	Good (0xC0)
3	12/05/2005 15:24:30	20.1875	R4	Good (0xC0)
4	12/05/2005 15:24:32	21.1875	R4	Good (0xC0)
5	12/05/2005 15:24:34	22.1875	R4	Good (0xC0)
6	12/05/2005 15:24:36	23.1875	R4	Good (0xC0)
7	12/05/2005 15:24:38	24.1875	R4	Good (0xC0)
8	12/05/2005 15:24:40	25.1875	R4	Good (0xC0)
9	12/05/2005 15:24:42	26.1875	R4	Good (0xC0)
10	12/05/2005 15:24:44	27.1875	R4	Good (0xC0)
11	12/05/2005 15:24:46	28.1875	R4	Good (0xC0)
12	12/05/2005 15:24:48	29.1875	R4	Good (0xC0)
13	12/05/2005 15:24:50	30.1875	R4	Good (0xC0)
14	12/05/2005 15:24:52	31.1875	R4	Good (0xC0)
15	12/05/2005 15:24:54	32.1875	R4	Good (0xC0)
16	12/05/2005 15:24:56	33.1875	R4	Good (0xC0)
17	12/05/2005 15:24:58	34.1875	R4	Good (0xC0)
18	12/05/2005 15:25:00	35.1875	R4	Good (0xC0)
19	12/05/2005 15:25:02	36.1875	R4	Good (0xC0)
20	12/05/2005 15:25:04	37.1875	R4	Good (0xC0)
21	12/05/2005 15:25:06	38.1875	R4	Good (0xC0)

## Application Deployment

- ✓ Logger Service
- ✓ Historian Service
- ✓ Logger Administrator
- ✓ Historian Administrator
  - DataSet Synchronization
  - Bandwidth Configurable
  - File Zipping
- ✓ File Zipping
- ✓ Quick & Easy Installation
- ✓ Software license
  - License Administrator
  - License by tag count

## Historian

- ✓ Stores & Retrieves Trend Data
- ✓ Timestamp (100ns Resolution)
- ✓ Variants: Boolean, Integers, (I1,I2,I4), Floating point real numbers (R4,R8) and Strings (1 and 2 byte encoding)
- ✓ Data storage compression
- ✓ Historical Data Base (.hdb) files
- ✓ User readable .hdb file naming (DataSet and creation time)
- ✓ File Management
  - Rollover: Time of day, File size, Time interval
  - RollUp: Daily, Weekly, Monthly, Quarterly
  - Tag Indexing Per File
  - Move older files into Archive directory
  - Delete outdated data files
  - Hot-Swap (Automatically bring historical data from CD on-line)
- ✓ OPCHDA compliant

## Historian Administrator

- ✓ Administrator Email notification on problem
- ✓ Historian Status: Up time and Total Run time
- ✓ Disk Space Warning Thresholds
- ✓ Remote Historian Administration
- ✓ System Tray Icon
  - Status & Quick Launch
- ✓ Historian Status Overview Table
  - DataSets
  - Status & Number of Files
  - Viewer Client Activity
  - Logger Client Activity & Performance
  - Disk Space available
- ✓ Client Activity Table
  - Logger Clients
  - Viewer Clients
- ✓ Performance Monitoring Trend Chart:
  - % CPU, Tag Readers, Tags being Logged, Historical TVQs/sec, Live TVQs/sec & Updates/sec
- ✓ Audit Trail of Historian activity
- ✓ Background file validation
- ✓ Drill down and view data values
- ✓ Combine multiple data files
- ✓ Perform validation checks
- ✓ License Status
- ✓ Version Information
- ✓ OnLine Helps
  - Contents, Index & Search
- ✓ Error Log Viewer
- ✓ Importing

## Performance

Performance parameters are dependent on hardware platform with 2.2Ghz processor and 512MB memory:

- ✓ Peak Logging: 200K updates/sec
- ✓ Sustained Logging: 25K updates/sec
- ✓ Retrieval rate: 300K TVQs/sec
- ✓ Historian Tag capacity: unlimited
- ✓ Tag capacity per single Dataset: 10,000 recommended

## Logger

- ✓ Acquires data from OPC Data Access standard
- ✓ Sends trend data to Historian (on local or remote computer)
- ✓ Handles multiple Log Sessions
- ✓ Handles multiple groups per Log session
- ✓ Store and Forward Technology

- Memory cache
- Disk cache (Local Historian)
- ✓ Logger Automation interface (scripting)
  - 33 methods
  - 48 properties
- ✓ Command Line Driven
- ✓ Auto start on system boot

## Logger Administrator

- ✓ Access Logger services on either local or remote computer
- ✓ Administrator Email notification when problem occurs
- ✓ System Tray Icon
  - Current status
  - Quick Launch
- ✓ Logger Configuration File (.lcf) (stores a single Log Session)
- ✓ Create, Open, Save and Close Log Sessions
- ✓ Session Configuration
  - Historian computer
- ✓ Add / Remove Groups
- ✓ Group Configuration
  - Name
  - Update Rate
  - OPC-DA Server (browse and select)
  - OPC Deadband (percentage)
  - Normalization
  - Batch Dataset & Item ID
  - Trigger Item ID and Expression
- ✓ Browse OPC-DA Server
  - Tag Filtering
  - Attribute Branching
- ✓ Add / Remove Logging Tags
  - Cut, Copy / Paste from Tag Configuration
  - Find and Replace
- ✓ Tag Configuration
  - Name
  - Item ID
  - Access Path
  - Type
  - Description
  - Engineering Units
  - Log Rate
  - High / Low Scale
  - High / Low Limits
  - Deadband (absolute)
  - Data Transform
- ✓ Real-time display and update of current value, timestamp and quality

### Exporting

- ✓ Export of data to CSV file through Trend Link
  - Export Object (usable from VB)
  - Command-line driven export
- ✓ Trend Export program available for stand alone exporting

### Version Information

- ✓ Current version is 7.1.0
- ✓ Original historian product was released in 1992
- ✓ New updated releases of the product have occurred at least once a year incorporating improvements and technology upgrades

### Helps

- ✓ On-line helps
  - Contents
  - Index
  - Search facilities
- ✓ Context sensitive helps (F1 key)
- ✓ Dialog box helps
- ✓ Error Log Facilities
- ✓ Automation Interfaces Documentation

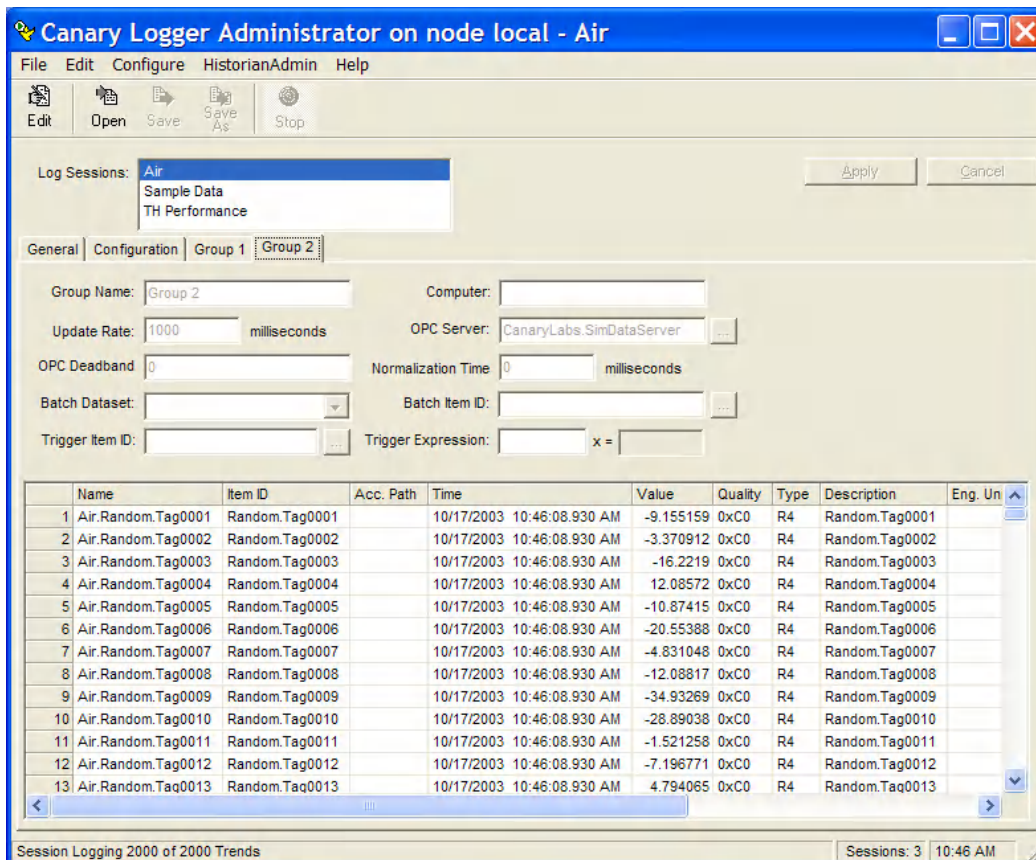
### Operating Systems Requirements

- ✓ Windows 2000, Windows XP or higher

### Systems Recommendations

- ✓ 2 Ghz CPU or greater
- ✓ 2 GB memory
- ✓ UPS (highly recommended)

## Logger Session



The screenshot shows the 'Canary Logger Administrator on node local - Air' window. The 'Log Sessions' dropdown is set to 'Air'. The 'General' tab is selected, showing configuration for 'Group 2'. The 'Update Rate' is set to 1000 milliseconds. The 'OPC Server' is 'CanaryLabs.SimDataServer'. Below the configuration is a table of logged data points.

	Name	Item ID	Acc. Path	Time	Value	Quality	Type	Description	Eng. Un
1	Air.Random.Tag0001	Random.Tag0001		10/17/2003 10:46:08.930 AM	-9.155159	0xC0	R4	Random.Tag0001	
2	Air.Random.Tag0002	Random.Tag0002		10/17/2003 10:46:08.930 AM	-3.370912	0xC0	R4	Random.Tag0002	
3	Air.Random.Tag0003	Random.Tag0003		10/17/2003 10:46:08.930 AM	-16.2219	0xC0	R4	Random.Tag0003	
4	Air.Random.Tag0004	Random.Tag0004		10/17/2003 10:46:08.930 AM	12.08572	0xC0	R4	Random.Tag0004	
5	Air.Random.Tag0005	Random.Tag0005		10/17/2003 10:46:08.930 AM	-10.87415	0xC0	R4	Random.Tag0005	
6	Air.Random.Tag0006	Random.Tag0006		10/17/2003 10:46:08.930 AM	-20.55388	0xC0	R4	Random.Tag0006	
7	Air.Random.Tag0007	Random.Tag0007		10/17/2003 10:46:08.930 AM	-4.831048	0xC0	R4	Random.Tag0007	
8	Air.Random.Tag0008	Random.Tag0008		10/17/2003 10:46:08.930 AM	-12.08817	0xC0	R4	Random.Tag0008	
9	Air.Random.Tag0009	Random.Tag0009		10/17/2003 10:46:08.930 AM	-34.93269	0xC0	R4	Random.Tag0009	
10	Air.Random.Tag0010	Random.Tag0010		10/17/2003 10:46:08.930 AM	-28.89038	0xC0	R4	Random.Tag0010	
11	Air.Random.Tag0011	Random.Tag0011		10/17/2003 10:46:08.930 AM	-1.521258	0xC0	R4	Random.Tag0011	
12	Air.Random.Tag0012	Random.Tag0012		10/17/2003 10:46:08.930 AM	-7.196771	0xC0	R4	Random.Tag0012	
13	Air.Random.Tag0013	Random.Tag0013		10/17/2003 10:46:08.930 AM	4.794065	0xC0	R4	Random.Tag0013	

Session Logging 2000 of 2000 Trends | Sessions: 3 | 10:46 AM