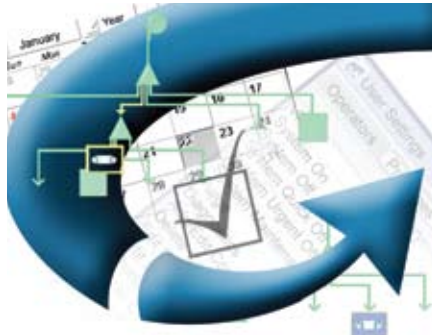


SWISSLOG SPECIFICATIONS



TL 2009 SOFTWARE FOR PNEUMATIC TUBE SYSTEMS

Swisslog's TL 2009 software offers flexibility, performance and convenience in the management and maintenance of your pneumatic tube system.

TL 2009 provides unsurpassed reliability, gives authorized users easy and efficient access to more system information, and allows networking with remote clients.

TL 2009 New Operational Features & Benefits

RFID Capable

TL 2009 complements RFID carriers for send/receive verification, provides carrier segregation for department-specific use, enables empty carrier dispatch restrictions on designated stations, and improves carrier management.

TL 2009 software allows the assignment of multiple RFID carrier types to specified stations, with the inventory level automatically maintained as users return empty carriers.

WhoTube™ Card Swipe Support
Stations using WhoTube card swipe technology to secure station access have additional protection under TL 2009 software. With WhoTube, the sender and recipient information is recorded. WhoTube may also be used in conjunction with Swisslog station access doors.

Ethernet Communication

TL 2009 supports the IT industry standard for high-speed network communications. Monitor and access your TransLogic system equipment over your facility's existing IT infrastructure (100 Mbps).

Empty Storage/Empty Call

Carriers stored in system tubing are accessible to users at the press of a button. This feature is useful during peak traffic hours when stations run out of carriers.

Variable Speed Technology

Send your sensitive items at a slower speed for gentle handling. Empties can be sent at a faster speed for improved performance.

Automated System Recovery

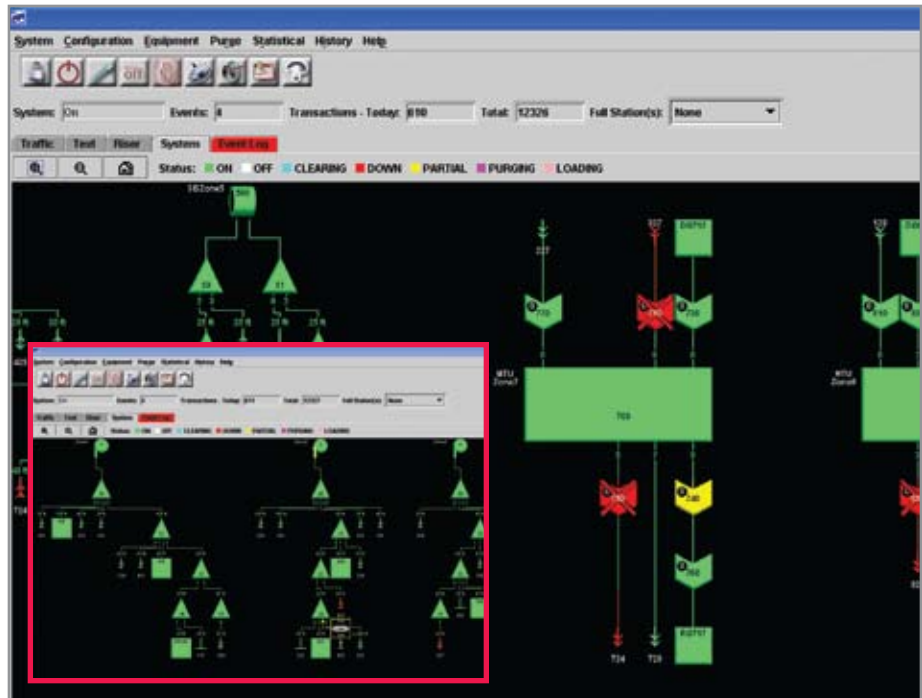
Minimize system downtime in the event of a computer malfunction. Processing of transactions automatically resume at the restart of the computer.

swisslog

System View

System view provides live visual carrier location, tracking up to three carriers at a time. Tracked carriers appear blue, and carrier routes for moving transactions are displayed in yellow. The secondary navigation toolbar allows the user to zoom in, out and center within the system view. Equipment under failure appears with a red "X", and affects all equipment downstream.

Right-click on equipment for diagnostics, maintenance, status and more.



Text View

The text view provides the information for all in-process and pending transactions. Information on a tracked carrier will appear blue, as seen to the right.

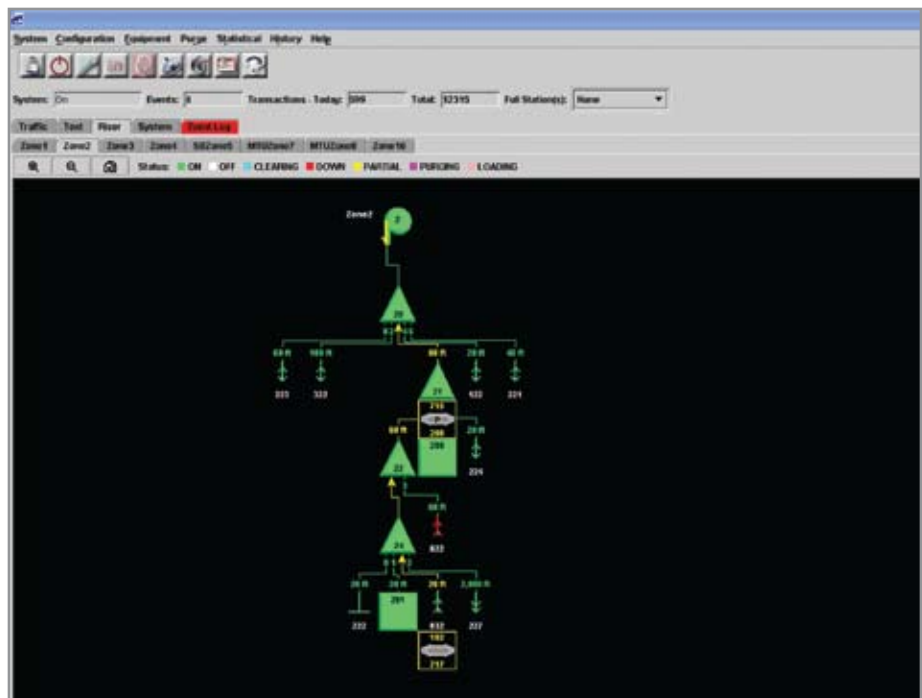
The screenshot shows the 'Text View' interface. At the top, there are tabs for 'System Configuration', 'Equipment', 'Purge', 'Statistical', and 'History Help'. Below the tabs, there are fields for 'System: On', 'Events: 8', 'Transactions - Today: 307', 'Total: 32313', and 'Full Station(s): None'. A secondary navigation toolbar includes icons for zooming and centering. The main area displays a table of transactions.

Zone	Source	Dest	Phase	Location	Priority	Type
Zone2	DispOnly115	Station208	Ready/Stop	ECUB90	2	Normal
Zone2	DispOnly102	DispOnly117	Delivery	SC070	2	Normal
Zone2	Station101	DispOnly117	Arrival	SC070	2	Normal
Zone2	DispOnly102	DispOnly117	Delivery	MTU000	2	Normal
Zone2	DispOnly102	DispOnly117	Delivery	MTU000	2	Normal
Zone2	DispOnly115	Station208	Delivery	MTU000	2	Normal
Zone2	Station101	DispOnly117	Passure	TUO L3	2	Normal
Zone2	DispOnly102	Ready/Stop	Ready/Stop	ECUB90	10	Normal
Zone2	DispOnly115	Station208	Loaded	SC070	2	Normal

Riser View

The riser view is similar to the system view, but allows the user to view and analyze traffic in one zone at a time. The secondary navigation toolbar allows the user to zoom in, out and center within the zone view.

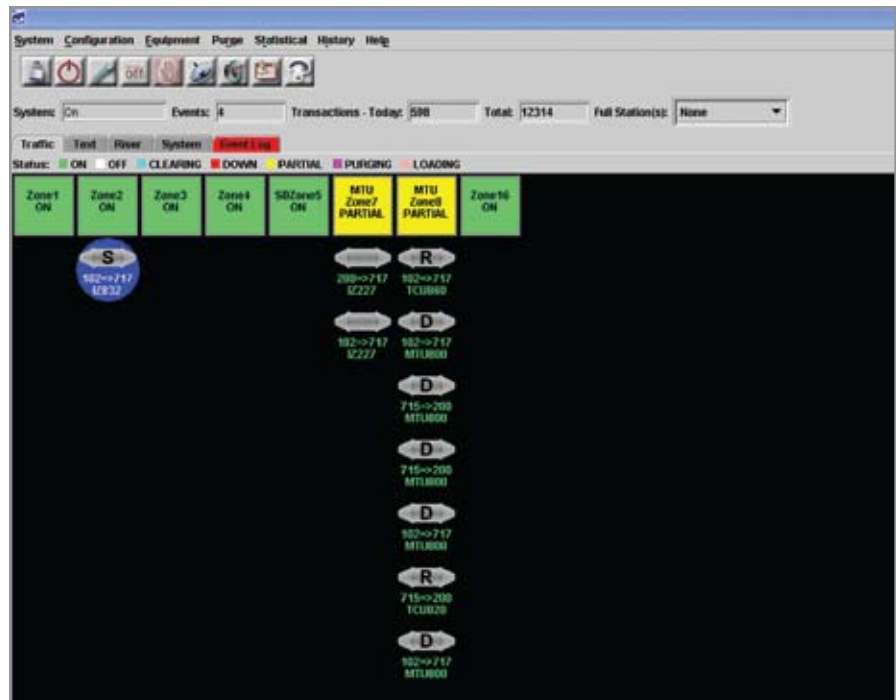
In this example, we are viewing a carrier moving through Zone 2 of the system.



Traffic View

Traffic view provides the real-time operational status of each zone including pending and in-process transactions. Operators can quickly assess whether a zone is fully operational. Zone maintenance and event clearing functions are quickly accessed by right-mouse-clicking on the zone icon.

Carrier icons indicate the order in which transactions are processed, the current location of a carrier, type of transaction, origin and destination stations, and current transaction status of a carrier. A tracked carrier will appear blue.



Event Log View

Event log view provides a listing of all user advisories, communication advisories, diagnostic advisories and equipment failures in real-time.

The tab will turn red when an alarm or failure event occurs, and yellow for an advisory. The red tab is visible only when the user is not in this view.

To view details, a user can highlight a line in the event log view and select the Details button at the bottom of the page.

The screenshot shows the Event Log View interface with a menu bar (File, Graph, Report, Export, Help) and a toolbar. Below the menu bar, there are fields for Posted, Cleared, Zone, Equip, Phase, Port, Source, Dest, Event Code, and Description. The table below contains the following data:

Posted	Cleared	Zone	Equip	Phase	Port	Source	Dest	Event Code	Description
2/10/06 9:10:30 AM	2/10/06 1:11:38 PM	4	Station400			0	0	225	Download failure
2/10/06 7:34:28 AM	2/10/06 7:34:28 AM	2	Blower2			0	0	1	Communication failure
2/10/06 7:34:28 AM	2/10/06 7:34:28 AM	3	Blower3			0	0	1	Communication failure
2/10/06 7:34:28 AM	2/10/06 7:34:28 AM	1	Blower1			0	0	1	Communication failure
2/10/06 7:34:28 AM	2/10/06 7:34:28 AM	3				0	0	224	Communication failure
2/10/06 7:34:28 AM	2/10/06 7:34:28 AM	4				0	0	224	Communication failure
2/10/06 7:34:28 AM	2/10/06 7:34:28 AM	2				0	0	224	Communication failure
2/10/06 7:34:28 AM	2/10/06 7:34:28 AM	5				0	0	224	Communication failure
2/10/06 7:34:28 AM	2/10/06 7:34:28 AM	1	TUJ5			0	0	1	Communication failure
2/10/06 7:34:28 AM	2/10/06 7:34:28 AM	3	TUJ2			0	0	1	Communication failure
2/10/06 7:34:28 AM	2/10/06 7:34:28 AM	4	Blower4			0	0	1	Communication failure
2/10/06 7:34:28 AM	2/10/06 7:34:28 AM	1	TUJ4			0	0	1	Communication failure
2/10/06 7:34:28 AM	2/10/06 7:34:28 AM	3	TUJ5			0	0	1	Communication failure
2/10/06 7:34:28 AM	2/10/06 7:34:28 AM	5	TUJ5			0	0	1	Communication failure
2/10/06 7:34:28 AM	2/10/06 7:34:28 AM	1	TUJ1			0	0	1	Communication failure
2/10/06 7:34:28 AM	2/10/06 7:34:28 AM	2	TUJ2			0	0	1	Communication failure
2/10/06 7:34:28 AM	2/10/06 7:34:28 AM	3	TUJ3			0	0	1	Communication failure
2/10/06 7:34:28 AM	2/10/06 7:34:28 AM	1	TUJ10			0	0	1	Communication failure
2/10/06 7:34:28 AM	2/10/06 7:34:28 AM	3	TUJ1			0	0	1	Communication failure
2/10/06 7:34:28 AM	2/10/06 7:34:28 AM	2	TUJ22			0	0	1	Communication failure
2/10/06 7:34:28 AM	2/10/06 7:34:28 AM	1	TUJ11			0	0	1	Communication failure
2/10/06 7:34:28 AM	2/10/06 7:34:28 AM	5	TUJ5			0	0	1	Communication failure
2/10/06 7:34:28 AM	2/10/06 7:34:28 AM	2	TUJ20			0	0	1	Communication failure
2/10/06 7:34:28 AM	2/10/06 7:34:28 AM	5	TUJ50			0	0	1	Communication failure
2/10/06 7:34:28 AM	2/10/06 7:34:28 AM	3	Station300			0	0	1	Communication failure
2/10/06 7:34:28 AM	2/10/06 7:34:28 AM	1	DispOnly102			0	0	1	Communication failure
2/10/06 7:34:28 AM	2/10/06 7:34:28 AM	2	Station200			0	0	1	Communication failure
2/10/06 7:34:28 AM	2/10/06 7:34:28 AM	1	Station100			0	0	1	Communication failure
2/10/06 7:34:28 AM	2/10/06 8:47:09 AM	4	TUJ40			0	0	1	Communication failure
2/10/06 7:34:28 AM	2/10/06 8:47:09 AM	4	Station400			0	0	1	Communication failure
2/10/06 7:34:28 AM	2/10/06 8:47:09 AM	2	Station301			0	0	1	Communication failure
2/10/06 8:47:10 AM	2/10/06 9:04:30 AM	2	Station301			0	0	1	Communication failure
2/10/06 9:01:03 AM	2/10/06 9:04:30 AM	2	Station301			0	0	1	Communication failure
2/10/06 8:47:10 AM	2/10/06 9:04:30 AM	4	TUJ40			0	0	1	Communication failure
2/10/06 7:34:28 AM	2/10/06 9:04:30 AM	4	TUJ42			0	0	1	Communication failure

User Settings

User Settings allows an administrator to update individual operators, privilege, and PIN code information. The administrator can also control user access levels, limiting access to system information.

The screenshot shows the User Settings interface with a menu bar (Operators, Privileges, Pin Code List) and a toolbar. Below the menu bar, there are fields for Everyone (Guest), Class 1 Operators, Class 2 Operators, and Administrators. The table below contains the following data:

	Everyone (Guest)	Class 1 Operators	Class 2 Operators	Administrators
View	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
System On	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
System Off	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
System Quick Off	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
System Urgent Off	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
System Maintenanc...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Purge	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Diagnostics	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Add/Edit Config	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Delete Config	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>



TL 2009 Software Includes DataPak Dynamic Maintenance and Management Reports

DataPak software offers a wide variety of report generation options for system managers and maintenance. The text reports may be sorted and exported to HTML, PDF, or Microsoft™ Excel. Graph report options include line or bar charts. Graphs can be easily exported to JPEG format for use in other applications including web display.

System managers can review and analyze trends in their system's performance. Management Reports span system activity, transactions, productivity, and system function, which help determine high-volume hours, and departmental stations under high-demand.

Maintenance reports assist with system maintenance schedules, determining and evaluating equipment problems (alarms) and equipment cycles. A user may specify a date range (up to 31 days) for each report.

Predefined maintenance reports include:

- > Equipment events
- > Device cycles
- > System reliability
- > Event summary
 - Summary per device
 - Summary per zone

The Transaction Filter allows easily customized reports to fit specific needs. The filter is user-friendly by using simplified drop-down fields and check boxes.

Recommended Minimum System Requirements

CPU - PIII 2.0 Ghz Intel processor or equivalent, 512 MB RAM, Read/Write CD drive, 4 GB hard drive, Windows™ XP Professional, high-speed internet connection and access, mouse, keyboard, 17" SVGA Monitor, 2 USB ports, 1 serial port, 3 free PCI slots and external speakers.

Due to ongoing improvement programs, Swisslog reserves the right of production or design change without notice or obligation.

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Predefined management reports include:

- > Equipment availability
- > System wait time
- > System transaction counts
- > Wait time per transaction at a station
- > System sends/receives per station
- > Wait time per transaction at a zone
- > System sends/receives per destination
- > Actual transaction travel time
- > System sends/receives per zone
- > Travel time per sending station
- > Station empty carrier sends/receives
- > Travel time per sending destination

