



Lattice

**Network Proximity
Access Control**



The Lattice range of proximity readers is designed to meet the need for a cost-effective, networked access control system. The system centres around the L1000 controller that can operate

as a stand-alone reader, or as the "master" in a network with up to 31 additional "slave" heads (LSH40).

Up to 1000 tags can be learned into the system allocated into 1000 separately identifiable groups known as identities (ID's). Any ID can contain multiple tags.

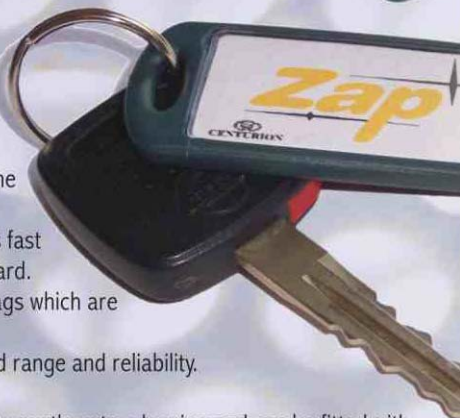
The L1000 master controller, or a LSH40 slave head, if used with its "free-exit" input option to provide entrance to, or exit from, up to 32 separate doors.

By combining a master and slave head, or two slave heads, both directions of traffic flow (entrance or exit) through a door can be controlled. Up to 16 doors can be controlled in this way.

Up to 7 hierarchical levels of anti-pass back can be set up for each individual tag.

The tags are based on the latest 13.56 megahertz RFID technology which is fast becoming a world-standard. This technology offers tags which are cost effective, have good read range and reliability.

The Centurion Zap tag fits neatly onto a keyring and can be fitted with an identification label.



The readers can be flush-or surface-mounted. The flush mounted option fits neatly into a 100mm x 50mm light switch box. (4" x 2")

A rugged stainless steel anti-knock shield is available for outdoor sites where vandalism is likely to be encountered, or where the unit needs to be mounted onto a gooseneck.

Programming of tags into the system can be done in two ways:

- By using a single "Administration" tag with the L1000 master controller.
- By using Centurion's Lattice-Ware software, designed specifically for the Lattice reader range.

The "Admin" tag accesses a detailed programming menu, which is navigated using a 3 digit LED display on the L1000. The unit does not have to be opened to enable programming.

The optional Lattice-ware software is linked through the L1000 and a LTU "Lattice Take-up" unit to a PC (or Laptop). The Lattice-ware software is intuitive, easy to use and greatly enhances the functionality of the system. Apart from the ease of processing tags on the system it offers "remoting" which enables certain functionality to be displayed on PC's which are linked via a standard LAN. Thus a security guard would have a photograph of the correct person using the tag displayed on his computer screen.

In all cases it is possible to learn, or delete tags, by ID, by specific tag, or by specific reader.

Some of the programming features are:

- **QUICK-learn** feature enables tags to be inputted in seconds with standard default settings.
- **Standard Learn** where specific attributes can be set on each tag.
- **"Copy"** feature allows attributes from any existing tag to be copied to new tags.



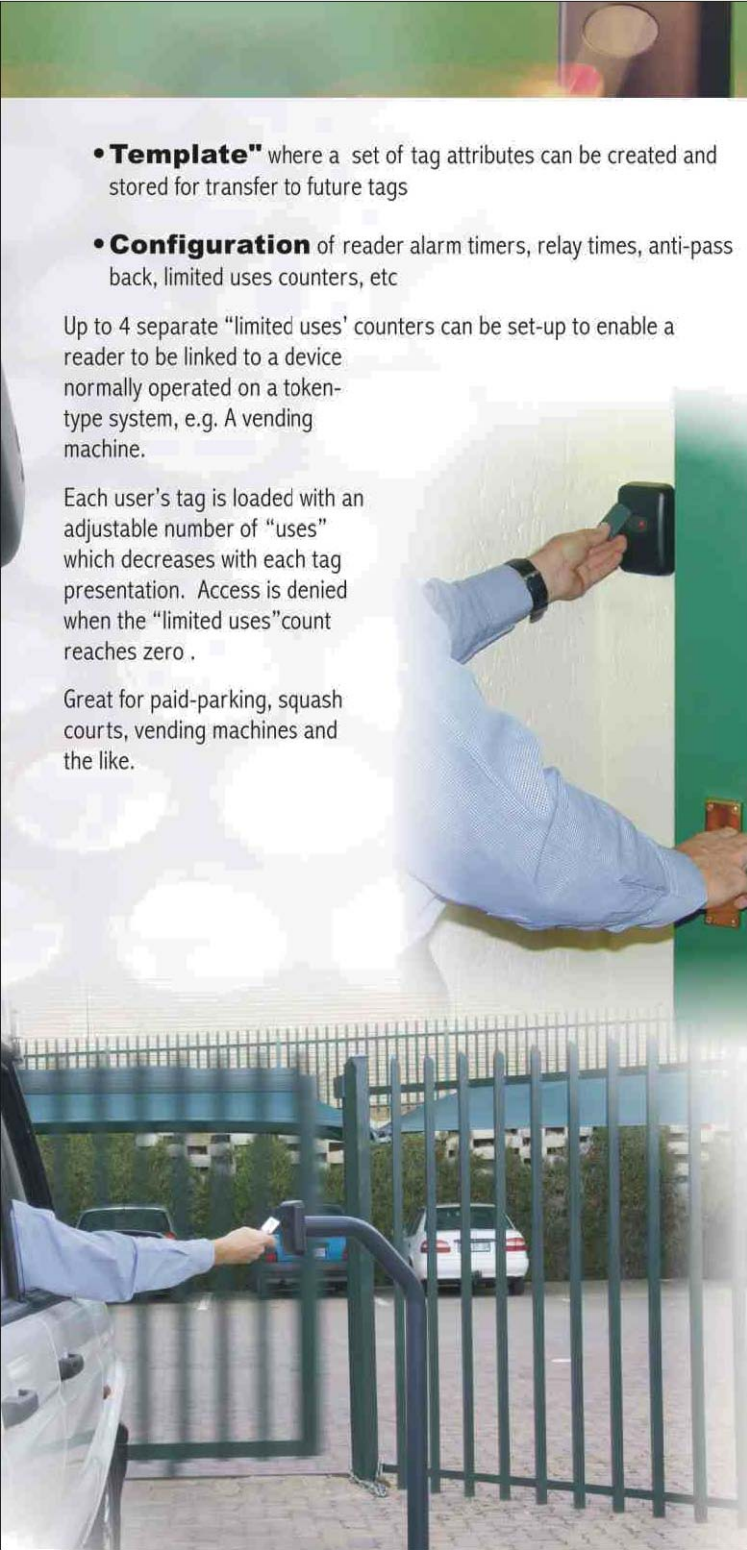
- **Template"** where a set of tag attributes can be created and stored for transfer to future tags

- **Configuration** of reader alarm timers, relay times, anti-pass back, limited uses counters, etc

Up to 4 separate "limited uses" counters can be set-up to enable a reader to be linked to a device normally operated on a token-type system, e.g. A vending machine.

Each user's tag is loaded with an adjustable number of "uses" which decreases with each tag presentation. Access is denied when the "limited uses" count reaches zero .

Great for paid-parking, squash courts, vending machines and the like.



system features

Number of Tags that can be stored in Memory	1000
RS485 Network Interface	Yes
Number of Slave Heads that can be used with L1000	31
Logging & Reporting Using a PC	Yes
Administration Using a PC	Yes
Time Barring Using a PC	Yes
Administration Using Tags	Yes
Multiple Tags per ID Reference	Yes
Quik-Learn Tags Facility	Yes
Copy Tag Facility	Yes
Suspend Tag Facility	Yes
Total Memory Erase	Yes
Anti-Pass Back Facility	Yes
Number of Anti-Pass Back Levels	7
Limited Uses Counter (999 Uses per Counter)	4
Securely Encrypted Tags	Yes
Securely Encrypted Network	Yes
Firmware Upgrade Facility	Yes

reader features

	L1000	LSH
Stand-Alone Capability	Yes	No
Dipswitch Configurable Network Address	No	Yes
Relay Time Configurable (Off/1-254s/Latch)	Yes	Yes
Open Collector Output Time Configurable (Off/1-254s/Latch)	Yes	Yes
Door Open Timer (0-255s)	Yes	Yes
Door Open Pre-Warn Timer (0-254s/Infinite)	Yes	Yes
Door Open Alarm (Off/1-254s/Infinite)	Yes	Yes
Door Forced Alarm (Off/1-254s/Infinite)	Yes	Yes
Reduced Power Consumption	Yes	Yes
Functional Tags in Off-Line Situation	1000	40
Output Channels	2	1
Voltage-Free Relay Output (Potential-Free)	Yes	Yes
Open Collector Output (Smart Switch 2 Enabled)	Yes	Yes*
Free-Exit Input	Yes	Yes
Door Sense Input	Yes	Yes
Output for Optional External Alarm	Yes	Yes
Anti-Tamper Switch Facility	Yes	Yes
User Interface - 3 Digit Display + 3 LEDS	Yes	-
User Interface - 5 LEDS	-	Yes
Hardware Link to LTU (Lattice Take-Up Unit)	Yes	No

*Note: Dipswitch on slave head selects between relay or open collector output

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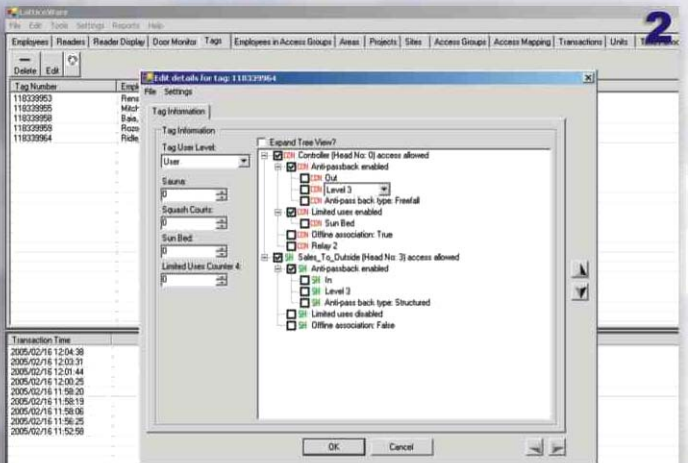
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Lattice WARE

The optional Lattice-ware software runs on a PC or laptop (the Lattice server) and is linked to the L1000 via a Lattice Take-Up Unit (LTU). The Lattice-Ware Software is intuitive, easy-to-use and greatly enhances the functionality of the system, while making the tasks of modifying and managing the system far simpler.



The Lattice-Ware software can also be installed on any computer connected via a LAN to the Lattice server. This means that any computer can be used to view the Lattice network status, perform system management, display reports and configure tags. For instance, a security guard sitting at an access point can have a door monitor enabled which displays the photograph and selected information of anyone using a particular reader, to ensure that the correct person is using the tag.



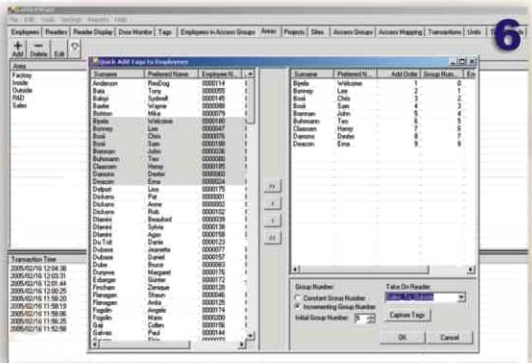


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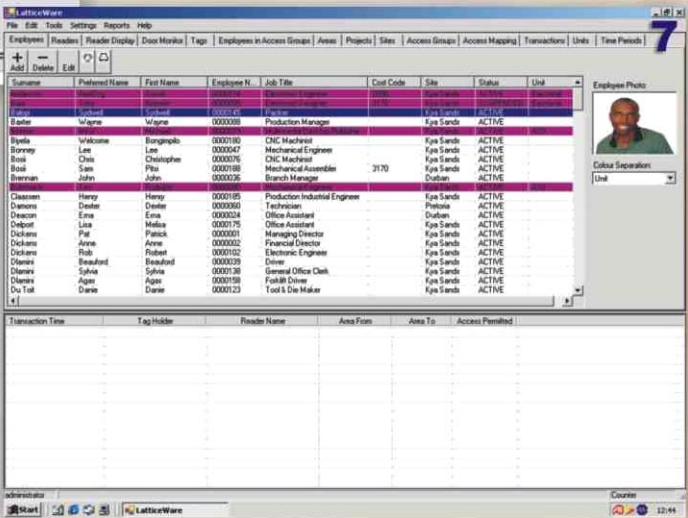
LatticeWare can also generate sophisticated reports which display pertinent information. User configurable filters can also be created which allow for more specific reporting. These reports can also be exported in a variety of formats (Rich Text, Excel, PDF, Word)



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- 1 The Edit Readers Screen allows the user to edit and configure the settings of any reader on the network.
- 2 The Edit Tags Screen allows the user to edit the access rights, anti-pass back levels, limited uses counters, limited uses counter values for the tag.
- 3 Pictures of tag users can be captured using a webcam.
- 4 The Door Monitor feature allows a security guard sitting at an access point to compare the user of the tag, to the person allocated to that tag.
- 5 The Edit Employee Screen allows the user to modify all information about the users, as well as allowing pictures to be taken if a webcam is attached.
- 6 The Quick Add Tags feature allows tags to quickly be assigned to the users.
- 7 Selected information can also be grouped by colour for easy management



features

Platforms:

- Server - Windows 2000 and above
 - Clients - Windows 98 and above
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Remote administration from client computers accross a LAN network allows the user to fully configure the Lattice Network

Databases Supported:

- Firebird
 - MySQL
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Store Details of Employees

- Capture Pictures using a Webcam
 - Print Labels for your Tags
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Import Employee Information into the Database

Remote Administration of Tags

- User Friendly Configuration of Limited Uses and Anti-Pass Back Levels
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Security Guard Feature

- Monitor Access through a particular Reader of Set of Readers
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Capture Tags from any On-Line Reader

Store Details of Readers

- Update Reader Settings Remotely
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Time-Barring and Access Groups

- Easy Management of Time Zone Information as well as Access Group Members
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Create and Manage Access Areas for your business

Online Logging and Reporting of Transactions on your Lattice Network

User-Customizable Reports
