PARCEL Delivery Lockers

- Secure Parcel Collection
- Convenient and Easy 24/7

“20 years experience in electronic locker design and construction”
The Vlocker Click n Collect delivery system is available 24/7

Vlocker has 20 years experience in the design and construction of Electronic Lockers. Suitable for indoor and outdoor use our lockers are built to withstand the harshest of environments.

System features:
- Interconnected global locker network
- Centralised configuration and maintenance of all deployed locker sites
- Centralised or Local management of locker network
- APIs provided for easy integration
- Software designed for high availability and redundancy
- Includes customer website for registering and paying for locker delivery system
- Includes delivery agent website for managing logistics, run scheduling, locker loading and returns
- All software and hardware can be branded and themed
- Various payment gateways
- Country specific payment gateways developed as required
- No payment required at locker terminal - payment made on web site when registering

Locker features:
- Rugged / Vandal Proof
- Various size lockers including custom sizes
- Refrigerate Lockers available for parcel delivery
- UPS
- CCTV
- Optional module available for refrigerated and frozen grocery delivery
- Optional module available for laundry drop-off and collection

Access terminal features:
- Secure communications with locker network using LAN/3G/4G
- Redundancy allows continued operation if Comms are down
- RFID
- Touch screen
- 1D/2D Barcode Scanner
- Help line using VOIP
- Lighting
- Roof
- Temperature control
- Tamper alarm
Vlocker Click n Collect Parcel Delivery System Workflow

Customer Purchases Goods Online from Non-Vlocker Integrated Web Site

Customer

Online Purchase from any Webstore

Choose Locker Delivery Destination

Parcel Shipped from Webstore

Parcel Delivered to Locker

Customer Receives Access Code

Customer Arrives at Locker Location

Choose Collection Option on Locker Terminal

Scan Barcode / QR Code or Enter Pin

Door Opens for Customer to Retrieve Parcel
**Delivery Agent**

### Incoming
- Incoming Parcels from Various Couriers
- Attach Label and Register Parcel Arrival
- Depot
- Consolidate for each Locker Location

### Location 1
- Locker Loading
- Customer Receives Email Containing Pin/Barcode

### Location 2
- Locker Loading
- Customer Receives Email Containing Pin/Barcode

### Returns
- Uncollected Report
- Retrieve Uncollected
- Location 1
  - Customer Receives Email Notification with Payment Details
  - Returned to Depot
- Location 2
  - Customer Receives Email Notification with Payment Details
  - Waiting for Payment Delivery Reschedule
## Technical Information:

### Technical Requirements

<table>
<thead>
<tr>
<th>Description</th>
<th>Hardware</th>
<th>Software</th>
</tr>
</thead>
<tbody>
<tr>
<td>Centralised Server&lt;br&gt;Hosts V-Global web site&lt;br&gt;Hosts V-Manage web site&lt;br&gt;Hosts V-Central APIs and Web Services&lt;br&gt;Sync Services</td>
<td>VMWare or similar Windows Server Scalable</td>
<td>Windows Server 2012 Microsoft SQL Server 2008 (or newer) Standard or Web Edition Microsoft IIS</td>
</tr>
<tr>
<td>Locker Terminals&lt;br&gt;Locker application(s)&lt;br&gt;Hosts V-Control APIs and Web Services&lt;br&gt;Hosts V-Open (communication to locker electronics)&lt;br&gt;Sync Services</td>
<td>Touch Screen industrial grade Windows PC</td>
<td>Windows 7 OS Microsoft SQL Server Express Edition Microsoft IIS Vlocker Application(s) V-Parcel V-Laundry V-Rental Custom</td>
</tr>
<tr>
<td>Communication between Terminals and Server</td>
<td>VPN Router (Physical or Virtual) required at Server 3G Internet connection or similar required at each terminal</td>
<td>Via HTTPS or HTTP over VPN link using</td>
</tr>
</tbody>
</table>

### Vlocker Architecture

![Vlocker Architecture Diagram]

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## Software Modules Include:

<table>
<thead>
<tr>
<th>Module Name</th>
<th>Description</th>
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<tbody>
<tr>
<td>V-Central</td>
<td>V-Central is the core part of the vlocker system. It is the central hub to handle and record all transactions and locker interactions throughout the global vlocker network. Includes SQL Server database Usually 1 per global locker network</td>
</tr>
<tr>
<td>V-Control</td>
<td>V-Control is a back-end application running at each locker location that allows management of individual lockers. It is the entry point for communication with V-Central in order to push/pull transaction and configuration data to/from V-Central. Includes SQL Server database containing a sub-set of V-Central database for specific locker location Usually 1 per locker location Usually installed on Access Terminal computer alongside V-Parcel application</td>
</tr>
<tr>
<td>V-Manage</td>
<td>Web site used to manage and configure global locker network. Used by operations, customer service, I.T and technical support teams.</td>
</tr>
<tr>
<td>V-Deliver</td>
<td>Web site used for Customers and Delivery Agents to book, pay for and manage deliveries and returns.</td>
</tr>
<tr>
<td>V-Parcel</td>
<td>Windows Application running on Access Terminal at locker location allowing parcel pickup.</td>
</tr>
</tbody>
</table>

“Reducing the cost of Last Mile Delivery”

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