

# **OPN\_LOGGER**

(SQL COMPACT EDITION)

# **GETTING STARTED GUIDE**

V. 1.01

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#### **1.0 INTRODUCTION**

The system is designed to provide a simple and flexible solution for a wide range of general logging tasks including:

Equipment location or 'ownership' tracking Safety inspections and maintenance logging Job tracking Logging of equipment to site Simple equipment loans Etc.

Equipment tracking data collected using the OPN2001 may be easily downloaded to the system database via USB, to maintain an accurate record of both the current and historical equipment locations and statuses.

Standard reports included with the system include current and historical location and status reports. The Current equipment location/status may also be exported from the system in Excel format or as a simple text file for processing and reporting by other systems.

Equipment may be associated into groups or categories for reporting, and if required an optional 'Download Reference' may be entered when loading the stored tracking data into the database. This download reference may be used for a wide range of functions including specifying an expected return date for equipment being sent out on loan.

A barcode label printing facility is included as standard, allowing Equipment labels, Operator ID labels, Location labels and Status labels to be generated direct from the system database. Alternatively barcodes can be generated from other systems as required.

OPN-Logger is available with single or multi-user database. This User Guide relates to the single user database edition of OPN-Logger.

## **1.0 INSTALLATION**

The system software and OPN2001 drivers may be installed as summarised below:

## Notes:

- The .NET 2.0 Framework is a prerequisite of OPN-Logger.
- Some aspects of the software installation may require administrative privileges

#### 1.1 INSTALLING OPN-LOGGER FROM CD

To install the OPN\_LOGGER software from CD proceed as follows:

- 1) Run the installer **setup.exe** from the system CD and follow the prompts. (*Setup.exe will normally attempt to install the required .NET 2.0 Framework if not present on the PC*)
- 2) Run **CRRedist2005\_x86.exe** to install components used by the software reports module
- 3) OPN\_Logger is now installed.
- 4) Now run OPN-Logger and proceed as shown below to create the system database:



## 1.2 DOWNLOADING AND INSTALLING OPN-LOGGER FROM ERS WEBSITE

To download and install OPN-Logger from the ERS Website proceed as follows :

- 1) From the OPN-Logger product page click **Product Downloads** from the black menu bar below the product description
- 2) Download OPN-Logger Demo Install and OPN-Logger Demo Reports Install
- 3) Run the downloaded OPN-Logger Demo Install file (**OPN-Logger.msi**) and follow the prompts. (Note that the downloaded msi installer will **not** attempt to install the required .NET 2.0 framework if not already present on the PC. In this case contact ERS for a copy of the installation kit which includes the .NET 2.0 framework)
- 4) Run the OPN-Logger Demo Reports Install file (**CRRedist2005\_x86.exe**) to install components used by the OPN-Logger reports
- 5) OPN\_Logger is now installed.
- 6) Now run OPN-Logger and proceed as shown below to create the system database:

ीं   OPN-Logger	
File Edit Tools Help	
<b>▲</b>	1. Click <b>Tools &gt; Options</b> from the program menu bar
Temperature	Configuration Options Database Additional Fields
Transfer Data	Server Type: SQL Server Compact Edition
<b>ii</b>	Database file: C\ProgramData\Electronic Reading Systems Ltd\OPN-SLM\OPN-SLM.adf
2. Click Creat	te Database size: 256 🖼 MB
	Create Database 🎦 Shrink Database 🖹 Repair Database 🐲
Specify location and filename for the new database	
Organize • New folder	Systems Ltd + OPH-BLM + • 😰 Gallocation =
Kersteiner      Kersteine	Date modified         Type         Size           05/12/2011 10:11         File folder
Recet Places	
at in returns ⊕ ■ Videos	3. Specify a location and name for the database file and click <b>OK</b> .
	The default location for the database is:
C Q Network	C:\ProgramData\Electronic Reading Systems Ltd\OPN-Logger
Create database result	
Database created. Clic	k <b>OK</b> to continue.
OK	
Create database result	X
Would you like to make this datab	<sup>1</sup> 5. Click <b>Yes</b> to make this the active database
	<u>Y</u> es <u>N</u> o

## **1.3 LICENCING OPN-LOGGER**

After initial installation the software will run in demonstration/evaluation mode where the max. number of records in the database will be limited.

To licence the software for normal use click **Help > Licence Management** and proceed as follows:

ीं।  OPN-Logger	
File Edit Tools	Help
	1. Click Help > Licence Management
	Transfer Data
	K Licence Management
	OPN-Logger
	2. Click Change Licence
	Licence: DEMO Change Licence
	Expiry Date: Never
	Licenced Options: Description Status Single User Enabled Read Only Disabled OPN Licence Validation Disabled
👫 Enter Rele	ase Code
к	a. OPN_Logger generates a random Keycode.         Contact ERS for the relevant release code
Releas	e Code Ok Cancel

## 1.4 INSTALLING THE OPN2001 DRIVERS

To install the drivers for the OPN2001 run the Opticon Driver Installer (**USB Drivers Installer.exe**) from the system CD and proceed as shown below.

**Note:** Do not connect the OPN2001 data collector onto your PC until after the drivers have been installed below



#### **1.4.1 CHECKING THE DRIVER INSTALLATION**

The driver installations can be checked via the Windows Hardware Device Manager as follows:



## 1.5 SYNCHRONISING THE OPN2001 REAL-TIME CLOCK

The real-time clock in the OPN2001 will be automatically synchronised to the PC clock when connecting to OPN-Logger to transfer data.

Since the transaction date and time is used by OPN-Logger to determine an item's latest Location or Status we make the following recommendations:

- 1) Before using the system connect each OPN2001 to OPN-Logger and click **Transfer Data** to initialise the clocks (see Section 4.0 Downloading the Data Collectors)
- 2) In normal use the data collectors will be regularly synchronised during the download process. If a data collector has not however been used for an extended period of time it may be advisable to synchronise its clock by connecting to OPN-Logger and clicking **Transfer Data**
- After ad hoc regional time changes (eg: BST) make sure the data collectors are again re-synchronised to the correct time before proceeding to scan items. Failure to do this will log items with the incorrect date/time stamp until the terminal is subsequently downloaded and the clock is synchronised. (In the majority of cases this will have no detrimental effect however if an item is scanned into

a location before being synchronised to the ad hoc time change, and is then scanned to a different location shortly after synchronisation, the ad hoc time change could result in the wrong record being used when reporting the latest location for the item).

#### 2.0 OPN\_LOGGER DATABASES

OPN\_Logger incorporates a number of internal databases as summarised below.

**OPERATORS** - A database of operator names may optionally be created in order to track the operators performing the logging if required

**ITEMS** - A database of the items being logged may be maintained including Item description and up to 4 additional fields (Note: The titles for the additional fields are user configurable see section 2.3 below)

**LOCATIONS** - A database of location descriptions may be maintained. These will be the locations to which items will be logged.

**STATUS CODES** - a status code may also be associated with each item being logged. This might for example indicate the condition of the item, or flag that the item requires calibration or repair work etc. A database of status code descriptions may be maintained as required.

In addition OPN\_Logger includes a **Transactions** database which is used to hold the tracking data downloaded from the data collectors. (See Section 4.0 below)

The Operators, Items, Locations and Status Codes databases may be initialised by file import, or by manual editing via the PC keyboard (See sections 2.1 - 2.3 below).

#### 2.1 IMPORTING OPERATORS, LOCATIONS, ITEMS AND STATUS CODES

To import details of Operators, Locations, Items and Status codes proceed as shown below. (Note: Formats for the import data files are summarised in APPENDIX 2 below)



## 2.2 MANUALLY EDITING THE SYSTEM DATABASES

The system databases may also be initialised or edited via the PC keyboard as follows:

II OPN-Logger			
File Edit Tools Help Coperators Coperators Coperators File Locations File Status File Status File Status File Coperators File Coperat	1. Click <b>Edit</b> from the dited from the list <b>Note:</b> The stored the stored the dist <b>Note</b> is the stored the dist <b>Note</b> is the stored the dist <b>Note</b> is the store is the sto	he program menu bar a (operators, Locations, I ransactions may also be	nd select the database to be tems or Status Codes) e edited - see section 4.1 below
	to perators	- 🗆 ×	
	Operator ID	A Description	
	DH001	Dave Hayzen	
Reports	JC001	Jeremy Casling	
	MR001	Mike Rosum	
	MV001	Mike Villers	
	SB001	Steve Ball	
	2. To add Alternativ <b>Delete</b> to	a new record into the c rely highlight a record an erase the record from t	atabase click <b>Add New</b> . Ind click <b>Edit</b> to amend the record, or the database.
	Add New	Edit Delete	

## 2.3 CONFIGURING THE ITEMS DATABASE ADDITIONAL DATA FIELDS

The items database includes the barcoded Item ID and description together with 4 additional database fields.

These additional fields may be used as selection criteria when configuring a set of data for reporting. For example an additional field might be used to group equipment of a similar type together for maintenance or safety checking purposes

The titles of these additional fields are user configurable, as follows:

ीत OPN-Logger		
File Edit Tools	Help	1. Click <b>Tools</b> > <b>Options</b> from the program menu bar
	Transfer [	ata
		Additional Fields
	1	Alias for Additional Fields
	Report	Addtonal Field 1 Addtonal Field 2 Addtonal Field 3 Addtonal Field 3
		Additional Fields tab enter the titles for the additional fields, as required
		Ok: Cancel

## 3.0 LOGGING ITEMS

The OPN2001 data collector may be used to track item locations and log item statuses by scanning barcodes as shown below: (Refer also to **Appendix A** below for details of barcode data formats)



**Note:** Scanned data will automatically be date/ time tagged and stored in the data collector for subsequent downloading to the OPN\_Logger 'transactions' database (see section 4.0 below).

## 4.0 DOWNLOADING THE DATA COLLECTORS

To download stored data from the data collectors proceed as follows:

**Note:** The Transfer Data facility will automatically synchronise the OPN2001 real-time clock. Before using the data collectors we therefore recommend using the Transfer Data function to ensure the all the devices are synchronised and set to the correct time



## **4.1 EDITING THE DOWNLOADED TRANSACTIONS**

The downloaded transactions may be edited or new transactions manually entered if required, as shown below:



## 5.0 RUNNING REPORTS

A selection of standard reports are incorporated into the system. To run reports proceed as follows:

₹ <b>∦ OPN-Logger</b>	_			
File Edit To	ools Help			
		1. Click Reports		
				_
	Iransfer Data	Reports		×
	Reports	List Operators List Operators List Operators List Locations List Rems List Rems List Rems List Returns Current Location Current Location Location Code	on (By tem) on (By Location)	Y
		Item Code	×	
2. Select list, and <b>Run Re</b>	Additional Field 1 Additional Field 2 Additional Field 2 Additional Field 2 Additional Field 4 Additional Fi			
	<b></b>	State Date 10/04/2012	End Date 10/04/2012	
<b></b>			Run Report Clear Selection	
[	Current Location [By Printed on Wednesday25 Apri	۲ <b>Item]</b> ۱۱ 2012		
Item IT001 - Office Chair Type 1	Location Last Status Stock Room	Operator Reference Dave Hayzen 23 test	t 23/04/2012 14:49:55	
Blue, Large, 23kg, 1  * IT002 - Office Chair Type 2	Stock Room SC004	Dave Hayzen 23 test	t 23/04/2012 14:49:55	
Red, Large, 23kg, 1 IT003 - Office Chair Type 3	Stock Room	Dave Hayzen 23 test	t 23/04/2012 14:49:56	
Blue, Medium, 21kg, 1 IT004 - Office Chair Type 4	Stock Room	Dave Hayzen 23 test	t 23/04/2012 14:4956	
Red, Medium, 21kg, 1 IT005 - Office Desk Type 1	Sales Floor * SC005	Dave Hayzen 23 test	t 23/04/2012 14:50:01	
Oak, 6x4, 40kg, 1	Sales Floor	Dave Hayzen 23 test	t 23/04/2012 14:49:57	
			Total : 6	
Report produced by OPHLogger - E	<ul> <li>3. The report is generated.</li> <li>Note:</li> <li>Data records which h with an asterisk in the</li> <li>If multiple Status cod code entered will be status code will be pr</li> </ul>	ave been manually e left hand column. es have been entere shown in the Curren efixed by an asteris	entered or edited will be highlighter red against an item only the last St nt Locations report. In this case the sk. Run the Current Status report to	ed atus e o view

## **6.0 BARCODE PRINTING**

OPN\_Logger includes a facility to print item and location barcodes using the Toshiba B-EV4T desktop label printer. This option may be used to generate 70mm x 32mm self adhesive paper or polyester labels including (where necessary) the relevant formatting characters as summarised in Appendix 1 below.

To print barcoded labels click **Tools** > **Barcode** printing and proceed as shown below:



## 7.0 EXPORTING THE TRANSACTIONS

The transactions relating to the latest location and status may be exported from OPN-Logger in text or Excel format.

To edit the transactions proceed as follows:



#### APPENDIX 1 BARCODE DATA FORMATS

OPN\_Logger allows items to be associated with a Location Code and/or various Status codes. In addition the system allows the Operator performing the logging to be identified using an Operator ID.

In order to distinguish the different codes and IDs OPN\_Logger defines a specific data format for Location codes, Status codes and Operator IDs as summarised below.

If using the barcode printing facility in OPN\_Logger these formats will automatically be handled by the software as required (see Section 6.0 above). These formats will however need to be considered if using other software packages to generate the Location and Status Code barcodes.

#### LOCATION CODES

Location Codes must be preceded by a + symbol. This is used to identify the barcode as a 'Location' and will be automatically stripped by the system before the data is stored in the database. For example the Location LOC001 should coded as +LOC001:



#### **STATUS CODES**

Status Codes must be preceded by a % symbol. This is used to identify the barcode as a 'Status' and will be automatically stripped by the system before the data is stored in the database. For example the Status Code ERS021 should coded as %ERS021:



#### **OPERATOR IDs**

Operator IDs must be preceded by a . symbol. This is used to identify the barcode as an Operator ID and will be automatically stripped by the system before the data is stored in the database. For example the Operator ID 1001 should coded as .1001:



#### ITEMS

Barcodes without any of the above leading characters will be identified as Item codes.

#### **APPENDIX 2 FILE FORMATS FOR IMPORT FILES**

The formats for the imported data files are summarised below:

**OPERATORS FILE -** The Operators data file includes the Operator ID and name as follows:

[OP ID] , [Name] [cr.lf]

Where

[OP ID] is the barcoded Operator ID , (comma) is used as a delimiter [Name] is the operator name [cr,lf] are the Carriage return and line feed characters

For example:

10004, John Smith 10005, Robert Stone 30055, Amanda Johnson M025, Peter Piper

LOCATIONS FILE - The Locations data file includes the Location ID and description as follows:

[LOCATION ID] , [Description] [cr.lf]

Where

[LOCATION ID] is the barcoded Operator ID,(comma) is used as a delimiter[Description]is the Location description[cr,lf]are the Carriage return and line feed characters

## For example:

LOC001,Entrance Hall LOC002,Secure Stock Room ACM001,Project ACM001 C000X,Customer X

ITEMS FILE - The Items file includes the Location ID and description as follows:

[ITEM ID] , [Description] , [Field 1] , [Field 2] , [Field 3] , [Field 4] [cr.lf]

Where

[ITEM ID]	is the barcoded Item ID
,	(comma) is used as a delimiter
[Description]	is the item description
[Field 1] [Field 4]	are the optional additional data fields (see section 2.3 below)
[cr,lf]	are the Carriage return and line feed characters

For example:

IT001,Office Chair Type 1,Blue,Large,23kg,1 IT002,Office Chair Type 2,Red,Large,23kg,1 IT003,Office Chair Type 3,Blue,Medium,21kg,1

**STATUS CODES FILE -** The Status Codes file includes the Status Codes and descriptions as follows:

[STATUS CODE], [Description] [cr.lf]

[STATUS CODE]is the barcoded Status Code<br/>(comma) is used as a delimiter[Description]is the status description[cr,lf]are the Carriage return and line feed characters

For example:

Where

SC002,Unlocked Door SC003,Broken Window SC005,Misssing Light SC006,Missing Chair

## **APPENDIX 3 - HINTS & TIPS**

#### 3.1 USING OPN-LOGGER TO TRACK EQUIPMENT LOANS

OPN-Logger may be used to provide a simple means of tracking equipment and assets which are sent out on temporary loan, for example:

- Equipment loaned to clients or personnel on a temporary basis
- Equipment sent to site or installation purposes or temporarily booked to specific Projects
- Etc.

In this case the following ideas may be of assistance:

- Using the Download Reference to specify an Expected Return Date: OPN-Logger can be configured to prompt for entry of an optional Reference code when downloading the stored tracking data from the OPN20001 Data Collector.
   Assuming that the Location, Client or Project etc. to which the equipment is being booked will scanned into the OPN2001 data collector as a barcoded 'Location' Code, the Download Reference could be used to specify an expected return date for the items if required.
- 2) Using an Additional Database field to identify Equipment Part Nos: OPN-Logger uses a unique barcode ID for each item of equipment in order to track the location and history of individual items. even if the stock includes multiple. If the Part No. of each item in the Equipment database is included as one of the available 'Additional Data fields' the system may then be used to generate a list of all items for a specific part no. including the current 'availability' (eg: showing whether the item is currently in stock or at a different location). Where the Download Reference has been used as above to hold a re turn date this will also be shown where relevant).
- 3) Reserving Items: Items of equipment which are required for projects in the very short term may be booked to a 'Reserved' Location, and the Download Reference used to indicate the Project/ Client ID and 'required' date if required. The current status for these items will then show as reserved in order to prevent allocation elsewhere. Note: We do not recommend this technique for logging future reservations.