# TEKLYNX SENTINEL

# LABEL PRINTING AUTOMATION SOFTWARE

SENTINEL saves time and prevents errors by eliminating unnecessary manual processes, centralizing and integrating your printing system with your business systems.

www.teklynx.com/sentinel

TEKLYNX
Barcode Better

# What is SENTINEL?



TEKLYNX' SENTINEL is the only centralized **print management software** that takes label printing from the desktop to the server room for true enterprise printing - SENTINEL Print Pack and SENTINEL Data Exchange offer cost-effective, scalable software solutions that eliminate costly, custom, host-side programming.

With SENTINEL, you get:

- Print management software that **allows enterprise-wide label printing** from one central location

- **Event-driven, high performance software** that can process all label printing data regardless of format

- A solution that runs **as a service** on Windows® operating system

- Compatibility with CODESOFT label design software

- A host application that can run on any platform and any network connection (LAN/WAN/WiFi)

The Mapper allows you to create and configure mapfiles, which will be used for analyzing your data files. A map file describes the structure of the data files for analysis and assigns the mapped data to the corresponding variables in the label document. And because of its unique mapping capability, any system can connect to SENTINEL.
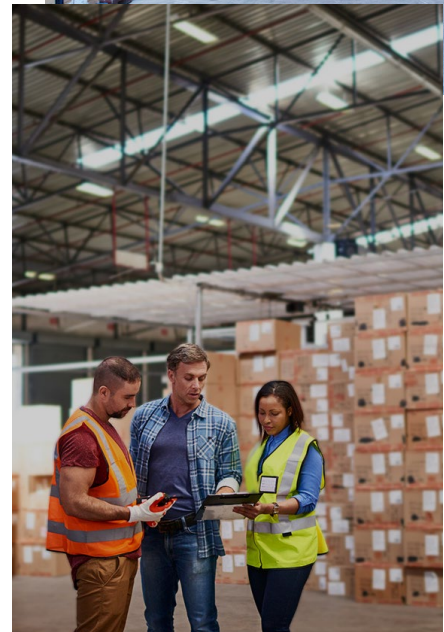
# Who is SENTINEL for?

For large enterprises and industry corporations such as automotive, pharmaceutical, chemical, electronic, industrial manufacturing or distribution who want to remain hardware independent, SENTINEL can:

- Integrate the printing process into the company's core job application and business workflow

- Trigger print jobs from an external software or program such as an ERP system

- Manage hundreds of printers in multiple locations from your server

For small to medium size companies who don't have the time for the daily demands required by Label Printing, SENTINEL can:

- Automate the printing process

- Integrate seamlessly with CODESOFT label design software

- Exchange information with databases such as Oracle, MS SQL Server, MS Access etc.

- Support over 3000 thermal transfer, thermal, inkjet and all Windows printers.
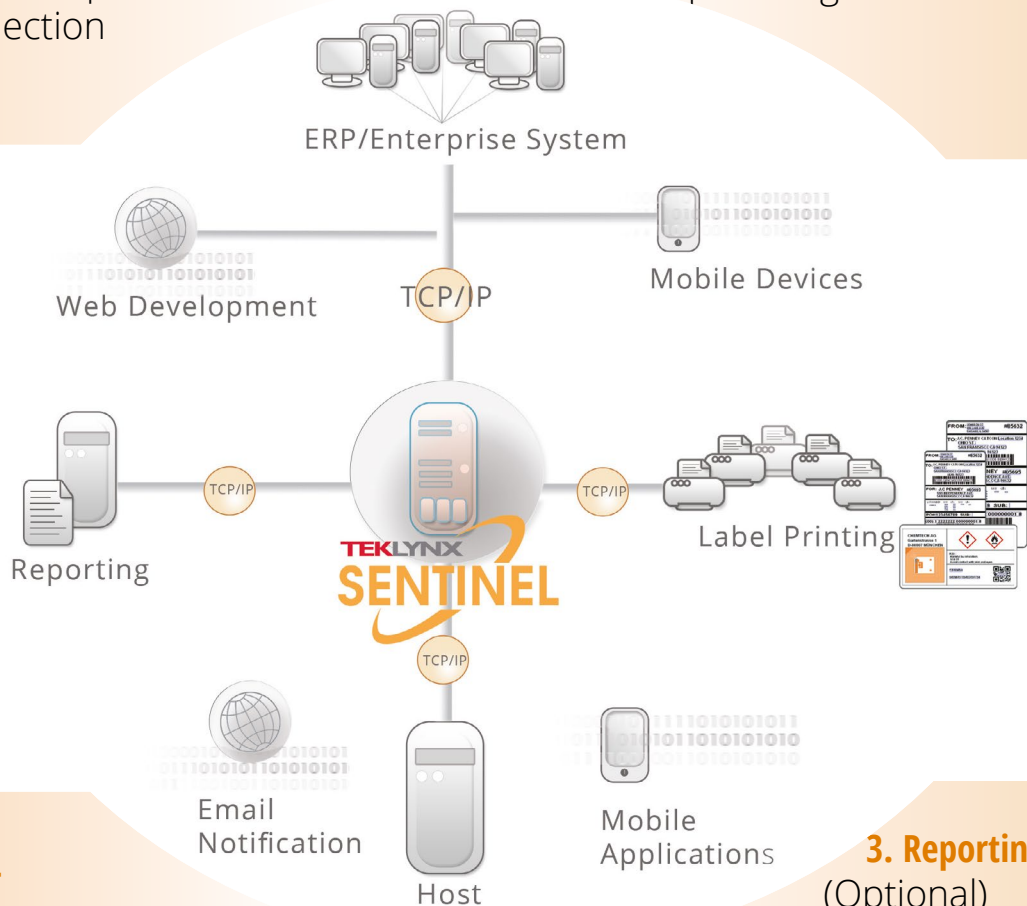
# What is SENTINEL Print Pack?

SENTINEL Print Pack automates the printing of barcode, compliance or RFID labels created with CODESOFT label design software through:

**1. Data Input —**
Data can arrive via a TCP/IP port, as a data file saved to a "watch" directory, as a file printed to a virtual printer, or via a Data Collection Server.

**2. Processing —**
Data is then processed based on predetermined rules (defined as a "map") and printed through the print engine.

ERP/Enterprise System

Web Development

TCP/IP

Mobile Devices

TCP/IP

TCP/IP

Reporting

**TEKLYNX SENTINEL**

TCP/IP

Label Printing

Email Notification

Host

Mobile Applications

**4. Output —**
(Optional)
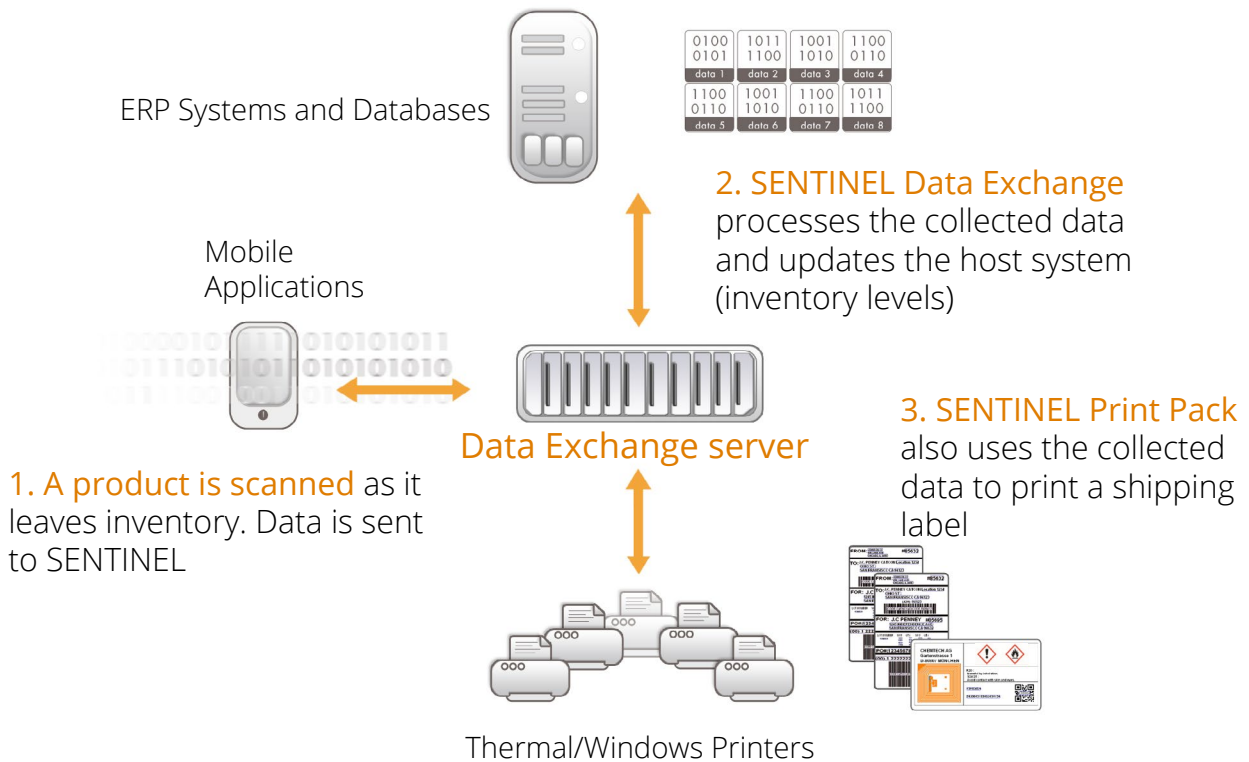Data can be saved for archiving or as input to another watch.

**3. Reporting —**
(Optional)
Reporting information can be e-mailed in realtime to an administrator to indicate a problem or activities can be logged for historical purposes.

# What is SENTINEL Data Exchange?

As the name implies, SENTINEL Data Exchange is all about exchanging data, and is specifically designed to meet the growing needs of AIDC integration.



ERP Systems and Databases

Mobile Applications

**2. SENTINEL Data Exchange** processes the collected data and updates the host system (inventory levels)

Data Exchange server

**3. SENTINEL Print Pack** also uses the collected data to print a shipping label

**1. A product is scanned** as it leaves inventory. Data is sent to SENTINEL

Thermal/Windows Printers

SENTINEL Data Exchange has all the functionality of the SENTINEL Print Pack product, and also includes the following additional plug-ins:

- **Web Service Client process plug-in** uses a sentinel to call web service functions along with parameters from received data.

- **Database process plug-in** processes data received from an input plug-in and updates, inserts or deletes records in one or multiple databases. The Database plug-in can also activate stored procedures in a database.

- **Web Server input plug-in** collects data from web applications via RESTful Web API and can process the data using any SENTINEL process plug-in.

ALIEN 2003 ©

# Why should I get SENTINEL?

### Single Solution
One integrated solution, versus many different ones, to bridge the gap between host systems and AIDC printers and devices

### Flexible
Multiple systems, multiple printers

### Scalable
SENTINEL can grow with your business quickly and easily without custom programming

### Unique
Only TEKLYNX offers a bridge that supports all of your AIDC needs on the shop floor from data collection to label printing

# What is SENTINEL Backup Server?

>> **SENTINEL Backup Server** (also known as SBS) — is the key application in providing the added level of security to any SENTINEL installation.

· SBS allows a secondary server to remain up-to-date so as to act as a backup in case the primary server fails.

With SENTINEL's Backup Server (SBS), you can rest assured that your valuable information remains safe and protected at all times.

# Cross-Compatibility

>> **LABEL ARCHIVE** — can be easily integrated into the architecture of your system and work alongside SENTINEL to give an added layer of traceability to your label printing and print management process.

Plus! With LABEL ARCHIVE, you can manage and control your labels and set approval rules to ensure that no label gets printed unchecked.

>> **CODESOFT** — the label design application that gives you the ability to easily design a label, connect it to a database, or add complex barcodes using its intuitive interface.

# How does SENTINEL work?

When processing print requests, SENTINEL works in the following way:
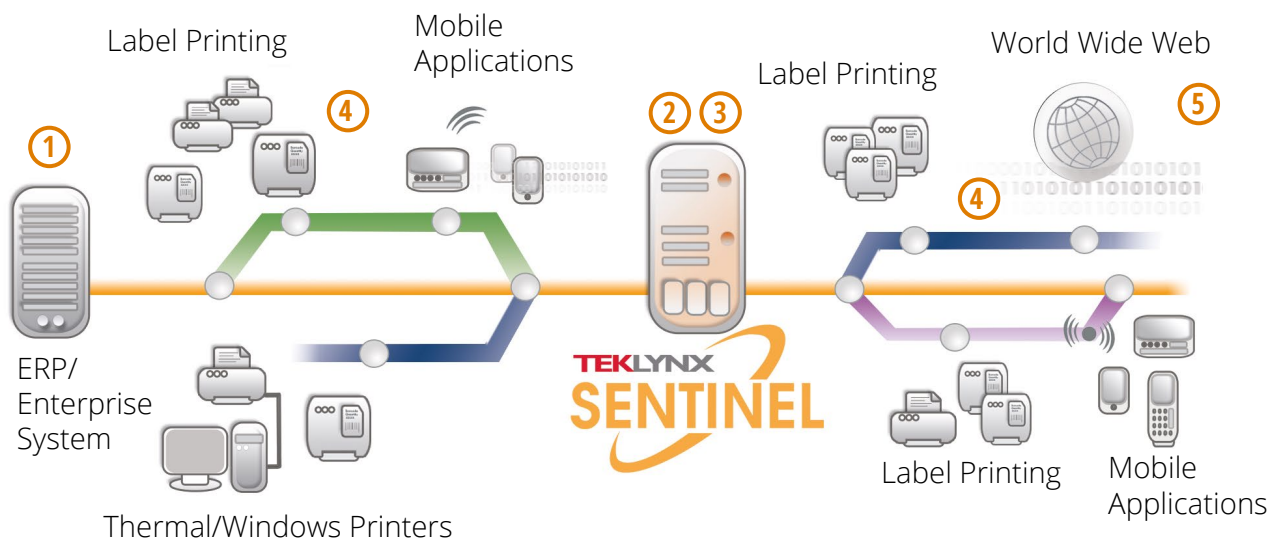
## 1. A print request is created by ERP application software
The print request serves two purposes:
- it includes the variable information for barcode labels
- it initiates the request to SENTINEL

## 2. SENTINEL "watches" for the print request
SENTINEL receives data sent from the host via the print request.



## 3. SENTINEL processes the data from the print request
SENTINEL maps the data to a label design based on a predefined configuration.

## 4. SENTINEL prints the label

## 5. SENTINEL reports the outcome of the job
Using the CODESOFT print engine, labels can be printed to over 3000 thermal and Windows printers locally, remotely or on a network.

# SENTINEL means Security and Reliability

SENTINEL has been available since 1997 and is used by tens of thousands of clients in 170 countries.

## References

Arkema
Baxter
Bayer AG
Bébé 9
Becton Dickinson
BioMérieux
BMW
Boiron
Bosch
Brioches Pasquier
Campofrío
Cargologic AG
Chanel
Chrysler
Daimler
Delphi
Friesland Campina
General Motors
Hennesy Cognac
Jardiland
L'Oréal
Legrand
Louis Vuitton

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Schneider Electric
Siemens
Swarovski
TAG Heuer
Tetrapack
Toyota
UPS
UPSA
Valéo
Vandemoortele
Yves Saint Laurent
3M
...

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