



**Adopting modern best practice label management,
barcode & RFID printing solutions**



Modern best practice label management, barcode & RFID printing solutions

Learn why and how businesses with product identification and supply chain applications are modernising labelling solutions?

Labelling software fails IT Security & Quality Management Systems

Everyday more and more IT & Quality Managers are realising that their labelling systems are failing to meet best practice IT & Quality Management Systems (QMS) processes and procedures. Labelling systems are business critical and key to product identification and supply chain applications, but far too often;



- Labelling software is uncontrolled and can be used by anyone in the business without user rights or permissions (uncontrolled access to financial, production or logistics systems would not be allowed)
- Labels are designed and approved by the same person (this should not pass ISO9001 quality procedures?)
- Paper-based approval systems are often misused, ignored, not filed correctly and offer no effective archiving
- Label printing is uncontrolled from within the design program
- Labels can be edited prior to printing (by accident or maliciously)
- There is no system history for audits, inspections, reprints or process improvement reviews

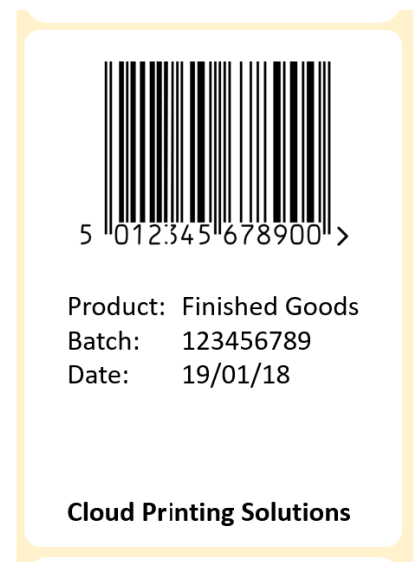
In the past you had to invest heavily into developing your IT systems if you wanted to avoid these pitfalls. Legacy approaches to labelling are too costly and lack the agility required by today's economy. By digitally transforming labelling, you reduce IT costs and improve quality of labelling. Watch this [2-minute video](#) on how to digitally transform labelling.

Label printers fail barcode applications and Quality Management Systems

For many years Production, Supply Chain, IT & Quality managers have been frustrated with printing technology used to print barcode labels for product identification and supply chain solutions. The legacy technology is not able to confirm if the printed barcode was readable or contained correct data, meaning they are also not able to identify when barcodes were unreadable or contained incorrect data until it was either reported by eagle eyed staff, or worse, their customers.

Barcodes are the main printed object used by all data capture, supply chain and trace-ability solutions. Even just a few or small percentage of your labels with unreadable barcodes or incorrect data can result in;

- Lost or delayed products
- Manual data entry reworks
- Higher labour costs
- Higher material waste/costs
- Reduced KPI's
- Customer or compliance fines
- Lost customers



Deploying best practice label printing solutions is not just a demand for compliance driven sectors such as Retail, Pharmaceutical or Medical Device Manufacturers. Best practice barcode label printing solutions is for any company that wants to get the benefits of system accuracy and business efficiencies that barcodes bring or who manage quality systems such as ISO9001. Watch this [short video](#) and learn how next generation label printing technology exists to remove the burden and costs deploying and maintaining 3rd party systems to inspect labels or re-work stations to reprint labels (*if detected prior to shipping*).



Modern best practice label management, barcode & RFID printing solutions

What is a best practice label management?

Digitally transform labelling across your business and supply chain.

The NiceLabel Label Management System (LMS) is a next-generation all-inclusive label management system for businesses that operate a quality management system and for regulated enterprises. The NiceLabel LMS includes everything you need to standardise, centralise and control your labelling. The true cost of labelling is not just the cost of the software, printers and consumables. The true cost of labelling must also include all hidden cost areas of the business (especially manufacturing to supply applications) that are affected by the consequences of labelling when it goes wrong. LMS provides all the tools you need to ensure you reduce or removes these hidden costs.



LMS Benefits

Reduce IT costs

- Integrate with your business systems with pre-built connectors
- Empower your business users to design and approve labels
- Minimise reliance on IT for deployment, changes and support

Reduce QC costs

- Digitally transform your quality assurance process with the document management system
- Reduce the amount of time your quality control people spend on paper-based processes
- Eliminate the cost of error from legacy approaches

Faster time to market

- Make label change requests faster and improve your customer responsiveness
- Eliminate error and unplanned downtime and ship products faster



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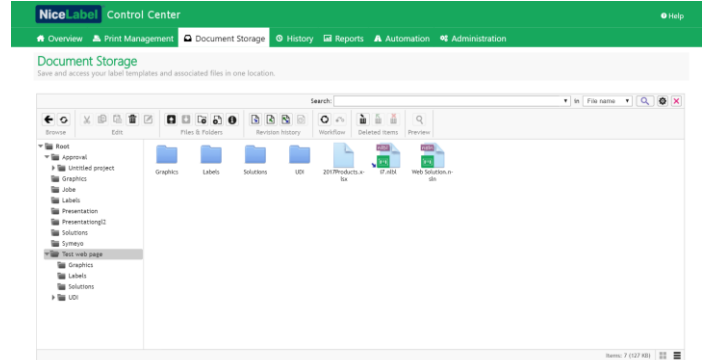
LMS Modules & Benefits

Document management system

Controls security, changes, history, devices, etc

Benefits

Improves QA process and reduces labour costs

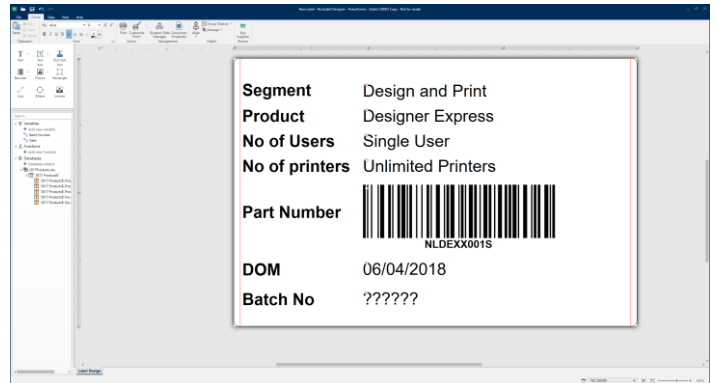


Label Designer

Easy to design with a familiar MS Word Interface

Benefits

Reduces IT costs and increase agility



Printing forms

The label design program automatically generates a printing form for each label including;

Label (job) preview

- Inspect one or many labels prior to starting the print job

Database table

- Database view
- Database search
- Select one or multiple products
- Select label quantity for each product selected

Manual data entry fields

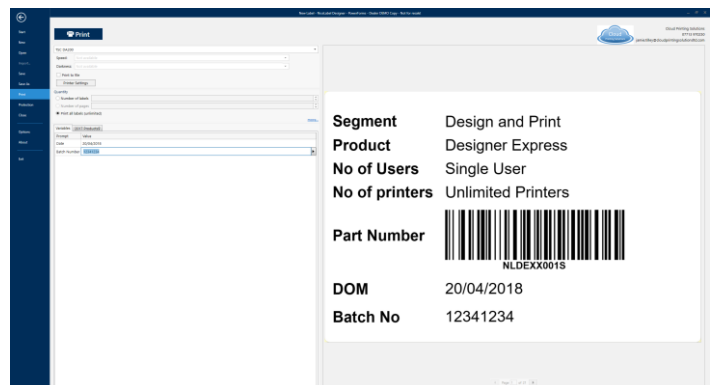
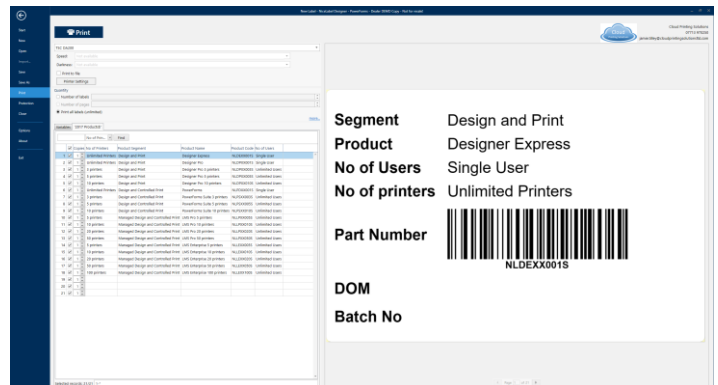
- One or multiple manual data entry fields

Printer

- Select printer
- Printer settings

Benefits

Improves print operator accuracy, efficiency and productivity





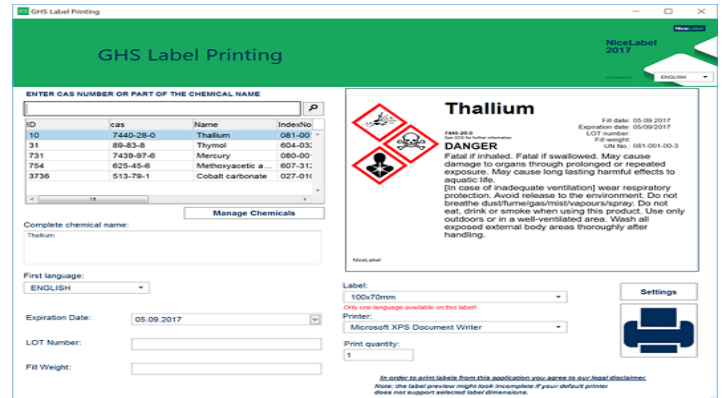
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Application builder

Rapidly build customised “on-demand” printing and data management applications without coding.

Benefits

Improves productivity and accuracy for manual printing and data management solutions.

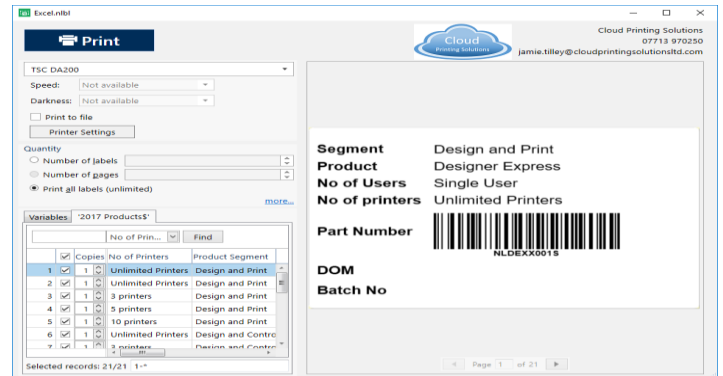


Web printing system

Deploy automatically generated printing forms or custom on-demand applications across the business or partners.

Benefits

Increase consistency, scalability and operational efficiency for on-demand applications. No longer requires design program installed on print operator workstations.

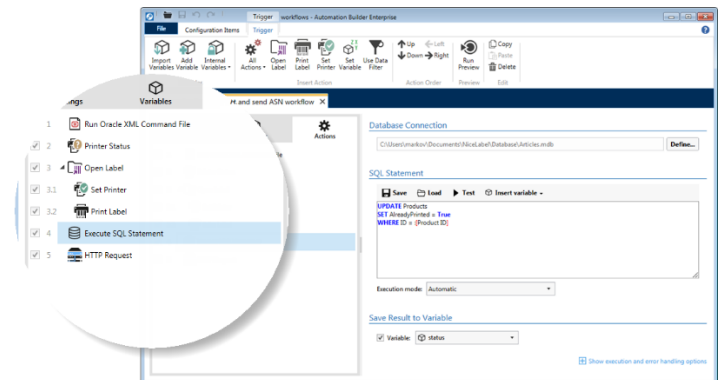


Integration system

Print from your existing business systems

Benefits

Configure printing from master data without coding. Improves end-to-end operational efficiency.

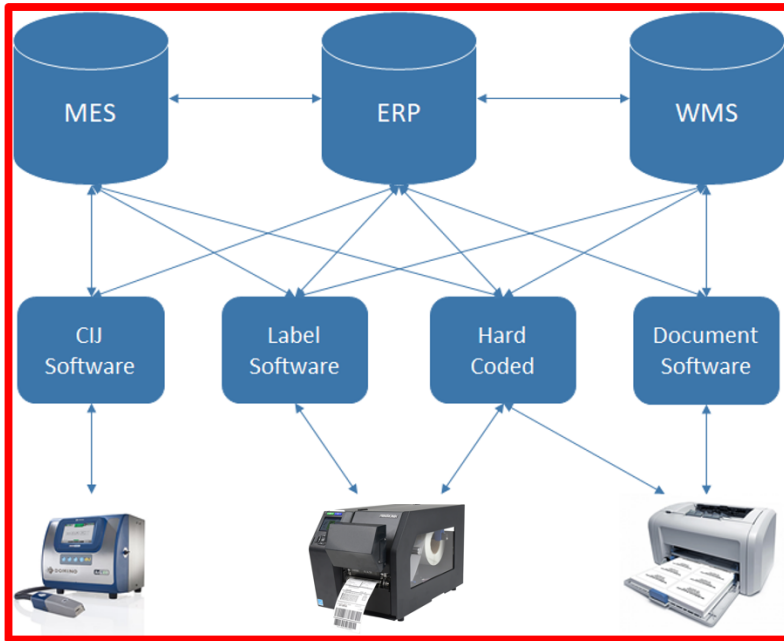


Designer, Application Builder, Integration System
Download 30 day trial

Document Management System & Web Printing System
Request Demo

Not just for labels and label printers?

Multiple fragmented printing solutions create complexity and high costs

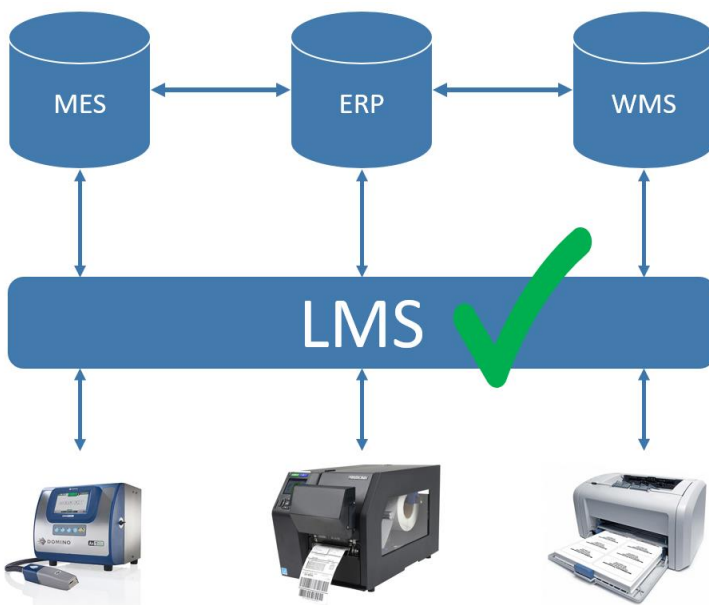


Often business users support multiple printing devices in manufacturing and supply chain solutions.

Each device can require its own software solution or bespoke programming, making the overall system complex, requiring specialist programming or development knowledge, with considerable ongoing maintenance and support costs.

Fragmented, complex, high cost

LMS helps standardise direct marking, label and document printing across your business



NiceLabel LMS helps standardise manufacturing and supply chain solutions with consistent design and integration for multiple devices and printing solutions.

Creating a template with variable text and barcode data fields for an A4 document is no different than creating a label 4 x 4" label template with variable text and barcode data fields.

- Direct Marking
- Roll feed Labels
- Fan fold labels
- Cut sheet labels
- A4 documents (delivery notes, pick lists, invoices etc)

Standardised, simplified, lower cost



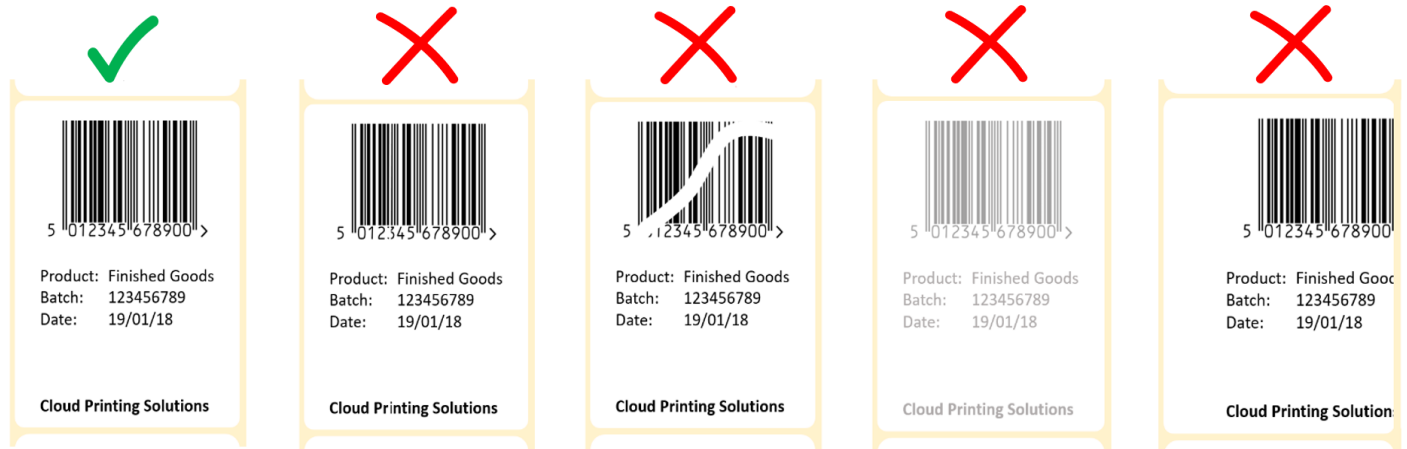
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What is best practice barcode label printing?

Product identification and supply chain accuracy and efficiency is dependent on readable barcodes.

What happens to your supply chain when your printers print unreadable barcodes?

How you know when the printhead needs replacing?



The printer you use for barcode label applications should include a method of scanning and inspecting the barcode at time of print to ensure the barcode is readable (by hand held and fixed position readers) and contains the correct data.

The inspection process needs to validate both barcode and data accuracy, and if incorrect, retract the label, overprint it and then reprint the label without user intervention.

Online Data Validation (ODV™)

Online Data Validation (ODV™) eliminates compliance fees with automatic, 100 % barcode validation. ODV ensures that all barcodes meet the most stringent scanning standards, reducing unnecessary compliance costs. ODV provides the same information required by ISO verification standards. Barcodes are graded to ISO standards including quiet zone & check sum errors.



With ODV technology, you can:

- Eliminate chargebacks due to refused or delayed shipments
- Deliver 100% scannable barcodes to your production area every time, automatically
- Eliminate unreadable barcodes from entering into your supply chain distribution system
- Reduce labour costs and downtime with an unattended solution
- Capture and display the raw data within each barcode, to provide further assurance that critical data, such as serialized barcodes, print correctly



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ODV printers

Printronix T6000 & ODV



Prints & Validates 1D “picket fence” Barcodes including partial label overprint and label reprint, **also supports and combines UHF RFID label validation**

[Watch T6000 Video](#)

Printronix T8000 & ODV



Prints & Validates 1D “picket fence” Barcodes including full label overprint & label reprint

Printronix T8000 & ODV 2D



Prints & Validates up to 50 1D & 2D Barcodes in any orientation including full label overprint & label reprint

[Watch T8000 Video](#)

How ODV tests the barcodes

ODV takes the following steps to test each barcode image:

- ODV analyses the incoming data stream and finds every barcode command on each label.
- The label is printed, and each barcode image is scanned and tested to its symbology specifications.
- ODV correlates every barcode test result with the incoming data stream’s barcode commands.
- If all the barcodes meet specifications, the label is good and ready for use. If the label does not meet specifications, ODV uses its data stream analysis to overstrike the “bad” label and print a “good” replacement label.
- ODV action is automatic and takes place without any host program modification.

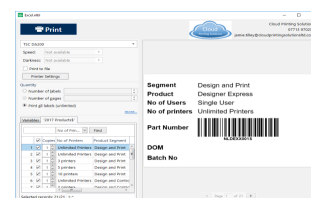
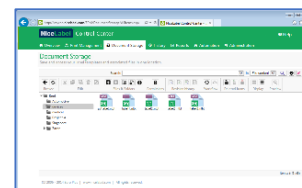
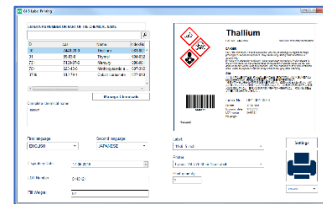
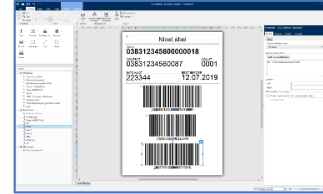
In summary, Printronix’ Auto ID Online Data Validation is a tool that can save you time, money and stalled productivity. It evaluates every barcode label to provide total scanning assurance and eliminates the need for costly human intervention in the barcode validation process.



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Best practice labelling procedures

1. Design template in the NiceLabel designer program
2. Use the standard printing form, design your own printing form, or integrate printing with host systems (print operators should not print from the design program)
3. Print & Validate sample test labels prior to production printing (Printronix ODV printer)
4. Approve printed test labels or return to template designer for required changes
5. Approve and manage templates & printing Solutions (NiceLabel DMS)
6. Deploy printing solutions (NiceLabel Web client for on-demand printing or Automation on Server)
7. Print and inspect EVERY Label (Printronix ODV Printer)
 - If barcodes are good go onto the next label
 - If barcodes are not correct, retract bad label and overprint it, then automatically retry/reprint labels
8. Records all print history in NiceLabel LMS for;
 - Label reprints
 - Audits/inspections
 - Reports
9. Apply labels to items, case, carton, pallet etc





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Labels



Quality labels are essential in all barcode labelling applications

Label quality is key to both direct and thermal transfer applications.

Do your labels ensure reliable, high-quality printing?

Any potential benefits of low cost/low grade labels are soon lost when poor print quality results in consequential losses from unreadable barcodes or accelerated wear and tear of the printhead.

Ribbons



Few printer vendors manufacture their own thermal printer ribbons.

Changing ribbons supplied by the printer manufacturer to an original ribbon manufacturer provide cost savings whilst maintaining the highest print quality without compromising print speed.

Call and request a free label and ribbon audit and review your current media requirements in line with customer print quality or quality system compliance.

Why choose Cloud Printing Solutions

We help companies modernise legacy labelling solutions with intelligent next generation label management systems and label printers providing optimum print quality to maximise accuracy, efficiency and productivity in product identification and supply chain solutions.