

Labeling made easy



**next Generation
Label Printing
System**



RSJ Software GmbH

www.rsj.de



Next Generation Label Printing System

With the help of the „RSJ Next Generation Label Printing System“ labels can be produced on most bitmap capable printers.

„Labeling made easy“ means that even challenging feats of label printing can be easily achieved and maintained. Whether they include linear or 2D barcodes - all commonly used varieties can be easily printed.

Our advanced graphic design features (such as the dynamic font size adjustment or various field alignment options) and the integrated support for True Type Fonts and Unicode, make this system ready for worldwide deployment.

Dynamic data can be simply entered into the web browser or provided through an API. With the integrated Python scripting functionality even demanding field formatting can be incorporated. We would gladly integrate the Next Generation Label Printing System into your automation project. For doing so we already support CSV, Excel, JSON and XML as data formats.

Our automatic data structure analysis allows the use of variable data fields without programming. We support autocompletion of the data through external sources (such as Excel tables).



An additional API allows for connection to vision systems for quality control.

Our integrated job management allow efficient processing of batchjobs.

Several printers can be linked to a single server.

The user authentication is accomplished through either an internal database, with a Windows account or via an external OpenID Connect server.

When the software is installed as a service it can be used independently from the currently logged in user.

Facts & Figures

Primary Function	Create and Print Labels
	LPSNG can be used to generate thousands of labels in a single batch, or to create labels in packaging lines on request
User Interface Job Mangement	HTML5 Web Browser, No reload needed
User Interface Production:	HTML5 Web Browser, No reload needed, Multiple browser can control a single machine, One browser can control multiple machines, Vision Integration
User Interface Label Designer:	HTML5 Web Browser, Templates, PDF Preview, Positioning Aids, Export/Import of Label Packages
Output:	PDF, Interface to external Rasterizer (support for Windows drivers)
Printer Support	We can easily integrate any printer which does support printing bitmaps
Barcodes:	EAN (8, 13, 128), UPC (8, 12), Code 39, Code 93, Codabar, Code-128, QR, ITF, GS1 Databar, Datamatrix 2D (single region), MSI, Code 11, PostNET, USPS_4State
Dataformats :	XML, CSV, JSON, Excel (xls, xlsx)
	Example based data structure analyzer
Supported Bitmap Formats:	JPEG, PNG, SVG, GIF, PCX, BMP
Fonts:	True Type Fonts, Fonts can be installed via Web Interface
Field Types:	Text field, Number field, Date field, Price field, Multiiline text field, Barcode field, Bitmaps, Boxes, Lines, Markup Fields
Input Validation	Minimum, Maximum
Field Script	Optional Python Script for field formatting
Label Script	Optional Python Script for label logic
File Lookup:	Lookup of data via primary key
Field Mapping	Field Value -> Label Format
	Field Value -> Bitmap
	Field Value -> Field Value
Formatting	Dynamic Font Size (with min and max), Direction (0, 90, 180 or 270 degrees), Horizontal Alignment (left, center, right), Vertical Alignment (top, center, bottom), Color, Font Selection, Container Fields, reuse label space of empty fields,
Human Readable Label Description	JSON
Unicode Support	Bidirectional, RTL, Arabic
Interfaces:	Web Service Interface
	External Application Integration Interface, Industrial Data Provisioning Interface, Vision Interface, Google Cloud Print, OAuth2
	Project Specific Interfaces
	Vision: Skysoft Imaging, Line: Uhlmann Cartoner, Printers: Logopack, Intermec, Laserjet, Others on request
User Management	OpenID Connect (for cloud usage), Integrated User Management (optionally with Windows SignOn)
Platforms:	Windows, Google AppEngine, Linux
Deployment:	Public Cloud, Windows Installer, Linux RPM
System Integration	Windows Service (with integrated Web server)
	Linux Daemon (with integrated Web Server)
Languages:	English, German, Others on request
Modular Configuration Files	Hierarchical Configuration
Programming Language:	Python and JavaScript
Database:	Integrated SQLITE3, Other databases on request
Database Mirroring:	Mirror Service for backup
Technologies used:	Websockets, SSL (optional)
Deployment Options:	Cloud, Inhouse
Licensing Model	Cloud, Project Based
Support	Remote Support, Maintenance Contract
Services	Conversion of existing labels, Semi automatic tools



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