



“Are you ready for track and trace implementation in your Pharmaceutical Production Line?”

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INDONESIA PHARMACEUTICAL
TTAC TRACK AND TRACE
Collaboration between



The solution that
made Indonesia Pharma TTAC
simple and easy

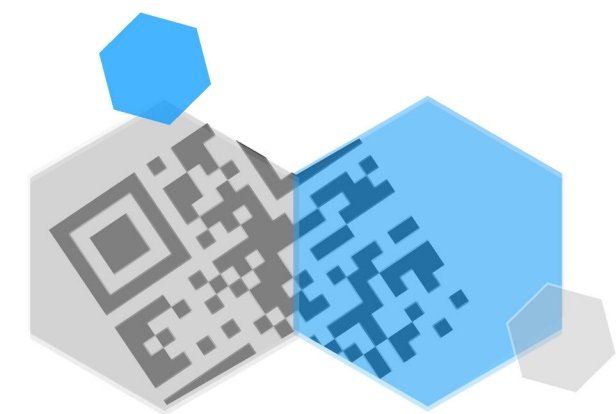
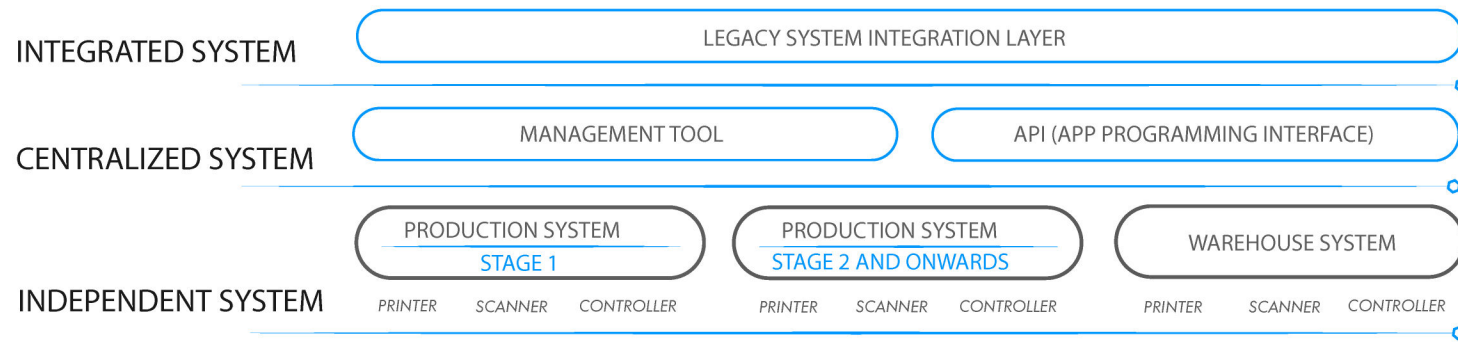
ABOUT US

With the new regulation NO 33, Year 2018, about implementation of Track-and-Trace 2D Barcode in pharmaceutical production line, BPOM is trying to protect the end-consumer from any fraudulent actions or illegal products. This entirely change the whole industrial printing and packaging for pharmaceutical industry. We respond to the challenge by designing a solution that is complete, integrated, comprehensive, and make it easy and economical for pharmaceutical companies to implement the new printing regulations.



is designed with multiple architecture (independent, centralized, and integrated architecture) along with multi stages following or replicating the stages in actual production / packaging line. This makes the software modular, and simple to adapt to different requirements of user and at the same time lowering the initial investment cost. Expand and grow as required, instead of investing in one stack of solution with so many wasted footprints that are not used, or unusable.

SOFTWARE ARCHITECTURE



The solution comes with printer, computer vision, controller, and software in one-package in a ready-to-use state. It can be integrated with your existing production /packaging line with ease, without the burden of re-investing or re-doing your entire production line.

TECHNICAL PARAMETER



GENERAL SPECIFICATION

Power Supply	220 VAC, 50/60Hz, Power supply provided for 12-24VDC.
Operating Environment	10-40°C, 10-90% humidity (non-condensing).
Production Speed	Up to 150 pcs/minute.
Line Speed	30 – 50 meter/minute.
Printing Position	Top or side printing only.
Recommended Application	Production / packaging line with smooth movement to ensure great printing quality. Standard mounting for printer, camera, and rejection components (can be customized to suit the production / packaging line).
Brackets & mountings	



PRINTING

Printing technology	CIJ, TIJ, Piezo High-Res, Laser (TIJ Recommended).
Printing size	12 mm or more (depends on printer technology used).
Print distance	TIJ : 0.5 – 2 mm. CIJ : 20 mm. Piezo high-res : 0.5 – 5 mm. Laser : 180±5 mm.
Ink Supply:	TIJ : Cartridge 42 ml (water / solvent). CIJ : Cartridge or bottle (solvent). Piezo high-res : Cartridge (water / oil). Laser : None.



REJECTION

Rejection signal	Via I/O Controller and can be controlled by software.
Rejection Mechanism	Air pressure blow.
Rejection control	Pneumatic valve with control signal via I/O controller (optional).



CONTROLLER

Computer	Industrial PC, with Windows Operating System 64 bit, with keyboard and mouse input.
Computer Display	18.5" LCD.
I/O Controller	ATMega based controller, with 5GPI and 5GPO, 12-24VDC, with Ethernet Connection.
LED Controller	LCD with keypad.
I/O Display	4 channels connection with Ethernet Connection (Optional).



SOFTWARE

Platform	.NET solution for Windows 64bit architecture.
Control	Printer, camera, LED, and I/O control in one software.

Features

Independent, centralized, or integrated software architecture for better options to suit your production requirement.

Modular design can be expanded to multi stages or multi-production line.

Licensed based software, with one license per software, per production line.

Multi Stage Design

- Stage 1: Primary packaging printing and inspection.
- Stage 2: Secondary packaging printing and aggregation.
- Stage 3: Warehouse in-out reporting.

Access control applied for security and control over software access, and functions (depending on the software architecture, access control can be very detailed or simplified).

Save and load job, allowing user to continue to the previous work with ease reducing the initial setup of using the system.

Reporting and audit trail with 3 levels:

- Production or output yield reporting.
- Admin level operational and usage reporting.
- Audit trail / log for complete system reporting (only for service level).

Generation of CSV ready to be uploaded to BPOM TTAC website manually, or directly submitted via BPOM TTAC API (depending on the software architecture).

Database based printing, and inspection (depends on the solution architecture used, the database architecture may differ).