

**SATO**  
Powered On Site /



Intelligence  
inside the printer.



**SATO  
AEP**  
Application  
Enabled Printing

# Web AEP Solution

Providing a unique solution to your customer

[satoeurope.com](http://satoeurope.com)

# Why AEP?

AEP is a powerful on-board intelligence which enables customization of printer operations to significantly simplify labelling processes and reduce business costs.

## Key Values

- Built on open source technology
- Full flexible modern programming
- Connects to many peripheral devices
- Future ready for AUTO ID technology



## AEP with Web AEP

The AEP concept provides 2 solutions building on the programming skills of the application developer

### AEP

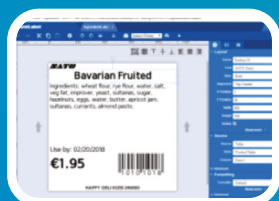
For application developers who usually use labelling software for creating printing application for PC.



Application can be developed without programming but advanced features can be added with Lua scripting.



Application development is done with a PC software called AEP Works 3.



### Web AEP

The GUI is developed as a Single Page web Application (SPA) with JavaScript, HTML5 and CSS.



The GUI development is done with the preferred JavaScript frontend framework like Vue.js, Angular, JQuery or React. The label lay-out is created in AEP Works 3 and the web application and lay-outs are linked to each other through the Web AEP API.

REACT JS



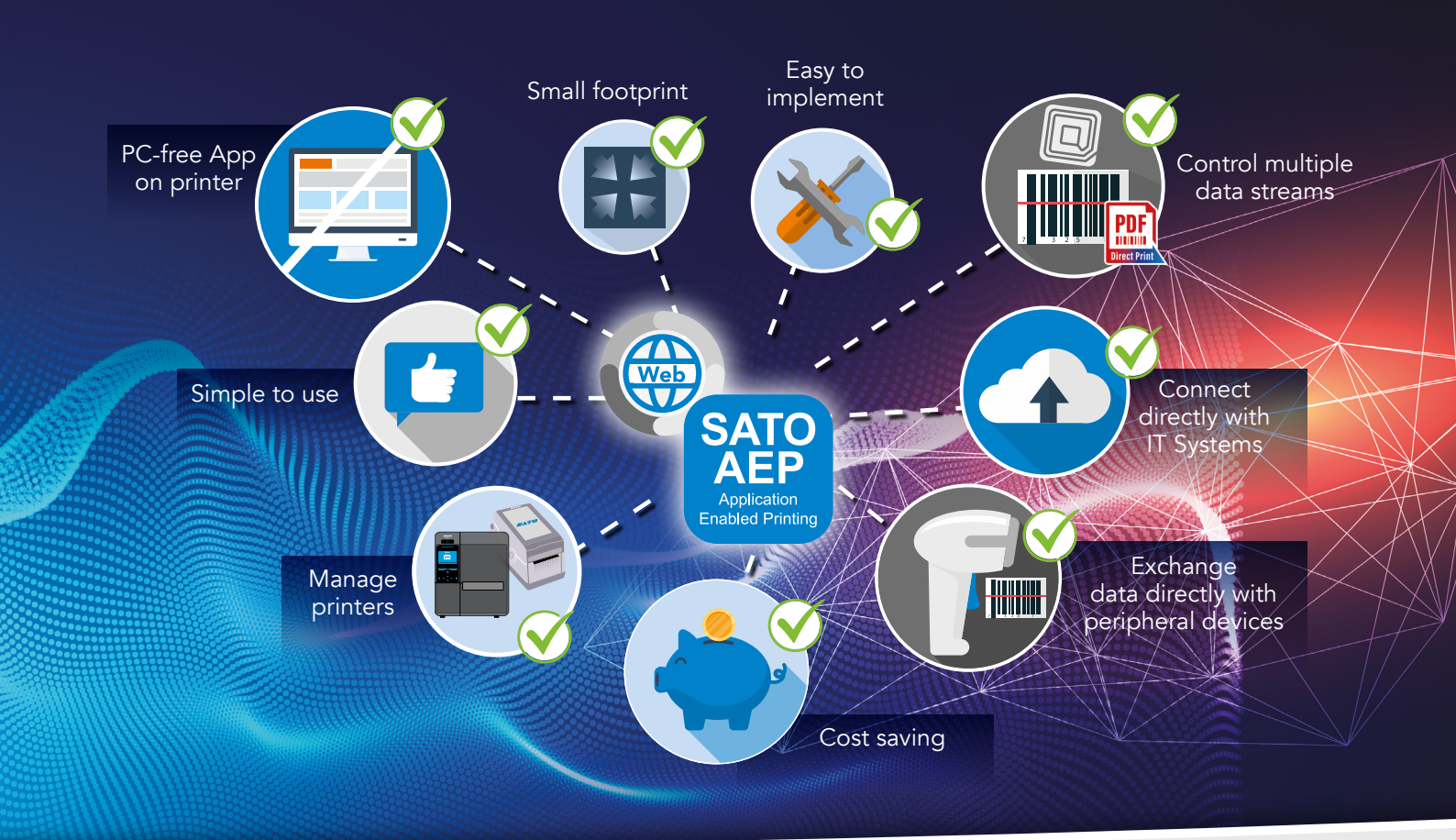
ANGULAR





VUE JS







## Web AEP supported All-in-One printers

	FX3-LX	CT4-LX
		
<b>Print method</b>	Direct Thermal	Direct Thermal / Thermal Transfer
<b>Size (W x D x H)</b>	132mm x 225mm x 161mm	178mm x 238mm x 214mm
<b>Resolution</b>	305dpi	203 / 305 dpi
<b>Print speed</b>	6 ips	203 dpi: 8 ips, 305 dpi: 6 ips
<b>Media width</b>	85 mm	115 mm
<b>Display panel</b>	7" TFT Full Color touch screen LCD (480 x 800)	4.3 TFT Full Color touch screen LCD (480 x 272)
<b>Interfaces</b>	USB-A x 3, USB-B, LAN, NFC, Bluetooth (option), WLAN (option)	USB-A x 2, USB-B, LAN, RS232-C (option), NFC, Bluetooth (option), WLAN (option)
<b>Specifications</b>	No	Optional HF and UHF RFID
<b>Adapted to user environment</b>	Can be operated with gloves Space saving design Optional battery for portability Anti-bacterial casing Splash proof IPx2 & IK06 compliant	Can be operated with gloves Space saving design

For more details, please refer to the respective printer's catalogs.

## Why FX3-LX and CT4-LX with Web AEP?

### Application

- Develop web apps with common web technologies (JavaScript, HTML5 and CSS)
- Convert existing web apps and assets to run on FX3-LX and CT4-LX
- Run your existing cloud apps on FX3-LX and CT4-LX with a minimum of modifications
- Easy deployment and create label formats with AEP Works 3
- Minimal training requirements

### Printer

- **Space saving and avoid connectivity issues:** FX3-LX and CT4-LX are both multifunctional all-in-one devices
- **Durability:** our printers are developed and tested for business operation in the food, retail, logistics and other markets
- **Connectivity:** Connect various peripheral devices like scanners, keyboards and scales directly to the printer via USB or Bluetooth
- **Adapted to user environment**
- **Simple operation:** intuitive GUI, onboard guidance videos, functional design

FX3-LX

CT4-LX



## Supported models

### Case Study 1

#### Local web application

Web AEP allows creating the screens with JavaScript, HTML5 and CSS which are popular to ISVs

#### The partner's benefits

- Provide a unique solution to your customer with the multi-functional all-in-one device
- Develop applications with common web technologies (JavaScript, HTML5 and CSS)
- Convert your existing web apps and assets to run on FX3-LX and CT4-LX
- Web applications allow more flexible and creative screen designs than screens created with AEP Works 3



## Short learning curve



# Case Study 2

## Cloud applications

Web AEP allows running an app from the cloud on the printer

### The partner's benefits

- Provide a unique solution to your customer with the multi-functional all-in-one device
- The application business logic is running on reliable/powerful server hardware and software – important for business critical applications with multiple printers
- Business logic enhancements/bug fixes will require a single deploy of the server application (no need to upgrade each printer)
- Easy to connect to all types of databases, third party API, etc. and easy integration with existing web solutions
- Faster development for your complex solutions in JavaScript/HTML5/CSS, ASP.NET, PHP, C#/Blazor, etc
- Connect to your existing cloud application with a minimum of modifications



	AEP	Web AEP local app	Web AEP cloud app
Label design	AEP Works 3	AEP Works 3	AEP Works 3
Screen (GUI) design	AEP Works 3	JavaScript, HTML5, CSS	JavaScript, HTML5, CSS, ASP.NET, PHP, C#/Blazor, etc
Table management	AEP Works 3	AEP Works 3, Web app	Web app
Access external database via LAN or WLAN	✓	✓	✓
Application running on	Printer	Printer	Cloud or server
Running internal web app on the printer	✗	✓	✗
Access and run remote web app on the printer	✗	✗	✓
Internet connection required	No	No	Yes
Peripheral device connection (scanner, keyboard, scale etc)	✓	✓	✓
Supported printers	FX3-LX CT4-LX PW208NX CL4NX Plus CL6NX Plus	FX3-LX CT4-LX	FX3-LX CT4-LX



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