About Princity

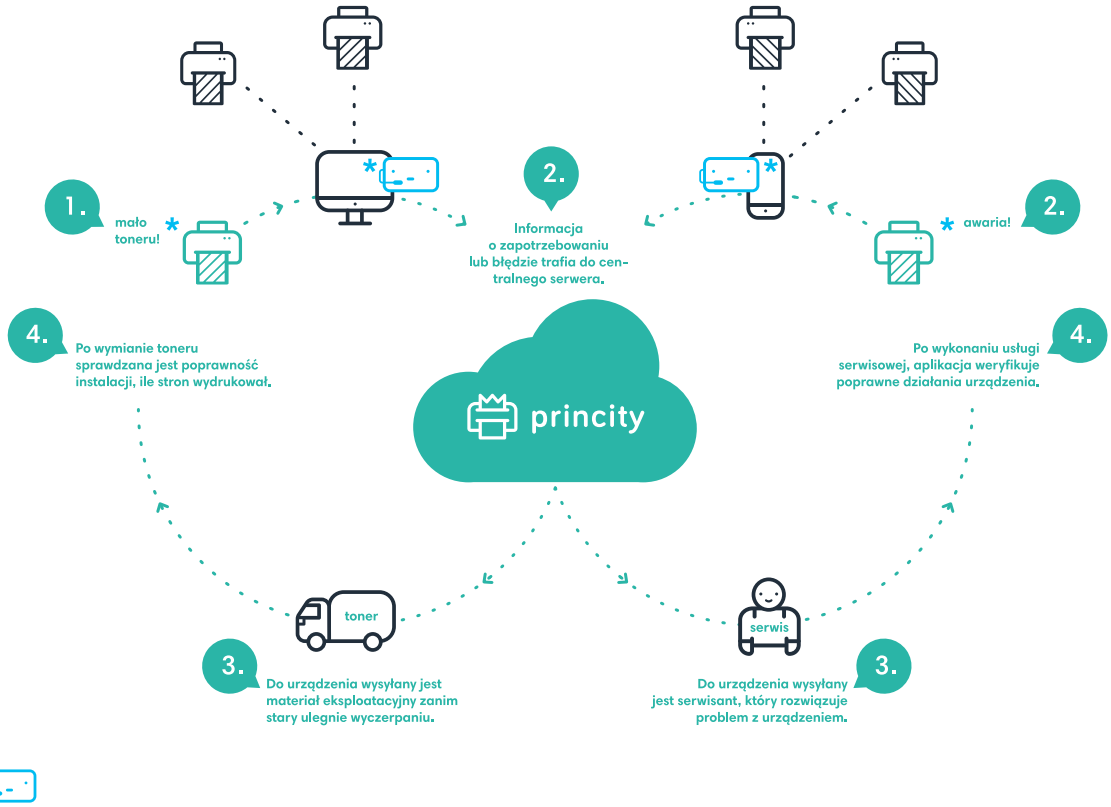
Princity is a solution in the SaaS model which helps in managing printers, consumables, and malfunctions.

The main functionalities of Princity::

• allows to trace the complete process of handling supplies from the moment of shipping to be exchanged, providing precise data concerning printed pages and usage graphs,
• automates accounting the number of printed pages and printing costs,
• detects automatic malfunctions and recognizes their type,
• determines whether in order to repair the broken device it is necessary to call for specialist service, the module for accounting the service allows to estimate the time and costs of fixing the problem.

Princity architecture

Princity Cloud - App server hosted by the Microsoft Azure service.
Princity Monitor - Thin client installed in the client's network. The client is installed on one of the network's computers. The app aims at searching for printing devices and verifying their condition in a cyclical manner.
Interfejs www - A console for managing devices available via the search engine under the address `https://<partner_name>.princity.cloud`



The type of data collected from printers

Princity from printers gets the following data:

- The IP address (or hostname) of the device,
- Manufacturer and model of the device,
- The serial number of the device,
- MAC address of the device,
- Device status,
- Device counters,
- Information about errors occurring on the device,
- Toner and drum levels,
- Levels of maintenance kits,
- Levels of other supplies,
- Serial numbers of toners and drums.

Important: Princity does not download from the devices any information concerning the printed documents. What is downloaded are only the total numbers from the counters, without information concerning the title and content of the document, or the person ordering the printing.

Ports used in the internal network

The device polling schedule is configured by the end client via the app's www interface. During an inspection of devices the Princity client app takes advantage of the following protocols:

- SNMP (v1,v2,v3 port 161),
- NPAP (port 9300),
- HTTP (port 80).

The method of reading a given printer's model is implemented in the strategy selected individually for each printer model.

From the server the Agent receives information concerning the address of the device and a list of parameters which have to be read from a given address. The downloaded data is transferred to the server where it is

interpreted and processed.

The characteristic of connection between Princity Monitor and Princity Cloud

When installing the Agent, its ID key is entered (generated by the server). During the installation the Agent connects to the server and a unique identifier is generated for it. During following launches of the Agent it sends the received identifier to a server which verifies data and accepts (or rejects) the connection.

The Agent-Server transmission takes place with the use of an https protocol.

About the company

For 6 years now we professionally handle printing systems in large financial institutions and retail chains. Together with our partners we've created many solutions optimizing the use of printing equipment and costs.

Within the last year of Princity 1500 clients from all over the world took advantage of our services. In order to ensure the highest safety, Princity achieved the ISO 27001 certificate in terms of safely processing information. Additionally, taking advantage of Princity is accordant with the latest GDPR.