Implementation and launch of cash registers as a functional extension of Microsoft Dynamics 365

A. Subject of the offer

The subject of this offer is the delivery and launch of a proprietary Retcon solution cooperating with the Dynamics 365 System for handling fiscal printers. This solution consists of two components:

- Receipt handling module as a functional extension of D365
- Fiscal service supporting printouts and fiscal processes

and enables retail printing of fiscal documents on fiscal devices (fiscal printers).

B. Description of the standard solution

In Dynamics 365 Finance and Operations (D365) without the Commerce module, it is not possible to work with fiscal printers. The presented solution enables printing of fiscal documents on fiscal devices implementing the POSNET protocol for retail sales orders.

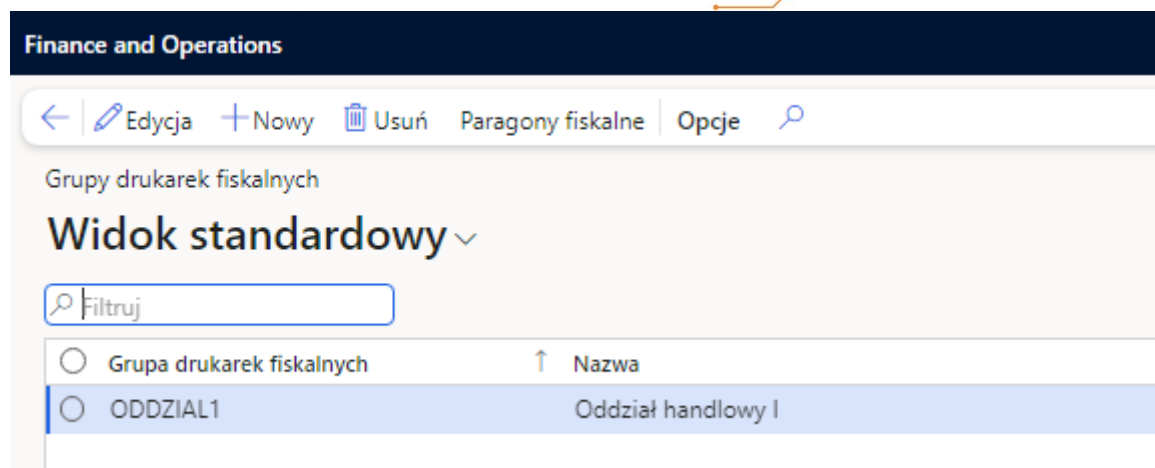The solution consists of two main components:

• **Receipt handling module** as a functional extension of D365

• **Fiscal service** supporting **printouts** and fiscal processes
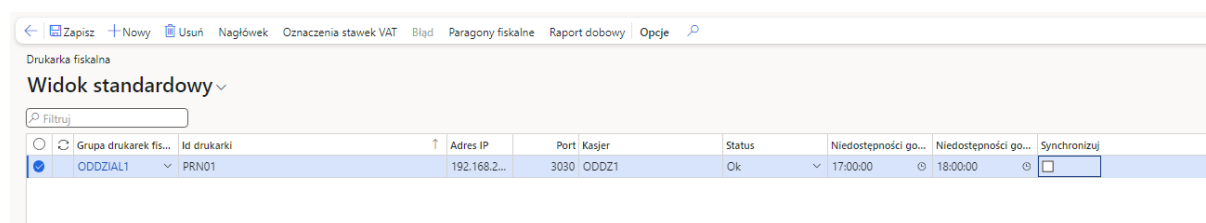
Receipt Handling Module

It is a connection between standard sales orders and the Fiscal Service. The posted retail sales order goes to the receipt management module, which is responsible for its correct fiscalization. The current fiscalization status of the sales order is visible online. After fiscalization is completed, the posted sales order receives a receipt number from the fiscal printer, which is visible in the D365 system. The receipt management module for each defined fiscal printer stores all printed daily sales reports for recording and analysis. The offered solution works in Cloud and On Premise versions.

As part of its functionality, the receipt handling module includes:
• Definition of the pool of fiscal printers for each retail outlet
• Definition of fiscal printers and their parameters, such as header, footer definition, VAT rate mapping
• Communication with the Fiscal Service
• List of all receipts with the current fiscalization status
• List of printed daily reports
• Current status of each of the installed fiscal services
• System entities enabling quick import of retail orders, updating the printer pool definition, defining fiscal printers, reading receipts with lines, reading the status of fiscal services

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Rys. 1 Printer group definition

Rys. 2 Printers for group

Dyn365 Receipt Print Server fiscal service

The fiscal service combines the receipt handling module with fiscal printers. It is an external application created in .NET 6.0 working in two modes. Console application mode or system service mode. As part of the offered solution, it is possible to install multiple instances of fiscal services (horizontal extension) to cooperate with one receipt handling module. The fiscal service works with printers implementing the POSNET protocol and connected using a serial/USB port or a TCP/IP network connection. The offered functionality enables:

• Communication with the D365 system online
• Programming the receipt header and footer
• Definition and update of VAT rates in the fiscal printer
• Printing a receipt/VAT invoice on the first free printer defined in the pool of fiscal printers
• Automatic printing of daily sales reports
• Non-fiscal printouts, such as vouchers/GSM top-ups
• Handling returnable packaging
• Automatic notification mechanism in case of printer unavailability (out of paper, device open, etc.)
• Records of the history of operations performed in your own local database

Rys. 3 VAT rates for the printer

Rys. 4 Receipt header definition

Architecture of solution

Receipt printer server architecture
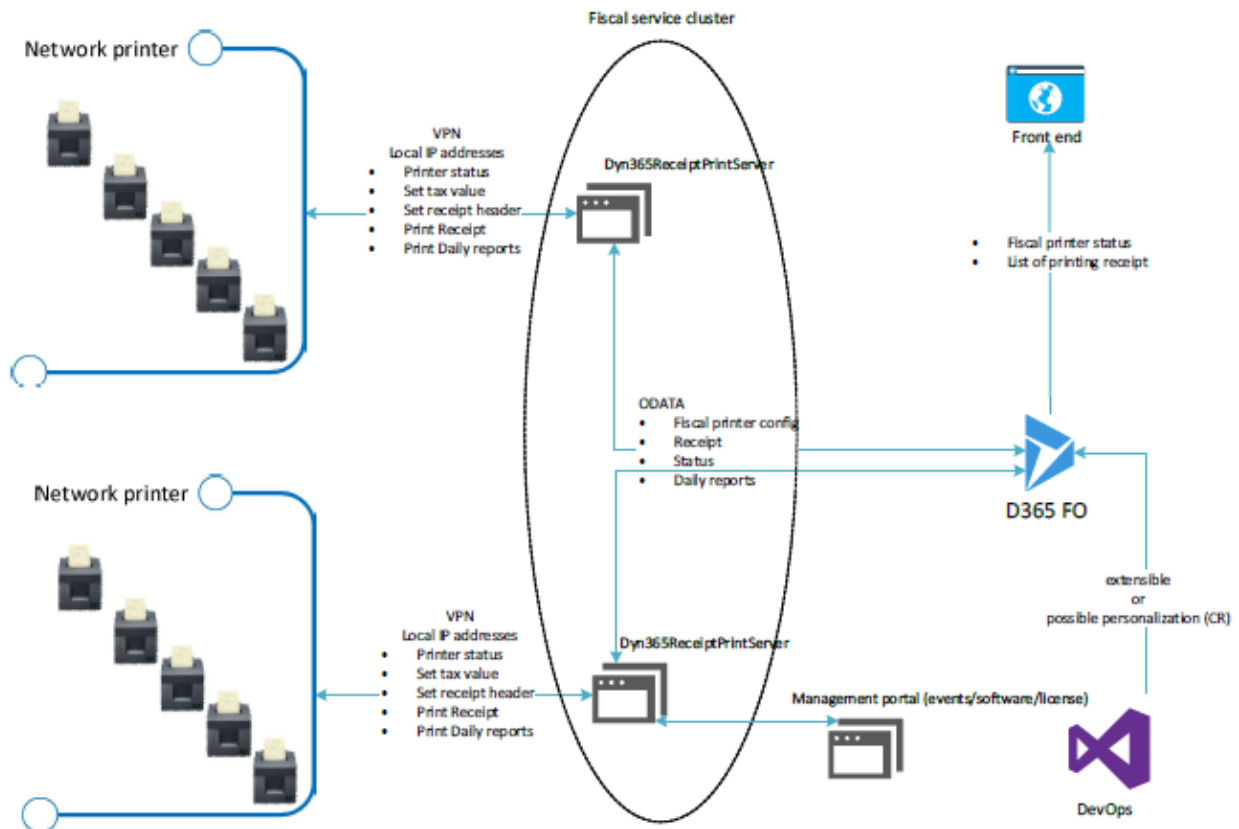
C. Delivery conditions

1. Ordering party tasks:
   a) The Ordering Party will provide the Contractor with administrative access to the computer equipment (print server computer) on which the Contractor's Software is to be installed. The print server computer must have network access to the printer (open communication to the printer port),
   b) The Ordering Party will provide the Contractor with the IP address and port number of the test fiscal printer,
   c) For the duration of internal tests, the Ordering Party will provide the Contractor with a printer along with documentation.
   d) The Ordering Party will provide the Contractor with administrator access to the test environment,
   e) The Ordering Party will provide support for administrators of the Ordering Party's IT system with access to the Azure environment,
   f) The Ordering Party undertakes to provide as soon as possible all information necessary for proper implementation and configuration of the system.

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D. Terms and Conditions

1. Each delivery of software or services will be confirmed by a delivery document, service provision document or acceptance protocol. This document will be the basis for issuing an invoice.
2. If the Ordering Party does not sign the protocol within 7 days from the date of the Contractor's request to sign the acceptance protocol and does not report in writing why these services cannot be accepted, the Contractor has the right to issue an invoice without the protocol, and the transferred works are deemed to be for received.
3. The prices included in the offer are net prices to which VAT will be added in accordance with applicable regulations.
4. Prices do not include travel and accommodation costs in the case of services provided on-site at the Customer's premises.
5. The remuneration will be payable on the basis of invoices delivered by e-mail within 14 calendar days of delivery, to the bank account indicated therein.
6. Invoices for the Subject of the order will be issued as follows:
   • the invoice for granting the license will be issued after receiving the signed license agreement;
   • the invoice for the annual Service Fee will be issued after installing the Software in the Customer's environment, based on the Work Execution Protocol;
   • invoices for services provided will be issued after a given stage of work has been completed
7. A license certificate confirming the granting of a license will be provided after payment for the license has been made.

E. Property Rights and Licenses

1. The delivered products remain the property of the Contractor until the amount due to the Contractor is paid.
2. The Contractor only owns the copyright to the software of its own production. The Ordering Party will have the right to use the Contractor's software under the conditions specified by the Contractor in a separate document "License Terms". The granting of a license to the Ordering Party will be confirmed with an appropriate certificate after the payment of the Contractor's dues.

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