

# Deploying an Integrated Odoo ERP Solution for XMPS Businesses

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## 1. Project Background

### Business Context:

XMPS specializes in providing **managed printing services** to hospitals and medical centers. Under this model, XMPS installs and retains ownership of professional-grade printing machines at client locations, ensuring their continuous and efficient operation through full-service maintenance and consumables supply.

### Key Business Operations:

#### 1. Installation & Ownership

XMPS deploys its own printing machines at client facilities under a service agreement. The machines remain the property of XMPS, while clients utilize them for their internal printing needs without owning the equipment.

#### 2. Maintenance & Support

All technical responsibilities—including routine maintenance, repairs, and spare parts replacement—are handled by XMPS. Technical support is also provided as part of the managed service package.

#### 3. Consumables Supply

Ink and other essential consumables are supplied by XMPS. Additionally, clients purchase specialized printing paper and medical films directly from XMPS to be used in the printing process.

#### 4. Revenue Model

XMPS's primary revenue is generated from the sale of printing supplies, particularly medical films and printing paper, used in healthcare imaging workflows.

### Use Case Example:

A hospital's imaging department signs a managed service agreement with XMPS to install radiology printing machines. The hospital staff utilizes the machines to print patient scans, such as X-rays and MRIs. While XMPS retains ownership and handles all maintenance, the hospital purchases the required paper and films from XMPS, enabling a reliable and cost-effective imaging process.

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## 2. Project Objectives

XMPS currently relies on **QuickBooks** for accounting and warehouse management. However, the company faces significant challenges in accurately determining expenses for each client, particularly due to limitations in tracking costs associated with machine maintenance, consumables, and spare parts usage. This lack of precise expense allocation results in difficulties with financial reporting, cost control, and profitability analysis.

To overcome these challenges, **Odoo** will be implemented as a more integrated and comprehensive solution, offering a detailed and transparent expense tracking system. The implementation of Odoo aims to address the following objectives:

- **Accurate expense tracking per client:** Ensure each client's costs (maintenance, consumables, spare parts) are clearly identified and allocated.
- **Better cost control:** Improve management of spare parts, maintenance activities, and consumables by providing more granular visibility.
- **Automated asset management and depreciation tracking:** Track the machines' depreciation and asset lifecycle automatically, ensuring accurate financial reporting.
- **Streamlined purchasing and stock valuation:** Optimize purchasing processes and gain real-time insights into stock levels and valuation.
- **Improved financial reporting and decision-making:** Generate detailed financial reports that enhance decision-making and strategic planning.

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### 3. Modules in Scope

The following Odoo modules will be implemented to address the key business needs of XMPS:

1. **Purchase**  
To handle procurement of consumables and spare parts for machine maintenance, with a streamlined process for purchase orders and vendor management.
2. **Inventory**  
To manage and track stock levels of consumables, spare parts, and machines, ensuring accurate stock valuation and timely reordering.
3. **Employee**  
To track technician visits to hospitals for maintenance purposes only. Employee salary and internal HR processes will not be included.
4. **Expense**  
To track the expenses related to employee technician visits for maintenance services per client, improving financial visibility and accountability.
5. **Sales**  
To manage sales of paper and medical films only, which are required for printing purposes at the client locations.
6. **Accounting**  
For comprehensive financial management, including expense tracking, income recognition, and financial reporting.
7. **Project**  
To manage internal projects, particularly for machine installations, maintenance schedules, and support tasks, ensuring clear tracking of work efforts and resource allocation.

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### 4. Stakeholders

As this is a graduation project, the primary stakeholders involved in the project are:

- **Shawqy Naif Mohamed Shawqy Mahmoud**
  - **Mario Bahaa William Abskhiron**
  - **Nada Salah Eltantawy Shady**
  - **Bassem Fawzy Kamel**
  - **Ahmed Elsaied Diab Abdelbary Mohamed**
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## 5. Timeline

The project will be implemented over the following timeline:

- **Week 1–2:** Requirement Analysis & Project Planning
  - **Week 3–4:** Odoo Configuration & Module Setup
  - **Week 5:** Data Migration & Testing
  - **Week 6:** Go-Live & Final Review
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## 6. Tools & Platform

The following tools and platforms will be used for the implementation and documentation of the project:

- **Odoo Version:** Odoo 18 Online SaaS Enterprise Edition
  - **Documentation Platform:** GitHub for uploading project documentation
  - **Data Migration:** Microsoft Excel for uploading and migrating data to Odoo
  - **Documentation & Analysis:** Microsoft Word for creating documents and performing analysis
  - **Presentations:** Microsoft PowerPoint for creating project presentations
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## 7. Conclusion

The implementation of **Odoo 18** for XMPS aims to address the company's operational challenges by providing a unified, integrated system to manage critical business processes, from sales and inventory to procurement and accounting. By leveraging Odoo's robust functionality, XMPS will benefit from:

- **Improved expense tracking** per client, ensuring more accurate financial reporting and better cost control.
- **Streamlined procurement** processes for both printer assets and consumables, facilitating better resource management.
- **Enhanced decision-making** capabilities through automated processes and real-time reporting.

As XMPS continues to grow, the Odoo ERP system will scale alongside the business, enabling more efficient operations and ensuring sustainable growth. This project represents a valuable step in digitalizing the company's operations, positioning it for long-term success in the managed printing services industry.