

# Development Technologies

## *SYSPRO 8 Technical Article*

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## SYSPRO Help and Reference

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# Introduction

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The SYSPRO 8 ERP system has been built with some of the latest technologies and capabilities.

As with all modern ERP systems, we have a sophisticated technology stack built for:

- Flexibility
- Scalability
- Performance
- Security

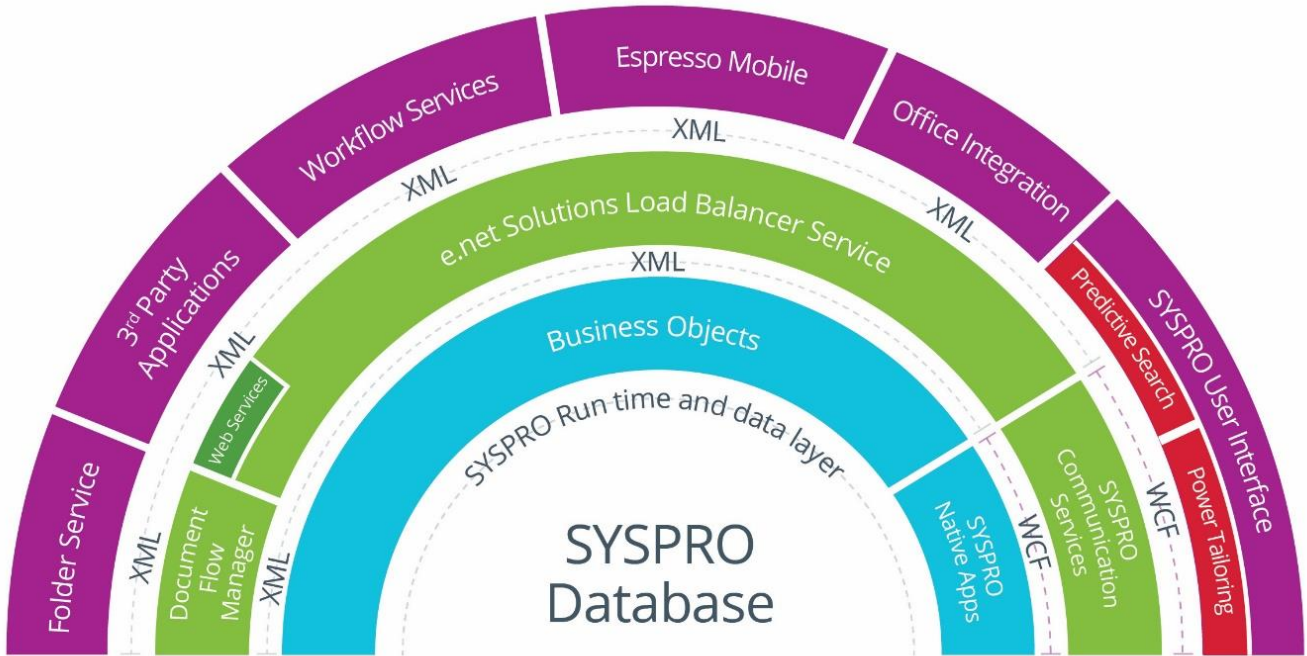
SYSPRO 8 works equally effectively in the public or private cloud and on-premise.

This requires a hybrid set of:

- Technologies
- Services
- Programming languages
- Message passing technologies
- User interfaces

# Overview of the SYSPRO 8 solution

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# SYSPRO 8 Development Technologies

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The following summarizes some of the key technologies that our developers have used to provide the SYSPRO 8 ERP solution:

- **Microsoft C#** with Visual Studio is used by our developers to provide the following functions and frameworks:
  - Services
  - Mobile
  - Workflow
  - Office integration
  - IoT
  - BOTS
  - Machine learning
  
- **Micro Focus Visual COBOL** for Visual Studio is used by our developers to create and maintain the business object and database layer.  
This includes the robustness, security, high performance, and high scalability required of the latest ERP solutions.
  
- **HTML5** is used by our developers to provide the interface to our core ERP system (SYSPRO Avanti) and mobile solution (SYSPRO Espresso) providing a cross-platform, flexible, scriptable, and customizable user experience.  
This includes the latest predictive search and power tailoring capabilities to personalize the user experience – all future proofed to allow hassle-free future upgrades.
  
- **XML** is used to integrate into our business object layer providing open, extensible, and future proofing of our e.net Solutions architecture.  
This is used by both SYSPRO solutions and third-party application developers providing high performance and open functionality – all wrapped in a secure layer.
  
- **SYSPRO Services** provide a secure and fast messaging layer allowing any app to communicate with the core SYSPRO ERP functions. This Service Oriented Architecture has become the standard for building modern solutions. SYSPRO 8 is shipped with a Load Balancer that further increases robustness, performance, and scalability.
  
- **Microsoft Windows Communication Foundation (WCF)** is used as the communication channel between our applications and can be used by third-party app developers to seamlessly integrate to SYSPRO 8. More traditional web services are also supported.
  
- **Microsoft SQL Server** is the backbone of our ERP system, providing rock-solid data integrity, openness, performance, scalability, and a secure architecture.



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