



SERVICE PORTFOLIO - FACT SHEET

SOLUTION SERVICES

WWW.IPS-AG.COM



ABOUT IPS

WHO WE ARE

IPS is a Swiss-based sole proprietorship with its main business offices in Switzerland and Liechtenstein and development centers in the Czech Republic and Vietnam. Established in 1992, IPS is 100% self-financed and independent.

For 25 years, IPS has been helping customers worldwide to automate and digitize their businesses through our wide portfolio of customized high-tech solutions.

IPS has demonstrated technical and business expertise in a multitude of long-term engagements. We not only implement the solutions, we also help our customers to envision, plan and design the path from the traditional application landscape to the modern digital world.

OUR PORTFOLIO

IPS offers a broad portfolio of services to help you succeed. One size does not fit all. We create unique solutions tailored to your needs. Robust solutions designed to last and flexible enough to support future changes in your business.

The digitalization of your business is a long journey and IPS can help you at every step. Our service portfolio is based on an extensive set of skills and technologies that enable us to deliver sophisticated high-tech end-to-end solutions.



ABOUT SERVICES

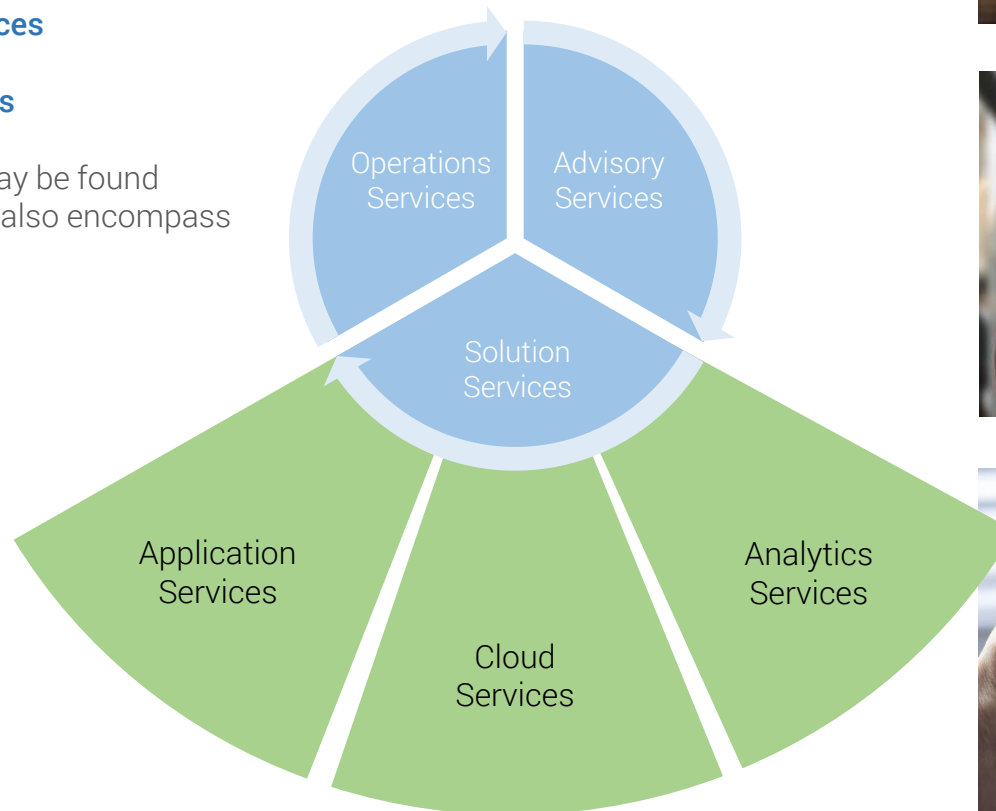
SOLUTION SERVICES

IPS Solution Services helps to envision, design, develop, test and deploy globally unique solutions. They are designed to address your specific needs.

Solution Services are based on **three core areas**:

- **Application Services**
- **Cloud Services**
- **Analytics Services**

The right solution may be found in solely one area or also encompass others.



ABOUT SERVICES

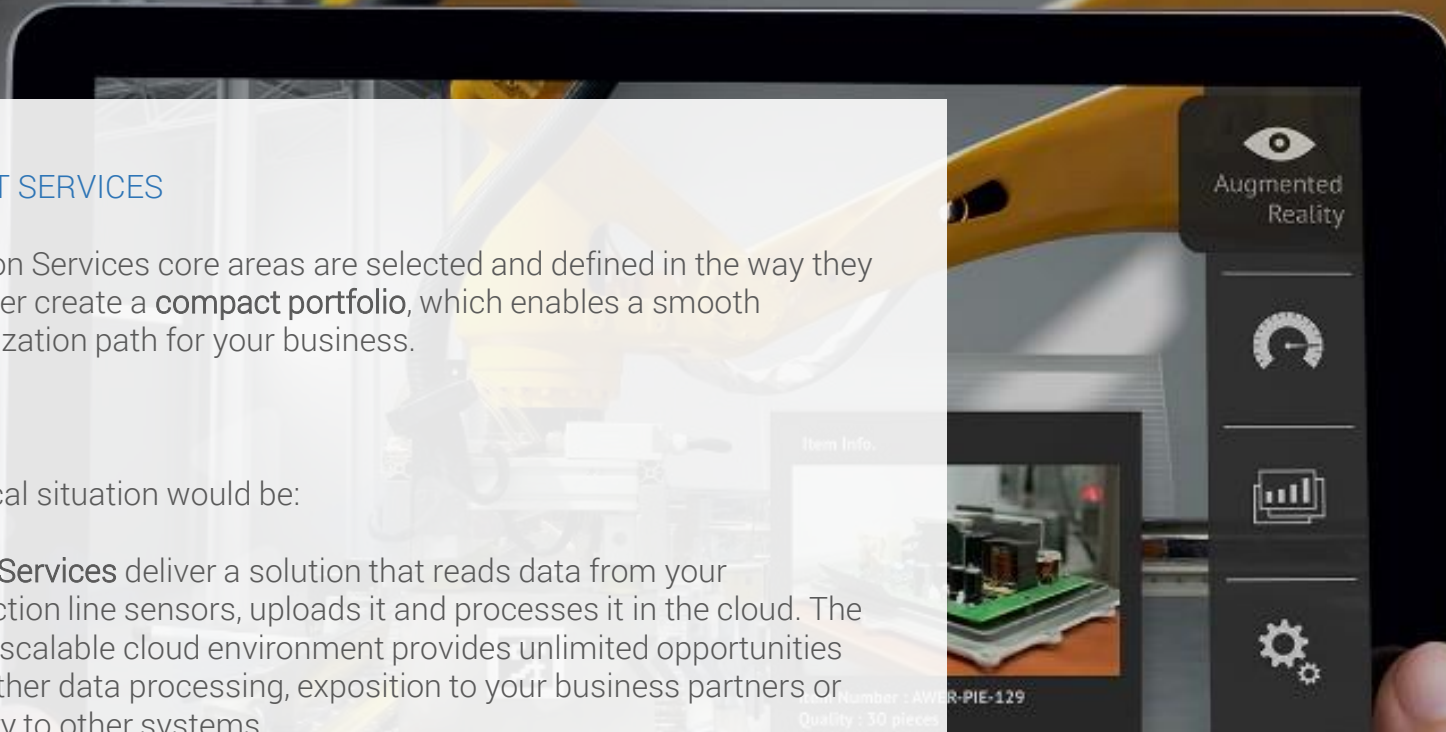
Solution Services core areas are selected and defined in the way they together create a **compact portfolio**, which enables a smooth digitalization path for your business.

A typical situation would be:

Cloud Services deliver a solution that reads data from your production line sensors, uploads it and processes it in the cloud. The highly scalable cloud environment provides unlimited opportunities for further data processing, exposition to your business partners or delivery to other systems.

Once data is in the cloud the **Analytics Services** apply Machine Learning models to predict unexpected production events. You also keep a finger on the pulse of your business through dynamic reports, big data analysis and self-service BI.

The solutions delivered through **Application Services** enable you to further interact with your business on all levels. Applications may communicate with your machines, help you to visualize your products, or provide extra insight into your business through Augmented Reality .



ABOUT SERVICES

IPS Solution Services offer:

REQUIREMENTS ENGINEERING	<ul style="list-style-type: none">▪ Collection, clarification of the requirements▪ Analysis of requirements▪ Solutions specifications
ARCHITECTURE & DESIGN	<ul style="list-style-type: none">▪ Architecture blueprints▪ General solution design▪ Review and advocacy of solution design
DEVELOPMENT	<ul style="list-style-type: none">▪ Agile implementation based on requirements▪ Documentation▪ Code reviews
QUALITY ASSURANCE	<ul style="list-style-type: none">▪ Guaranteed requested quality level▪ Testing automation▪ Support of UAT
PROJECT MANAGEMENT	<ul style="list-style-type: none">▪ Management of all project phases▪ Distributed team management▪ Agile process in place▪ Detailed and transparent status reporting
PACKAGING & DEPLOYMENT	<ul style="list-style-type: none">▪ Generation of installable packages▪ Definition of installation procedures▪ Deployments into different environments▪ Handover to Operations▪ Deployment automation



ABOUT SERVICES

SOLUTION TYPES

Every solution delivered by IPS Solution Services can be combined from a wide range of available solutions types.

APPLICATION SERVICES

- Client-side applications
- Web-based
- Responsive
- Mobile
- Rich client applications
- Advanced visualization
- 3D
- Augmented (mixed) reality
- CAD kernel based applications
- UI/UX services
- Server-side applications
- Backend for client-side
- Integration
- Distributed and scalable application
- Data delivery services
- Hybrid solutions

ANALYTICS SERVICES

- Machine learning
- Data lakes
- Power BI reports
- Ad-hoc reporting
- Self-service BI
- Traditional BI and static reporting
- Static reports
- OLAPs
- ETLs and data migrations
- BI related security
- Scalable cloud and on-premises solutions
- High-available solution

CLOUD SERVICES

- Cloud applications based/utilizing PaaS and SaaS
- Cloud services
- Micro services
- Various IoT scenarios
- Machine learning and advanced Analytics
- Scalable and high-available solutions
- Hybrid solutions



ABOUT SERVICES

TECHNOLOGIES

Apart from the solution types you are also flexible in the selection of preferred technologies. If mutually compatible, you can combine them according to your needs. Below please find selected examples:

APPLICATION SERVICES

- .NET 2.0 – 4.7, C#
- Data access: ADO.NET, LINQ, Entity Framework
- Presentation: WPF, Prism
- Web Technologies: ASP.NET/Core, MVC, AngularJS, HTML5, JavaScript, jQuery, CSS, Node.js, React.js
- Communication: WCF, REST, ASP.NET/Core, Web Services, WebAPI, Odata, Node.js
- Servers: SQL Server, BizTalk, SharePoint, Project Server, ILM, FIM
- Data structures: XML, XSD, XPath, XSLT, JSON
- Database: SQL Server (Azure, Enterprise, Express, Compact, Standard), SSRS, SSIS, SSAS, T-SQL, DocumentDB
- Cloud development: Azure, ML, IoT, Cosmos DB

ANALYTICS SERVICES

- SQL DB - DWH structure design
- SSIS (Integration Services) - ETL frameworks, MS SQL, XMLA, AS/400, XLS and other sources
- SSAS (Analysis Services) - multidimensional models, MDX, tabular model, in-memory OLAP
- SSRS (Reporting Services) - complex reports over OLAP (MDX) and SQL layer
- Power BI
- SharePoint - BI integration, Excel, and in-memory technologies
- Cloud Azure – Power BI, Machine Learning, Stream Analytics, DocumentDB

CLOUD SERVICES

- PaaS: WebRoles, WorkerRoles, WebJobs, Containers
- SaaS: Azure App Services (Web, API, Mobile, Logic), Service Fabric
- IaaS: VMs, Virtual Network, Express Route
- SQL Azure, Blob/Table Storage, Cache, CDN, DocumentDB, Cosmos DB
- IoT, Stream Analytics, Event Hub
- Office 365, BizTalk Services
- AD, ADFS, AD RMS, ACS, AD B2C
- System Center, Automation
- Power BI
- Machine Learning





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