



CASE STUDY  
**CLOUD SERVICES**

# DATA HIGHWAY TO CLOUD

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Massive master data distribution through a cloud solution

## PROJECT OBJECTIVES

The focus was on building new master data services for global distribution of large sets of data from on-premises data management environments to end-customers. There is a constant flow of data updates to a cloud environment. The main project objectives were to design, implement and support a new solution covering the following requirements:

- Business rich API
- Consolidation and aggregation of data on-premises
- Publishing data to cloud
- Data to be prepared in new ISO format
- Global distribution of huge data volumes (incl. 2D and 3D drawings)
- Multilingual support of 19 languages
- Data access rules for public and secured sets of data
- Identification and auditing of consumer activity

## CUSTOMER BENEFITS

The solution brings tangible values in the following areas:

- Real-time data distribution. Clients are always up to date with latest product updates.
- Efficient data distribution. Data is served globally, with lowest possible infrastructure and operational costs. It is co-located in data centers in different geographical regions in the world, for fast data delivery.
- Controlled access to data. Different levels of access allow control of public and secured data. Secured data considers subscription, licensing or partner based agreements between our client and end-customers.
- Scalable and highly available data source. Met strict SLAs to eliminate downtime and automate software updates.

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## IPS EXPERTISE

IPS provided expert consulting, analytical and architectural work, solution design and development, graphic design, operation and maintenance.

## TECHNOLOGIES USED

- Microsoft Azure based solution (PaaS and SaaS)
- Distributed solution architecture split into subsystems
- C#, XML, HTML
- Angular 4, TypeScript
- ADO.NET, Entity Framework 5, LINQ
- Blobs, SQL Azure, DocumentDB,
- SOA, WebAPI, WCF, SOAP,
- Azure Service Bus, messaging,
- Distributed caching in cloud
- SSO, WIF, ADFS, Azure AD B2C
- Visual Studio, TFS, Git, PowerShell
- Windows, Windows Server, Windows Azure
- PowerBI

