

# CSP grade Data, AI & Analytics

Microsoft & Amdocs  
Joint proposition

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# Become a CSP Data & Analytics as-a-service Leader



The opportunity

## The data, AI & analytics untapped opportunity\*

- CSPs are amongst the largest producers of data. An average size CSP produces 16 TB per day and stores **26PB**
- **44%** Of CSPs report inability to access data needed across operational silos
- CSP cloud-specific spending expected to grow at more than **6** times the rate of general IT spending through 2021
- Telecom industry suffered a **21%** churn rate in the United States in 2018

That is why CSPs are expected to invest more than **\$36.7B** annually Data, AI & analytics spend is estimated by 2025

(\*Analysts estimations)

## Amdocs is a global leader in Modernizing, digitizing & automating the communications industry

Magic Quadrant for Integrated Revenue and Customer Management for CSPs



- ✓ Industry know-how and robust track record
- ✓ Constantly innovating
- ✓ Broad customer base



Broadest scope of industry IP



**36 years**, Always adapting and leading



**80+** major productions per quarter



**Full accountability** from scoping to operations



Full year cash flow of **\$428** million



Constant infusion of M&As



**80%** success rate delivering on time (industry rate 53%)

**\$4.1B**  
Revenues

**350**  
Customers including the greatest SPs on the planet

**25,000**  
Employees

**85**  
Countries

**1.7 billion**  
Daily digital journeys

**600**  
Media company relationships



Our right to play

# Microsoft & Amdocs – How to scale data & AI in the Telco industry

Amdocs is one of the biggest producers of CSP data

DATA  
ONE

## Taking the industry to the cloud

### Comprehensive data integration and transformation

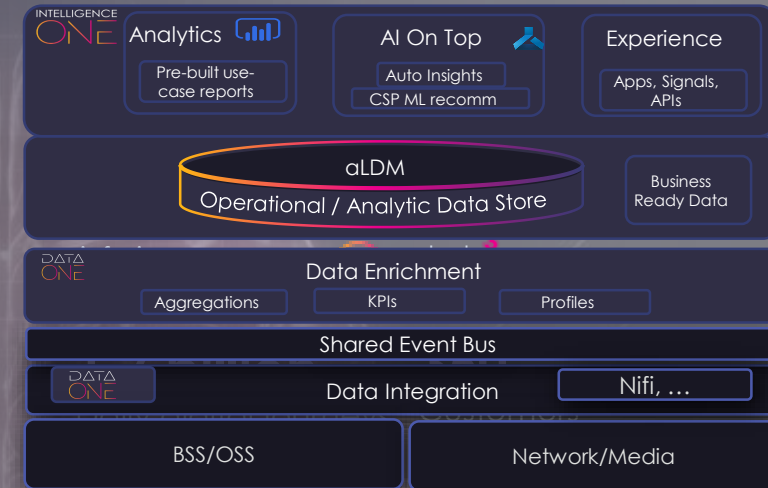
Streams and unifies data from all app sources into a cloud DW. Enriches data with CSP KPIs, cust profiles, and aggregations to create business-ready data

## The Only CSP specific e2e analytics AI & BI solution

### Modern AI & BI analytics platform

Uses CSP-optimized AI to provide actionable insights, ML recommendations, root-cause analysis and predictions. Includes pre-built use cases and best practices for a range of business areas covering Customer, Product, Care, Finance and Network. Enables self-service analytics for users of all levels.

INTELLIGENCE  
ONE



**Amdocs  
data  
Intelligence**

## Strategic partnerships with Microsoft

  
How do we  
do it  
together?



### Enhance Product Offering

- MSFT & Amdocs as a Global SI for CSP data modernization
- Amdocs DataONE on Azure - Data streaming and transformation to cloud
- Amdocs IntelligenceONE powered by Microsoft Power BI



### Co sell

- Capture CSP data and analytics workloads moving to cloud
- Existing and new MSFT + Amdocs customers to Drive growth

### Mutual marketing plan

- Market education to create awareness and lead gen
- Co-investment in marketing programs



### Sales enablement & training

A woman with long brown hair, wearing a black leather jacket, is shown in profile from the chest up, looking towards the right. Her hands are positioned as if holding a glowing, intricate network of white nodes and lines that extends across the right side of the frame. The background is a dark purple gradient with soft, out-of-focus bokeh lights in shades of yellow and white. The overall mood is futuristic and digital.

**Additional slides**

**Thank you**

Cross telecom industry challenges;

Less than **20%** of project get adopted  
or reach production

Only **1 in 5** | AI projects are  
currently succeeding  


 Siloed AI use cases

**tmforum**

**Data is still the #1 barrier**

**44%** Of CSPs report Inability to  
access data needed  
across operational silos

**28%** Say have issues with the  
lack of clear standards for  
exposing data streams

**Harvard  
Business  
Review**

May 2019

“While generic ML tools may seem to  
work, domain knowledge aids in applying  
them to the problem at hand.

Dramatic reductions can be seen in the  
error rate just from picking good features  
or a reasonable model structure in a way  
that's not easy to automate.”

# Data is still the #1 challenge



**FORRESTER**<sup>®</sup>

The Evolution To  
Real-Time Customer  
Experience

**95%** of CX decision-makers are **unable to make sense of customer data** and struggle to gain real-time insights from it

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# Paradigm shift is needed



## A 'Brain' not a "Lake"

- Intelligent data aggregations
- Cross-business intelligence

## Target-oriented AI

- Allow users to easily define & pursue business/Ops objectives
- Rich vertical and cross-domain use cases libraries

## Easy to use

- Interactive natural language user interface
- Narrated insight
- Proactive recommendations

# The **Data Intelligence** approach

products, services &  
pre-integrated partners





# Data intelligence E2E Play Driven By Business KPI's



**1**

DATA  
ONE

## Build & Protect

Design, develop & operate the telco's big-data & AI infrastructure

**2**

INTELLIGENCE  
ONE

## Analyze, Decide & Experience

Democratize and visualize data by extending analytics across business & operation functions to better monetize insights and personalization

**3**

## Uber AI

Leverage AI across business functions and use cases to improve insights & monetization

**Data-driven, technology assets, best practices & expertise**

# Data Intelligence e2e modular Offering

Answering real market needs –

Less than 20% of AI projects get adopted or reach production

AI can improve customer experience by 5% to 10% & cost reductions of 15% to 25% within two to three years

INTELLIGENCE

ONE

3



Uber AI

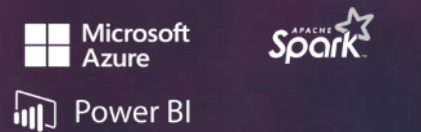
Products

- Intelligence One / IO app
- Insights engine
- KPI engine

Services

- Data science as a Services
- Business & marketing Consulting
- ML Engineering services
- AI & data science consulting

Pre-integrated Partners



DATA

ONE

2



Analyze, Decide & experience

- Amdocs Engage
- Profiles Management
- Self-Service Workbench
- Auto ML
- Intelligent Customer 360

- Data Visualization Design
- Implementation / Customization of Dashboards & BI Apps
- Marketing and business analytics services



1



Build & Protect

- Data Hub (ADH)
- aLDM
- Customer Profile
- Data Privacy

- Data Ingestion & Integration
- Data Migration to Cloud
- Data Quality & Governance





# Design, develop & operate the telco's big-data & AI infrastructure



**DataONE** serves as a next-gen data warehouse serving the entire organization. efficiently unifying and organizing operational & analytical data from any source and making it easily accessible Providing real-time updates and enterprise-grade security.

**DataONE** calculates business metrics and KPIs, generates individual customer profiles and enriches it with external data sources such as behavioral data.

- Products:** DataOne (ADH), aLDM, IC360
- Services:** Data Ingestion & Integration, Data Migration to Cloud, Data privacy, Data Quality & Governance

## 1st & 3rd Party Data



Data Transformation, modeling, protection

Entity Matching

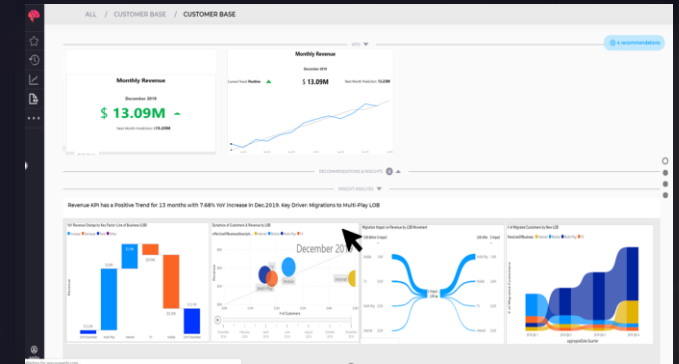


# Comprehensive AI & BI analytics solution built specifically to help CSPs use data to drive their business

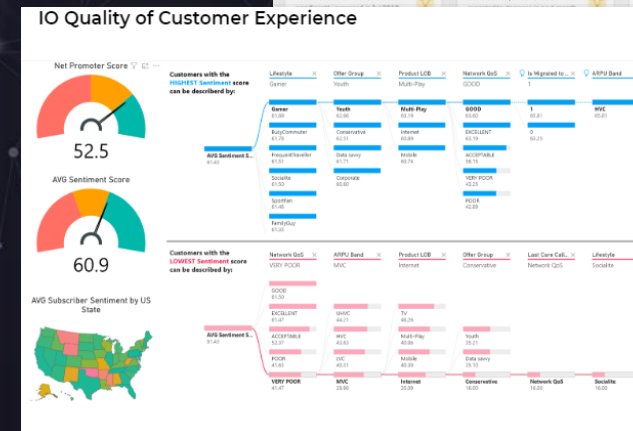
**IntelligenceONE** app is a comprehensive analytics solution built specifically to help CSPs use data to drive their business. The service utilizes advanced AI and BI technologies to analyze data from dozens of internal and external systems and provide users of all levels with concise, insightful and actionable insights.

**IntelligenceONE** comes with rich vertical and cross-domain pre build telco specific use cases & KPI libraries to Proactive inject recommendations

**IntelligenceONE** is designed to span every aspect of the business with detailed use-cases and best-practices being built for covering Network, Customer, Product, Care and Finance.



- Products:** IntelligenceOne
- Services:** AI business optimization models, Data Science as a service, marketing & business consulting



# Unique position for data enrichment



## AI / ML models

- Recommendation engine
- Top telco specific KPIs
- Real Time Context
- Enriched customer profile
- Auto-generated Insights enabling users to find true root-causes and spot early trends
- Predictive scores
- Advanced segmentation
- Personalization
- AI / ML algorithms optimized and trained to understand CSPs-specific terms and attributes

## Real time business Insights

# Data Intelligence functional Architecture



Data Scientist



Applications



Self Service BI



Business Personas

- Authoring UI
- Shared Data-Model
- Metadata
- Lifecycle management
- Security

INTELLIGENCE ONE

Signals, APIs

Enriched Analytics



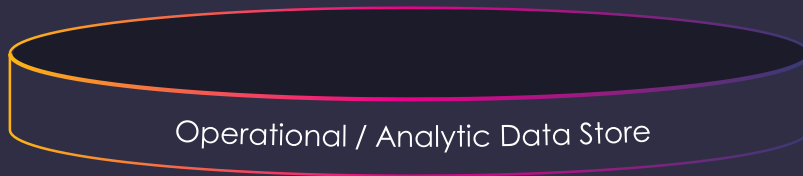
AI Recommendation

Auto Insights

Experience UI  
Pre-Build Use Cases



DATA ONE



Operational / Analytic Data Store

Business Ready Data

DATA ONE



Aggregations

Data Enrichment

KPIs



Profiles

Shared Event Bus

Data Integration

DATA ONE

ADH

Nifi

...

BSS/OSS

DL/DWH

# Use cases relevant across all Towers

## CIO, CDO

1. Build Data network
2. Data privacy & governance
3. Faster TTM
4. Move to the cloud

## CFO

1. BI
2. Revenue forecast
3. Profitability
4. Dashboard visualization
5. CapEx allocation

## CMO, Head of Sales & Care

1. Churn
2. Sentiment analysis
3. Care
4. Sales revenue, collection
5. Product recommendation
6. Ent - lead 2 cash
7. Acquisition
8. NPS

## CTO

1. NW Planning
2. NW Analytics
3. CEM



**Transformation:** System transformation & agile delivery



**Insertion points :** Independent agnostic value proposition

# With Proven Business Results

■ Business-driven KPIs  
■ Operations-driven KPIs



net conversion  
rate of new  
mobile app users

15%



12  
Points increase  
in NPS



5%  
uplift in Pay-as-you-  
Go revenue



Globe

Cut data  
management  
costs by

~65%



Reduced churn  
by  
20%



8.5%  
conversion rate  
in online sales



Cut data  
management costs by  
40%







...Amdocs IntelligenceONE will help us achieve these goals; Create new revenue streams across different industries, utilizing data-driven AI capabilities to generate and monetize business insights.



SoftBank

- Hidebumi Kitahara, Vice President, Head of Global Business Strategy Division, Technology Unit, SoftBank Corp.

# LATEST MARKET RECOGNITION



By ensuring our business has access to critical reports and dashboards from day one DataONE with Amdocs will allow us to proactively manage and offer a better customer experience

- Luciana Barrera, CIO, Telefónica Argentina



Allice US has gone live with Amdocs data intelligence on Google cloud platform. Together we will drive better intelligence into core operations for enhanced customer insights and experiences.



- Alessandra Bomura, CIO, Telefónica VIVO



“Amdocs AI & Data analytics could help us build the business to a 2x level if implemented in the right way”



Analysis Mason Business Unit Head, Tier-1 CSP in APAC, January 2020, CI Research



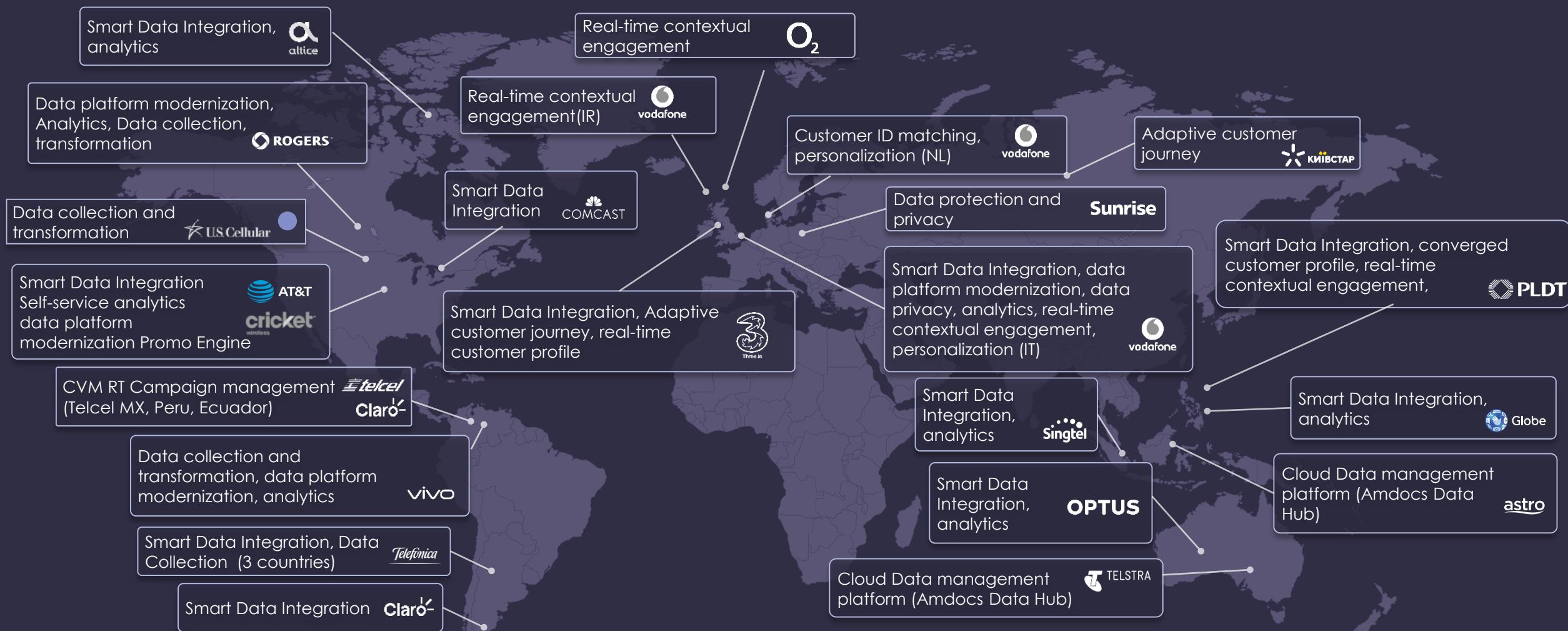
Orange will Transform Time-to-Market and Customer Relationships Across its Multiple Brands

- press release, Feb 2020



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# Data Intelligence Global Footprint



On-premise and on cloud



thank you

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