



INPOLUS

Integration Platform

Enterprise Integration Platform



Inpolus
Information technology

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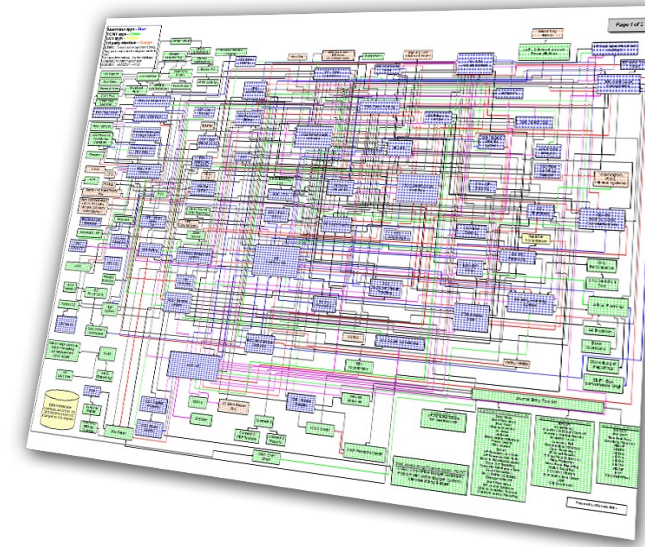
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Integration – efficient data logistics

Background:

- The need for exchange between heterogeneous information systems and applications with different data sets and formats.
- An increase in the number of heterogeneous information systems and applications.
- Complication of exchange scenarios (how, where, when data is transmitted/received).
- An increase in the number of errors during data exchange. Increasing security requirements. Increased data exchange costs.



What it gives:

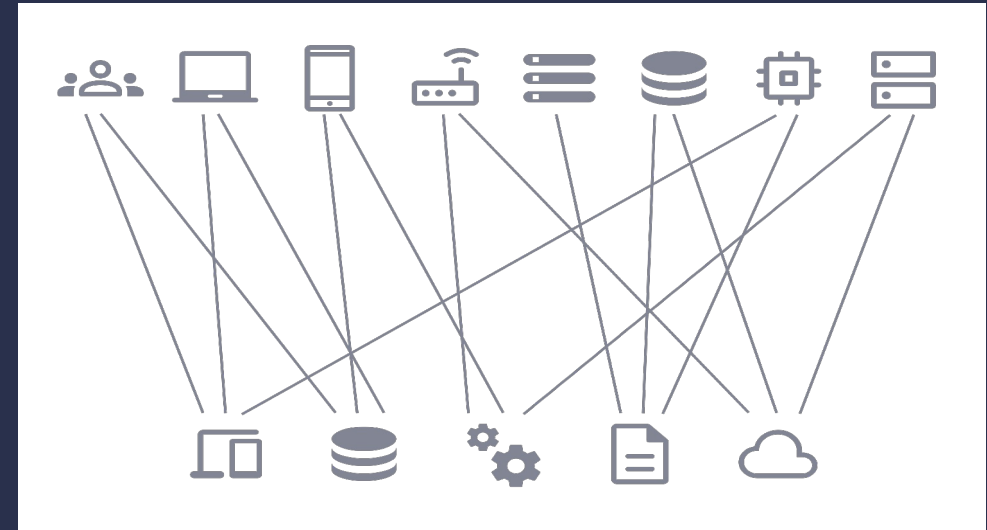
- Seamless, automated, managed and controlled data exchange (data logistics) between heterogeneous information systems and applications with different data sets and formats.
- The ability to combine an unlimited number of heterogeneous information systems and applications into a single logistics environment.
- Implementation of complex "multi-pass" data exchange scenarios.
- Reducing costs and errors when exchanging data (including by reducing resources when developing exchange scenarios).
- Ensuring security requirements (including by minimizing the number of personnel involved in the data exchange process).



Different approaches to integration

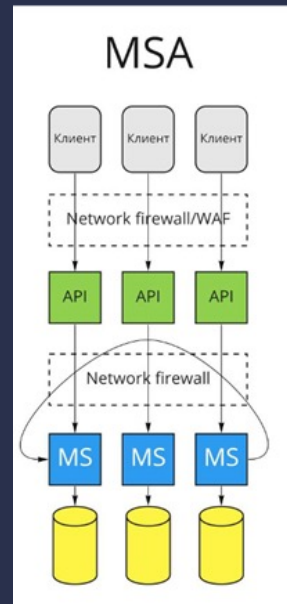
Point-to-point integration

- Preserves and increases chaos by using a diverse set of integration solutions.
- It creates a strict dependence on specific developers and analysts.
- Most of the information about how it all works is just "in the head."
- It seriously increases the cost of improvements, development and slows down the introduction of new business functionality.
- Service lifecycle management is difficult.



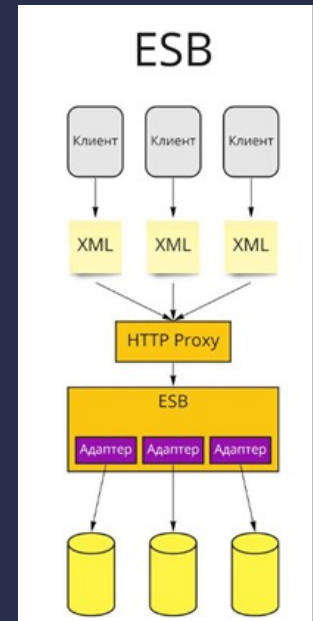
Microservice architecture:

- Scalability.
- Flexibility and independence – microservices can be developed, modified and deployed independently of each other.
- Increasing the complexity of the infrastructure for orchestration systems due to the use of a large number of components (Kubernetes).
- The complexity of service lifecycle management. Increased resource requirements for development and support, due to more Java code.



An integration platform based on SOA:

- Scalability.
- Flexibility and independence – Services can be developed, modified, and deployed independently of each other.
- Standard service orchestration mechanisms are the core of the integration platform.
- Transparent service lifecycle management.
- Less Java code, a low-code approach to the development of integration processes.

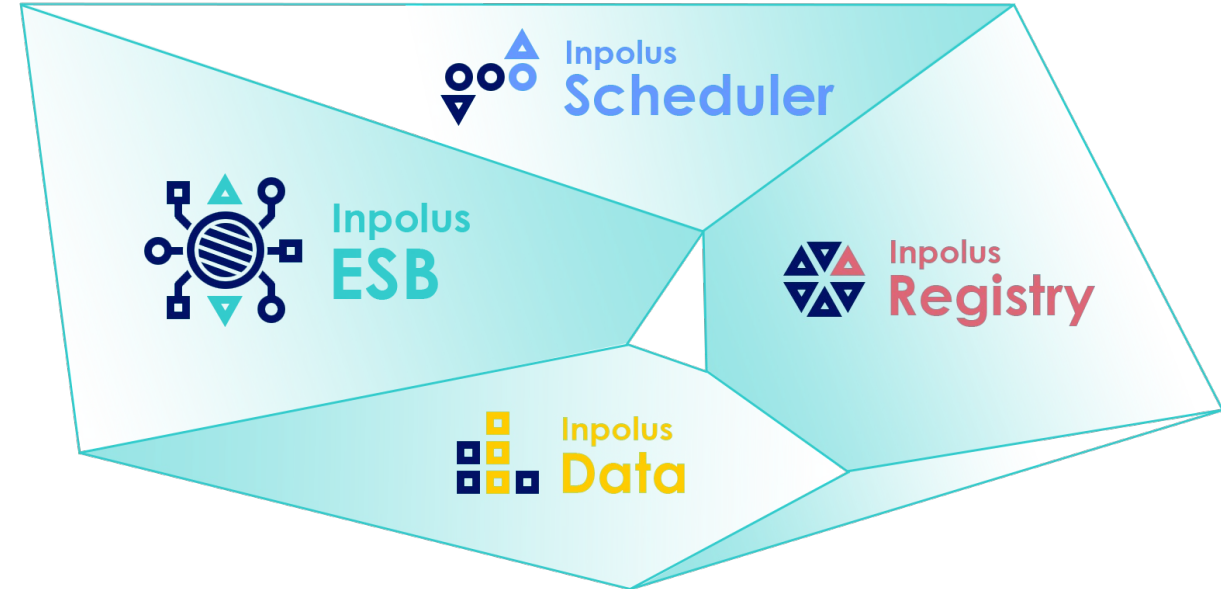


Integration Platform

Centralized secure management, control and processing of data in the exchange between information systems and applications (data logistics), through the development of integration services (integration/business scenarios) operating in a single transport environment.

The INPOLUS® Integration Platform provides seamless integration of systems and applications.

- Unifies both the development environment and the execution environment.
- Provides a flexible service orchestration mechanism.
- Supports various communication protocols.
- Allows you to reuse both data and the logic of its transfer, transformation, enrichment, etc.
- Provides a service lifecycle management tool.
- Provides built-in monitoring, tracing, and auditing capabilities.
- The low-code platform reduces the cost of updating and implementing new functionality.
- Simplifies support and problem analysis.



INPOLUS® Integration Platform



REGISTER OF
SOFTWARE

INPOLUS® ESB is a corporate bus for developing and executing logistics processes.



REGISTER OF
SOFTWARE

The INPOLUS® Registry is a unified environment for describing and managing the lifecycle of services.



REGISTER OF
SOFTWARE

INPOLUS® Scheduler Script Manager is a unified environment for managing scheduled and event-driven launches.

INPOLUS® Data Corporate Object Storage.

Additional modules:



Monitoring

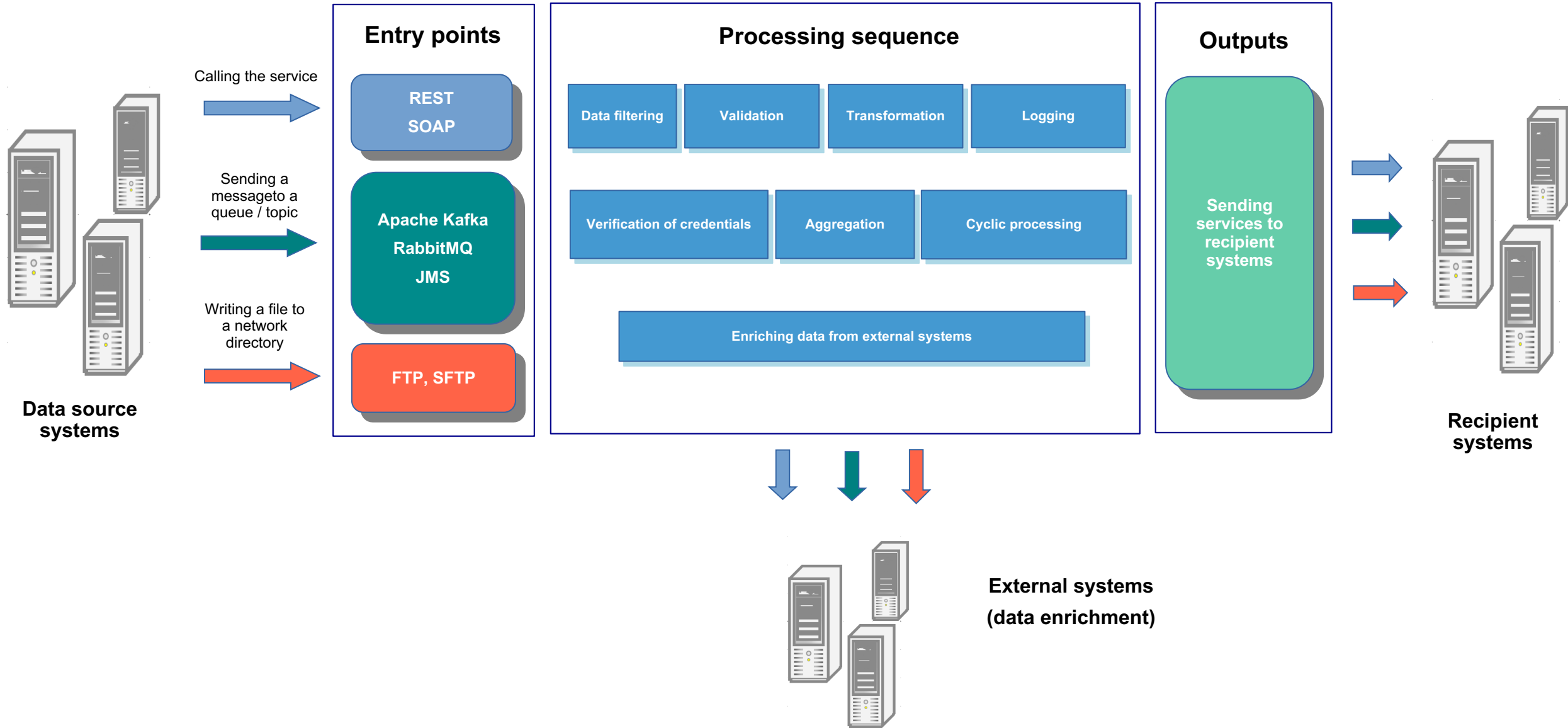


Logging

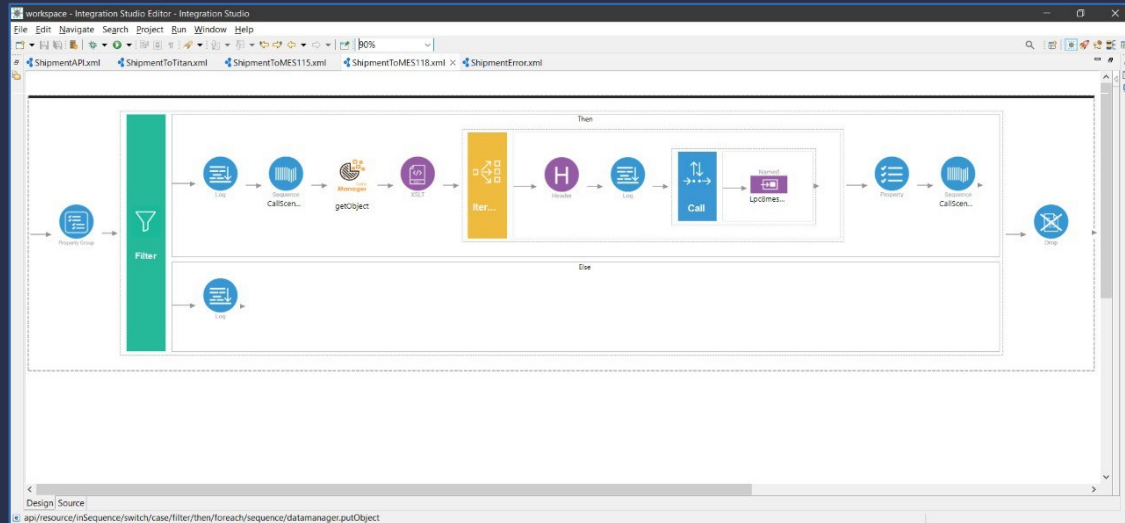


Automatic assembly

INPOLUS® ESB – the basic module of the platform



Development, execution, and administration tools



Development of integration processes:

- Visual design, parameter setting (low-code).
- It is possible to connect additional software modules (connectors to external systems, Java code and scripts).

The screenshot displays the Inpolus ESB Administration console. The left sidebar contains a navigation menu with the following items: 'Главная' (Home), 'Управление' (Management), 'Приложения' (Applications), 'Модули' (Modules), 'Коннекторы' (Connectors), 'Реестр' (Registry), 'Обзор' (Overview), and 'Поиск' (Search). The main content area shows the 'Домашняя страница Inpolus ESB' (Inpolus ESB Home) page. It includes a welcome message and a table of system status information.

Сервер	
Хост	esbdev.inpolus.ru
URL сервера	local://services/
Время запуска сервера	2026-05-12 06:26:02
Время работы системы	0 дни 16 часы 20 мин 5 сек
Версия	2.0.0
Расположение репозитория	file:/home/inpolusesb/inpolusesb-2.0.0/repository/deployment/server/
Лицензия	Ограниченная, срок действия до: 10.06.2026

Операционная система	
Название OS	Linux
Версия OS	3.10.0-1160.71.1.el7.x86_64

Пользователь операционной системы

Administration of integration processes:

- Execution of processes.
- Deploying integration applications.
- Managing components of integration scenarios.
- Setting up the parameters.
- Account Management.

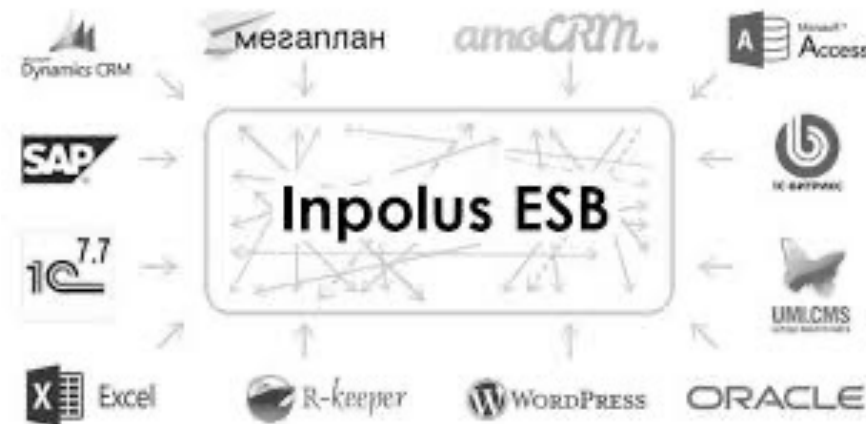
SAP and 1C adapters

SAP adapter

- Being in the middle, it connects SAP R/3 with external systems via various communication channels and in various exchange formats, since external systems are out of the box:
 - They cannot invoke SAP R/3 procedures.
 - They cannot exchange documents in SAP R/3 formats.
- The SAP adapter and integration platform provide QoS features: fault tolerance, message storage and delivery, availability/clustering, security features, etc.
- Uses the popular SAP Java Connector (SAP JCO library).
- Supports two operating modes:
 - IDOC (ALE).
 - BAPI (RFC).

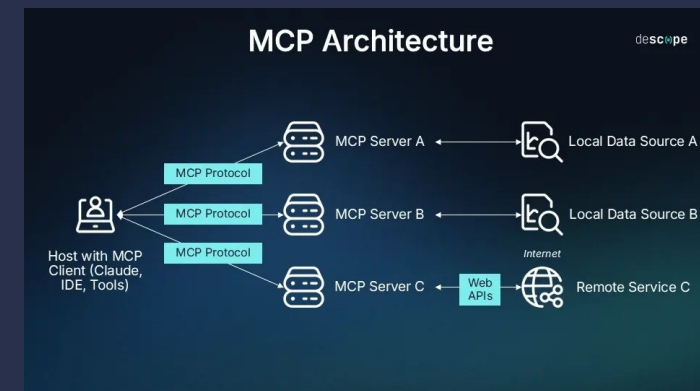
1C Adapter

- Combines ready-made components:
 - A ready-made 1C component that allows using the settings in the interface to send a message/object to the integration bus and receive messages/objects from the integration bus.
 - A ready-made component of the integration bus that implements the reception/transmission/correlation of messages/objects between 1C and related systems, analysis for duplicates and guaranteed delivery.
- Standardized technology interface (REST/JSON).
- Authentication and authorization.
- The ability to use any complex work scenario in message processing using visual design and a rich set of ready-made components.



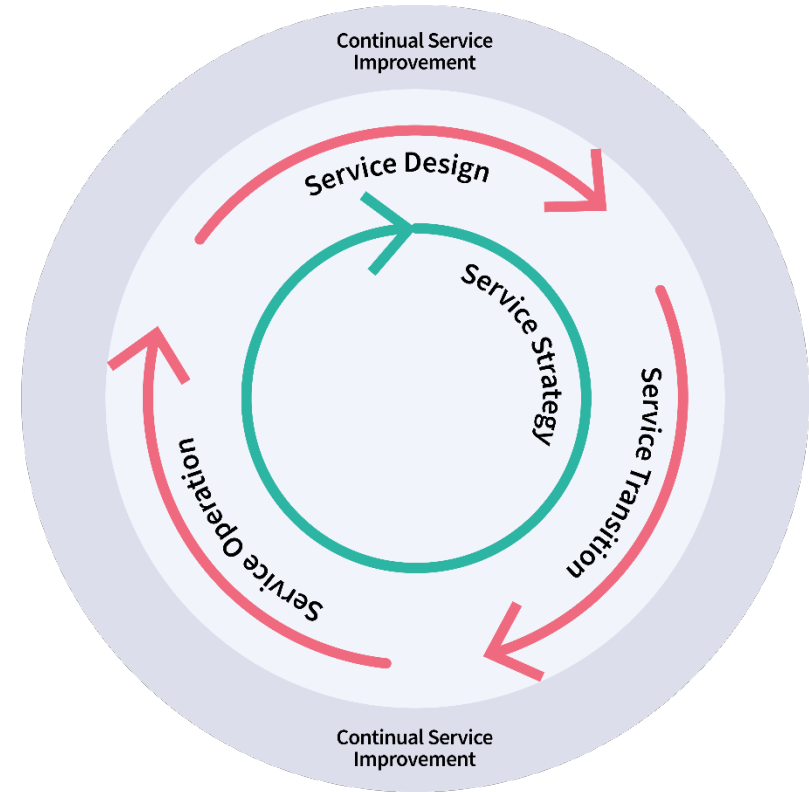
INPOLUS® ESB + AI – stronger together

- Provides a ready-made visual component for invoking both cloud and on-premises LLMs through a standardized API that can be used in integration scenarios. At the first stage, ChatGPT, GigaChat, and local models are supported using the OpenAI API.
- Provides entry points using the MCP protocol. This allows integration scenarios to be included in complex scenarios of AI agents and/or user interaction with AI models in order for the AI model to obtain additional relevant information during operation and prepare a better and/or complete response based on company data.



Unified corporate registry of services INPOLUS® Registry

- A centralized source of information about services at the enterprise.
- "One truth" for all participants in the development and maintenance of services, as well as business users.
- The ability to search and reuse the company's existing services according to various parameters.
- Provision of standard platform services: logging, statistics collection, monitoring.
- Simplify support and problem analysis.
- Registered in the registry of domestic software.



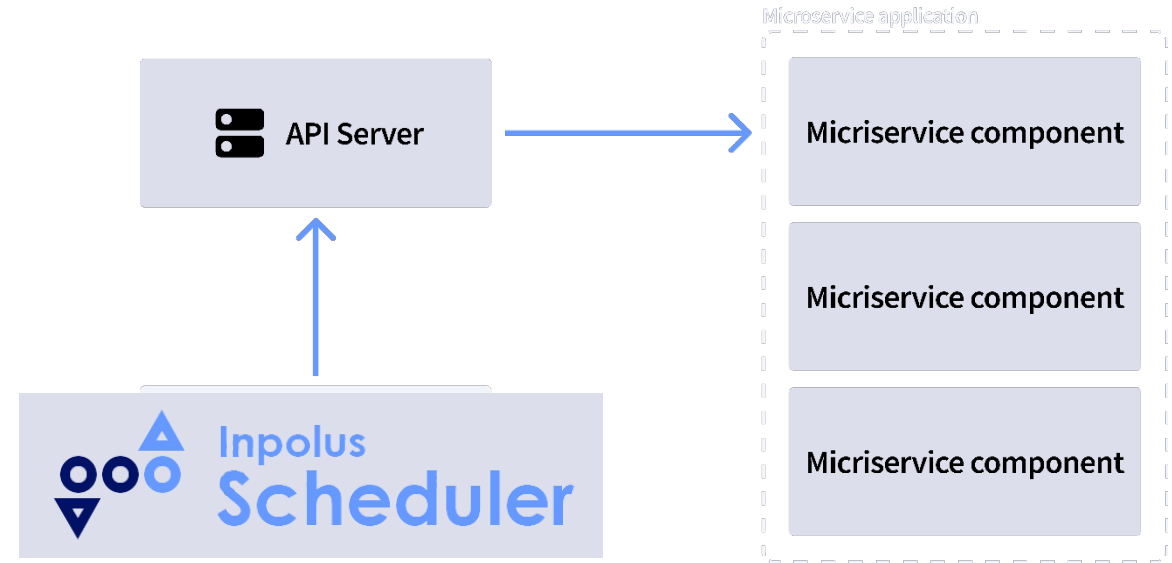
Corporate object storage INPOLUS® Data

- Storing large files separately from integration messages.
- REST software interface, ready-made components for use in integration processes.
- High performance and reliability.
- The ability to store data on separate capacities from the operational integration system.



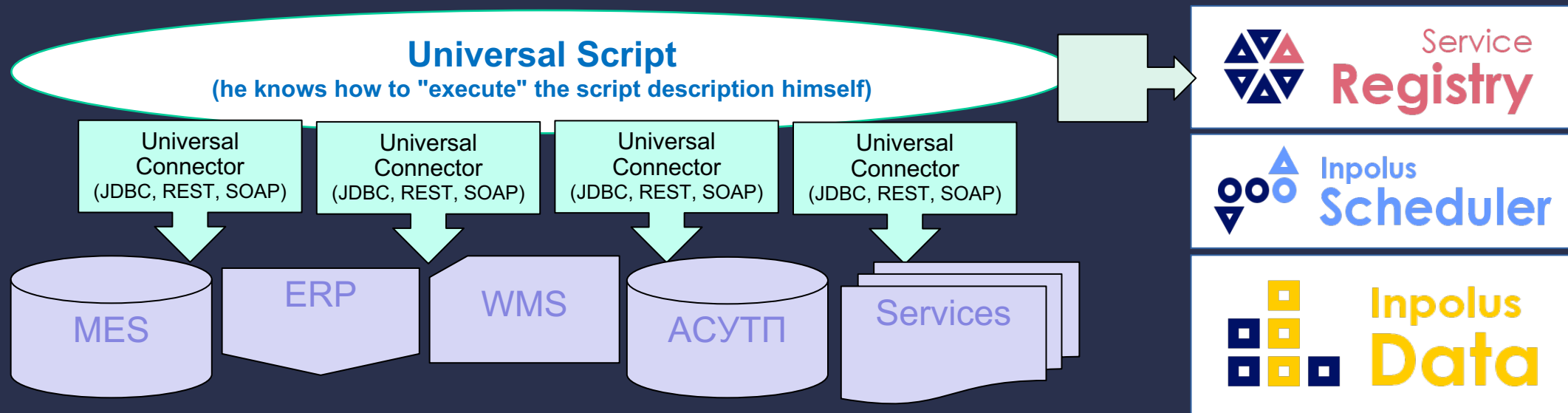
Unified corporate task planner INPOLUS® Scheduler

- Provision of standard platform services: logging, tracing, statistics collection, monitoring.
- Providing the ability to scale both vertically and horizontally.
- Simplify support and problem analysis.
- Service execution management based on system events and preset schedules.
- A centralized source of information about all launch schedules, execution protocols, tracing, and statistics.
- Registered in the registry of domestic software.



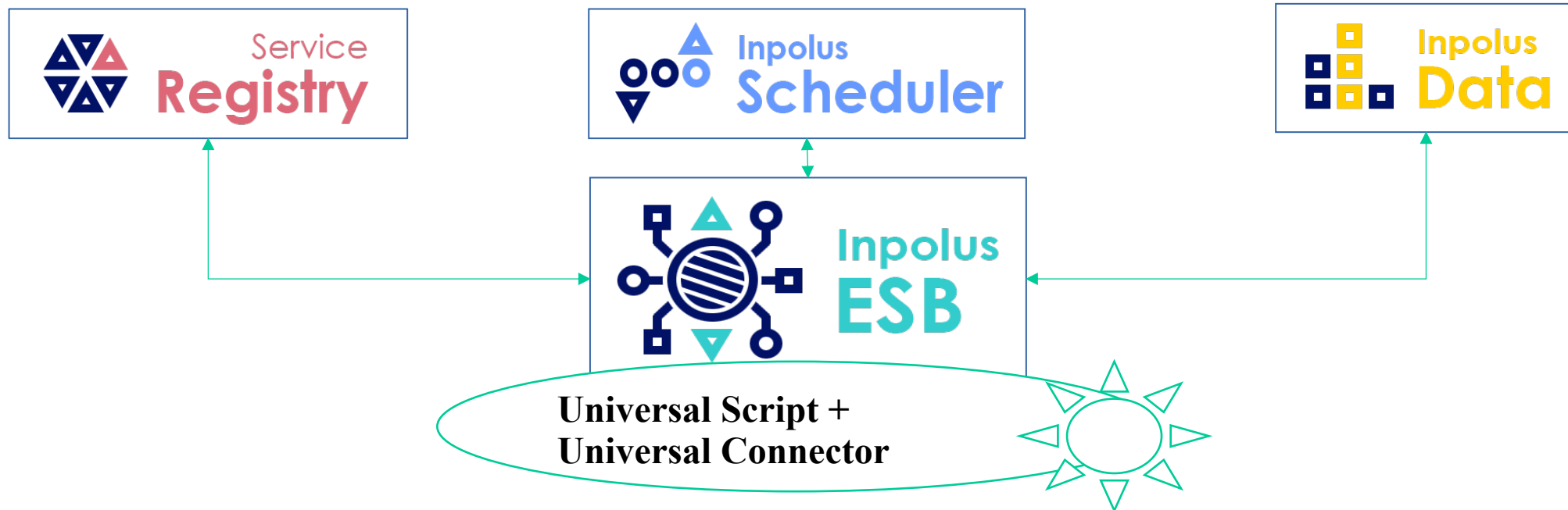
Universal Script – quick launch of integration scenarios

Thanks to the **Universal Script** and **Universal Connector** mechanisms, the development of a significant part of the processes using Inpolus Registry and Inpolus Scheduler can be performed using declarative settings of source and recipient systems in Inpolus Registry and execution schedules in Inpolus Scheduler without the need to involve developers.



The platform's products are integrated with each other

- The use of Inpolus Registry, Inpolus Scheduler and Inpolus Data is available for any process developed with INPOLUS® ESB tools.
- Using Inpolus Registry, Inpolus Scheduler and Inpolus Data in addition to the bus allows you to significantly optimize the development and execution of integration processes.
- Thanks to the Universal Script and Universal Connector mechanisms, the development of a significant part of the processes using Inpolus Registry, Inpolus Scheduler can be performed using declarative settings of source and recipient systems in Inpolus Registry and execution schedules in Inpolus Scheduler.



Additional features of the platform



Monitoring

Provides monitoring of system components, application services, and integration scenarios (Prometheus, Grafana).



Logging and tracing

Allows you to organize a single logging system, flexible and convenient search (Graylog) and performance analysis (OpenTelemetry, Jaeger).

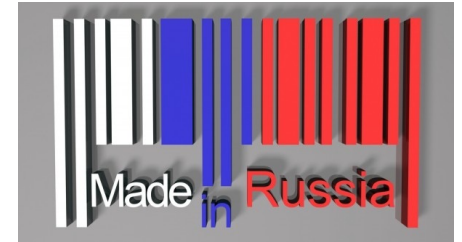


Automatic assembly

Automatic assembly of the complete distribution package of all solution components in the form of an archive ready for installation, automatic installation of changes in the test circuit and "manual" start of installation in the industrial circuit, replacement of "sensitive" parameters (logins, passwords, urls, etc.) with data from Vault during installation (GitLab).

Implementation

1. Implementation as a new solution.
2. Implementation to replace the existing solution (import substitution):
 - Without porting existing integration scenarios.
 - With the transfer (migration to a new platform) of existing integration scenarios.



- On your own.
 - By the partner company.
 - By Inpolus specialists.
-
- Monolithic (all scenarios are written and executed using the INPOLUS® Integration Platform).
 - Hybrid (all scenarios related to Critical Information Infrastructure are written and executed using the INPOLUS® Integration Platform, not related to CII by other means).

Advantages of the platform and about the company

- Enterprise level.
- It has its own ECO environment.
- Provides compatibility with major operating systems
- Proven level of performance and reliability

Inpolus LLC is a Russian IT company since 2009, specializing in the following areas:

- License delivery and technical support of the integration platform - INPOLUS® Integration Platform
- Development of specialized application services and systems based on the principles of service-oriented architecture (SOA)
- Artificial intelligence projects.
- Provision of technical support services



INPOLUS® Integration Platform won first place in the "Best IT Solutions for the Metallurgical Industry" competition in the "Infrastructure" category

About the company

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More information:



<https://www.inpolus.ru/platform/>