# FuelSphere

Airline Fuel Lifecycle Management Solution

## Solution Overview

FuelSphere is a comprehensive airline fuel management solution that addresses the complete fuel lifecycle from strategic planning through financial closure. Built on SAP Business Technology Platform and integrated with SAP S/4HANA, it enables airlines to automate fuel operations, capture real-time delivery data, and streamline invoice verification while maintaining full compliance and audit trails.

**Key Business Benefits**

- Reduce accounts payable processing time from days to hours
- Eliminate manual fuel order creation with schedule-driven automation
- Achieve 100% digital proof of delivery with electronic signatures
- Gain flight-level cost visibility for route optimization decisions
- Ensure regulatory compliance with built-in controls and audit trails

## Four Core Applications

### Planning

Annual fuel demand forecasting based on flight schedules and aircraft assignments. Scenario modeling with price sensitivity analysis. Budget versioning with SAP Analytics Cloud integration for executive reporting.

### Fulfillment

Automated fuel order creation triggered by flight schedule integration. Milestone tracking from request through acknowledgement to completion. Supplier dispatch via SAP Integration Suite with real-time status updates.

### Operations

Digital fuel ticket capture with electronic proof of delivery. Real-time fuel burn and remaining-on-board tracking via ACARS and Electronic Flight Bag integration. Mobile-enabled station coordinator workflows.

### Invoicing

Automated three-way matching: purchase order, electronic proof of delivery, and supplier invoice. Tolerance-based exception handling with dual approval workflows. Direct journal posting to SAP S/4HANA Finance.

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## SAP S/4HANA Integration

FuelSphere integrates natively with SAP S/4HANA using standard APIs, ensuring seamless data flow between fuel operations and core finance processes. All integrations follow SAP Clean Core principles with no modifications to the S/4HANA system.

| Integration Point | SAP API | Direction |
|---|---|---|
| Supplier Master Data | API_BUSINESS_PARTNER | S/4HANA → FuelSphere |
| Material/Product Data | API_PRODUCT_SRV | S/4HANA → FuelSphere |
| Purchase Orders | API_PURCHASEORDER_PROCESS_SRV | FuelSphere → S/4HANA |
| Goods Receipts | API_MATERIAL_DOCUMENT_SRV | FuelSphere → S/4HANA |
| Supplier Invoices | API_SUPPLIERINVOICE_PROCESS_SRV | FuelSphere → S/4HANA |
| Journal Entries | API_JOURNALENTRYITEMBASIC_SRV | FuelSphere → S/4HANA |

## External System Connectivity

| System | Purpose |
|---|---|
| ACARS | Automated fuel burn data from aircraft systems |
| Electronic Flight Bag | Pilot-entered fuel data and flight information |
| Fuel Suppliers | Fuel delivery coordination and confirmation |
| Platts / Argus (via SAP CPE) | Market price indices for fuel pricing |
| SSIM / Flight Schedules | Flight schedule data for demand planning |

## Technical Requirements

| Component | Requirement |
|---|---|
| SAP S/4HANA | Public Cloud, RISE with SAP, or On-Premise (1909+) |
| SAP BTP | Cloud Foundry environment with HANA Cloud entitlement |
| SAP Integration Suite | Required for external system connectivity |
| Browser Support | Chrome, Edge, Safari (latest versions) |
| Mobile | iOS 15+ / Android 12+ for station coordinator app |

## Get Started

FuelSphere is available on the SAP Store with per-aircraft subscription pricing. Contact Diligent Global for a personalized demonstration and to discuss your airline's specific requirements.

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| **SAP Store** | store.sap.com (search 'FuelSphere') |
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