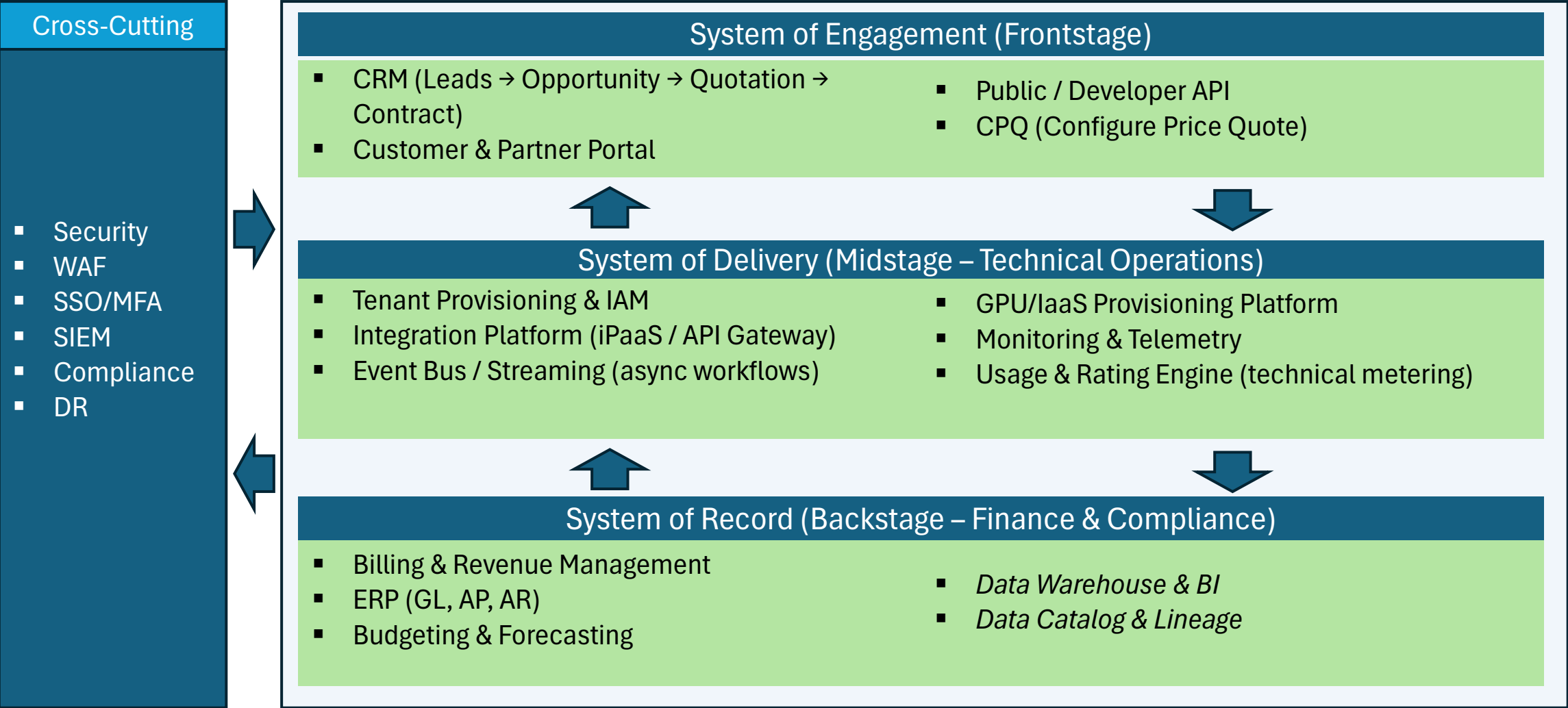# DTI Integrated System Architecture

– Material Paper –
Dec 11, 2025

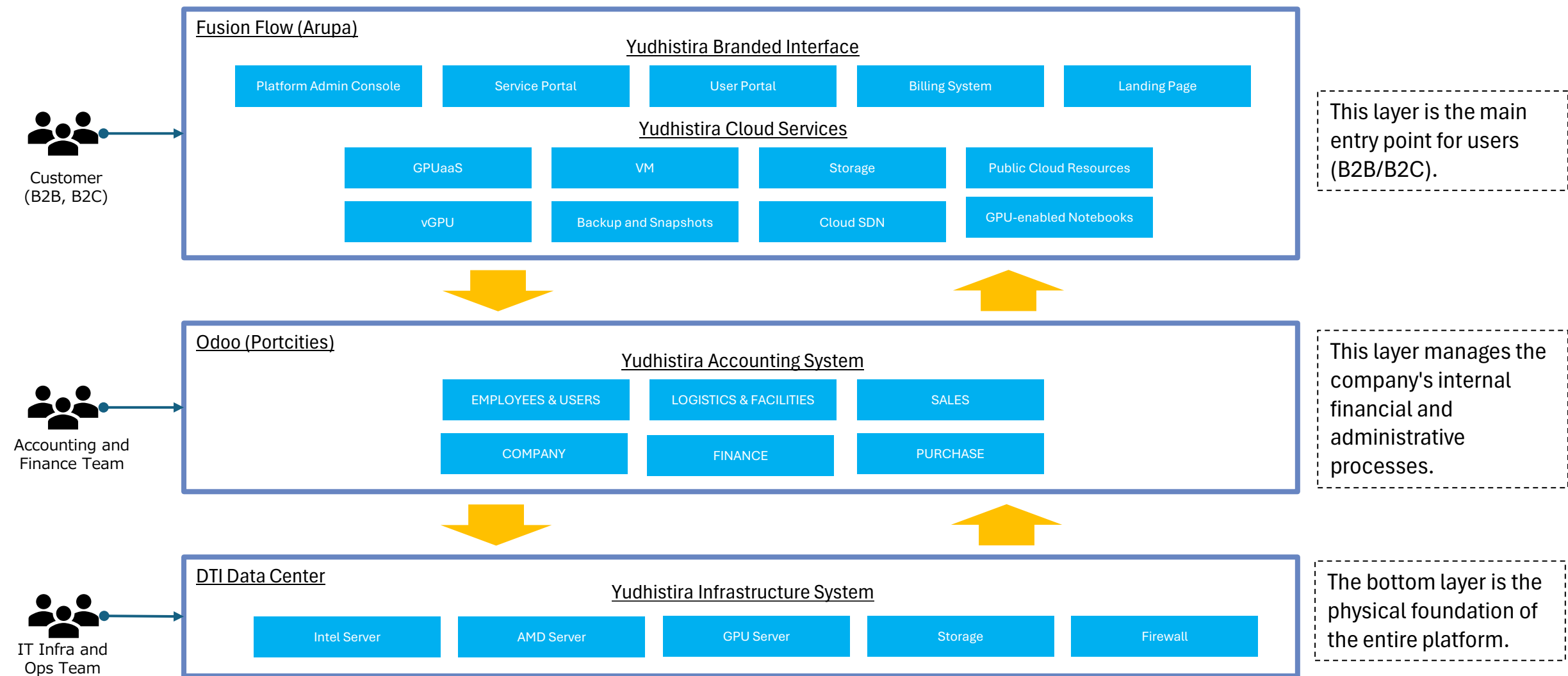# Future-State Architecture (Functionality Best Practice)

This future architecture is divided into three main layers.
1. At Frontstage, we have CRM, customer/partner portals, CPQ, and public APIs—all of which interact directly with customers.
2. At Midstage, this is the operational hub: provisioning & IAM, API Gateway/iPaaS, event bus for workflows, GPU/IaaS provisioning platforms, monitoring, and usage metering.
3. Meanwhile, Backstage serves as the foundation for finance & compliance, encompassing billing, ERP, budgeting, as well as a data warehouse and data catalog.

Cross-Cutting

- Security
- WAF
- SSO/MFA
- SIEM
- Compliance
- DR

System of Engagement (Frontstage)

- CRM (Leads → Opportunity → Quotation → Contract)
- Customer & Partner Portal
- Public / Developer API
- CPQ (Configure Price Quote)

System of Delivery (Midstage – Technical Operations)

- Tenant Provisioning & IAM
- Integration Platform (iPaaS / API Gateway)
- Event Bus / Streaming (async workflows)
- GPU/IaaS Provisioning Platform
- Monitoring & Telemetry
- Usage & Rating Engine (technical metering)

System of Record (Backstage – Finance & Compliance)

- Billing & Revenue Management
- ERP (GL, AP, AR)
- Budgeting & Forecasting
- *Data Warehouse & BI*
- *Data Catalog & Lineage*

Yudhistira - System Diagram

The diagram below illustrates the plan of architecture the Yudhistira platform as an integrated ecosystem of cloud services, business operations, and data center infrastructure.

Customer (B2B, B2C)

Fusion Flow (Arupa)

Yudhistira Branded Interface

| Platform Admin Console | Service Portal | User Portal | Billing System | Landing Page |

Yudhistira Cloud Services

| GPUaaS | VM | Storage | Public Cloud Resources |
| vGPU | Backup and Snapshots | Cloud SDN | GPU-enabled Notebooks |

> This layer is the main entry point for users (B2B/B2C).

Accounting and Finance Team

Odoo (Portcities)

Yudhistira Accounting System

| EMPLOYEES & USERS | LOGISTICS & FACILITIES | SALES |
| COMPANY | FINANCE | PURCHASE |

> This layer manages the company's internal financial and administrative processes.

IT Infra and Ops Team

DTI Data Center

Yudhistira Infrastructure System

| Intel Server | AMD Server | GPU Server | Storage | Firewall |

> The bottom layer is the physical foundation of the entire platform.

Domain Ownership Model (Best Practice)

To avoid overlap, need to separated the domains into three areas: CRM focuses on the customer and sales lifecycle, ERP manages all financial aspects, and the provisioning platform handles technical operations like resource provisioning and usage metering.

CRM Domain (Front-Office – Customer Lifecycle)	Provisioning Platform Domain (Technical Operations)	ERP Domain (Back-Office – Finance & Revenue)
• Customer Master (profile, account information) • Leads → Opportunity → Quotation • Contract Header (non-financial attributes) • Sales pipeline, tasks, activities • Customer portal (business-facing)	• Tenant management • Resource provisioning (GPU, VM, storage, network) • Access Control (IAM, roles, quota) • Usage Metering & Rating (technical usage only) • Monitoring, logging, alerting • Technical operations portal (Ops dashboard)	• Product & Pricing Master (commercial catalog) • Invoice & Tax Invoice • Accounts Receivable (AR) • Accounts Payable (AP) • General Ledger (GL) • Payment and Receipt • Corporate financial reporting • Revenue recognition
• CRM only manages sales and customer relationships. • It does not manage AR/AP/GL, invoices, or payments.	• Final pricing/billing remains in the ERP—not the provisioning platform. • Provisioning only sends raw usage data.	• ERP handles all financial aspects, not CRM.

CRM Apps

Provisioning Apps

ERP Apps

THANKS