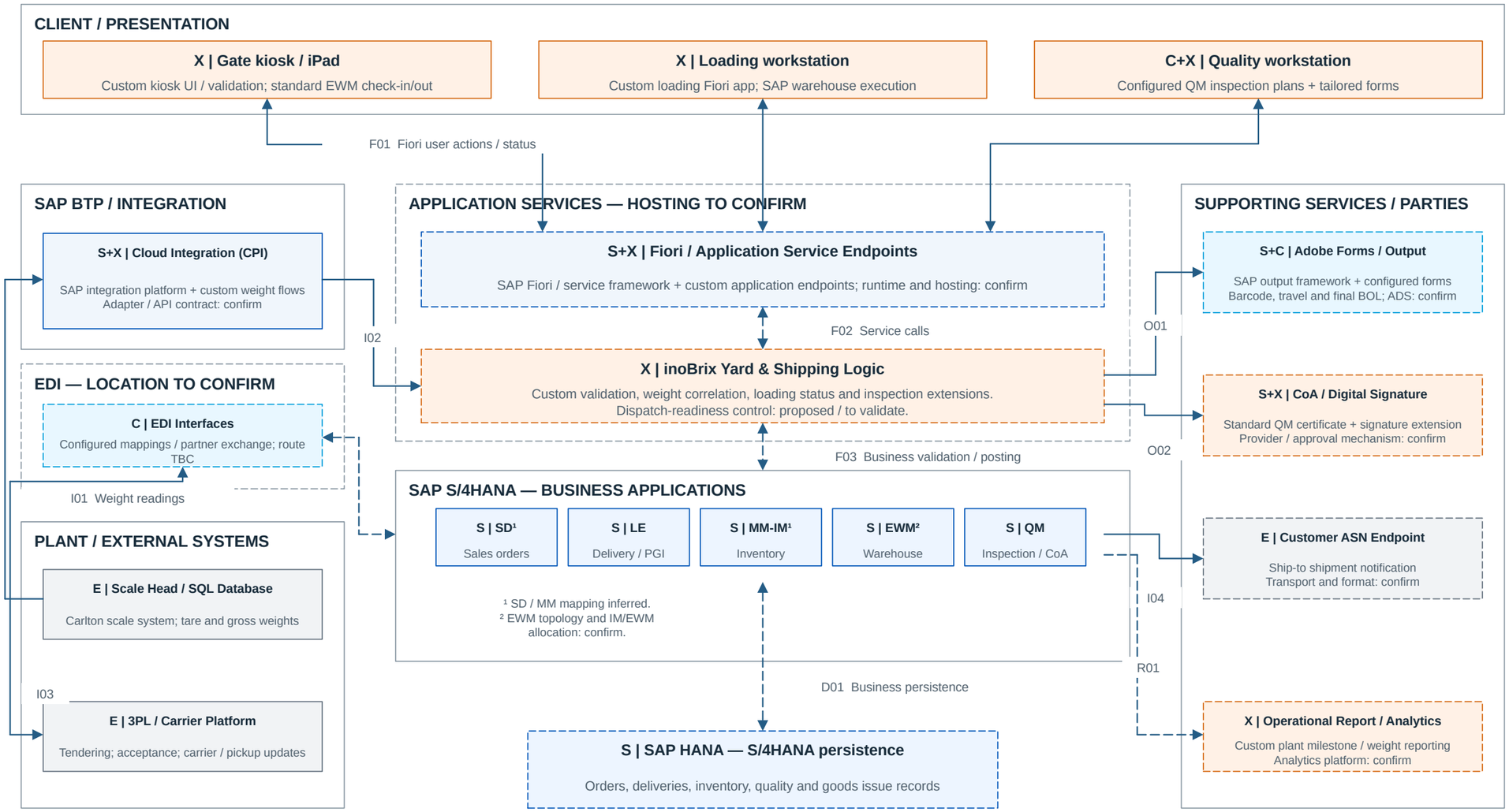
Technical architecture



S | SAP Standard | **C | Configured SAP** | **X | inoBrix Custom** | **E | External / Physical**

Combined codes identify mixed components. Colors describe functionality; dashed boxes / lines identify technical placement or binding to confirm.

I01 Scale readings I02 Weight API I03 3PL EDI I04 Customer ASN after PGI O01 Forms / BOL O02 CoA / signature D01 Persistence R01 Reporting

Indicative classification — validate against the deployed SAP edition, licensed modules, configuration and custom code.
Standard platform services do not make custom apps or integration flows SAP-standard functionality.

Logical architecture only. Hosting, EWM topology, identity, API protocols, signature provider and analytics deployment remain to be confirmed.

Interface register and architecture decisions

ID	Source → Destination	Business data / purpose	Trigger	Technical binding	Failure control to define
F01	Plant users ↔ Fiori apps	Barcode, loading and inspection actions	User action	Fiori documented; hosting and identity TBC	Access, validation and session handling
F02	Fiori ↔ Custom logic	Read / update operational status	User action	Gateway / OData / endpoint placement TBC	API errors, timeout and repeat actions
F03	Custom logic ↔ S/4 modules	Validation, delivery updates and PGI	Business event	Business API / authorization / ownership TBC	Locks, posting failure and reconciliation
I01	Scale SQL system → CPI	Empty / loaded truck weight	Weighment	SQL / API adapter and correlation key TBC	Missing, duplicate or stale weight
I02	CPI → S/4HANA	Weight update against shipment	Weight received	Inbound API documented; contract TBC	Retry, idempotency and exception owner
I03	3PL ↔ SAP via EDI	Delivery / ASN out; carrier updates in	Delivery / carrier event	EDI routing, standard and transport TBC	Acknowledgment, replay and mismatch
I04	SAP → Customer endpoint	Shipment ASN	After successful PGI	Format, transport and recipient mapping TBC	Delivery failure and resend policy
O01	SAP / App logic → Forms	Barcode document and BOL output	Check-in / PGI	Adobe form documented; ADS framework TBC	Render failure, print failure and reprint
O02	QM / App logic → Signature	CoA generation, approval and signing	Quality approval	Provider, signature and approval roles TBC	Rejected / expired approval and audit trail
D01	S/4HANA ↔ HANA	Transactional business records	Transaction	Logical persistence; topology TBC	Consistency, recovery and retention
R01	SAP records → Reporting	Weights, milestones, CoA / PGI status	Monthly report	Analytics platform / extract mechanism TBC	Incomplete data, refresh and reconciliation

Open Decisions — No Implementation Selection Implied

AD01 Application deployment	Confirm Fiori frontend, ABAP / BTP runtime and where the custom services execute.
AD02 Warehouse topology	Confirm embedded or decentralized EWM, and the allocation of IM, EWM and shipping responsibilities.
AD03 Integration ownership	Confirm EDI middleware, scale adapter, API contracts, integration monitoring and support ownership.
AD04 Security and connectivity	Confirm identity provider, user / service roles, certificates, network path and plant-to-cloud connectivity.
AD05 Operational resilience	Confirm correlation IDs, retry and replay rules, duplicate protection, alerting and reconciliation.
AD06 Documents and analytics	Confirm Adobe / output framework, signature provider, approvals and reporting platform.

Resolve these decisions with the solution / SAP Basis / integration teams before issuing a deployment architecture.