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DESIGN STUDY

Global procurement desk: one order path across every line carried, for a construction group

Complete design on current platforms

CAPABILITY	SETTING	DOCUMENT
Supply Chain & Integration	Construction group	INT-004
VERSION	DATE	
1.3	Oct 10, 2026	

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Document control

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Sign-off	"An engagement under this design is signed by the practice lead before any build proceeds."		

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CONVENTIONS

Source tags. [S] figure read from the vendor's own current page on Sep 18, 2026 · [S*] figure from the vendor's page summary where the page itself could not be opened · [A] design assumption · [T] design target (the record's outcome figure and anything derived from it). Every figure carries one tag. No figure comes from any prior engagement, file or asset. A row with more than one tag is counted once: as a published figure if any tag is [S] or [S*], otherwise as an assumption if any tag is [A], otherwise as a design target.

Table 1. Revision history

Date	Version	Change
Sep 18, 2026	1.0	First issue.
Sep 20, 2026	1.1	Public implementations added; figures reconciled with published sources.
Sep 27, 2026	1.2	Figures and platform details rechecked against published sources.
Oct 10, 2026	1.3	Approval line now reads: approved by the Founder, issued by Symbeeo. Avinash Dhinakaran remains the author.

1 · Scope

Who it is for. The commercial director or the project controls lead of a general contractor delivering government data-center fit-outs, who receives IT hardware quotations in four vendor formats from several resellers per site and wants one order desk, one quotation format and one stated lead time per line.

Typical buyer [A]. A general contractor delivering government data-center fit-outs. 14 project sites in two countries; each site takes a network, compute and firewall package sized from a site class; 60 orders a year across the 14 sites [A].

What is in. The order desk process: request intake, one quotation format, order placement with each vendor, lead-time statement per line, delivery to 14 sites, receipt confirmation, change orders. Line card: Cisco, Dell, HPE, Fortinet. **What is out.** Site design (the contractor's engineers own the bill of materials); installation; support contracts after handover (INT-005 covers the register); customs brokerage, which is a nominated broker per country [A].

Assumptions. Three site classes, small, medium, large, each with a fixed bill of materials [A]. Two countries, each with its own import route and broker [A]. Government delivery windows are fixed dates set by the fit-out program [A].

Related documents, read Sep 18, 2026. Cisco Catalyst 9300 Series data sheet (https://www.cisco.com/c/en/us/products/collateral/switches/catalyst-9300-series-switches/nb-06-cat9300-ser-data-sheet-cte-en.html) · Dell PowerEdge R7725 product page (https://www.dell.com/en-us/shop/dell-poweredge-servers/new-poweredge-r7725-rack-server/spd/poweredge-r7725/pe_r7725_tm_vi_vp_sb) · HPE ProLiant Compute DL380 Gen12 product page (https://www.hpe.com/us/en/products/compute/proliant/dl380-gen12.html) · FortiGate 120G Series data sheet page (https://www.fortinet.com/resources/data-sheets/fortigate-120g-series) · FortiCare Technical Support and RMA Services solution brief (https://www.fortinet.com/content/dam/fortinet/assets/solution-guides/sb-forticare-technical-support-and-rma-services.pdf) · Cisco Products End-of-Life Policy, page dated Feb 9, 2026 (https://www.cisco.com/c/en/us/products/eos-eol-policy.html) · Fortinet customer service tip, Product Life Cycle Information on Fortinet products, Fortinet Community (https://community.fortinet.com/customer-service-42/customer-service-tip-product-life-cycle-information-on-fortinet-products-96482).

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1c · Public implementations this design follows

Each row is labeled. **Public deployment**: a named operator's real deployment, published and dated by the operator, its vendor or a partner, used where one exists. **Our own design**: the dated vendor or standards documentation this design was built from, where no public deployment of the design exists. Labels and dates checked Sep 27, 2026.

Table 2. Public implementations this design follows

Implementation	Who published it · date	What it settles for this design	URL
Our own design, built from published documentation. Cisco Products End-of-Life Policy	Cisco · page dated Feb 9, 2026; applies to notices from Sep 29, 2022	The notice the desk works to on a Cisco line: end-of-sale announced typically 6 months before the end-of-sale date; last hardware ship 3 months after it; new support attach up to 1 year after it; 5 years of TAC and replacement parts from it	https://www.cisco.com/c/en/us/products/eos-eol-policy.html
Our own design, built from published documentation. Fortinet product life cycle milestones	Fortinet Community, customer service · posted Aug 15, 2020; read Sep 20, 2026	The notice on a Fortinet line: at least 90 days before End of Order; hardware End of Support generally 60 months after End of Order; last service extension 12 months before End of Support; the lifecycle list at support.fortinet.com carries an RSS feed the desk can subscribe to	https://community.fortinet.com/customer-service-42/customer-service-tip-product-life-cycle-information-on-fortinet-products-96482
Our own design, built from published documentation. FortiCare Technical Support and RMA Services	Fortinet · Feb 25, 2024, 2126701-A-0-EN	R10 as published: Premium 1 h critical response and next-business-day advanced replacement; Elite 15 min	https://www.fortinet.com/content/dam/fortinet/assets/solution-guides/sb-forticare-technical-support-and-rma-services.pdf

The end-of-sale failure row in §5 carries the two vendors' published notice periods.

No public, dated record of a construction group's single procurement desk across several vendors was found on Sep 27, 2026; every row is documentation used to build our own design.

2 · Requirements register

Table 3. Requirements register

#	Requirement	Value	Source
R1	Order desks	1; every request from every site enters the same queue	[T]
R2	Quotation formats	1; the same columns for a Cisco, Dell, HPE or Fortinet line	[T]
R3	Sites and countries	14 sites, 2 countries	[T]
R4	Order volume	60 orders a year; 3 site classes	[A]

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#	Requirement	Value	Source
R5	Lead time	stated per line on the quotation and held; a miss is a logged exception	[T]
R6	Quotation turnaround	5 working days from complete request to issued quotation	[A]
R7	Network line	Cisco Catalyst 9300 family: C9300X-48HX, 48 × 10G multigigabit, 90 W UPOE+, StackWise-1T; C9300L-48P-4X, 48 × 1G PoE+, 4 × 10G uplinks	[S] Cisco
R8	Compute line, Dell	Dell PowerEdge R7725, 2U, 2 × AMD EPYC 9005 (up to 192 cores per socket), 24 DIMM slots, iDRAC10	[S] Dell
R9	Compute line, HPE	HPE ProLiant Compute DL380 Gen12, 2U, 2 × Intel Xeon 6, iLO 7	[S] HPE
R10	Firewall line	Fortinet FortiGate 120G series with FortiCare Premium: 1 h critical response, advanced replacement next business day	[S] Fortinet model family; [S] FortiCare brief
R11	Delivery record	proof of delivery with serials per line at every site	[A]
R12	Change orders	one register per project; every quantity or model change dated and approved	[T]
R13	Currency and tax	quotation in the site country's currency with duty and tax shown as lines	[A]
R14	Vendor status	order acknowledgment and ship date captured per line from each vendor	[A]

Fourteen rows; four carry a vendor figure, five are design assumptions, five are design targets.

3 · Architecture overview

```
intake ──→ configuration ──→ burn-in ──→ QA gates ──→ labeling ──→ dispatch
(request   (bill of materials  (vendor      (G1 quote    (site, project,  (delivery,
 from site  by site class,       order,       G2 order     serial per      proof of
 class)     one quotation)       acknowledged G3 receipt)  line)           delivery)
                                 ship date)
```

Figure 1. Procurement order flow

The staging flow from INT-003 applied to an order rather than a rack: "burn-in" here is the vendor fulfillment window in which the stated lead time is tested. Each stage leaves one record. The parts table is the QA checklist.

Table 4. Architecture overview

Gate	Check performed	Record produced
Intake	request names a site, a site class and a required-on-site date; requester authorized	request record with request number

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Gate	Check performed	Record produced
Configuration	bill of materials generated from the site class; every line has vendor, part number, quantity, unit price, currency, lead time (R5), duty line (R13)	quotation in the one format (R2)
Burn-in (fulfillment)	order placed with each vendor; acknowledgment and ship date captured (R14); lead time compared with the quoted figure	order record per vendor per line
QA gate G1 quotation	site class bill matches the site's engineering release; no line without a lead time	G1 checklist
QA gate G2 order	vendor acknowledgment matches the quotation line for line; any variance is a change order (R12)	G2 diff
QA gate G3 receipt	serials on the delivery note match the order; damage noted; site signs	proof of delivery with serials (R11)
Labeling	project number, site and request number on every carton and on the delivery note	labeled shipment
Dispatch	broker for the country engaged; delivery window booked with the site; carrier tracking captured	dispatch record

4 · Design by subsystem

4.1 Intake.

One request form, one queue, one request number per site request [T]. A request is complete when it names site, site class and required-on-site date; an incomplete request is returned, not queued [A].

4.2 Configuration and quotation.

Three site-class bills of materials held as templates [A]. Network lines from the Cisco Catalyst 9300 family: C9300X-48HX where 10G multigigabit and 90 W UPOE+ are required, C9300L-48P-4X for 1G PoE+ closets [S]. Compute lines from Dell PowerEdge R7725 [S] or HPE ProLiant Compute DL380 Gen12 [S], the choice fixed per project by the contractor's engineers [A]. Firewall lines from the FortiGate 120G series [S] with FortiCare Premium [S]. The quotation has the same columns whatever the vendor (R2) and a lead time per line (R5).

4.3 Fulfillment.

Orders placed with each vendor's channel in the site country [A]. Acknowledgment and ship date captured per line (R14). The lead time on the quotation is the one held; a vendor date later than it is an exception logged against the vendor, not silently rescheduled [T].

4.4 QA gates.

G1 before the quotation leaves the desk, G2 on vendor acknowledgment, G3 at receipt. G2 is where most change orders originate: a substituted part number or a split shipment is a change order (R12), approved by the project before it is accepted [A].

4.5 Labeling.

Every carton and delivery note carries project, site and request number so the site can match a delivery to a request without opening a box [A].

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4.6 Dispatch and delivery.

Broker per country [A]; delivery window booked with the site against the fit-out program's date [A]; proof of delivery with serials (R11) closes the request.

4.7 Reporting.

Per project: orders, lines, quoted lead time versus achieved, change orders with reason, deliveries on time. Per vendor: lead-time accuracy [T].

5 · Failure behavior

Table 5. Failure behavior

Failure	Behavior	Source
Vendor acknowledges a later date than quoted	exception logged; site and project told the same day; alternative line offered where the site class allows	[T]
Part number end-of-sale at order time	substitution proposed as a change order; quotation re-issued; lead time restated; the desk expects the notice 6 months ahead on Cisco lines and 90 days ahead on Fortinet lines	[A]; notice periods [S] (`https://www.cisco.com/c/en/us/products/eos-eol-policy.html`; `https://community.fortinet.com/customer-service-42/customer-service-tip-product-life-cycle-information-on-fortinet-products-96482`)
Customs hold in one country	broker engaged; hold logged against the line; delivery window rebooked	[A]
Delivery serials do not match the order	site refuses the mismatched lines; G3 fails; vendor return opened	[A]
Site date moved by the program	request amended; new required-on-site date; lead time re-checked against it	[A]

6 · Limits

- Lead times are vendor statements at quotation time; the desk holds them by exception handling, not by controlling the vendor.
- Three site classes cover the fit-out program; a site outside them is engineered, not templated.
- Pricing, duty and currency rules are per country and per contract and are not specified here.
- FortiGate 120G series throughput figures were not read from the vendor page and are not stated here; the model family is the only Fortinet hardware figure carried.
- 60 orders a year is an assumption; the desk's staffing follows the real volume.

7 · Lessons learned

None yet — this is a design study; populated after the first build against it.

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8 · The author

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Signed off by Edwin Ozer, Founder.

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SYMBEEO

Each vendor's tool shows you their option. We show you all of them against one requirement.

Compared. Then Delivered.

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Figures are as published by their sources on the dates given in this document; figures marked [A] are assumptions.

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