

Data collection worksheets

Draw Secure Manufacturing Network Diagrams: data collection worksheets

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1. Draw what you have. Every worksheet has a few columns marked * : that is the minimum to draw the page.
2. Fill a row even when you only know part of it. Put what you know, and set Confidence.
3. Confidence codes: V verified (seen this year), R records (from paperwork), A assumed (best guess), U unknown (exists, details missing).
4. Every A or U row gets a gap ID (G-001, G-002 ...) and a row in WS-11. That is your plan to improve.
5. Collect from paperwork and backups first, then walk the cabinets (WS-09). Don't scan control networks; photograph, don't unplug.
6. Names: if yours are messy, propose clean ones in WS-10 before you draw (book Appendix H).
7. Columns for WS-02 to WS-04 follow NetBox import fields, so a filled sheet becomes import files (book Appendix F).

ID	Worksheet	Feeds
WS-01	Site, areas and zones	Page 1 Overview, page 2 Logical, title blocks. Book ch. 2-3
WS-02	Network devices	Page 3 Physical, asset register, page 3b modules & power. Book ch. 5-6
WS-03	VLANs, subnets and gateways	Page 2 Logical. Book ch. 4
WS-04	Links, cables and optics	Page 3 Physical, page 3b Hardware and optics, link register. Book ch. 5-6
WS-05	Rings, pairs and stacks	Page 5 Failover. Book ch. 7
WS-06	Wireless	Page 3d Wireless. Book ch. 8
WS-07	Outside connections	Page 1 Overview, page 6 Multi-site WAN. Book ch. 11, 14
WS-08	Flows	Page 4 Traffic flows, page 7 Flow register. Book ch. 9-10
WS-09	Cabinet walkdown	Checks WS-02 and WS-04 on site. Book ch. 5, 15
WS-10	Name crosswalk	Every page. Book Appendix H
WS-11	Gaps and improvement plan	Every page: the Plan to improve this page note. Book ch. 13, 15
WS-12	Audit evidence	Sheet 3f Audit evidence (NetBox builds). Book ch. 10

WS-01 Site, areas and zones

Feeds: Page 1 Overview, page 2 Logical, title blocks. Book ch. 2-3. **Ask:** Plant manager, controls engineer, IT lead. **Sources:** Site plan, old drawing, integrator handover packs, firewall zone names.

Site: Collected by: Date: Confidence: V verified · R records · A assumed · U unknown. Every A or U row gets a gap ID (WS-11). Red columns are the minimum to draw.

[illegible]

WS-02 Network devices

Feeds: Page 3 Physical, asset register, page 3b modules & power. Book ch. 5-6. **Ask:** IT lead, controls engineer, integrator, purchasing. **Sources:** Asset list, purchase orders, support contracts, config backups on file, cabinet photos.

Site: Collected by: Date: Confidence: V verified · R records · A assumed · U unknown. Every A or U row gets a gap ID (WS-11). Red columns are the minimum to draw.

[illegible]

WS-03 VLANs, subnets and gateways

Feeds: Page 2 Logical. Book ch. 4. **Ask:** IT lead (core and firewall), controls engineer (cell VLANs). **Sources:** Switch config backups on file, firewall interface export, IP spreadsheet, DHCP scopes.

Site: Collected by: Date: Confidence: V verified · R records · A assumed · U unknown. Every A or U row gets a gap ID (WS-11). Red columns are the minimum to draw.

[illegible]

WS-04 Links, cables and optics

Feeds: Page 3 Physical, page 3b Hardware and optics, link register. Book ch. 5-6. **Ask:** Installer, maintenance electricians, IT lead. **Sources:** Cable schedule or as-built, labels on both ends, config backups (port-channels), cabinet walkdown (WS-09).

Site: Collected by: Date: Confidence: V verified · R records · A assumed · U unknown. Every A or U row gets a gap ID (WS-11). Red columns are the minimum to draw.

Cable label	Device A	Port A	Device B	Port B	Media	Speed	Optic part number	Optic serials	Patch panel ports	Port-channel / LAG	VLANs carried	Confidence	Gap ID	Notes
Printed on both ends; U if none		Full interface name from the config			Copper, single-mode, multimode, radio		Each end, from the module label or show inventory	Each end, from show inventory	Panel and port at each end, if it is patched		Trunk list or access VLAN	V verified · R records · A assumed · U unknown	G-nnn for every A or U row (see WS-11)	Anything odd, and where you found it
S01-CBL-055	S01-OT-CORE-1	TwentyFiveGigE1/0/17	S01-C02-IE01	GigabitEthernet1/1	Single-mode	1G	GLC-LX-SM-RGD				520,521,529	V		

WS-05 Rings, pairs and stacks

Feeds: Page 5 Failover. Book ch. 7. **Ask:** Controls engineer (rings), IT lead (pairs, stacks). **Sources:** Config backups, integrator handover pack, vendor commissioning report.

Site: Collected by: Date: Confidence: V verified · R records · A assumed · U unknown. Every A or U row gets a gap ID (WS-11). Red columns are the minimum to draw.

[illegible]

WS-06 Wireless

Feeds: Page 3d Wireless. Book ch. 8. **Ask:** IT lead, controls engineer (AGVs, tablets), radio installer. **Sources:** Controller export, radio commissioning sheets, site survey report.

Site: Collected by: Date: Confidence: V verified · R records · A assumed · U unknown. Every A or U row gets a gap ID (WS-11). Red columns are the minimum to draw.

SSID or link name	Type	Zone it lands in	VLAN	Security	Switching	Bands	Broadcast on	Guest controls	Managed by	APs or ends	Link band · channel · width	Who uses it	Confidence	Gap ID	Notes
	SSID or point-to-point bridge	From WS-01		e.g. WPA3-Enterprise, WPA2-PSK	Tunneled to controller, local, bridged (WGB)	2.4 / 5 / 6 GHz	Areas or AP group	Client isolation, portal	Controller, cloud or firewall, with its name		Point-to-point links only		V verified · R records · A assumed · U unknown	G-nnn for every A or U row (see WS-11)	Anything odd, and where you found it
OT-MOBILE	SSID	OT ops	350 OT-WLAN	WPA3-Enterprise, EAP-TLS	Tunneled (local mode)	5 GHz	Plant APs		Controller S01-OT-WLC	S01-AP-OT-01..03		Plant tablets and scanners	V		

WS-07 Outside connections

Feeds: Page 1 Overview, page 6 Multi-site WAN. Book ch. 11, 14. **Ask:** IT lead, finance (invoices), each vendor with remote access. **Sources:** Carrier contracts and invoices, firewall interface export, vendor access agreements, remote access gateway user list.

Site: Collected by: Date: Confidence: V verified · R records · A assumed · U unknown. Every A or U row gets a gap ID (WS-11). Red columns are the minimum to draw.

Connection	Provider or vendor	Circuit ID / account	Lands on device	Zone it lands in	Who can use it	How access is approved	Bypass suspected?	Confidence	Gap ID	Notes
Internet, WAN, vendor remote access, cloud, cellular router ...		Copied from the contract, never invented	Where it terminates on site			Ticket, time window, recorded session ...	Second NIC, cellular modem, own router	V verified · R records · A assumed · U unknown	G- <i>nnn</i> for every A or U row (see WS-11)	Anything odd, and where you found it
Palletizer vendor remote access			S01-IDMZ remote access gateway	IDMZ	Vendor service team			V		

WS-08 Flows

Feeds: Page 4 Traffic flows, page 7 Flow register. Book ch. 9-10. **Ask:** Controls engineer, IT lead, application owners, vendors. **Sources:** Firewall rule export, application documentation, vendor requirements, change records.

Site: Collected by: Date: Confidence: V verified · R records · A assumed · U unknown. Every A or U row gets a gap ID (WS-11). Red columns are the minimum to draw.

[illegible]

WS-09 Cabinet walkdown

Feeds: Checks WS-02 and WS-04 on site. Book ch. 5, 15. **Ask:** Walk it with a maintenance electrician, during a safe window. **Sources:** Your eyes, a flashlight, a phone camera. Photograph, don't unplug.

Site: Collected by: Date: Confidence: V verified · R records · A assumed · U unknown. Every A or U row gets a gap ID (WS-11). Red columns are the minimum to draw.

[illegible]

WS-10 Name crosswalk

Feeds: Every page. Book Appendix H. **Ask:** TI lead and controls engineer together. **Sources:** WS-02, WS-03, labels from WS-09, HMI and application configs that use names.

Site: Collected by: Date: Confidence: V verified · R records · A assumed · U unknown. Every A or U row gets a gap ID (WS-11). Red columns are the minimum to draw.

[illegible]

WS-11 Gaps and improvement plan

Feeds: Every page: the Plan to improve this page note. Book ch. 13, 15. **Ask:** Whoever owns the drawing; review it monthly. **Sources:** A and U rows on every worksheet, the drift report, review comments.

Site: Collected by: Date: Confidence: V verified · R records · A assumed · U unknown. Every A or U row gets a gap ID (WS-11). Red columns are the minimum to draw.

Gap ID	What is missing	Shows on page	Drawn as	Collect with	How / who	Owner	Target date	Status	Closed on
G-001, never reused			A (?) or U (UNKNOWN)	Worksheet ID	Source and person to ask			Open, in progress, closed	
G-007	Uplink port of S01-C02-IE03	3 Physical	A	WS-09	Walk Cell02 cabinet with maintenance			Open	

WS-12 Audit evidence

Feeds: Sheet 3f Audit evidence (NetBox builds). Book ch. 10. **Ask:** Asset owners, IT lead, controls engineer, whoever runs backups, patching and monitoring. **Sources:** Backup tool job log, patch and change records, support contracts, monitoring and SIEM consoles, room walk-downs.

Site: Collected by: Date: Confidence: V verified · R records · A assumed · U unknown. Every A or U row gets a gap ID (WS-11). Red columns are the minimum to draw.

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