

TELECOM / OPTICAL NETWORKING

Engineering design documents generated from technical manuals

Engineers spend days writing network-element design documents from large sets of equipment manuals. Wexa built agents that retrieve the right facts per section and write the document directly.

60%

of sections accepted at the interim review

Live

writing into the team's document workspace

CLIENT

Optical-networking software and services firm

REGION

US

WHEN

2025

ENGAGEMENT

Proof of concept

WEXA COMPONENTS

Knowledge base · retrieval agents · document writer

01 — CASE 30

The challenge

- Large, overlapping technical documentation
- Manual assembly of design documents

- Consistency across documents and engineers

What Wexa built

- ✓ Ingestion and tagging of equipment documentation
- ✓ Per-section retrieval through question-and-answer prompts
- ✓ Writer agents composing a structured design document in real time
- ✓ Next steps identified: diagrams, detailed specifications, per-pattern agent tuning

02 — CASE 30

How it runs on Wexa

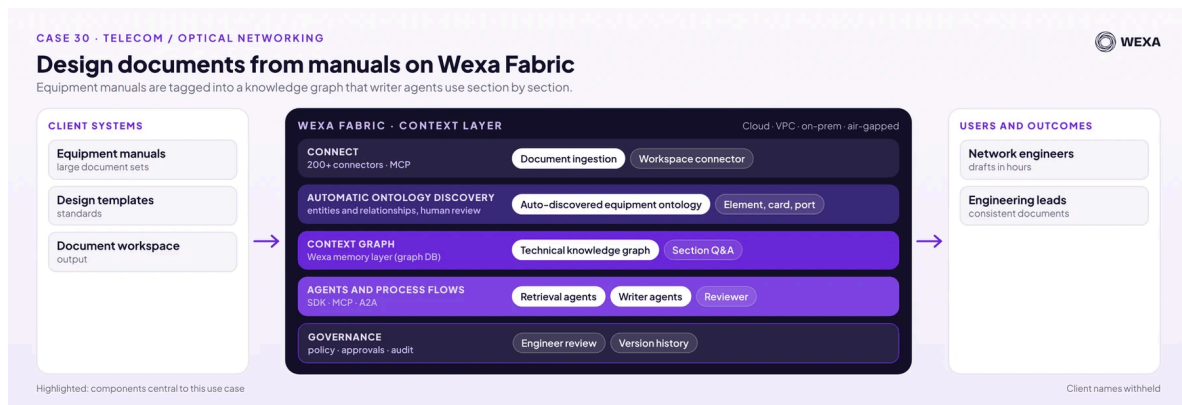


FIGURE How this use case runs on Wexa: client systems connected, ontology discovered, context graph in the Wexa memory layer, agents and process flows, and governance. Highlighted components are central to this use case.

Solution architecture

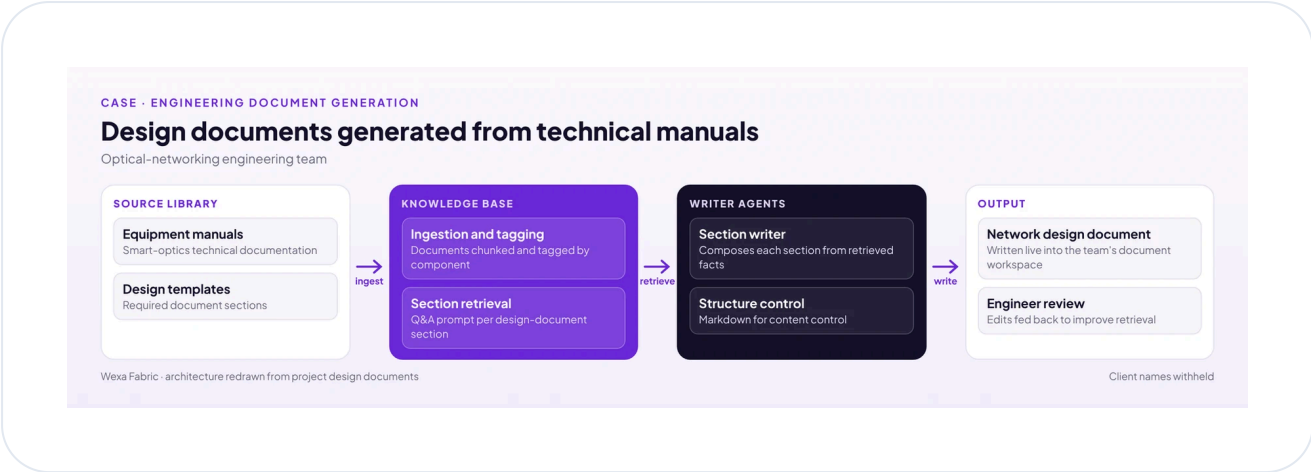


FIGURE Document-generation architecture (redrawn from the project design).

Results

MEASURE	BEFORE / WITHOUT WEXA	WITH WEXA
Engineer days per design document (100 documents a year)	5 days	2 days
Annual cost of the process	\$500K	\$200K
Time to implement the AI solution	4 months	6 weeks
AI build cost (one-time)	\$192K	\$22K
AI operating cost per year (models, infrastructure, upkeep, platform)	\$141K	\$69K
Total AI cost in year 1	\$333K	\$91K

WITH WEXA

\$231K

net annual value to the client after Wexa's
own operating cost

3×

faster to implement

51%

lower AI operating cost

\$242K

less AI spend in year 1

Interim quality figure reported honestly at the review; overlapping source data was the main cause of errors.