

DROP INSTALLATION AGENT

Verify completed drop installation work.
Deliver auditable proof for contractor management.

The Business Challenge

Drop installations are one of the highest-volume, highest-risk stages in fiber network delivery. A mix of internal crews and contractors with manual back-office close-out review means defects are rarely caught at the point of work. Failures emerge only after crews have left, driving costly truck rolls, rework and service activation delays. Without automated validation, operators can't enforce consistent standards, produce reliable as-built records or trigger fair contractor payments.

How the Agent Works

1	Capture Field crew captures close-out photos: conduit, trench depth, NID placement, ONT transition and site restoration.	2	Analyze Visual AI validates each photo: conduit presence, trench depth, fiber dressing, NID security and site restoration.	3	Validate Non-conformances flagged on-site in seconds. Crews fix issues before leaving. No costly return visit.	4	Record Verified evidence and as-built data linked to the work order and asset record in Network Manager.
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Old Way vs. With Visual Agent Studio

Old Way	VS	With Visual Agent Studio
✗ Manual close-out review in the back office		✓ Real-time photo validation at point of installation
✗ Defects found only after crews have left		✓ Non-conformances flagged on-site before crews leave
✗ Incomplete documentation delays contractor payment		✓ Contractor payment based on verified proof of work
✗ No consistent standard across crews and contractors		✓ Every installation checked against the same standard
✗ Undetected defects cause service activation failures		✓ Installation quality validated before activation begins

Proven Customer Outcomes

Expected results from operators deploying the Drop Installation Agent:

Outcome	Result
Installation defect detection	On-site, before crews leave
Documentation quality	Complete and validated at point of work
Contractor payment	Based on verified proof of work
Service activation success	Improved through pre-activation validation
Audit and compliance readiness	Photo-backed evidence on every job

