FREE SAMPLE · 10 OF 61 PROMPTS

AV & IT Field Tech AI Prompts

Copy-paste prompts for ChatGPT, Claude, Gemini and Grok. Built by field techs, for the job site.

How to use: Start every chat with Prompt #0. Replace anything in [BRACKETS] with your details, and paste real show output or error text. **Safety:** sanitize passwords, keys and customer data first (Prompt #60 in the full pack does it for you). AI suggests, you verify against vendor docs before you change anything.

0. Session Primer (use first)

```
You are a senior field engineer with 15+ years in commercial AV integration
(DSP, video distribution, conferencing, control systems) and enterprise
networking (Cisco IOS/IOS XE, VLANs, multicast, QoS). I am a working tech.
Rules for this whole conversation:
- Ask up to 3 clarifying questions if critical info is missing, then proceed.
- Always work Layer 1 up (power/cabling → signal → network → config → software).
- For every step, say WHAT to check, HOW (exact command/menu/meter), and
  WHAT RESULT means pass vs fail.
- Flag anything that could drop a live room or production network.
- Never invent model-specific menu paths; say "check the manual for X" instead.
Reply "Ready" and wait for my first issue.
```

1. No-picture triage tree

```
Build a decision tree for "no image on display" in this system:
Source: [laptop/PC/media player], path: [e.g. HDMI → wall plate → HDBaseT TX
→ 40 m Cat6 → RX → switcher → display], display: [make/model].
Symptoms: [no signal / black w/ backlight / flicker / "no HDCP"].
Already tried: [list]. Give a numbered tree, Layer 1 up, each node with a
pass/fail branch. End with the 3 most likely root causes ranked.
```

2. HDCP / EDID handshake diagnosis

```
Explain in plain terms what is likely failing in this HDCP/EDID chain and how
to prove it: [source] → [extenders/switcher/scaler with models] → [sink].
Content: [Netflix/Teams/PowerPoint]. Symptom: [intermittent black, wrong
resolution, audio missing]. Give: (1) how EDID is negotiated at each hop,
(2) where HDCP version mismatches occur, (3) a test plan using an EDID
emulator/known-good short cable, (4) settings to lock EDID safely.
```

4. Audio hum / buzz / ground loop

```
Diagnose a [60 Hz hum / 120 Hz buzz / digital whine] in this audio path:
[source → DI/console/DSP → amp → speakers], power: [same circuit? isolated
ground?], cable types [balanced/unbalanced]. Give a split-half isolation
procedure, how to tell ground loop vs RF vs gain-staging vs bad cable,
and fixes ranked from safest (never lift safety ground) to most invasive.
```

7. Dante / AV-over-IP not discovering

```
Dante devices [models] don't show in Dante Controller / flows fail.
Network: [switch model, VLAN, IGMP snooping on/off, querier?, EEE?, QoS?].
Give a checklist covering: PTP clock leader election; QoS per Audinate
guidance (DSCP trust, strict priority: CS7/56 PTP events, EF/46 audio + PTPv2,
CS1/8 reserved, 0 best effort); EEE (802.3az) disabled on every Dante port;
IGMP snooping (v2/v3) with exactly ONE querier per VLAN, short query (~30 s)
and long timeout (~125 s) when multicast is significant; Gigabit for 32+
channels; multicast vs unicast flows; and Cisco IOS commands to verify each.
```

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16. Interpret show output

```
Analyze this Cisco output and tell me what's healthy, what's wrong, and
what to check next:
[PASTE: show interfaces / show ip int brief / show vlan brief /
show interfaces trunk / show spanning-tree / show etherchannel summary]
Context: [what the user/device can't do].
```

18. Device gets no IP (DHCP)

```
An AV/IT device [type] on VLAN [x] gets [no IP / APIPA 169.254.x.x / wrong
subnet]. Topology: [switch → L3 SVI/router → DHCP server location].
Give a checklist: access VLAN, trunk allowed list, SVI up/up, ip helper-
address, DHCP snooping trust ports, scope exhaustion, and Cisco commands to
verify each. Include a Windows/Mac command to release/renew and read lease.
```

31. Rough notes → professional ticket

```
Rewrite my rough notes into a ticket with sections: Issue, Environment,
Actions Taken, Results, Root Cause (or "Not yet determined"), Next Steps.
Do NOT add any step or fact not in my notes.
Notes: [PASTE]
```

38. Post-incident report (RCA)

```
Write a post-incident report: timeline (from my notes, keep timestamps),
impact, root cause, contributing factors, what went well, corrective
actions (owner, due date placeholders). Use 5-Whys for the root cause.
Notes: [PASTE].
```

59. Self-check the AI's answer

```
Review your previous answer as a skeptical senior engineer. List any
claims that might be wrong, model-specific, or unsafe on a live system,
and what I should verify in vendor documentation before acting.
```


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