

UWB DESIGN REVIEW

UWB anchor placement checklist

Anchor geometry and a clear direct signal often matter more than the anchor count. Use this to review a UWB layout before you sign the bill of materials. Terms are explained on page 3.

DESIGN

The three placement rules that matter

- ☐ **Ceiling height measured, not assumed**, at every mount point.
- ☐ **Acceptance test under production load**, not an empty bay at set-up.
- ☐ **Network cabling checked**: a wrongly cabled PoE switch can break positioning without logging an error.

DESIGN

Geometry

- ☐ **Anchors placed for geometry, not for the ceiling grid**, in every zone that matters.

Geometry is where most layouts fail. We check yours against your racking, ceiling and traffic in a design review.

CHALLENGE THE QUOTE

Density review

- ☐ **A density rationale tied to use-case zones**, not a uniform carpet of anchors.
- ☐ **Ask the technology provider** which anchors the KPI depends on, and which are padding for the service level agreement.
- ☐ **Ask the technology provider to model** a reduced anchor count against your KPI.

DESIGN REVIEW

What we check in a UWB design review

- **Geometry** against your racking, ceiling and traffic.
- **Density**, zone by zone, against your KPIs.
- **Safety zones**, and the redundancy they need.
- **The quote**: which anchors are padding.

Send us the layout and the bill of materials for a free second opinion.

Want a second pair of eyes? Book a [free 30-minute call](#) and bring your quote or spec for a second opinion.

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Book a free 30-minute call

DESIGN

Safety zones and asset-find zones

- ☐ **Safety zones marked on drawings**, along paths shared by people and vehicles.
- ☐ **Location-based safety alerts support** existing safety measures and do not replace them.
- ☐ **Asset-find zones designed** for coverage and search time KPIs.
- ☐ **Expected location error stated per zone** on the drawing, not one site-wide claim, and tested.

OPERATE

Go-live and lifecycle

- ☐ **Validation with forklifts, carriers and people** moving.
- ☐ **Geometry checked again** after racking, cells, cranes or mezzanines move.

Lifecycle plan covered in the design review.

GO-LIVE

What we test with you before go-live

- **Live traffic:** forklifts, carriers and people moving.
- **Each zone** against its stated location error.
- **Safety alerts** in the zones that matter.
- **The lifecycle plan:** updates, spares and repair targets.

Sign-off

ROLE

NAME AND SIGNATURE

DATE

Operations sponsor

IT/OT owner

Health and safety lead

Procurement

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A second pair of eyes, before you commit

We are independent advisers on RTLS, RFID and IoT. We do not sell hardware, so we can review a survey, a study, a pilot plan or a design on its merits, and tell you plainly what is missing.

How a TRACIO project works: five stages

1 Discovery

Your pain points, site, process and KPIs.

2 Assess and shortlist

Site survey, then the options that fit compared.

3 Pilot with KPI baseline

KPIs measured first. Pass marks agreed in writing before set-up.

4 Integrate

If useful, one agreed link into your business systems, under your change control.

5 Multi-site roll-out

Only after a go decision, one area at a time.

How a pilot runs: set-up, then live weeks in normal use, then a short written report with a go or no-go.

Questions we hear

"We already have a system."

We give a free second opinion and check how it performs against your KPIs, using your live data and a site visit.

"How do we know it will work here?"

Judge us on method: a pilot, KPIs measured before and during it, and a written go or no-go.

"Can you bid with us, or for us?"

Yes. We team with integrators, or act as the buyer's independent adviser, but never both on the same bid.

"Do you sell or resell hardware?"

No. We don't sell hardware, so our advice stays independent. We rent pilot equipment and offer survey and installation support.

Free second opinion

Send us your technology provider's quote or spec for a free second opinion. What to send: the quote or spec, a floor plan or site photos, item counts and your current process. Bring it to the call or send it via tracio.com/contact.

TRACIO consultancy fees

- **UK:** £3k to £30k per project, £1,200 a day
- **Europe:** €3.5k to €35k per project, €1,400 a day
- **US and Canada:** \$4k to \$40k per project, \$1,600 a day
- **Middle East and Australia:** \$4k to \$40k per project, \$1,600 a day
- **Rest of the world:** \$3.5k to \$35k per project, \$1,400 a day

Scoped per project, no packages. Fees cover our work only; hardware, software licences and other supplier costs are separate. \$ = US dollars. Travel extra.

Why TRACIO: we work for you, not for the technology providers. We compare the options across the market that fit your site, provide site surveys and installation support, and work worldwide under your change control.

Plain-language glossary

UWB: ultra-wideband, a short-range radio technology that locates tags using fixed anchors.

Anchor: a fixed unit that locates UWB tags.

PoE: power over Ethernet, one cable for power and data.

RTLS: real-time location system, showing where tagged items are.

RFID: radio-frequency identification, tags read by radio.

IoT: internet of things, connected sensors and devices.

IT/OT: office IT and operational technology, the systems that run the site.

KPI: key performance indicator, a number you track.

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