

Prepare for Your R&D Engagement

A checklist of what to have ready before starting the development process.

A smooth R&D engagement starts with clear inputs. The two biggest drivers are well-defined product requirements and a clear picture of how your device will operate in the field. Gather the items below before your first conversation, and the Telit Cinterion R&D team can move straight into a feasibility assessment.

1. Product Requirements

- A written product requirements specification
- Must-have features separated from nice-to-have features
- Any existing design, prototype, or device to build on, and its current status
- Known constraints or non-negotiables, such as size, cost target, or required interfaces

Why it matters: *ambiguous or incomplete requirements are the most common cause of rework, extra iteration cycles, and sometimes a full design restart.*

2. Use Case and Operating Environment

- How and where the device will be used in the field
- Operating conditions it must withstand: temperature range, humidity, vibration, and shock or drop
- Expected device lifespan in the field
- Industry-specific requirements, such as metering, healthcare, tracking, industrial, or agriculture

3. Connectivity and Cellular Technology

- Target cellular technology or generation, such as 4G LTE, 5G, or cellular LPWA
- Whether you are migrating from a sunset network (2G, 3G, or 4G phase-out)
- Target operators and regions for connectivity
- Roaming or cross-border requirements
- Connectivity approach: your own, or embedded Telit Cinterion connectivity

4. Power and Hardware

- Power source and budget: battery, 12V, or another input
- Antenna and RF requirements or constraints
- Mechanical, form-factor, and enclosure requirements, if applicable
- Interfaces and protocols the device must support

5. Target Markets and Certification

- Countries and regions where the product will ship
- Regulatory certifications required for each region
- Carrier certifications and operator approvals required
- Standards or compliance obligations specific to your industry

6. Security

- Security and data-protection requirements
- Whether Telit Cinterion handles the security architecture or you own your implementation

7. Platform and Integration

- Whether you will use your own platform or the deviceWISE® platform
- Data, cloud, or enterprise systems the device must integrate with

8. Commercial and Program

- Expected production volumes and ramp
- Target timeline and key milestones or launch dates
- IP ownership expectations for any custom development
- Budget range for development and per-unit cost targets

Ready to start?

With these in hand, the Telit Cinterion R&D team can move straight into a feasibility assessment.

[Talk to Our R&D Team](#)