

What is an FSI Engineering Release?

Product Release Information



Product Lifecycle Management (PLM) is the process of managing the entire lifecycle of a product from its conception, through design, engineering, manufacturing and release phases. PLM systems help organizations in coping with the increasing complexity and engineering challenges of developing new products for global competitive markets.

PLM describes the engineering aspect of a product, from managing descriptions and properties of a product through its development and useful life. At Fiber SenSys (FSI), our engineering teams engage in careful planning and project management as we work on new product release initiatives.

Before a product is released for sale (this is the point where orders for the product can be accepted), the product must be ready for market as an “Engineering Release”. This is defined as a fully-engineered product that is technically ready for the marketplace, but not yet ready for volume production.

Here is a summary of the completed tasks at the FSI Engineering Release stage:

- 1. Research and development work**
 - a. All relevant patent applications have been filed
 - b. All relevant R&D work has been documented and archived
- 2. Systems engineering**
 - a. Engineering requirements documents
 - b. Theory of operation
- 3. Supply chain**
 - a. Suppliers have been identified
 - b. Parts agreements in place with suppliers
 - c. Custom parts defined by FSI specifications
 - d. Quotations in place for all key parts
- 4. Hardware design**
 - a. Printed circuit boards
 - b. Sheet metal
 - c. Optical
 - d. Design (included labels)

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- 5. Software design**
 - a. User interface
 - b. User software
 - c. Firmware
- 6. Product build**
 - a. Product has been built and tested and is “production ready”
- 7. Product meets all performance requirements**
 - a. Environmental testing
 - b. Field tests
 - i. Probability of detection
 - ii. Nuisance alarms
 - iii. Installation
 - c. CE Considerations
 - d. Functional installation
- 8. Training**
 - a. Sales Team Briefings
 - b. Engineering support team preparations
- 9. Compliance testing**
 - a. Export
 - b. CE
 - c. FCC
 - d. RoHS
- 10. Documentation**
 - a. Spec sheets
 - b. Brochure
 - c. Manual
 - d. Application notes
- 11. Marketing and Sales Teams**
 - a. Press releases have been prepared
 - b. Web site is ready for content
 - c. Price lists are completed

After completion of the Engineering Release phase, the organization begins preparation for the formal product release tasks and action items, ensuring that the marketplace is properly informed and the product is ready for all necessary logistics and manufacturing requirements. The end result is a product that is truly ready for the marketplace.

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