

# JPack-Fmt FAQ



## **Q1: What is JPack-Fmt?**

**A:** JPack-Fmt is an IoT standardization guideline for packaging systems, developed by the Japan Packaging Machinery Manufacturers Association. It aims to standardize data formats obtained from packaging machinery, facilitating data integration and analysis across different manufacturers' equipment, thus enhancing the efficiency of the entire packaging system.

## **Q2: What is the main purpose of JPack-Fmt?**

**A:** The main purposes of JPack-Fmt are to streamline data integration between different manufacturers, improve system interoperability, unify industry communication, reduce costs, and promote productivity and quality improvement through data utilization.

## **Q3: How does JPack-Fmt relate to other global standards like PackML?**

**A:** Currently, JPack-Fmt is a domestic standard tailored to the Japanese packaging machinery industry. It is designed to accommodate formats from other organizations, like PackML, in the domain of category ID 5000 and above. While global standard alignment is a future consideration, domestic dissemination is prioritized.

## **Q4: What are the benefits of implementing JPack-Fmt for user companies?**

**A:** Benefits include easier data integration across different manufacturers' equipment, reduced system setup time and costs, enhanced productivity and predictive maintenance through data analysis, and easier future system expansions.

## **Q5: Can JPack-Fmt be applied to existing equipment?**

**A:** Application to existing equipment depends on the feasibility of updating control systems or software. Often, changes to PLC programs or additional gateway devices are needed. It's typically considered during new equipment installations.

## **Q6: What costs are involved in implementing JPack-Fmt?**

**A:** Costs vary based on equipment type and the current system status. Factors include production numbers, item types, production time, machine configuration, and compatible JPack-Fmt items. Detailed discussions with manufacturers and users are required to estimate costs.

## **Q7: How can data obtained via JPack-Fmt be utilized?**

**A:** Standardized data can be used for productivity analysis, predictive maintenance, quality management, energy management, and supply chain optimization, making analysis and utilization easier for users.

**Q8: What security measures should be considered when implementing JPack-Fmt?**

**A:** While JPack-Fmt focuses on data format standardization, network-based data integration requires security measures like firewalls, access controls, and data encryption. Security policies should be based on individual company guidelines.

**Q9: What are the benefits for manufacturers developing JPack-Fmt-compatible products?**

**A:** Benefits include meeting IoT demands from users, easier integration with other manufacturers' equipment, enhancing product value, reducing development and operational costs, and strengthening competitiveness through industry standard compliance.

**Q10: What should manufacturers consider when developing JPack-Fmt-compatible products?**

**A:** Considerations include compliance with JPack-Fmt data formats, covering user-required data items, ensuring compatibility when adding proprietary extensions, and maintaining compatibility with existing products.

**Q11: How is proprietary information handled?**

**A:** Proprietary information is treated as "manufacturer-specific items." While JPack-Fmt defines standard items, manufacturers can extend the format to include proprietary information, although maximizing standard item use is recommended for standardization benefits.

**Q12: What is a category ID and how is it structured?**

**A:** A category ID classifies and identifies data items, structured as follows: 1-999 for common items, 1000-4999 for device-specific items, and 5000 and above for other organizations' formats.

**Q13: How are data update frequency and reset timing determined?**

**A:** These are decided by user specifications. JPack-Fmt standardizes data formats but leaves data operation methods to each company's discretion.

**Q14: Will the standardization of data communication protocols be addressed?**

**A:** Currently, JPack-Fmt focuses on data format standardization rather than communication protocols, which remains a potential subject for future consideration.

**Q15: How are updates and extensions to JPack-Fmt managed?**

**A:** The Japan Packaging Machinery Manufacturers Association handles updates and extensions. Updates will be published via "PM Communication" and on a dedicated website, with regular reviews and expansions based on industry needs.

**Q16: Where can information on JPack-Fmt-compliant products be obtained?**

**A:** Official information on compliant products is not disclosed by the association. Direct inquiries to manufacturers are recommended. Sample PLC ladder programs will be available for download on the association's website.

**Q17: What is the extent of equipment coverage by JPack-Fmt?**

**A:** Initially targeting packaging machinery, the scope has expanded to include weighing and inspection machines due to participation from companies like Ishida and EDM. Further expansion to cover the entire packaging system is planned.

**Q18: Is input data standardization (e.g., changing settings) part of JPack-Fmt?**

**A:** Currently, JPack-Fmt focuses on data output, not actively considering input data standardization. Future consideration may occur if requested by users.

**Q19: What are the future plans for JPack-Fmt?**

**A:** Plans include user and manufacturer briefings, continuous improvement and extension of the standard format, collecting and sharing implementation examples, strengthening links with other industry standards, and expanding coverage to the entire packaging system.

**Q20: Where can detailed information on JPack-Fmt be obtained?**

**A:** Detailed information will be available on the Japan Packaging Machinery Manufacturers Association's dedicated website, with notifications and participation opportunities for explanations and webinars. For inquiries, contact the association or manufacturers directly.