

# CUSTOMER B2B INTEGRATION SERVICES

Manufacturing Supply Chain  
Solutions for Optimal Efficiency





# The Amkor eBusiness Team Works for You

Located globally at Amkor sales offices and factory sites, your eBusiness manager is a single point of contact dedicated to your business IT projects, eliminating the need to engage with individual factory sites.



## Business-to-Business (B2B) integration with Amkor

The strength and foundation of Amkor's B2B architecture is a common and standard model that spans across our global factories, and a centralized database containing normalized manufacturing and business information for customer exchange.

Data flows from our manufacturing and business systems, around the clock, providing near real-time transactional and status information.

## We listen to our customer needs

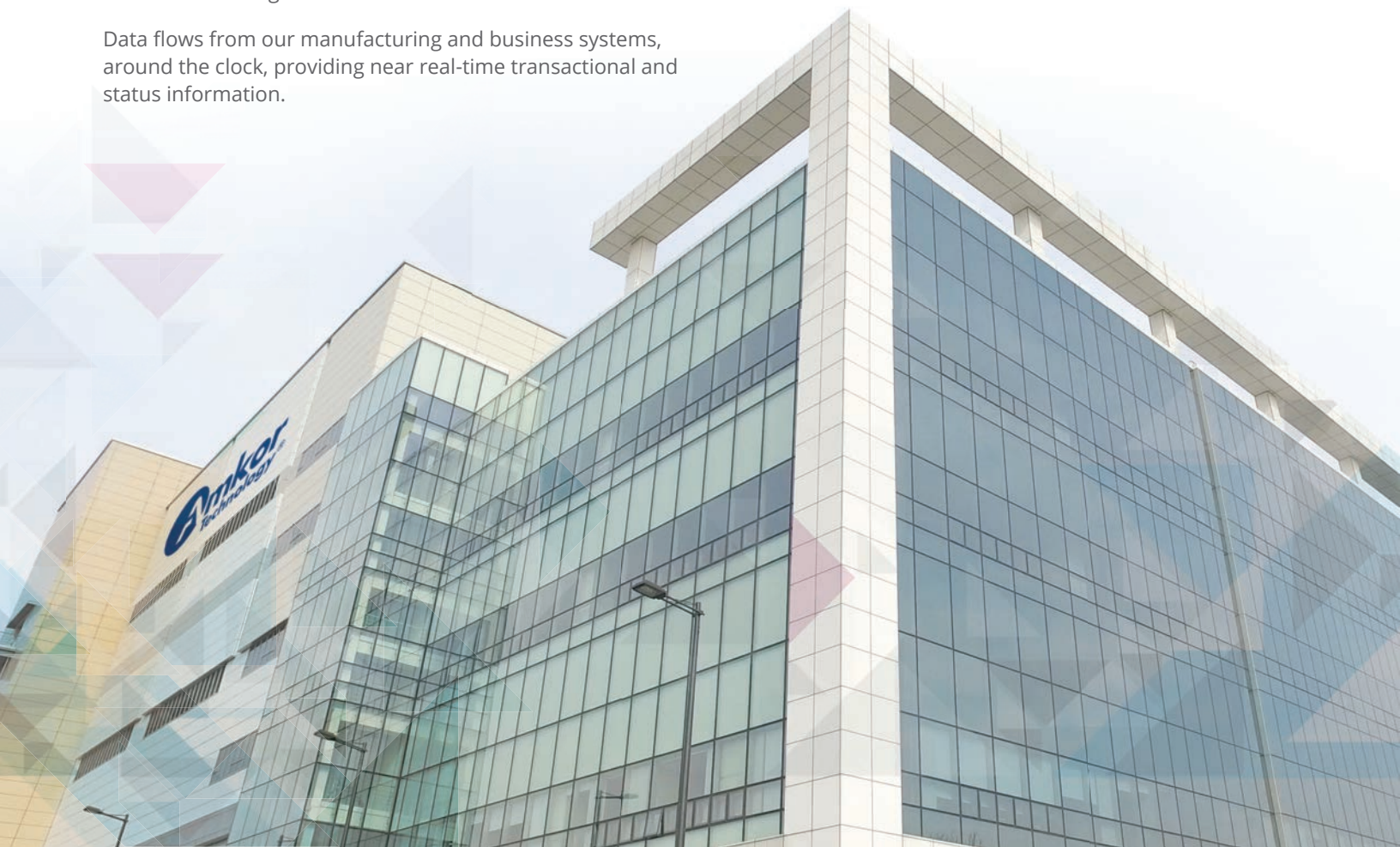
The Amkor eBusiness management team is experienced with customer integrated manufacturing and business processes, and we understand what customers want and need:

- ▶ Visibility to assembly and test manufacturing processes and material inventory levels
- ▶ Seamless supplier integration with planning, logistics, finance and other critical systems to promote efficiency and decision making
- ▶ Flexible high-quality solutions that can be rapidly deployed

## We are experienced in customer integration

Amkor ensures a comprehensive understanding of your project requirements through a single point of contact. We have:

- ▶ More than 50 years of manufacturing experience, with hundreds of successfully implemented integrations
- ▶ A team of eBusiness managers dedicated to personally facilitate your business-to-business integration needs
- ▶ A global Center of B2B Excellence supporting a reliable, centralized system and a single source of truth





## Choose From a Variety of Integration Methods

Amkor chose the RosettaNet industry standard to provide a common e-Business language, aligning processes between trading partners with a global reach.

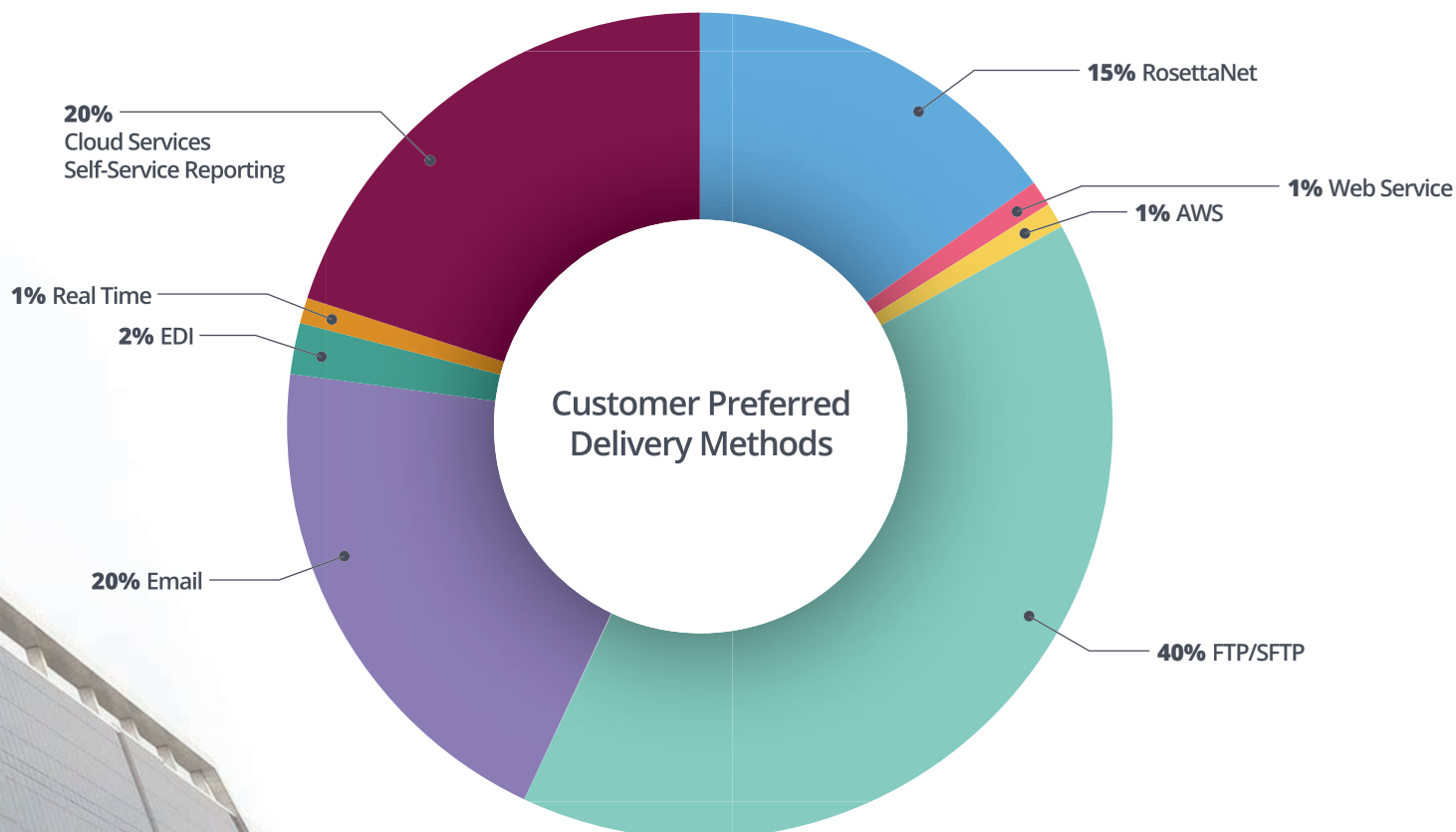
RosettaNet Partner Interface Processes (PIPs) and RNIF delivery protocol enable B2B transactions in a seamless, secure and near real-time manner. We developed a broad portfolio of PIPs to meet customer manufacturing and business integration needs. In addition, we support multiple message formats and delivery protocols.

### Message Formats

RosettaNet PIPs, Delimited Flat Files, XML, EDI X12/EDIFACT, Excel and text based reports.

### Delivery Protocols

RosettaNet RNIF, Secure File Transfer Protocol (SFTP), EDI (VAN and AS2), SOAP Web Services (HTTPS), MQ, JMS, AWS and Encryption.





# Standard B2B Data Sets/Processes, Messages Formats and Delivery Protocols

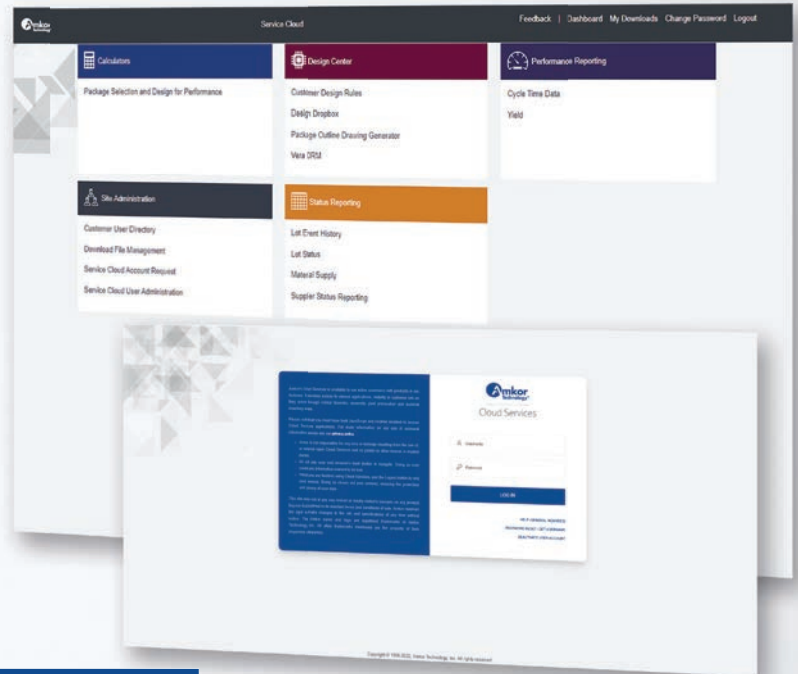
| DATA TYPE  | PROCESS  | FORMATS & DELIVERY PROTOCOLS   |
|--|--|--|
| Purchase Order                                   | Received from customer and distributed to factories for order fulfillment.   | RN PIP® 3A4/3A7/3A8/3A9/3A19<br>SFTP • Flat File • XML<br>EDI (VAN/AS2) • EDIFACT<br>ORDCHG and ORDERS                           |
| Inbound Advanced Ship Notification (IASN)        | Received from customer to notify Amkor of goods in-transit for auto receiving and pre-scheduling.  | RN PIP® 3B2<br>SFTP • Flat File • XML<br>EDI (VAN/AS2) • EDIFACT INVOIC  |
| Shipment Receipt                                 | Sent to customer upon physical receipt of goods at Amkor.  | RN PIP® 4B2<br>SFTP • Flat File • XML  |
| Material Status (Snap) and Events (Transactions) | Snapshot sent to customer for on-hand/on-order raw materials, such as lead frames and substrates, that are Amkor or Customer owned.<br><br>Transactions sent to customer for material movements in Amkor factories.    | SFTP • Flat File • XML<br>Also available in <b>Amkor Cloud Services</b> Material Supply option.                                  |
| Build Request (Work Order)                       | Received from customer and distributed to factories, to execute build instructions.  | RN PIP® 7B5<br>SFTP • Flat File • XML  |
| Lot Status (Snap) and Events (Transactions)      | Snapshot sent to customer, showing all lots and their current location and quantity, from in-transit to Amkor through shipment to customer.<br><br>Transactions sent to customer for lot movements in Amkor factories. | RN PIP® 7B1<br>SFTP • Flat File • XML<br>Also available in <b>Amkor Cloud Services</b> Lot Status and Lot Event History options. |
| Lot Info Change                                  | Sent to Amkor to update customer lot attributes.   | SFTP • Flat File • XML   |
| Assembly Yield Data                              | Sent to customer at the end of assembly, to identify yield loss and defect reasons.  | RN PIP® 7C7<br>SFTP • Flat File • XML<br>Also available in <b>Amkor Cloud Services</b> Yield option.                             |
| Tester Data                                      | Test parametric data collected from Testers and sent to customer.  | RN PIP® 7C8<br>SFTP • XML  |
| Cycle Time Data                                  | Lot cycle time performance data sent to customer, based Amkor standard definitions.  | SFTP • Flat File<br>Also available in <b>Amkor Cloud Services</b> Cycle Time option.   |
| Drop-Shipment Request                            | Received from customer to request goods to ship from Amkor dropship to the end customer.   | RN PIP® 3B12/3B13/3B14/3B19<br>SFTP • Flat File • XML  |
| Outbound Advanced Ship Notification (OASN)       | Sent to customer to notify of goods shipping out of Amkor.   | RN PIP® 3B2<br>SFTP • Flat File • XML<br>EDI (VAN/AS2) • EDI 856   |
| Billing Invoice                                  | Sent to customer for services rendered.  | RN PIP® 3C3/3C4<br>SFTP • Flat File • XML<br>EDI (VAN/AS2) • EDI 810   |
| Early Receipt Settlement (ERS or Self Bill)      | ERS self-bill invoice or remittance sent to Amkor to reconcile automated payment to the Amkor invoice.   | RN PIP® 3C6/3C7<br>SFTP • Flat File • XML  |

# Cloud Services: Amkor's Self-Service Customer Portal

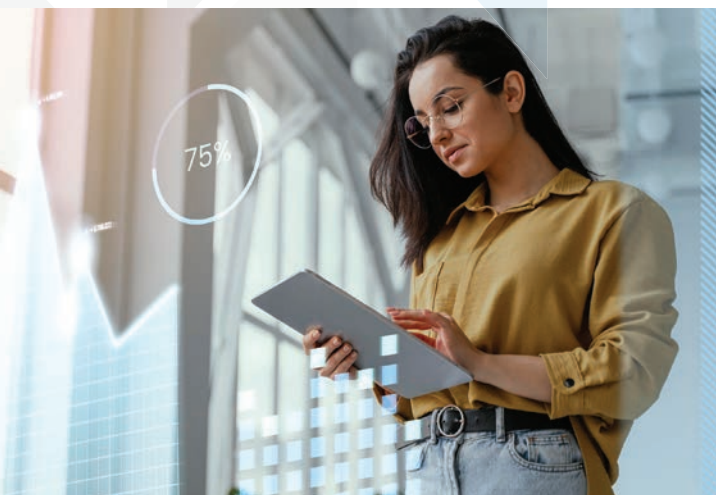
Amkor provides easy access to customer manufacturing information through Cloud Services, a secure web-based application suite. Access at: [cloudservices.amkor.com](https://cloudservices.amkor.com)

*With Cloud Services, customer data for all manufacturing sites can be accessed around the clock for near real-time reporting.*

Amkor customers can create customized reports, controlling data fields, sorting and filtering, which can be viewed on-line or downloaded to Excel. Automated reports can be scheduled for daily, weekly or monthly delivery to an individual's email.



| APPLICATION              | INFORMATION DETAIL  |
|--------------------------|---|
| <b>Lot Status</b>        | Near real-time visibility to all customer lots and their current location and quantity, from in-transit to Amkor, through shipment to customer.                             |
| <b>Lot Event History</b> | Near real-time visibility to lot movements between milestone operations/locations, as they occur on the manufacturing line (up to 2 years of historical data is available). |
| <b>Material Supply</b>   | Visibility to on-hand or on-order raw materials, such as lead-frames and substrates, that are Amkor or Customer owned.  |
| <b>Assembly Yield</b>    | Visibility to assembly yield losses, collected at QA gates, with reason codes.  |
| <b>Cycle Time Data</b>   | Visibility to lot cycle time performance based on Amkor standard definitions.   |



## Standard Factory Specific Reports

Standard factory reports are available upon customer request. These reports are specific to individual factory sites, and are complementary to the standard data available from Amkor Cloud Services or Amkor Standard Solutions.

- ▶ Commercial Invoice
- ▶ Lot Traveler Card
- ▶ Packing List
- ▶ Ship Alert

## Contact Us

The Amkor global IT Service Desk provides monitoring of customer B2B services 24 hours a day, 7 days a week. Contact us at [itservicedesk@amkor.com](mailto:itservicedesk@amkor.com), or call +1-888-265-6716 extension 5555.

# Amkor Is Committed to Your Success

At Amkor, we understand the importance of providing accurate, timely information and services.

Supported by a global offshore development and support center and governed by a B2B Center of Excellence, Amkor provides "follow-the-sun" production support and development.

Visit the Amkor Technology Customer Center at: [amkor.com](http://amkor.com) or contact your Customer Service Representative for more information and access to our full suite of eBusiness tools.



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