Purpose

These Release Notes describe the Integrator suite of applications, including EnterpriseCloud and EnterpriseServer.

Contents

The Integrator

The Integrator is Purolator International's (PI) suite of logistics-related applications. The applications, which leverage common cloud-based databases hosted on Amazon Web Services servers, are used by PI's clients to ship small packages and LTL shipments through PI's services, and by PI's employees and business partners to support this shipping activity. The Integrator's applications fall into three categories: administrative, shipping-related, and operations-related (Figure 1).

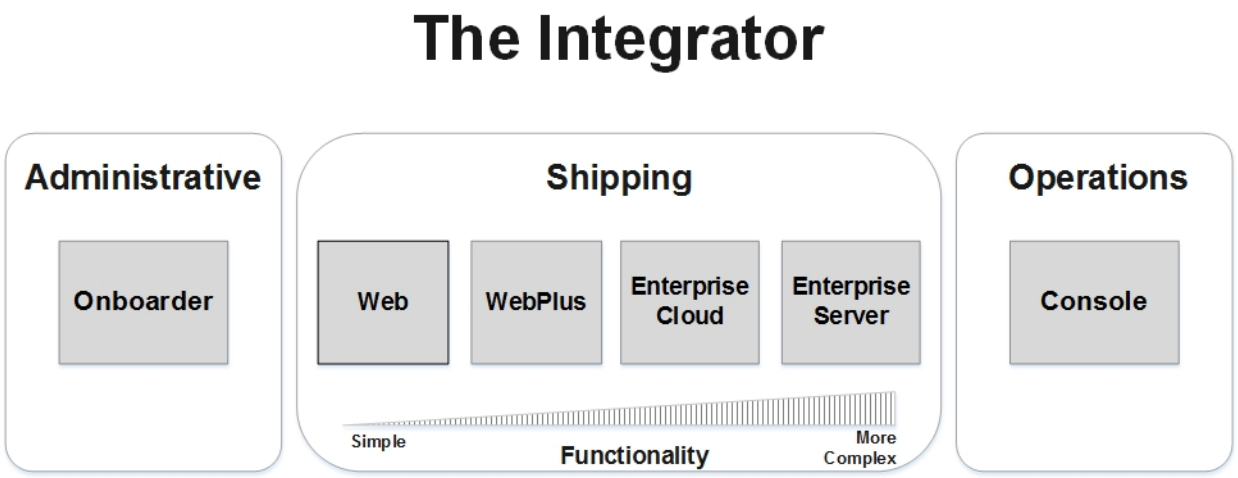

Figure 1—Overview of Integrator Suite of Applications

Administrative

The Onboarder application provides a structured way for PI employees to collect the information needed for a client to be able to use one of the Integrator's shipping applications. The term "onboarding" refers to the process whereby a shipping application is configured for a specific client. The Onboarder simplifies this process with a context-driven questionnaire that is similar to those often found in tax preparation software. The Onboarder pays special attention to eliciting information about the customer's data source. To a large extent, the Onboarder automates the creation of ODBC connections to the client's database, as well as the rules for scrubbing client-provided shipping data to remove anomalies, to use default values, and otherwise to edit that data.

Shipping

There are four Integrator shipping applications. Moving from simplest to most complex, they are Web, WebPlus, EnterpriseCloud, and EnterpriseServer. With the exception of EnterpriseServer, which PI deploys only in special circumstances, all of the shipping applications run off of cloud-based databases. This means that the client's shipping data and all of the look-up tables needed by the applications to perform functions such as determining service availability and calculating estimated rates are stored in exceptionally secure data centers. Further, once onboarded, a client can begin shipping simply by downloading and installing the appropriate PI software. (In the

case of the Web application, even this step is not necessary.) That makes the Integrator's shipping applications easily scalable – every one of a client's Windows PCs is a potential shipping system – and eliminates the need for disaster recovery – there is no crucial locally-stored data to be lost if a hard drive fails.

The four shipping applications are additive in their respective capabilities, so PI can make sure that each client uses the application most suitable to its needs without being provided with overly complex software. The following is a summary that shows the most significant functions of each application.

Web

The client accesses the Integrator-Web shipping application by logging into a Web page. No software needs to be installed on the client's computer unless the client wants to use a Zebra thermal printer rather than a laser printer to generate shipping labels. (In such a case, the client needs to use Internet Explorer as its Web browser and install PI's ActiveX control.) Once onboarded, the client can use Integrator-Web to perform the following shipping-related functions:

- Create a shipment by manually entering the required information on the New Shipment form. This process can be expedited by using the Address Book drop-down list to populate the relevant "To whom are you shipping" text boxes; the Dimension Type drop-down list to populate the relevant "Add New Package" text boxes; and/or the Customs Items drop-down list to populate the relevant "Customs Information" text boxes.
- Create a shipment by retrieving data sent in advance in a properly-formatted file to the Integrator's cloud-enabled server.
- Print shipping labels.
- Get the estimated cost for a prospective shipment.
- Close out for the day.
- Void one or more packages for which labels have been printed but which have not yet been closed out.
- Generate and print customs invoices, shipping manifests, and other shipping-related documents.
- View various reports of historical shipping activity.

WebPlus

In order to use the Integrator-WebPlus shipping application, the client must install two pieces of PI-provided software on its computer: the main WebPlus program and a utility called the Transporter. The main program contains the user interface that enhances the client's shipment creation process, while the Transporter improves the application's printing functions. WebPlus uses PI's Web Services to send client-provided data to the Integrator's cloud-enabled server, and to process the server's response (typically by routing the ZPL code in the response to the attached Zebra thermal printer to print a shipping label). Once onboarded, the client can use

Integrator-WebPlus to perform the shipping-related functions listed above that the Web application supports, plus the following additional functions:

- Use a Purolator International-provided barcode scanner to expedite the shipment creation process.
- Use a Purolator International-provided digital scale to expedite the shipment creation process.
- Create a shipment by retrieving data from the client's own database via an ODBC connection.
- Print shipping labels on a Zebra thermal printer without having to use Internet Explorer as its Web browser and installing PI's ActiveX control.

WebPlus is designed primarily for a client with sufficient shipping volume to make manually processing shipments impractical. By using an ODBC data source and a barcode scanner, such a client can print a shipping label simply by scanning the barcoded Package ID on each package being processed.

EnterpriseCloud

In order to use the Integrator EnterpriseCloud shipping application, the client must install two pieces of PI-provided software on its computer: the main EnterpriseCloud program and the Transporter utility. In addition, this application requires the client's computer to be running Microsoft's SQL Server Express Edition database software. Purolator International will install and configure that software on the client's computer. (In the event that the client needs multiple networked shipping stations, Purolator International will install SQL Server Express Edition on one of those computers and configure the EnterpriseCloud software on the other computers appropriately.) The main program contains the WebPlus user interface plus additional screens for specialized tasks such as printing shipping labels for multiple packages at once.

The primary difference between the EnterpriseCloud and WebPlus applications is that EnterpriseCloud has a local database for storing configuration settings and client-provided data. This means that EnterpriseCloud can manipulate the client-provided data prior to sending the data to the Integrator's cloud-enabled server. Once onboarded, the client can use Integrator EnterpriseCloud to perform the shipping-related functions listed above that the WebPlus application supports, plus the following additional functions:

- Create a shipment by retrieving data sent in advance in a properly-formatted file and placed by the client on the shipping computer's hard drive or in a shared-network folder.
- Define rules for the EnterpriseCloud software to follow when scrubbing client-provided data prior to sending the data to the Integrator's cloud-enabled server (such as automatically changing the carrier to Canada Post for courier shipments destined to Post Office Boxes).
- Print an extra label containing summary information after a shipment's regular shipping labels have printed.

- Print shipping labels in a single operation for the packages for which the client provides data in one or more properly-formatted files placed by the client on the shipping computer's hard drive or in a shared-network folder.
- Print a shipping label automatically (*i.e.*, without human intervention) for each package for which the client provides data in one or more properly-formatted files placed by the client on the shipping computer's hard drive or in a shared-network folder.

EnterpriseServer

The Integrator-EnterpriseServer shipping application offers the same functionality as the EnterpriseCloud application. The only difference is that the EnterpriseServer's local SQL Server database, not the Integrator's cloud-enabled server, stores the client's shipping data and the look-up tables needed by the application to perform functions such as determining service availability and calculating estimated rates. EnterpriseServer therefore is deployed infrequently and only under special circumstances.

Operations

The Console application features the following:

- A database on the Integrator's cloud-enabled server that stores the onboarding information and shipping data of clients that use an Integrator shipping application;
- The VerifyR utility running on computers at Purolator International facilities that employees use to validate packages transiting those facilities, and that then updates the statuses of those packages in the Console's database;
- Server-side utilities that perform operations-related functions, such as generating and transmitting customs clearance files when pre-set trigger events occur;
- Web-based tools that authorized users can use to check the statuses of selected packages and batches of packages, and re-trigger certain tasks (such as retransmitting a specific customs clearance file); and
- A website on which Purolator International managers can create and view reports of historical shipping activity.