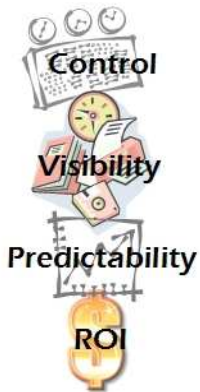


Integration Gateways

**Ingenuus
Active Packet
Technology
Provides:**



Overview

Ingenuus automates business processes. Our unique approach to process automation creates a process metaphor we call "Active Packets". Ingenuus also can manage the data needed by the participants in the process, and the packet is the place where participants can attach information they want to share, collaborate, make changes to, etc. Ingenuus is even powerful enough to manage product data such as items (parts) and Bills of Materials. All this information is stored in Ingenuus and is available for reporting and export.

Within an Ingenuus process, you may create a trigger that can either read from some other enterprise software or write information from Ingenuus to that other enterprise software. Ingenuus has the ability to call a 'service' from an SOA [service oriented architecture] compliant software package and Ingenuus can write to a 'service'. A service to Ingenuus is just like an API [application programming interface]. Ingenuus can read/write to ODBC just as easily.

Ingenuus' web based report writer meets the needs of companies who want to provide information to process participants and managers. These reports are easily configured [row/column format] by users and can be stored for reuse. All can be printed directly from a web browser. For most companies, this capability replaces reporting done prior to automating their processes using Ingenuus.

Other companies would like the stored information to be written into another enterprise software package. This is common for manufacturing companies managing items (parts) and Bills of Materials. Some companies want changed documents to be written into some kind of document management software like Documentum or FileNet. Other companies, managing bills of materials, want that information written into their ERP software like SAP, Oracle, etc. Still, others may just want data exported for use in a spreadsheet like Excel. Finally, some want database access for business intelligence software tools like Crystal Reports.

Integration Gateways

Exporting Information

Manual Exports

Ingenuus can generate information from the database in comma separated values [csv] or tab delimited file formats. This method is based on the Ingenuus report writer and preserves all access control implemented on the data.

Automatic Exports [flat file publish]

At a designated step in the process, pre-determined data is formatted and published to a comma separated, tab delimited or XML file and stored in a target directory. Optionally, the user can also configure this process step to trigger an import of this data into one or more 3rd party systems and report the results of such imports back to the Ingenuus user.

Automatic Publish [EAI]

Instead of generating a flat file, we use our enterprise application integration interface (Ingenuus Integration Gateway). At any trigger point, our software will format and publish the data directly to an external source.

In addition, Ingenuus' Consulting can provide custom database views for use with other business intelligence systems that can read data from a SQL database. We recommend that this option be used only for management and administrative purposes because it bypasses the elaborate access control available within the Ingenuus system.



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Integration Gateways

How it Works

Exporting

The information that is extracted sits in our database in table form. As an example:

<i>Item number</i>	<i>Description</i>	<i>Quantity</i>	<i>Price</i>
123456-123	Casing	1	\$78.00
123456-456	Motherboard	1	\$255.00

In the case of a comma-separated file, the exported data would look like this:

```
123456-123,casing,1,$78.00
123456-456,motherboard,1,$255.00
```

In the case of a tab delimited file, the exported data would look like this:

```
123456-123  casing  1  $78.00
123456-456  motherboard1  $255.00
```

Manual Export

In the Ingenuu report builder, users can select to export and Ingenuu will export the results of a saved query (i.e., report) as a comma separated (.csv) or tab delimited file (flat file). The user can then import this file into virtually any application.

Automatic Exports

At a designated step in the process, pre-determined data is formatted and published to a comma separated or tab delimited file and stored in a target directory.

The target software may be able to accept the information in the default order, but most likely there will need to be changes (data transformation). Our consultants write a script that will reformat the export file so that the enterprise software will accept it and invoke the target application. When the script is run, it invokes the target application to read the file. Ingenuu continues to monitor the file import to insure success and reports success or failure.

The process owner is able to define the actual trigger in the process that creates the export, runs the script, and triggers the import into the other enterprise software.



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Automatic Publish

Instead of generating a flat file, we use our enterprise application integration interface (Ingenuus Integration Gateway). At any trigger point, our software will format and publish the data directly to an external source or as XML.

The information is extracted from the Ingenuus database, formatted to fit the target system then written into the target system using an adapter specific to that software. No export file is generated; the transfer and data transformation is done via a software adapter. The Ingenuus Integration Gateway is used for arbitrarily complex integrations between Ingenuus and one or more external systems. Such integrations can be uni-directional or bi-directional.

Reports

Ingenuus has a revolutionary way of creating reports. Within Ingenuus is a web based reporting system that functions like a query. The difference is that the user can easily configure what to query on, and how the results of the query will look [within the limits of row/column] – all without writing a single line of code.

The user is presented with a default query screen. Using a drop down menu, the user can select any of the existing fields (including custom fields) to be added to the query screen. In the same way, the user can configure the results screen. The user is shown all of the objects in the relational database and then allowed to dictate which columns these objects will fall in and the corresponding column widths. Once the search screen and the results screen are formatted, the user can save the query for reuse. The result is a row/column report that can be printed directly from the web browser. From the printable version (with header information) the information can easily be cut and pasted into virtually any software application such as Excel. This data can also be written to disk as a flat file for use by third party applications.

Third Party Reporting Tools

For customers desiring to use third party business intelligence tools such as Crystal Reports, views of the database can be created for the desired set(s) of data. Any application that supports ODBC can be used as a reporting tool, if you do not have another reporting tool, Excel can be used. This is also an excellent method for access for Business Activity Monitoring (BAM) and Dashboard applications which can complement your system.



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