

Release Notes Summary

PipeChain 4.3.0



PipeChain 4.3.0

Release Date: 2009-04-02

Analyzer: Database parameters are moved to the Business object.

The analyzer database parameters were previously entered via the property file.

By moving the parameters to the Business object, it has become possible to save different Businesses analyzer data to different analyzer databases.

This is especially useful in "hosted" environments where it is unacceptable to let different businesses share analyzer data.

Note that each parameter has a "tooltip", giving an example that shows the expected syntax.

A "Check Connection..." button allows the user to check the entered parameters directly.

There is also a "Start/Check OLAP Processing..." button to verify that the OLAP processing job can be accessed from PipeChain Server. The processing command is stored in table AnalyzerProperties.

You must have "Server Administrator" privileges to change the parameters or to use the buttons.

Action on installation

If you do not use PipeChain Analyzer, no action is needed.

If you already use PipeChain Analyzer, copy the string values of the properties below into the corresponding fields in the Business Detail screen.

```
se.masystem.analyzer.dbtype =  
se.masystem.analyzer.dbpar =  
se.masystem.analyzer.dbuser =  
se.masystem.analyzer.dbpassword =  
se.masystem.analyzer.dbprefix.primary = (renamed to "PipeChain DB Prefix")  
se.masystem.analyzer.dbprefix.secondary = (renamed to "Analyzer DB Prefix")
```

If you are a new PipeChain Analyzer user, you fill in the parameters and use "Check Connection" to verify that they are correct.

Supply: Site in Supplier / WebUsers

The WebUsers tab in screens for Supplier and Customer now contains site information. The tab also lists WebUsers from all sites the current user is privileged to see.

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MACom: Files with with byte order mark now handled for input files.

A file with unicode encoding can have a byte order mark (BOM) at the beginning of the file. These 1 - 4 bytes was not handled by PipeChain MACom, instead there was an error message "Content is not allowed in prolog" when trying to receive a unicode file with a BOM. From now on the BOM is read and used to determine what kind of unicode that is used. Following unicode is determined:

UTF-32BE (Big Endian)
UTF-32LE (Little Endian)
UTF-16BE (Big Endian)
UTF-16LE (Little Endian)
UTF-8

This change is affecting received files with PipeChain MACom file channel, SOAP client and FileToEmail client.

The priority for getting character encoding for a File channel is:

1. Use encoding from the BOM found in file.
2. Use encoding from field "Reading encoding" from file channel parameters.
3. Use encoding from property se.masystem.macom.characterencoding
4. Use encoding ISO-8859-1

MACom: Style sheets (xsl-files) are now updated to support 4.3.0 transactions

Transaction with release number 4.3.0 and higher are designed with having only the Message element in the target name space. The message element will then have a name space prefix. Event, NotificationMails and other transaction using style sheets are now handled in a correct way when converting xml to html.

Action on installation

All transactions that are sent out through style sheets must be updated to transaction release number 4.3.0 (or higher).

Please change field Release Number in screen Channel-Transaction Detail to 4.3.0 for following transactions if these transactions are used and sent by mail through PipeChain's style sheets.

CS01 Outbound Orders
CS42 Outbound Order Change
CS71 Production Requisitions
EVNT Event
MP01 NotificationMail
MP03 Reminder Mail
MS02 Deviation Mail
PW05 Outbound Order responses

If you have customized these style sheets an alternative solution could be to keep the old style sheets and don't change transaction release number. Style sheets (xsl-files) is found under installation in folder ..\plugins\xslt

All channels senders must be restarted after updating these style sheets.

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MACom: Some attributes in the Notification mail is now not always displayed.

Some attributes are not always used and should not be displayed in a notification mail if they are not populated. These attributes are Product Id, Product Variant, Produkt Name, Partner Product id, Partner Product Variant, Partner Product Name, Delivery Quantity and Price. These attributes will from now on only be displayed if the product id exists in the transaction.

Some other minor errors were also corrected in the style sheets.

Platform: Business Restricted Users can't see users from other businesses any more

Prior to this version, users restricted to one business could see users without restriction. This error has been corrected.

Supply: Own balance and Demand Export PW25

See the PipeChain XML transaction documentation "System Interface_4.3.0_XML.doc", Gross Demands (PW25)

MACom: Binary files were not handled correctly by FTP channel

Binary files (like zip-files) were corrupted when getting them with FTP. This is now corrected.

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Supply: Finishing of orders and order lines/inbound deliveries

Finishing of order lines/inbound deliveries

Orderlines are now automatically finished if

- Receipt advise is not expected and receipt time is passed
- Invoice is expected and the orderline is not invoiced

These flags are configured in the Process Configuration tab in the inbound partner agreement.

The job doing this is called Automatic Receipt. The job is scheduled on site level and should be run before the night jobs (including Supply Database Cleanup).

Order lines are also finished when they are received with a Receipt advice from the customer.

Finished order lines are shown in a new tab in Order detail.

If automatic receipt is not wanted, make sure expect receipt advice is checked or the job Automatic Receipt is disabled.

Finishing of orders

Orders are now automatically finished if

- There are no order lines on the order (all are finished)
- Invoice is expected and the order is not invoiced

Finished orders are shown in a new screen.

The job doing the finishing is called Supply Database Cleanup. The job is scheduled as a night job.

Cleanup of Finished Orders and Finished Order lines

Finished Orders and Finished Order lines are deleted a number of workdays after they are finished. The number of workdays can be specified specially for Finished Orders and Finished Order lines with selected property 1410. If not 1410 is defined the general history life time in own site is used.

The job doing this is called Supply Database Cleanup. The job is scheduled on site level and should be run before the night jobs (including database cleanup).

Action on installation

Make sure that expect invoice and expect receipt advice are correct. If automatic receipt is not wanted, make sure expect receipt advice is checked!

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WebEDI: Mail to customer

A supplier is able to send an e-mail to the customer, using the e-mail address specified on contact person no 1.

The e-mail function is set up by a number of selected properties. One property determines if the e-mail function is supposed to be used or not. Then 3 different properties specifies how the subject line will look like and which data that will be picked up from the system. The correct subject is selected depending on if the mail is sent from an order, order-line or dispatch.

The e-mail function is activated by pressing a green envelope in the overview screen. The envelope is visualized if the property is set and the order has an e-mail address.

What to do activate the new functionality:
Set the property and send the e-mail address.

Action on installation

None

WebEDI: Mail to other business partners

Emails can be sent to the business partners defined in the order as 'ship to customer' and 'deliver to customer'. The e-mail address can be defined either in the order message or in the PipeChain Java Client.

The emails are automatically sent when confirming and/or when shipping the goods. The setup is defined by selected properties.

What to do activate the new functionality:
Set the property and send/define the e-mail address.

Action on installation

None

WebEDI: Attachments to order

Attachments to an order can be viewed and downloaded on the web.

What to do activate the new functionality:
Specific keywords have to be added to the order message.
A file attachment converter has to be used for reading the files into the PipeChain database, it has to be used and it is very likely that customer specific functionality has to be added.

Action on installation

None

Supply: Reading Purchase order messages

Previously, the shipped order lines can not be updated with the purchase order transaction. A new selected property, number 53 decides if the update is rejected for shipped or partially shipped order lines.

Action on installation

None

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PipeChain GUSI Converter

Ever since 2006, PipeChain has supported the GUSI process model and GS1 messages. PipeChain's GUSI converter is a lightweight plug-in for the PipeChain Supply software that converts the GS1 XML messages to PipeChain XML format, allowing for integration with any system that uses the GUSI/GS1 standard.

The latest GSI version supported is version 2.3. The following messages are currently supported by the converter:

- Despatch Advice
- Goods Requirement
- Inventory Activity/Inventory Status
- MultiShipment Order
- Order Response
- Receipt Advice
- Replenishment Proposal
- Replenishment Request

The messages and processes implemented supports both Vendor Managed Inventory (VMI) order management, as well as Traditional Order Management (TOM). A number of PipeChain customers have this converter in their supply chain; Augustin, Hepack, Unilever, Smurfit and Nestlé to name a few.

Action on installation

To use the converter software with the PipeChain Supply software, only three simple steps are needed:

1. Obtain the converter plug-in and place it in a directory on your server
2. Create a PipeChain supply channel and snap-in the plug-in.
3. Start the channel

Observe that no software installation process is needed. The plug-in can be made in a "hot" condition – this means that you can start using the plug-in on a server without having to shut it down first.

Additional Reading

For more information, please refer to the PipeChain GUSI Converter documentation.

Changed message log items

These message texts and exception texts have been changed in PipeChain 4.3.0:

From: No 120073
"{0} id \"{1}\", line \"{2}\" for {3} \"{4}\" \"{5}\" - " +
"change is not allowed since the order line has been shipped.")).",
To:
"{0} id \"{1}\" for {3} \"{4}\" \"{5}\" - " +
"Order change on this line is not allowed since the line \"{2}\" is {6}.))",

Action on installation

Check the configured event triggers with the changed message log items to ensure the users will get their events also with the new version.

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EDIFACT 1997A Compability

PipeChain Supply 4.3 is compatible with the EDIFACT 1997A compability with the following transactions; ORDERS, ORDRSP, DELFOR, DESADV, RECADV for both VMI and traditional order management.

This means that additional attributes for order and delivery handling as prices and currencies, the ability to show and include data as contact persons and documents references in screens and transactions, customization data, and much more has been added to PipeChan Supply.

Please do note that the delivery plan in DELFOR are only updated with quantities if the customer is responsible for the delivery agreement.

Supply: Customers purchase orders can now be updated

Incoming PurchaseOrders from the customer can now be updated. The PipeChain designation for this transaction is PW40/PurchaseOrders, formerly (pre 4.3.0) known as PW40/WebPurchaseOrders.

Please note that the value of "operation" (new, update, etc) is not considered when checking if the order is an update. If the order exist, PC Supply interprets this as an update. An update is not always allowed. When checking if an update is allowed - the replenorderstatus, deliverystatus and the frozenhorizon limit are considered.

Supply: Decimals on graph scale

Graph now use a sufficient number of decimals to produce unique scale marks, overriding any other setting of maximum allowed number of decimals.

Action on installation

None

Background Job deadlock solved

Backgrond jobs (often of type "Normal Data Exchange Manager") could become deadlocked, and eventually lock up the entire PipeChain Server. This problem is now solved.

Action on installation

None

WebEDI: New screen Delivery Precision

A new screen, listing suppliers' delivery precicion, is available under the MONITOR screen button. Several requirements must be fulfilled for the screen to be available.

1. Analyzer must be enabled in the license
2. The module "Analyzer" must be unlocked for the site
3. User must have a profile that allows the screen Analyzer/Delivery Precision

For the screen to operate properly, the Business configuration must contain valid login parameters to the Analyzer database

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Print for Windows Vista

There has been problems printing under Windows Vista. The PipeChain client could crash, especially after selecting another printer than the default. The problem was caused by an error in the Java Virtual Machine, and is fixed by upgrading to Java 1.6.0_14

Action on installation

Upgrade Java to version 1.6.0_14.

List style printing improved

The list style printing is now enabled for some of our newer screens (e.g. Invoice and InboundOrder). The printouts are improved to include table cell background color, icons and other graphic decorations.

Action on installation

None

Hide temporary users

The filter for users now lets you hide temporary users.

Action on installation

None

Supply: New transaction PW48 Outbound Despatch Advice

There is new transaction - PW48 Outbound Despatch Advice - that is triggered when a CS03 is received _if_ PW48 is set up for the channel in question and you have configured your process to expect despatch advice. Else the PW05 is sent as before.

You need to have a delivery note id and row number in CS03 to generated the PW48 with despatch packages as the procedure dictated for the ASN (Advanced Shipping Note) use case.

Supply: RN för Dev85 OrdRsp/DesAdv times and quantities

1) Provisions have been made to accurately supply the original, confirmed, and actually delivery/shipped quantity as well as original, confirmed and actual shipment and reception time to PW05 from incoming data from CS02 order response/ despatch advice and CS03 despatch advice.

2) With use of the new selected property 115, "Can a Despatch Advice update the outbound delivery's original and confirmed time and quantities?", can despatch advice (desadv) update original qty and time. You can now prevent desadv from updating the confirmed and original values in the outbound delivery. This is required for those systems (ie SAP SNC) where desadv cannot update an order. Default value of the property is "true".

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Supply: Incoming PW40 transaction can perform an order change that is not allowed to do manually

Fixed some issues regarding Status for order and delivery when it comes to orderchange. The behaviour has been changed so that even if a order is changed to the order system, an incoming transaction can now change the order. You are still not allowed to manually change the order (ie, in the order/delivery screens) if the status is Sent (Sent to order system).

The following order and deliv statuses is now ok to update for order and delivery respectively Requested, Sent, Confirmed, Change sent, and Change Requested

Also added a few checks so that the delivery times are now within the frozen horizon, not before current date, etc, and extended the existing error messages.

WebEDI: Inbound Order line invoice status

Inbound Order line invoice status is always set to invoiced when creating the invoice on the web page if the shipped quantity is zero.

Analyzer: Optimizations

The SQL that reads Data Exchanges for saving into Analyzer had performance problems, which were vastly improved in version 4.3.0 (using two new database indices, and some SQL changes).

The processing time for the OLAP database were improved significantly (roughly 50%) by using a new method for omitting "infinite" inventory Stock Days when averaging (they appear of outflow is zero). Instead of using a time-consuming combination of database views to set the values to NULL, the values are set to NULL directly in the FactInventory table, utilizing additions in the PipeChain platform.

Analyzer: Old method for managing product costs and volumes are replaced with a new method

The old Analyzer method (managing an Excel sheet containing product cost and volume) required lots of maintenance, and was thus not used by any PipeChain Analyzer customers.

This method is completely removed in version 4.3.0.

For the new method, the new attributes [Volume Value, Volume, Standard Cost] has been added to Own Bucket, visible in OwnBucket Detail, tab Analyzer Information.

The attributes are manually editable, but would normally be updated by the Own Product Definition transaction (CS08).

The attributes are added to the PipeChain Analyzer database tables FactInventory and FactDelivery, and used in the Inventory cube's Volume Value (Vvw) and Total Used Capital (Curr) measures.

Action on installation

If data for product cost and volume value are desired in PipeChain Analyzer Inventory cube, this data should be added to the Own Product Definition transaction (CS08).

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Analyzer: Deliveries/Shipments are saved even if there is no corresponding Delivery Agreement

In earlier versions, Deliveries/Shipments were not saved to the Analyzer if there was no corresponding Delivery Agreement.

This has been changed, since in PipeChain WebEDI installations Delivery Agreements are not necessary, and most often absent.

Since LeadTime can not be read from the Delivery Agreement, it will be set to zero. Thus, in the Shipments cube these deliveries may have a significant Lead Time Diff. This can only be avoided by creating Delivery Agreements.

WebEDI users normally views the data in the new Delivery Precision Report screen, which does not show leadtime.

Analyzer: Simplified deployment of PipeChain Analyzer

Deployment of PipeChain Analyzer has been simplified in two ways.

Instead of deploying using a Solution structure, only three files are needed:

- an OLAP database backup (PipeChainAnalyzer.abf)
- a SSIS processing package (Process.dtsx)
- a SSIS package configuration file (IS_PipeChainAnalyzer_Conf.dtsConfig)

Triggering of OLAP database processing (after the history data saving AnalyzerPoll background jobs have finished) are no longer performed via a file. Instead the processing command is entered directly into the AnalyzerProperties database table.

Action on installation

Instead of deploying using a Solution structure, only three files are needed:

- an OLAP database backup (PipeChainAnalyzer.abf)
- a SSIS processing package (Process.dtsx)
- a SSIS package configuration file (IS_PipeChainAnalyzer_Conf.dtsConfig)

Triggering of OLAP database processing (after the history data saving AnalyzerPoll background jobs have finished) are no longer performed via a file. Instead the processing command is entered directly into the AnalyzerProperties database table.

Further deployment details are found in "PipeChain Analyzer Administrators Manual" (online document) and in the upgrade documents.

Supply: Error messages for customer goods reception messages (ReceivingAdvice) are improved

The reception time and quantity is always written for all selection criteria.
Customer product id is also added in some cases

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Platform: New PipeChain database design that use filegroups

Studies of actual PipeChain customer databases has shown that the bulk of the database consists of a small number of tables. None of these are frequently used in time critical algorithms. In an effort to increase the overall system performance, a small number of tables (but almost all data) are moved to three new filegroups (DEMANDPLAN, MACOM and MESSAGELOG). It is not possible to quantify the performance improvement. Most algorithms perform database reads using indexes, these will not be much affected. Some algorithms may perform full database table scans, these should be significantly improved.

Action on installation

In addition to the normal database upgrade script, the script "PIPECHAIN_040200_TO_040300_MSS_FILEGROUPS_EDIT_FIRST.sql" is supplied. We recommend that this script is run immediately after the normal upgrade script (with a database backup between), but alternatively it may be run anytime in version 4.2.0 - if the performance gain is necessary.

As the name indicates, the script MUST be manually edited before it is run. The reason for this is that the actual "data file names" must be supplied, and that the database name may not be "PipeChain". A detailed description of editing requirements is found in the script header.

Copying the largest database tables will temporarily require a lot of disk space. A detailed description of space requirements is found in the script header.

LoadPlanner: Extended checks for the Shipment time of shipment towards the Reception time or Drop Point

The user is not allowed to set the Reception time of a drop point to be before the shipment time of the shipment

Action on installation

None

Analyzer: Collation (sorting order) is no longer specified by the PipeChain Analyzer OLAP database

An error in Microsoft SQL Server Analysis Server could prevent usage of certain combinations of dimensions/cubes. The error appeared only in 64-bit environments, and only if SSAS had a different default collation than the collation specified in the PipeChain Analyzer OLAP database. The error has been avoided by no longer specifying collation in the PipeChain Analyzer OLAP database.

This also means that the sorting order of the Analyzer dimensions is now controlled by the user.

Action on installation

Check that a suitable collation is selected in Microsoft SQL Server Analysis Server (top level) properties. Previously, the PipeChain Analyzer OLAP database specified "Finnish_Swedish Accent-Sensitive".

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Analyzer: Ability to exclude supplier, customer or product from PipeChainAnalyzer Service Level and Delivery Precision data.

PipeChain 4.3.0 contains an "ExcludeFromReports" attribute, which can be applied either on a Business Agreement (site x supplier) or a Delivery Agreement (site x supplier x product). It can be applied both on the supplier and customer side. The attribute is sortable in the overview screens so that such agreements can be found with ease.

PipeChainAnalyzer 4.3.0 will save the new attribute into the fact tables for Inventory and Deliveries. The corresponding views used by the OLAP database will replace all "Excluded" Service Level and Delivery Precision data with NULL, thus it will not show up in the Pivot tables.

PipeChain 4.3.0 01

Release Date: 2009-07-01

Despatch Advice CS03 updates the shipment time on the outbound delivery

When a Despatch Advice CS03 is processed the shipment time on the delivery will be set to the shipment time in the message.

New Java Runtime Environment (JRE 1.6)

From this service pack on a new Java Runtime Environment (JRE 1.6) is used.
The java version currently used by the client application can be found under the menu View/Properties on the Client properties tab. Eg.
java.version = 1.6.0_16

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PipeChain 4.3.0 03

Release Date: 2009-08-04

WebEDI: Configure default tab in order line screens

It's now possible to show a different tab as default in inbound delivery detail and inbound delivery suggestion detail.

2 selected properties defines what tab to be default when entering the order line

- 1501 - Set which delivery suggestion (unconfirmed order line) detail tab to be current. Valid: Suggestion, Order, Advanced or Additional.
- 1502 - Set which delivery (order line) detail tab to be current. Valid: Delivery, Suggestion, Order, Advanced or Additional

For the order process the Additional tab is recommended. This tab shows all interesting order line information.

Action on installation

New Items to translate:

- shortDescr (changed)
- prodVariant, replacing supplProdVariant
- egrUnit
- scrWSOutDelivSuggDet
- scrWSOutDelivSuggOv
- scrWSOutDelivDet
- scrWSOutDelivOv
- scrWSInvDespDet
- scrWSInvDespOv

Supply: Transaction conflict when processing CS21

There was an internal transaction conflict on CustProdNode when processing transaction FlowModel CS21. This was the case when updating delivery agreement with transaction CS21. This is now corrected.

Supply: Null pointer exception when processing Web Purchase Order PW40

There was a null pointer exception when processing Web Purchase Order Pw40 and optional fields: OrderrDate and Customer Address1 was missing. This is now corrected.

Supply: Null exception when sending Purchase order CS41 manually

Corrected error with null pointer exception when sending Purchase order CS41 manually. Also added optional elements ContactPerson, AdditinalInfo, and Document when sending CS41 manually

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Automatic receipt of inbound orders

Inbound purchase orders are received automatically if they have a receipt time in passed time and receipt advice isn't expected.

You can configure how many days after the receipt time the receipt is done (selected properties 360, integer). All order lines are received at the same time.

Depending on if despatch advice is expected or not the order is received in status shipped or confirmed.

If invoice is expected the order is received if invoice status has reached Invoiced.

WebEDI: Missing order confirmation, despatch advice and invoice transactions

Due to a design error transactions were not always sent on order confirmation, despatch and invoicing. The logic has been redesigned in order to secure that the order status is only changed if a transaction was sent. The result of order confirmation, despatch and invoicing should remain the same in normal cases. In error cases order confirmation, despatch and invoicing are interrupted if any error was found. This error has to be corrected before any part of the operation is saved to the database.

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PipeChain 4.3.0 04

Release Date: 2009-09-22

Supply: Flexible status to allow replenishment order sending to order system

Introducing a variable setting by a selected property 117, "Maximum DeliveryStatus for an Outbond Delivery of Delivery Type 'PureChase Order' that is allowed to send to the order system", the customer can customize the setting, which states the maximum status of a replen order that is still allowed to be sent to the order system Default is "Change Requested" (45)

Note that this Selected Property is only valid for outbound purchase orders

WebEDI: Invoicing with incorrect VAT

The VAT in the create invoice screen has been incorrect. This is now corrected.

WebEDI: Delivery Note improved

The Delivery Note PDF report from the WebEDI web application has been corrected and improved. More supplier data is printed in the page footer. Delivery recipient and Goods recipient is printed in the report head. The Package Note field says "Joined despatch" when despatch contains multiple orders. And more.

Action on installation

The Property Value "[224] Defines Delivery Note" should be given the setting "StdDeliveryNote.xml".

Supply: Production order as a complement to Inbound OrderOverview

A new version of the Inbound Order Overview screen is implemented. The purpose of the screen is to handle products belonging to the same product family in one order. A new attribute called minimum order quantity is implemented and the system can automatically adjust the quantities or the products in the order to this level.

The new functionality is available if the selected property 118 ("Always use production order scenario for inbound orders") is set

Other order attributes, not used in VMI, are removed.

Supply: Update ReplenOrder's status from goods reception CS06

Added instant update of the ReplenOrder's status when performing a goods reception from customer. Goods reception now triggers a background job that updates the orders status according to business rules.

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Supply: Update of Delivery Agreement with CS21

As from 4.3. CS21 can now update the delivery agreement for the customer in question. This can normally be done only if the customer is responsible for managing the delivery agreements which has caused problems when the suppliers manually sets up the Delivery Agreements (which he is not allowed to do if the customers manages the DA's).

By adding a selected property (116: Allow the customer to update his Delivery Agreements (with CS21) even though he does not manage them.) and setting this property to true, you can bypass the need for the customer to be the part responsible for the management of the DA's. The customer can then update the delivery agreements as if he were responsible for them.

Transaction and schema corrections

1) CS41 and several other transactions in 4.3.0 contained both "Email" and "Mail" in the "Customer" and "Supplier" elements, and what was really used differed from the implementation and the documentation. Now "Email" is the attribute used.

2) OrderStatus="Change Sent to Order System" in CS41 could in some cases contain faulty data. This has been corrected.

3) TotalDeliveryQuantity where missing from the OrderLine in the schema of all relevant transactions.

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Release Date: 2009-10-01

Analyzer: Inventory sums restored

When the new "Business Node with Sites" dimension was introduced in PipeChain Analyzer version 4.2.0 SP00, some arithmetic in the inventory cubes were changed.

The reason for this was that the arithmetic only depended on the old "Business Node per Site" dimension, and did not work correctly for the new dimension.

The effect was that the Inventory KPIs for entity (units) were shown as "averages" rather than "sums".

Now the Inventory KPIs for entity (units) are restored to showing "sums". This is done in a different way than before - that works for both business dimensions.

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Supply: Calculation of ReceptionTime from ShipmentTime (CS02/CS03) and vice versa (PW40) CS02/CS03

CS03 can now calculate the reception time using the CS03 ShippingRegistration.ShipmentTime. This functionality has previously only existed in CS02, with the attribute OrderLine.ShipmentTime used in the same way.

The calculation of reception time only occurs when the ReceptionTime attribute is missing in the transaction(*. The ReceptionTime attribute cannot be blank, this will yield an error.

Additionally, for CS03 the Selected Property 119; "Let Despatch Advice calculate reception time ..." needs to be set up with the value 'true', as this behavior differs from the default functionality of Despatch Advice.

(*Please note that there is one exception to this rule; If both Reception- and ShipmentTime are stated, and the ReceptionTime is earlier than the ShipmentTime, PipeChain will calculate a new ReceptionTime, and also add a warning to the message log. (But if the "normal" case that the ReceptionTime is missing there is no message logged, the ReceptionTime is just calculated).

PW40

For calculation of Shipment Time from Reception Time at PW40, there are a number of conditions that need to be fulfilled:

First of all, the order type must be the correct one. OrderHead.DeliveryType must be "Purchase Order" and OrderHead.SubOrderType must be "TOM".

Secondly, the OrderLine.ShipmentTime must be missing on the OrderLine in question(**. As in the CS02/C03 scenario, a blank ShipmentTime will cause an error to occur.

Please note that ShipmentTime is normally a required attribute in PW40 OrderLine, and this is a special case for Purchase Order/TOM.

(**Please note that there is one exception to this rule; If both Reception- and ShipmentTime are stated, and the ShipmentTime is a later date than the ReceptionTime, PipeChain will calculate a new ShipmentTime, and also add a warning to the message log. You still to have the order type Purchase Order/TOM for this to happen.

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Release Date: 2009-10-05

Supply: CS02 AcceptedPrice cannot be missing from the transaction

CS02

SP05 introduced a bug where Orderline.AcceptedPrice cannot be missing from the CS02 transaction or the transaction cannot be processed.

This issue has now been redeemed.

log. You still to have the order type Purchase Order/TOM for this to happen.

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Release Date: 2009-10-14

Supply: Reception time should not be set to shipment time when processing CS03

Reception time should not be set to shipment time when processing CS03 if reception time is not applied in CS03. Instead should the old value of reception time be used.

Supply: XML element Supplier was not used when processing transaction CS21 Customer FlowModel

Xml element Supplier was not used when processing transaction CS21 FlowModel. Supplier must be used when having several sites delivering to the same customer.

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Release Date: 2009-10-17

Supply: Delivery Suggestion Parameters no longer required for processing of PW40

Situation

The current functionality of PW40 requires Delivery Suggestion Parameters. I.e. you must have a connection to an order system and either auto or manual for delivery sending strategy.

This prerequisite has now been removed. If there is no Delivery Suggestion Parameters the order will not be forwarded to the order system.

Supply: Let PW40 PurchaseOrders update the orders shipment/reception times from the (first) orderline in transaction

Situation

Currently, any update in PW40 does not update the order head shipment- and reception time. When the order is created, the orders shipment- and reception time are fetched from the first order line.

For some customers, the desired functionality is that the order times are updated as the rest of the information. Other customers prefer to keep the original times.

Solution

By setting the selected property 120 ("Let PW40 PurchaseOrders update the orders shipment/reception times from the (first) orderline in transaction") the orders shipment and reception time are updated from the first incoming order line in the transaction.

Notes

In PipeChain 4.4, this update of order head's date from transactions will be changed.

Supply: Corrected 4.0 transaction names for CS41 and PW01

Situation

Change of transaction names between 4.3.0 and previous versions (4.0.0) resulted in erroneous transaction names when selecting that transactions should use PipeChain XML version 4.0.0 or previous, in a 4.3.0 installation.

This is restricted to PW01 and CS41 transactions.

The issue has now been addressed, and the above transaction now use their correct transaction name for the respective PipeChain XML version

Release Notes Summary

PipeChain 4.3.0



Supply: Monitoring

The monitoring functionality in the PipeChain Supply on the inbound side has been enhanced to cover order delay, confirmation and deviation from the demanded values.
As a new feature, the invoice deviation monitoring has been added.

WebEDI: Corrected cancelling of WebEDI orders

The order now gets status Cancelled when the order is Rejected by the supplier. Before only the lines were cancelled but the order head was still confirmed.

Summary of statuses after cancelling:

When Cancel Order comes from the customer (0 in quantity on all lines)

Order head status = Requested

Order line status = Cancelled

The supplier confirms the cancel and no order response is not sent to the customer.

When the supplier directly rejects an Order:

Order head status = Cancelled

Order line status = Cancelled

Order response is sent to the customer

When the supplier rejects an Order after a previous confirm:

Order head status = Cancelled

Order line status = Cancelled

Order response is sent to the customer

Release Notes Summary

PipeChain 4.3.0



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Release Date: 2009-10-27

WebEDI: Invoice confirmed price decimals

The price/confirmed price is now presented with 4 decimals on the Invoice Despatch WebEDI screen. Even the invoice transaction (CS80) now uses 4 decimals.

Supply: Delete of orders with longer history lifetime

The purge of old finished orders and order lines has been corrected so it now reads selected property 1410 in a correct way.

Supply: Product definition corrected when having flow model definition

When the product definition message containing a flow model definition element was processed it failed because of null

PipeChain 4.3.0 10

Release Date: 2009-11-12

Supply: CS06 Customer Receptionregistration do not handle Customer AssignedBy attribute and using DeliveryNotes

The AssignedBy attribute is not handled when performing a DeliveryNote Receptionregistration. This cause the transaction to fail if the AssignedBy=customer, and the customer assigned id's are used

Supply: Error on sending deliveries when order is missing, transaction CS01 and CS41 nullpointer exception

During certain circumstances, when a delivery that does not belong to an order is sent, the CS01 and CS41 transaction failes because of the missing order.

Supply: GrossWeight and NetWeight should not be mandatory in Despatch Advise CS03

There were some issues with CS03 (despatch advices). It looks like the message processor suddenly treats the GrossWeight and NetWeight as a mandatory attribute even if these attributes are optional (as before).

This has now been corrected so these attributes are optional.

Release Notes Summary

PipeChain 4.3.0



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Release Date: 2009-11-16

Corrected reader for PW40 PurchaseOrder

Corrected reader for PW40 PurchaseOrder - Contactperson for the order is created with data from the Customer's contact person if there is no contactperson information in the incoming order. A missing contact person could result in an error.

PipeChain 4.3.0 12

Release Date: 2009-11-12

WebEDI: Errors on confirm order

The following errors have been reported and now also corrected

- The deviation mail after confirm doesn't show the new deviating value, only the old value before the change
- When shipment and receipt time are hidden on line level, it's not possible to change shipment and receipt time on the order head. The new value isn't saved on the order head, just on the lines. A second update is required, then it's saved.
- After doing back order on order lines the normal behaviour was to keep the confirm dialog open. Since SP 3 the confirm dialog was closed when OK was clicked. Now it's back to remain open again.

These errors have been introduced in 4.3.0 SP 3.

WebEDI: Wrong VAT on invoicing

When one user is representing several suppliers and these suppliers have different taxes, the list of taxes can be taken from another supplier than the invoice is from. The behaviour is wrong when showing all suppliers and another supplier was shown previously.

This is now corrected.

Action on installation

Make sure all suppliers have correct taxes. The error also made it possible to just have taxes on one supplier, the other suppliers represented could use that list for free.

Release Notes Summary

PipeChain 4.3.0



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Release Date: 2009-11-23

Analyzer: Added product handling for WebEDI

When the PipeChain Analyzer saves delivery data, a reference to the Product dimension is mandatory. Previously, this meant that Own Buckets had to be configured before any finished deliveries were saved to the Analyzer. This was not practical for most WebEDI cases.

Now the Analyzer also scans finished inbound and outbound deliveries for its Product dimension. Thus, finished deliveries are saved to the Analyzer (and visible in the Delivery Precision screen) even in no Own Buckets exist. Note that presence of Partner Agreement is still mandatory.

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Release Date: 2009-12-02

Supply: Corrected Own Flowmodel Aggregate Online handling

When you have Own Flowmodel who's update mode is set to Aggregate online (Aggregate Every Time the Customer Flowmodel is updated), the channel of the incoming CS21 Flowmodel transaction is Business-restricted, but not Site-restricted, PipeChain fails to create the background-job that aggregates the Own Flow model.

This error means that the Own Flow model is not updated. A indicator of this error is that there is not job for Aggregate Own Flow Model in the message log. The log file will report: "Session Exception in addOneShotJob. Job id is Aggregate Own Flow Model. " at the time of the incoming CS21 transaction.

This is now remedied.

Analyzer: Corrected two minor problems regarding the Delivery Precision screen

The data used for the Delivery Precision screen now omits cancelled deliveries.

When the "Automatic Receipt" background job "finishes" a delivery (which is required for moving the delivery to PipeChain Analyzer), it sets "Receipt Time" to "Announced Receipt Time", previously, it was set to the current time.

Release Notes Summary

PipeChain 4.3.0



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Release Date: 2009-12-02

Supply: No delivery suggestions before christmas

When having an own flow model from outbound deliveries and a reception schedule with open days, the calculation fails if there are more than seven closed days in a row.

This error has now been corrected. The limit has been increased. There must be at least one open day within the next 365 days.

Supply: Finished inbound orders never cancelled

Due to a display error the status on finished inbound order is always shown as received even if it is cancelled.

This is now corrected so the status is either cancelled or received.

Release Notes Summary

PipeChain 4.3.0



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Release Date: 2009-12-15

Platform: Possible to set a timeout limit for database transactions

There are rare cases where database transactions can be locked without being detected by SQL Server itself. These locks will never be resolved, and may cause a hang-up for large parts of PipeChain. The situation requires a restart of the PipeChain server.

If this situation occurs regularly, a maximum time limit for any database transaction can be set using a property. Thus the situation can be detected and resolved automatically, and a server restart is no longer required. The timeout must be large enough not to interfere with normal database operation. We believe that 300s (5 min) is a safe setting. Note that the Analyzer Poll background job will override this setting since its typical database transactions are much larger than those of PipeChain Supply.

The property is set in the property file (..\bin\PipeChainServer.properties or ..\bin\PipeChainProcessLauncher.properties, add it to both if you are unsure which one you use) as in this example:

```
se.masystem.pipeline.server.sqltimeoutseconds = 300
```

Supply: Performance optimization in "Outbound Delivery" and "Outbound Delivery Suggestion" screens.

Each record in the "Outbound Delivery" and "Outbound Delivery Suggestion" screens contain four calculated "Availability" values. These are quite time consuming, especially if there are a large number of deliveries/suggestions.

These screens have been optimized by means of a minimized calculation, from which the four "Availability" values are computed. This method has the side effect that the sort orders using "Rel Avl Incl Sugg" is no longer supported, though the sort orders using "Rel Avl Excl Sugg" are still supported.

Analyzer: Simplified and completed algorithm for FlowModelWeek and FlowModelDay.

The complex SQL (a legacy from the 4.0.0 DTS implementation) for handling flow periods in the Analyzer database has been replaced with a much simpler algorithm.

This has two major advantages:

- 1 - All types of flowmodels are saved. Before several flowmodel types (e.g. "From Outbound Deliveries") were not saved to FlowPeriodWeek.
- 2 - The performance of (especially FlowPeriodWeek) was very variable, in rare cases extremely slow. Now, performance is consistent (and slightly better).

Release Notes Summary

PipeChain 4.3.0



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Release Date: 2010-02-24

Supply: Changing site from Duration Meter screen

Changing site, when standing in one of the Duration Meter screens, has been very slow. This problem is now fixed.

Action on installation

None

Analyzer: Error if Site Name was changed

If a Site Id or Site Name was changed, its DimBizNode record was NOT changed, but a new record was created.

If so, data in the cubes will be divided between the two Sites.

See "Action..." on how to check and fix this.

Action on installation

This Action applies if you use PipeChain Analyzer, have been running version 4.1.0, 4.2.0 or 4.3.0, and has upgraded to 4.1.0 SP13, 4.2.0 SP44, 4.3.0 SP17, 4.4.0 SP13, 4.5.0 SP00 or later.

If a Site Id or Site Name was changed, the corresponding DimBizNode record was NOT changed, but a new record was created. This means that cube data will be found under two Sites instead of one.

Run the below SQL on your Analyzer database to test if the problem is present. If the SQL returns no lines, everything is fine, otherwise please contact PipeChain Support on how to correct the saved history data.

```
SELECT * FROM DimBizNode DBN WHERE DBN.BizNodeType=10 AND (SELECT COUNT(SiteKey)
FROM DimBizNode IDBN WHERE IDBN.BizNodeType=10 AND IDBN.SiteKey = DBN.SiteKey) > 1
```

Release Notes Summary

PipeChain 4.3.0



Analyzer: Error in Inventory cube

A possible "race condition" could cause Inventory records saved on the same day to use different DimTime records.

The error requires that the installation contains more than one site, and is more likely to happen if there are many sites.

If the error has occurred, several measures in the Inventory cube (e.g. "Stock (units)") will be too low (divided by the number of different DimTime records).

See "Action..." on how to check and fix this.

Action on installation

This Action applies if you use PipeChain Analyzer, have been running version 4.2.0 or 4.3.0, and has upgraded to 4.2.0 SP44, 4.3.0 SP17, 4.4.0 SP13, 4.5.0 SP00 or later.

A possible "race condition" could cause Inventory records saved on the same day to use different DimTime records. This would cause several measures in the Inventory cube (e.g. "Stock (units)") to be too low (divided by the number of different DimTime records). Run the below SQL on your Analyzer database to test if any problem is present. If the SQL returns a zero count, everything is fine.

```
SELECT COUNT(FI.Inventory_Key) FROM FactInventory FI
INNER JOIN DimTime DT ON DT.Time_Key = FI.Time_Key
WHERE EXISTS
  (SELECT FII.Inventory_Key FROM FactInventory FII
  INNER JOIN DimTime DTI ON DTI.Time_Key = FII.Time_Key
  AND DT.Year = DTI.Year AND DT.WeekOfYear = DTI.WeekOfYear AND DT.DayOfWeek =
  DTI.DayOfWeek
  AND DT.Time_Key <> DTI.Time_Key)
```

If the SQL returns a non-zero count, the data may be corrected with the below SQL. It will be quite time and resource consuming if there are many (millions) of FactInventory records.

```
UPDATE FactInventory SET Time_Key =
  (SELECT MIN(FII.Time_Key) FROM FactInventory FII
  WHERE DatePart(yy, FactInventory.DimDate) = DatePart(yy, FII.DimDate)
  AND DatePart(mm, FactInventory.DimDate) = DatePart(mm, FII.DimDate)
  AND DatePart(dd, FactInventory.DimDate) = DatePart(dd, FII.DimDate)
  AND DimDate > '2008-05-01')
WHERE DimDate > '2008-05-01'
```

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Release Date: 2010-03-16

Release Notes Summary

PipeChain 4.3.0



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Release Date: 2010-03-18

Supply: No PW05 is sent when an outbound delivery is shipped

When an outbound delivery is shipped the order response/despatch advise is not sent. The problem only occurs from Outbound Delivery detail or overview.

This is now corrected.

PipeChain 4.3.0 20

Release Date: 2010-03-24

Platform: Added logging facilities, screen suppression

Some logging facilities are added.

A facility to suppress parts of certain screens is added.

PipeChain 4.3.0 21

Release Date: 2010-04-07

WebEDI: Goods Label in mail

The mail to Delivery Recipient and Goods Recipient is corrected.

The quantity and status is corrected when confirming

The quantity is set to det despatched quantity when shipping

Release Notes Summary

PipeChain 4.3.0



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Release Date: 2010-05-11

Webshop/SOC: Webshop Performance Tuning

The Webshop performance in this version is dramatically enhanced. The time required to render the product catalogues has been reduced due to using time optimized code and data caching.

Action on installation

Remove the directory custom\0\images\tree

Update custom\0\menu\menu_script.js with the new version

Update custom\0\menu\pipechain_menu_definition.jsp with the new version

Update custom\0\jsp\treepanel.jsp with the new version

Update custom\0\jsp\Template.jsp with the new version

Update custom\0\jsp\WebcustInDeliv.jsp with the new version

Replace the contents of the directory webapps\pipechain\images\tree with the new version

Add webapps\pipechain\js\dtree.js

Add webapps\pipechain\css\dtree.css

Remove webapps\pipechain\js\tree.js

Release Notes Summary

PipeChain 4.3.0



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Release Date: 2010-05-31

Platform: Background Job runtime parameters may be changed without server restart

The following parameters are now changeable as Selected Properties (i.e. without a server restart). Please note that the default values are carefully chosen, and should only be changed for a very good reason.

'se.masystem.common.bgjobs.maxjobs' has been moved from the property file to

Selected Property [9003] Max total no of 'Running' Background Jobs

'se.masystem.common.bgjobs.maxjobsofsametype' has been moved from the property file to

Selected Property [9004] Max no of 'Running' Single Run Background Jobs of the same type

In 4.3.0 SP16, it became possible to set a "max limit" for database calls (unlimited by default).

This limit was overridden for Analyzer Poll with a larger fixed limit. The Analyzer Poll limit is now replaced by

Selected Property [9002] Analyzer Poll DB Timeout (seconds)

Default is unlimited (if max limit is 0) or 1 hour (if max limit <> 0).

Message 20002 (Background Job finished) now logs the job's duration.

Message 20002 (Background Job finished) now logs the job's duration.

Performance in Outbound Order

Performance has been boosted for the "Order Lines" tab in screen Outbound Order

Release Notes Summary

PipeChain 4.3.0



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Release Date: 2010-06-14

Platform: Event Scanning background job was stuck in state "Stopping"

Since a background job can only be restarted when it is in state "Idle", this situation stopped all event mails from being sent.

The cause of the error is not fully understood, but the consequences of any unexpected error during "Stopping" will be that an error message is written to the log file, and the job is forced to state "Idle".

Supply: Send Deliv Forecast performance

Sending a Delivery Forecast transaction from the Customer screen is now much faster, since transaction creation is delegated to an asynchronously running background job.

Action on installation

None

PipeChain 4.3.0 25

Release Date: 2011-06-08

Supply/SOC/POC: New Code Signing Certificate

A new code signing certificate is used from this version on. The jar files located under following directories need to be updated:

1. On the PipeChain server side .\jre\lib\ext*.jar
2. On the web application side .\WEB-INF\lib*.jar
3. On the web application side .\WebStart*.jar

Generate inbound delivery suggestion doesn't work för JavaWebstart

Generate inbound delivery suggestion doesn't work för JavaWebstart.
The error is now corrected.

Action on installation

Note that the certificate is new for this version compared to the previous. When installing JavaWebstart all JavaWebstart files must be replaced.

Release Notes Summary

PipeChain 4.3.0



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Release Date: 2011-08-29

Delivery agreement not always updated from delivery agreement parameter group

The attributes from delivery agreement parameter group should normally be copied to the delivery agreement when using a parameter group. This was not always done. It was not done when adding or changing used parameter group in screens Inbound/Outbound Delivery Agreement overview. This is now corrected.

For example could this affect that no delivery suggestion where created as Deliver Suggestion Generation Strategy where Monitoring but the parameter group used where Automatic.