

ReleaseNotes PipeChain 2.3.1

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1 WELCOME

PipeChain is a software system that automates the flow of goods between companies, in production, between production and sales within a company.

- Supply
- LoadPlanner
- FlowProduction
- WebAccess
- Analyzer

You will find [ReleaseNotes for PipeChain 2.3.1](#):

You can also download the [ReleaseNotes for 2.3.1](#) in pdf-format. The pdf file may not be as up to date as the on-line version.

You can also access the current [ServicePack Notes for PipeChain 2.3.1](#):

Website: www.pipechain.com

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NOTICE

Information in this document is subject to change without notice.

2 RELEASE NOTES 2.3.1

2.1 Upgrade to version 2.3.1

2.1.1. Before upgrading to PipeChain 2.3.1

If you are using Data Exchanges to other PipeChain servers you should verify that these use at least 2.1.0. Although the Data Exchanges probably works with previous versions of PipeChain, this is neither tested nor supported by PipeChain AB.

+ Finding Partners using old versions

You can find the Customers and Suppliers using older versions than 2.1.0 through the SQL query below:

```
SELECT 'Supplier' As BizNodeType, BND.PipeChainVersion, BND.BizNodeId, BND.DelivAddressId, BND.Name, BND.Descr, BND.ContactPerson,
BND.Phone, BND.Email
FROM BizNodeDef BND, SupplBizNode PBN
WHERE BND.BizNodeId = PBN.BizNodeId
AND BND.DelivAddressId = PBN.DelivAddressId
AND PBN.SupplType = 10
AND BND.PipeChainVersion < 210
```

UNION

```
SELECT 'Customer' As BizNodeType, BND.PipeChainVersion, BND.BizNodeId, BND.DelivAddressId, BND.Name, BND.Descr, BND.ContactPerson,
BND.Phone, BND.Email
FROM BizNodeDef BND, CustBizNode PBN
WHERE BND.BizNodeId = PBN.BizNodeId
AND BND.DelivAddressId = PBN.DelivAddressId
AND BND.BizNodeType = 30
AND BND.IsPipelineBiz = 1
AND BND.PipeChainVersion < 210
```

We strongly recommend that your partners use of at least 2.0.1 due to the change in warning levels in the Duration Meters. All companies using PipeChain with a valid yearly service agreement are entitled to free access to the latest version of the licensed modules.

WebAccess 2.2.1, 2.2.2, 2.3.0 and 2.3.1 requires at least Internet Explorer 5.5 or at least Netscape 7.0. WebAccess works with Internet Explorer 5 and Netscape 6.0 but not optimal.

2.1.2. Upgrade from version 2.3.0, 2.2.X, 2.1.0, 2.0.X

Run the setup program for version 2.3.1.

Important to remember during upgrade

- When running the setup program there's a step where the parameters for database access shall be entered. Check that these are correct by using the button **Check Access**.

2.1.2.1 This must be done after upgrade from version 2.0.X

- Start the background job "Update Duration Meters" from the Background Job Overview or Detail screen. (This requires system administrator privileges).

2.1.3. Upgrade from version 1.5

2.1.3.1 This must be done before upgrade from 1.5

1. You must confirm or cancel all deliver suggestions that are locked but not confirmed.

2. If there are locked but not confirmed suggestions these will disappear!
3. Important to remember during upgrade
4. When running the setup program there's a step where the parameters for database access shall be entered. Check that these are correct by using the button Check Access.

2.1.3.2 This must be done after upgrading from 1.5

- Update the fill rate in the Customer's *Market Buckets*: Go to the screen **Customer Market Bucket Overview**, right-click in the list and choose **Update All**. This must be performed as the fill-rate is set to zero at upgrade.

The following two actions must be taken after upgrade from version 1.5.0 for the DurationMeter's to show correct symbols, colors and values:

- Set opening and closing days and, if necessary, opening hours in the Supplier's calendar (the tab Calendar in the screen Supplier Detail).
- Start the background job "Update Duration Meters" from the Background Job Overview or Detail screen. (This requires system administrator privileges).

2.2 Supply

2.2.1. New functions

2.2.1.1 Inbound Partial Shipments

The same functionality that was implemented on outbound partial shipments is now implemented in inbound deliveries.

This functionality can only be used if the shipments are made via the Inbound Despatch Advice transaction (PW03) to PipeChain. It is activated by setting the attribute SplitOrderLineOnPartialShipment in the PW03 transaction to true.

If used, a partial shipment will result in a new delivery in PipeChain. The original delivery will be decreased with the shipped quantity and still be Confirmed*. The new delivery will be fully shipped. The new delivery will have the same Delivery Id as the original delivery with an extension, "-X". X will be an increasing number for each partial shipment.

When shipping at least the remaining quantity the original delivery will be shipped.

If more is shipped after the original delivery has been shipped, a new delivery will be created with the new shipped quantity.

NOTE The functionality requires that the supplier ships with a Delivery Note Id. The Delivery Note Id must be unique for each supplier and product. The customer must receive the goods in PipeChain with Delivery Note Id and product through the Receipt Advice (CS06).

* All quantities, Minimum and Maximum Order Quantity, Demand Quantity Suggested Quantity, Confirmed Quantity and Confirmed Quantity 2 will be changed accordingly to be able in PipeChain Supply and Analyzer to find any differing quantities.

2.2.1.2 New Extra Agreement Fields

The "Order Text" fields have been extended with 3 Integer, 3 Decimal and 3 Boolean (true/false) fields. These fields are intended for integration purposes. They are currently not included in the order transactions from PipeChain.

The fields can be defined via the XML transactions CS08 and CS10.

It is possible to customize the names on these fields (as well as the Order Text fields) via properties in the Client's property file. The name is given as a short and a long name. The long name is used in the Detail screen and the short name in the Overview screen. In the Overview screen the long name is used as tooltip for the fields.

Example:

se.masystem.pipeline.inboundagreement.ordertext1.longlabel = Cost Center

se.masystem.pipeline.inboundagreement.ordertext1.shortlabel = CC

se.masystem.pipeline.outboundagreement.ordertext1.longlabel = Port A

se.masystem.pipeline.outboundagreement.ordertext1.shortlabel = Port A

The properties are $(2 * 3 * 2 * 4 = 48)$ in total with all combinations):

se.masystem.pipeline.[in/out]boundagreement.ordertext[1(2/3)].[short/long]label = The Label Text

se.masystem.pipeline.[in/out]boundagreement.orderboolean[1(2/3)].[short/long]label = The Label Text

se.masystem.pipeline.[in/out]boundagreement.orderdecimal[1(2/3)].[short/long]label = The Label Text

se.masystem.pipeline.[in/out]boundagreement.orderinteger[1(2/3)].[short/long]label = The Label Text

+ Screenshot

Screenshot: Inbound Delivery Agreement Detail

2.2.1.3 New Suggestion Generation Strategies

The suggestion generation can now be further controlled via new Suggestion Generation Strategies on Agreement Level. The different strategies are

- Automatic (default and the only possible alternative prior to this release)
- Manual - Suggestions are created manually by users.
- Generation Blocked - No suggestions are generated before the Until date. After the Until date suggestions will be created automatically.

- Generation and Sending Blocked - No suggestions are generated before the Until date. No suggestions are sent in the delivery forecasts to partners. After the Until date suggestions will be created automatically and the suggestions will be sent in the delivery forecast to partners.
- Monitoring - No suggestions are created at any time. Another system is assumed to manage the flow and PipeChain is expected to only monitor the flow.

+ Screenshot

The screenshot displays the 'Inbound Delivery Agreement Detail' window in the PipeChain Supply Client 2.3.1. The window has a menu bar (File, View, Go, Help) and a toolbar with various icons. The main form area contains several sections:

- Supplier Information:** Supplier Id (82), Supplier Name (WebSupplier), Product Id (731050032900), Product Name (Pizza), Supplier's Product Id (731050032900).
- Agreement and Strategy:** Agreement (Blanket Order), Strategy (Bucke), Suggestion Generation Strategy (Generation Blocked), Agreement Model (Partial Flow Periods), Advanced.
- Stock Level Control:** Critical Time (1,5d), Lead Time (5,0d), Safety Time (5,0d), Max Time (15,0d), Safety Balance (0,00), Max Balance (0,00), Green Balance (0,00).
- Delivery Quantities:** Min Delivery Quantity (5,00), Multi Unit Quantity (5,00), Delivery Unit.
- Reception Schedule:** Reception Schedule Id (82).

A dropdown menu is open for the 'Suggestion Generation Strategy' field, showing the following options: Automatic, Manual, Generation Blocked (selected), Generation and Sending Blocked, and Monitoring. The 'Generation Blocked' option is highlighted in blue.

Screenshot: Inbound Delivery Agreement Detail

2.2.1.4 Weekly transports with more than 1 week lead time

Reception Schedules can now have more than one week between Shipment Time and Receipt Time. This is used by setting the number of weeks ahead of the of the Receipt Time that the Receipt is expected.

To aid the user in setting a correct value, on each row the next date for the Shipment Day and Time is shown along with the corresponding Receipt Day and Time.

+ Screenshot

PipeChain Supply Client 2.3.1 - MSS Dev_Own DDC

File View Go Help

Outbound Reception Schedule Detail

Customer Id: 326 Address: 01 ☐ Customer Manages Agreements
 Name: Webcustomer Customer: Has Web Access to This PipeChain Supply
 Schedule Id: Annas
 Last Updated: 2005-05-04 12:24

Schedule Type

☐ Reception Days
☒ Transport Times
☐ LoadPlanner Routes

Reception Days Weekly Transports Cancelled Transports Extra Transports Transport List

	Shipment Day	Shipment Time	Receipt Day	Receipt Week	Receipt Time	Note/Route	Next Shipment	Corresponding Receipt
1	Monday	15:28	Monday	2	15:28		2005-05-09 15:28	2005-05-23 15:28
2	Tuesday	15:28	Tuesday	2	15:28		2005-05-10 15:28	2005-05-24 15:28

Navigation buttons: [Back] [Forward] [Home] [Search] [Print] [Delete] [Refresh] [ALL COLUMNS] [Clear]

Screenshot: Inbound Reception Schedule Detail

2.2.1.5 FlowModels shown in Bucket Overview screens

In the Own Bucket Overview and Customer Bucket Overview it is possible to see both FlowModel Type and Update Mode for each product. If no Flow Model exists for a product the fields are blank. It is possible to sort on both FlowModel Type and Update mode.

2.2.2. Functions released in ServicePacks to 2.3.0

2.2.2.1 New tab Closing Inventory in the Inventory Chart (SP01)

A new tab with table data as opposed to the graphical data of the Inventory Chart is now available. It is found in the Inventory Chart under the name Closing Inventory. The tab is available in the Inventory Chart, Inventory Chart for Customer Bucket and Inventory Chart for Supplier Partial Bucket.

In this tab the data is displayed for each day. The data found in the tab is;

- The on-hand balance now.
- The demand in backlog (it there is any)
- The total quantity of late shipments not yet received (it there is any)
- date
- total demand for each day,
- the expected balance at the end of the day without deliveries and without suggestions.
- the expected balance at the end of the day with deliveries and without suggestions.
- the expected balance at the end of the day with deliveries and suggestions.
- the total quantity of deliveries expected to be received during the day.
- the total quantity of suggestions expected to be received during the day.

+ Screenshot Closing Inventory

	Date	Requirement	Balance	Inbound Deliveries	Balance incl deliv	Inbound Suggestions	Balance incl sugg
1	Stock on hand		14 000		14 000		14 000
2	Backlog	10 850	3 150		3 150		3 150
3	Late deliveries		3 150	200	3 350		3 350
4	2005-05-04	1 350	1 800	4 950	6 950	0	6 950
5	2005-05-05	600	1 200	250	6 600	0	6 600
6	2005-05-06	450	750	550	6 700	0	6 700
7	2005-05-07	0	750	0	6 700	0	6 700
8	2005-05-08	0	750	0	6 700	0	6 700
9	2005-05-09	250	500	1 100	7 550	0	7 550
10	2005-05-10	250	250	0	7 300	1 100	8 400
11	2005-05-11	250	0	0	7 050	1 100	9 250
12	2005-05-12	700	-700	0	6 350	3 250	11 800
13	2005-05-13	200	-900	0	6 150	550	12 150
14	2005-05-14	0	-900	0	6 150	0	12 150
15	2005-05-15	0	-900	0	6 150	0	12 150
16	2005-05-16	50	-950	0	6 100	0	12 100
17	2005-05-17	100	-1 050	0	6 000	0	12 000

2.2.2.2 Optional Update of Duration Meters in Inventory Report (SP01)

With a new attribute in the Inventory Report (CS04) it is possible to disable the update of the Duration Meters. This is useful if users want to subscribe to the Duration Meter Red / Yellow warning messages and the Inventory Report arrives to PipeChain before the new demand (Production Plan).

2.2.2.3 New fields and sorting in Overview screens and Grids (SP01)

Unit of Measure has been added to the Suggestion Overview screens, the Agreement Overview screens, the Delivery grids in Own Bucket Detail, Order Detail screens (Supply and WebAccess) and the Shipment Detail screen (LoadPlanner).

Delivery Unit Quantity has been added to the Agreement Overview screens, and in the WebAccess for Customer's screen Inbound Delivery Agreement Detail. Number of Delivery Units for the highest Fillrate has been added to the Shipment Overview screen in the LoadPlanner.

Customer Product Name and Order Text fields has been added to the Shipment Detail screen in the LoadPlanner.

New sort orders in the Shipment Detail screen in the LoadPlanner; Delivery Status, Receipt Time, Customer Product Id, Customer Product Name, Sales Order, Replenishment Order, Purchase Order, Delivery Note Id, Delivery Id and Order Texts.

Applying this Service Pack requires the jar-files to be changed on the Server, Client and WebAccess.

2.2.2.4 Goods receipt without balance update (SP05)

With a property on customer level it's now possible to receive goods for a customer without having the balance updated. This makes it possible to send in the balance during the night and do a manual goods receipt during the morning, followed by a delivery suggestion calculation. Note that the virtual balance is incorrect between the balance update and the goods receipt.

The property is

`se.masystem.pipeline.UpdateCustomerBalanceOnReceipt + . + CustomerId + . + DeliveryAddressId`

If the CustomerId or the DeliveryAddressId contains a space it should be replaced by a _.

Example:

```
se.masystem.pipeline.UpdateCustomerBalanceOnReceipt.A123456.003=false
```

2.2.3. Correction of known errors

2.2.3.1 Error when processing CS02 in classic format (SP02)

Processing of Order Confirmation CS02 fails due to a null pointer exception.

This is now corrected.

2.2.3.2 Confirmed deliveries no longer inside confirm margin (SP04)

The "Send Delivery Suggestions" strategy "Automatic send and change" doesn't work as expected with confirmed deliveries that moves outside the confirmation margin.

When we set the confirmation margin to a very small number, all orders that are not anymore in this confirmation margin should be cancelled, but they are not.

Same goes for moving for example a customer demand outside confirmation margin sends a CS42 for an orderchange and the operation is "Updated" not cancelled. (the order was confirmed, not fixed, and not in frozen margin)

Same goes for the inbound side.

The error is corrected. The same logics as used for "On Hold" is now used for this case as well.

2.2.3.3 Customer Product Id is not opened for editing (SP04)

The field "Customer's Product Id" is not opened for editing for a configuring user even though all other fields are open and the field must be filled in when a new agreement is created.

The error is now corrected.

2.2.3.4 Requesting a purchase requisition fails (SP04)

The CS40 transaction fails with a null pointer error.

The error is corrected.

2.2.3.5 Goods Reception fails due to transaction conflict (SP04)

When two or more order lines on the same order has the same product and are received in the same transaction the reception registration fails due to transaction conflict.

This can happen both with inbound orders and outbound orders.

The errors are now corrected.

2.2.3.6 Authorization level for Reception Schedules & Shipments (SP05)

A normal user may now create extra transports and shipments and may also cancel transports and shipments.

2.2.3.7 Not allowed to start many data exchanges (SP05)

It has been possible to start a new data exchange even if the old one is still running. This is not allowed anymore for a normal or configuring user unless the old data exchange has been running for at least 10 minutes. If a Normal is running it's not allowed to start a Total Exchange, they are grouped together. It's allowed to start a Check Connection after one minute even if the old one is still running. A system administrator will get a dialog where it's possible to start it anyway.

2.2.4. Transaction Changes XML

2.2.4.1 New attributes in Product Definition (CS08) and Delivery Agreement (CS10)

The values for the new Order fields in the agreements can be defined via CS08 and CS10. The new attributes are:

- Order Boolean 1, 2 and 3
- Order Integer 1, 2 and 3
- Order Decimal 1, 2 and 3

2.2.4.2 Optional Update of Duration Meters in Inventory Report (SP01)

With a new attribute in the Inventory Report (CS04) it is possible to disable the update of the Duration Meters. This is useful if users want to subscribe to the Duration Meter Red / Yellow warning messages and the Inventory Report arrives to PipeChain before the new demand (Production Plan).

2.3 LoadPlanner

2.3.1. Functions released in ServicePacks to 2.3.0

2.3.1.1 Adjust Shipment by moving order lines (SP01)

When there are more than one transport a day and all order lines is put on the last shipment, there is now a way to automatically move the order lines to the earlier shipments.

When a shipment has less than 100% fillrate it's not always best to just increase the quantities on that shipment. To get lower duration order lines must be moved from later shipments to fill up the earlier shipment if wanted.

Now there are two alternatives to choose between when the fillrate is adjusted on a shipment.

- When the fillrate is above 100% you can choose between moving order lines to earlier shipments or to decrease the order lines.
- When the fillrate is below 100% you can choose between moving order lines from later shipments to this shipment or to increase the quantity on this shipment.

For automatic sending of order and order lines there are two alternatives on the Route corresponding to this, Minimum number of order lines and minimum duration.

It is also possible to adjust a Shipment without any order lines (as of SP05)

2.4 FlowProduction

2.4.1. Functions released in ServicePacks to 2.3.0

2.4.1.1 New rescheduling case Find First Possible Date

The new rescheduling case "Find First Possible Automatic Shipping Date" is available in the Rescheduling Dialog for single delivery orders (it is neither applicable for multiple delivery orders, nor for production orders). It always uses the automatic algorithm with forward scheduling, but Preproduction Window and Joint/Non-Joint scheduling can be specified in the dialog (default values are fetched from the Production Business).

The operation does not affect the order primarily, but displays the earliest possible shipping date and then offers the planner to perform the operation simply by pressing a [Yes] button.

Technical note: the operation is actually implemented as a full reschedule followed by an unconditional reverse-operation. This implies that it will work correctly also in the Non Joint case.

2.4.1.2 Replacement of non-scheduled orders (SP01)

Previously, if a replacement request was received for a "Not_Scheduled" order, the replacement request was always accepted, and the order would remain "Not_Scheduled".

Now, additional logic has been added:

- If the order was descheduled by a manual request (saved in "Scheduling History"), the old logic is used. The explicit manual operation will not be overridden by the automatic one.

- If the order was scheduled automatically, but scheduling failed (e.g. due to capacity problems), a new scheduling operation takes place. The order will be replaced if scheduling is successful OR if "unconditional replacement" is used.

There has been some consistency improvements in "Scheduling History". All Delivery Order scheduling operations will be saved in a similar way. Note though, that Production Order scheduling operations are never saved.

2.4.1.3 New status between Started and Picked

It is a problem that Production Orders may be started and then cancelled after picking has been started. This is one of several possible changes in this area.

The previous status "Started" has been split into two statuses "Start Initiated" and "Start Confirmed". The previous status should be interpreted as "Started in PipeChain FlowProduction only". When the first Component Pick (FP40) or Unit Pick (FP42) transaction has arrived, the Production Order, Delivery Order Line and Delivery Order will become "Start Confirmed".

For Production Orders the same change is applied to the "Unit Started" status. When the last unit is started, the Production Order status will become either "Start Initiated" or "Start Confirmed" depending on if any picking has occurred.

The "Cancel" operation is still available in all statuses until "Produced", but an additional warning will appear (this logic may become more strict in another development case) as soon as the order becomes "Confirmed". The warning appears both for Delivery Order and Production Order Cancel.

Note: All current orders in status "Started" and "Unit Started" will be converted to "Start initiated" and "Unit Start Initiated", also if picking has occurred. The status will be corrected when the next picking/production transaction arrives, normally within one day.

2.4.1.4 New Status "Not Scheduled"

Previously, Delivery Order Lines and Production Orders were created in the status "Ready To Start" regardless if the corresponding Delivery Order was scheduled or not. It was necessary to also look at the Production Date to fully understand the actual status.

Now, these objects too use the status "Not Scheduled".

This change is not as trivial as it may seem, and affects all scheduling operations. It is advised to test all such operations (including order replacement) with realistic data before adding it to a running environment.

Note: If there are any currently "Not Scheduled" Delivery Orders, their Delivery Order Lines and Production Orders will remain in status "Ready To Start" until the Delivery Order undergoes a scheduling operation.

2.4.2. Correction of known errors

2.4.2.1 Error in enforced Production Order scheduling (SP04)

An error in Enforced Production Order Scheduling was introduced along with the new function "First Possible Date"-scheduling in FlowProduction 2.3.0Sp01.

The date entered in the enforced scheduling case was not saved properly, which caused the allocation date to become 2999-12-31.

Erroneous orders can easily be checked since these allocation dates will be displayed in the Preallocation Date field in the Resource Demand grid.

If the order is rescheduled using any other scheduling algorithm, the error will disappear.

2.5 MACom

2.5.1. Correction of known errors

2.5.1.1 Encoding in SOAP doesn't handle Swedish characters (SP02)

When the SOAP servlet received SOAP messages with special Swedish characters, these weren't handled with UTF-8, so the message wasn't correct when PipeChain processed it. This is now corrected. Only the SOAP servlet is affected.

2.6 Platform

2.6.1. Functions released in ServicePacks to 2.3.0

2.6.1.1 Enhanced parallelity in logging to file

The mechanism for logging to file has been enhanced to avoid deadlocks in the logging, which can stall the server.

2.6.2. Correction of known errors

2.6.2.1 Grouping by date is language dependent in MS SQL Server (SP01)

When the German version of the Microsoft SQL Server Database Manager is installed also German formatting and parsing of dates is used.

In a "group by date" function used by PipeChain this caused some troubles since the format of the date wasn't valid in the German locale.

The function has now been corrected so it now uses locale independent date parsing and formatting. The "group by date" was used for creating an order for a shipment day and showing its order lines in screen Inbound Order Detail.

2.6.2.2 ServerProxy: Listing of registry entries removed (SP04)

A dummy call to a function listing the names in the registry is now removed. It always failed and filled the log file with unnecessary information. The call was a workaround for an error in JDKs prior to 1.2.2.

2.6.2.3 Deadlock in read statements (SP05)

Complicated read queries could get in conflict with writing statements in the MS SQL server database. The problem is solved by having a lower deadlock priority for the writing process