

Order Data Transfer

Field No.	Description	A/N	Length (Bytes)	Offset	Remarks
▶ see Comments					
▶ 1	Transaction	N	1	0	
2	Order Number	A	10	1	
3	Part Number	A	4	11	
▶ 4	Spec. Number	A	10	15	
▶ 5	Delivery Date	N	8	25	DDMMYYYY
6	Date Code (to indicate "week ending" etc.)	A	1	33	
▶ 7	Customer Name	A	24	34	
▶ 8	Board Grade	A	12	58	
▶ 9	Code for Format Changes (Product Type)	A	3	70	
▶ 10	Width	N	4	73	
▶ 11	Length	N	4	77	
▶ 12	Ordered Quantity (as ordered by the Customer, the "Commercial" Quantity)	N	6	81	
▶ 13	Ordered Quantity (the "Technical" Quantity that is to be produced)	N	6	87	
▶ 14	Overrun Tolerance	B/N	2	93	%
▶ 15	Max. Number Out on the Corrugator	B/N	1	95	
▶ 16	No Trim on Corrugator	A	1	96	
▶ 17	Scores (Part 1)	N	48	97	12 x 4
▶ 18	Special Scores (Part 1)	A	11	145	11 x 1
▶ 19	Teartapes	N	12	156	3 x 4
▶ 20	Special Instructions (Corrugator / Planning)	A	50	168	
▶ 21	Corrugator Code	A	6	218	
▶ 22	Conversion Information (Section of 12 Bytes repeated 6 times)	A	72	224	6 x12
	1 Machine Code	A	6		
	2 Number Out on that Machine	N	2		
	3 Run Time	B/N	4		HHMM
▶ 23	Cutting Dies No.	A	10	296	
▶ 24	Number of Machine on which Die-Cutting takes place	B/N	1	306	
▶ 25	Printing Dies No.	A	10	307	
26	Ink Colour Codes	A	20	317	
▶ 27	No. of Machine on which Printing takes place	B/N	1	337	
▶ 28	Special Instructions (Conversion)	A	45	338	
▶ 29	No. of Machine the Instructions are intended for	B/N	1	383	
▶ 30	Text on Pallet Label (3 lines à 20 char.)	A	60	384	
▶ 31	Customer's Order Number	A	10	444	
▶ 32	Interior Measurements	A	18	454	
▶ 33	Total Pallet Height	B/N	3	472	cm
▶ 34	Pallet Type	A	6	475	
▶ 35	Pallet Size	A	9	481	

Field No.	Description	A/N	Length (Bytes)	Offset	Remarks
▶ 36	Wrapping (Film)	A	5	490	
▶ 37	Strapping	A	5	495	
▶ 38	Protection	A	5	500	
▶ 39	Label Type	A	1	505	
▶ 40	No. of Labels per Pallet	B/N	1	506	
▶ 41	Quantity per Pallet	B/N	5	507	
▶ 42	Quantity per Bundle	B/N	3	512	
▶ 43	Customer Number	A	6	515	
44	Box Certificate Stamp	A	5	521	
45	Unused	A	5	526	
▶ 46	Special Material Combination (7 papers à 10 chars. each)	A	70	531	not used at most sites
47	No. Pallets per Unit	B/N	1	601	
48	No. of Stacks per Pallet	B/N	1	602	
49	Overall Dimensions: Width	B/N	4	603	
50	Overall Dimensions: Length	B/N	4	607	
51	Palletizing Pattern	A	6	611	
52	Shipping Area (e.g. Post Code)	A	6	617	
▶ 53	Personalized Data (Part 1)	A	244	623	
54	Sales Agent Code	A	6	867	
▶ 55	Capacity Reservation Order	A	1	873	
56	Ink Colour Names	A	120	874	6 x 20
57	Ink Consumption (g / 1000 passes)	B/N	36	994	6 x 6
58	No. of Ink Colours	B/N	1	1030	
59	Box Style	A	20	1031	
60	Glue Style	A	20	1051	
61	Scores on the Conversion Machines	A	30	1071	see field 107
▶ 62	Board Grade Change not allowed	A	1	1101	
▶ 63	Scores (Part 2)	B/N	32	1102	8 x 4
64	Special Scores (Part 2)	A	8	1134	8 x 1
▶ 65	Type of Pallets on top	A	6	1142	
▶ 66	Size of Pallets on top	A	9	1148	
▶ 67	No. of Pallets on top	B/N	1	1157	
▶ 68	No. of Identical Pieces	B/N	1	1158	
▶ 69	Stereo Availability	A	1	1159	
▶ 70	Date of Stereo Availability	B/N	8	1160	DDMMYYYY
▶ 71	Tool Availability	A	1	1168	
▶ 72	Date of Tool Availability	B/N	8	1169	DDMMYYYY
▶ 73	Blocked for Planning Reasons	A	1	1177	
▶ 74	Blocked for Sales Reasons	A	1	1178	
▶ 75	Priority	A	1	1179	
▶ 76	Additional Conversion Information (Section of 8 Bytes repeated 6 times) Net Board Size (square mm ² coming off that conversion machine)	A	48	1180	mm ²
77	Delivery Time	A	4	1228	
▶ 78	First Run of this Article	A	1	1232	

Field No.	Description	A/N	Length (Bytes)	Offset	Remarks
▶ 79	Re-run	A	1	1233	
▶ 80	One Corrugator Run only	A	1	1234	
81	No. of different Labels per Pallet	N	2	1235	
82	Reserved	A	25	1237	
83	Personalized Data (part 2)	A	738	1262	
84	Predecessor	A	15	2000	
85	Parts needed from Predecessor	N	2	2015	Default: 1
86	Successor	A	15	2017	
87	Parts needed by Successor	N	2	2032	Default: 1
▶ 88	Underrun Tolerance	B/N	5	2034	In % with decimals
▶ 89	No. of Ink Colours (2 nd Pass)	B/N	1	2039	
▶ 90	Conversion Step No (Printing) (2 nd Pass)	B/N	1	2040	
▶ 91	Printing Dies No (2 nd Pass)	A	10	2041	
▶ 92	Ink Colour Names (2 nd Pass)	A	120	2051	6 x 20
▶ 93	Ink Consumption (g / 1000 passes) (2 nd Pass)	B/N	36	2171	6 x 6
▶ 94	Stereo Availability (2 nd Pass)	A	1	2207	
95	Date of Stereo Availability	B/N	8	2208	DDMMYYYY
▶ 96	Ink Colour Codes (2 nd Pass)	A	20	2216	
▶ 97	Given Setup Time for Conversion Machines (Section of 4 Bytes repeated 6 times)	B/N	24	2236	
	Setup Time	B/N	4		HHMM
▶ 98	Sheets per Pallet after Production Step (Section of 5 Bytes repeated 7 times)	B/N	35	2260	
	1 After Corrugator	B/N	5		
	2 After Conversion Step 1	B/N	5		
	3 After Conversion Step 2	B/N	5		
	4 After Conversion Step 3	B/N	5		
	5 After Conversion Step 4	B/N	5		
	6 After Conversion Step 5	B/N	5		
	7 After Conversion Step 6	B/N	5		
▶ 99	Planning Speed for Conversion machines (Section of 6 Bytes repeated 6 times)	B/N	36	2295	Passes per Hour
	1 Conversion Step 1	B/N	6		
	2 Conversion Step 2	B/N	6		
	3 Conversion Step 3	B/N	6		
	4 Conversion Step 4	B/N	6		
	5 Conversion Step 5	B/N	6		
	6 Conversion Step 6	B/N	6		
▶ 100	Target Speed for Conversion machines (Section of 6 Bytes repeated 6 times)	B/N	36	2331	Passes per Hour
	1 Conversion Step 1	B/N	6		
	2 Conversion Step 2	B/N	6		
	3 Conversion Step 3	B/N	6		
	4 Conversion Step 4	B/N	6		
	5 Conversion Step 5	B/N	6		
	6 Conversion Step 6	B/N	6		
101	Teartape Type	A	15	2367	Blank = Standard TT Codes by arrangem.
102	Conversion Step No (Stitching)	B/N	1	2382	

Field No.	Description	A/N	Length (Bytes)	Offset	Remarks
103	Corrugator Palletization: Pallet Pattern	A	6	2383	
104	Corrugator Palletization: Number of Stacks forming the Length of the Total Pallet Stack	B/N	2	2389	
105	Corrugator Palletization: Number of Stacks forming the Width of the Total Pallet Stack	B/N	2	2391	
106	Corrugator Palletization: Pallet Type	A	6	2393	
▶ 107	Conversion Scores (Corrugator Direction)	A	30	2399	see field 61
▶ 108	Production Control Codes for each Production Step (Section of 6 Bytes repeated 7 times)	A	42	2429	
	1 For Corrugator	A	6		
	2 For Conversion Step 1	A	6		
	3 For Conversion Step 2	A	6		
	4 For Conversion Step 3	A	6		
	5 For Conversion Step 4	A	6		
	6 For Conversion Step 5	A	6		
	7 For Conversion Step 6	A	6		
109	Storage Location of Cutting Dies	A	15	2471	
110	Storage Location of Printing Dies	A	15	2486	
111	Storage Location of Printing Dies (2 nd Pass)	A	15	2501	
112	Finished Goods Price per 1000	B/N	8	2516	No decimals
113	Cutting Dies No. (2nd Pass)	A	10	2524	
114	Number of Machine on which Die-Cutting takes place (2nd Pass)	B/N	1	2534	
115	Storage Location of Cutting Dies (2nd Pass)	A	15	2535	
116	Tool Availability (2nd Pass)	A	1	2550	
117	Date of Tool Availability (2nd Pass)	B/N	8	2551	DDMMYYYY
▶ 118	Type of Capacity Reservation Order	A	1	2559	

Comments

Field	Remarks
1	<p>Transaction. The valid different transaction codes are the following:</p> <p>0 Insert / Update order (depends if order already exists or not) 1 Insert new order 2 Update order 3 Delete order (only order number needed, no further order data) 4 Definition of „Don't care character“ (standard value: @); only 4 is needed plus any character) 5 Update order, but reject update if order is already scheduled on any operation C See Layout ORDER COMMENT TRANSFER at the end of this document.</p> <p>Primarily, the value 0 should be used, meaning "add new order", or "update" if it is already there.</p> <p>Modifications affecting the corrugator scheduling (e.g. width, length, number out) are refused if there are any corrugator schedules for the order.</p> <p>Selective modification: With record type 2, it is possible to modify a single field in the order. The record must contain the field(s) to be changed, and the order key (fields 1-3). All other fields must be filled with the character '@' in all positions. (That character can be changed by the transaction type 4).</p>
4	<p>Spec. Number: If a customer's article number is longer than 10 characters, this field can be replaced by an enlarged field (up to 20 characters) in the personalized areas.</p>
5	<p>Delivery Date: The best solution is to use the date the order needs to be <i>ready for delivery</i>.</p> <p>Otherwise the date the order needs to be <i>at the customer</i> should be used. In this case, an operation for Long Distance Transportation carrying a corresponding duration should be transferred.</p> <p>Week orders: (a) Transfer the date of the Saturday of the delivery week. (b) transfer a particular character (for example "W" in field 6.</p>
7	<p>Customer Name: Short name for the customer. If the unabridged name is required for labels etc., add a corresponding personalized field.</p>
8	<p>Board Grade: Orders with an undefined board grade code will be temporarily stored under board grade ERROR.</p> <p>To reduce the number of special board grades, it makes sense to use a particular code (one code per flute type), and specify the papers in field 45. The orders will then appear mixed together in Optimisation, but must be scheduled one by one.</p> <p><i>The length of this field cannot be increased.</i></p>
9	<p>Codes for Format Changes: The Product Code governs format changes in Optimisation. Use only two of the three characters. Suggested values at startup:</p> <p>BO Normal box DC Die cut SH Sheet work</p>
10+11	<p>Width & Length: Corrugator sheet size</p>

Field	Remarks
12+13	Ordered Quantity: For most orders, put the same figure in both fields. For orders where two (or more) parts per article are stitched together (or similar), enter the number of articles ordered in field 12, and the number of corrugator sheets in field 13 (usually the double of the number in field 12). In those cases, put the number of identical pieces into field 68.
15	Max. No. Out (Corr.): This field can be used in special cases when a limitation is required for the Corrugator Optimisation to create combinations with more outs than the value for this order, e.g. to avoid short runs. Normally, this field should be blank.
16	No Trim (Corrugator): BLANK: Orders using the full paper width or orders that otherwise don't require trim NON BLANK: Orders requiring trim.
17+62	Scores (I): BLANK or 0: No scores. Up to 19 scores are possible. If an order has scores, at least two fields must be filled. The total of all numbers must equal the sheet width (field 10).
18+63	Special scores (I): Each character in this field corresponds to one score on the board. The exact meaning of the possible values must be defined in cooperation with the customer.
19	Teartapes: The same rules that apply for scores also apply for teartapes. Special teartapes must be explained in the corrugator special instructions (Field 20).
21	Corrugator Code: BLANK: Orders that will be produced in <i>this</i> plant. PC-Topp will insert a code corresponding to the standard corrugator of this plant. NON BLANK (Corrugator Code): Orders with board coming from outside the plant.
22	Conversion Information: The field contains information for (up to) 6 operations after the corrugator, 12 bytes for each operation. They are divided into three separate fields: 1. The machine codes must be defined in a PC-Topp parameter table. 2. The number out value is defined as the division factor for each operation (how many pieces come out of the machine when you put one piece in?). 3. Users prefer if the Run Time is not transferred (except for special cases), so that PC-Topp's calculation is used. → <i>See also Field 97, Setup Time Conv. Machines!</i> PC-Topp adds a standard shipping operation if the last operation isn't Shipping (except if there are more than 6 operations, in which case Shipping is, unfortunately, lost)
23+24	Cutting Dies No., Example: Field 24 must contain 2 if die-cutting is the <i>second</i> operation in field 22.
26	Ink Color Codes: This field gives a visual summary to the planner in limited space. The full ink colour information is in field 56. If 4-digit codes are used here, then up to four colours can be indicated when separated by blanks. Insert the text '5 colors' or '6 colors' in the rare case of more than 4 colours.
27	Conversion Step Printing: Specifies on which machine printing takes place. The colors at field No. 56 refer to this machine. Example: Field 27 must contain 1 if printing is the <i>first</i> operation in field 22. <i>See Fields 89-96 referring to the 2nd pass</i>
29	No. of Machine the Instructions are intended for. Example: Field 29 must contain 1 if the comments are for the <i>first</i> conversion machine.

Field	Remarks
24,27,29	If these fields are left blank, then PC-Topp repeats the corresponding information on each of the order's operations.
30	Text on Pallet Label: Pallet label printing can intelligently enlarge print, combine fields (box size) in the space occupied by these three lines of text.
31	Cust. Order Number: The customer's order reference.
32	Interior Measurements: The contents of this field appear 'as is' on pallet labels etc. Formatting should be e.g. 200 X 300 X 400, not 0200X 80X0300.
34+35	Pallet Type & Size: Both fields together are used as the 'key' of the pallet.
36-38	Wrapping, Strapping etc.: These fields are supposed to contain codes as used by the customer.
39	<p>Label Type: This field specifies the pallet label design. Its exact functionality is determined by personalized codes.</p> <p>Examples:</p> <ul style="list-style-type: none"> • empty: Default label • no label for this order • customer specific label (the customer himself may design his label) • customer specific modification of standard label (the customer only wants some slight modifications of the default label, such as an additional bar code etc.) • label must be printed on different printer • label must be printed on paper from a different tray
40	No. Labels per Pallet. BLANK: 1 label per pallet
41	Quantity per Pallet. BLANK: the number of pallets will be estimated using an average number of square meters per pallet (depending on the flute type).
42	Quantity per Bundle: Not used by PC-Topp; usually only appears on pallet labels.
43	Customer Number: PC-Topp's index by customer uses the customer name, not this number.
46	<p>Special Material Combination: Feature not usually used. It can be used to indicate one or several papers that should replace the original material indicated in the board grade.</p> <p>If in Optimisation two orders with special papers are combined into one run, then the paper with the higher weight will be chosen.</p>
53, 83	<p>Personalized Data (Part I + II) The 2 fields (53, 83) can be subdivided into different fields for specific customer usage. They will be defined together in separate Personalized Record Layouts ((the "Customer Record Layouts").</p> <p>Typical usage:</p> <ul style="list-style-type: none"> - Replacement of standard fields if these are not long enough - additional text and information for pallet labels, cutting lists, display purpose - additional data for other systems like Palletizer, Corrugators, and transport systems connected to PC-Topp.
55	<p>Capacity Reservation Order:</p> <p>BLANK: Normal order</p> <p>NON BLANK (e.g. X): This order is for capacity reservation only! (rarely used)</p>
62	<p>Board Grade Change not allowed:</p> <p>BLANK: Board Grade changes are allowed.</p> <p>NON BLANK: Board Grade changes are forbidden.</p>
65,66,67	Type, Size, No. of Pallets on Top: These fields correspond to the fields 33,34 and 35 (Total Pallet Height, Type, Size). They are used to calculate pallet requirements correctly, even including counter pallets.

Field	Remarks									
88	<p>Underrun Tolerance:</p> <ol style="list-style-type: none"> 1. A negative value means an underrun is accepted. 2. A positive value means a certain overrun is required. <p>Example:</p> <ol style="list-style-type: none"> 1. Ordered Quantity 10.000 and "- 3%" means that at least 9.700 goods must be delivered. If there are less, the order is underrun. 2. Ordered quantity 10.000 and "3%" means that at least 10.300 goods must be delivered. If there are less, the order is underrun. 									
89-96	These fields show together with the fields <i>Printing Dies No.</i> , <i>Conversion Step No.</i> , <i>Ink Colour Names</i> , <i>Ink Consumption (g/1000)</i> , <i>Number of Ink Colours</i> whether 1 or 2 passes are required for printing and how many ink colours will be used.									
89,58	<p>Number of Ink Colors: Total number of ink colours (1st and 2nd pass)</p> <table border="1"> <thead> <tr> <th></th> <th>1st Pass</th> <th>2nd Pass</th> </tr> </thead> <tbody> <tr> <td>No. of Colors</td> <td>58</td> <td>89</td> </tr> <tr> <td>Colors</td> <td>56</td> <td>92</td> </tr> </tbody> </table>		1 st Pass	2 nd Pass	No. of Colors	58	89	Colors	56	92
	1 st Pass	2 nd Pass								
No. of Colors	58	89								
Colors	56	92								

Field	Remarks				
<p>90,27</p> <p>Conversion Step No., Example:</p> <p>In this fields, there are two possibilities to send values, Blank or Number:</p>					
	<p>27</p> <p><i>Conversion Step Printing, 1st Pass:</i></p> <p>specifies the No. of the machine on which Printing takes place</p> <p>(The colors at field No. 56 refer to this machine)</p>	<p>Blank</p> <p>No Stereo:</p> <p>No Printing</p> <p>Stereo:</p> <p>If Stereo is sent <i>and</i> it is unknown <i>where</i> printing takes place, PC-Topp repeats the corresponding information on each of the order's operations.</p>		<p>Number</p> <p>Printing</p> <p>Order is printed on the corresponding machine (1,2,3 → no. of machines), see Field Conversion.</p> <p>Info No.22, e.g. : 1= Printing is the first operation (0 = Printing on corrugator what is nearly impossible).</p>	
	<p>90</p>				
	<p><i>Conversion Step Printing, 2nd Pass:</i></p> <p>Refers to - orders with printing in more than 6 colors</p> <p>or:</p> <p>- to a 2nd pass in conversion.</p>	<p>blank: see above</p>		<p>2 Passes</p> <p>2 machines that are printing</p> <p>Different machine numbers in fields 27 and 90</p> <p>→ In every pass another stereo and other printing colors are used: There are 2 independent printing operations.</p> <p>(Both stereo fields are used).</p>	<p>No 2nd Pass</p> <p>Extension of the printing peration on <i>one</i> machine (if more than 6 printing colors)</p> <p>Same machine no. in the fields 27 and 90</p> <p>→ The printing colors are added (e.g. 6+2), don't send <i>Number of colors = 8</i> for the 1st operation!</p> <p>(The 2nd stereo field is not used).</p>

Field	Remarks
97	<p>Setup Time Conv. Machines: Use this only in combination with Run Time in Field 22 (run time must be equal or more)</p> <p>Users prefer the Setup Time not to be transferred (except for special cases), so that PC-Topp's calculation will be used.</p>
98	<p>Sheets per Pallet: Refers to the sheets (or products) on a pallet after the production step in question.</p> <p>Using this field the values for internal label printing in PC-Topp can be shown or used in PC-Topp.</p> <p>Example: <i>There is an order with 2000 boxes;</i> <i>Routing: Corrugator (600) → Die-Cutter (2 outs) (1000) → Printer (800) → Expedition (1000)</i></p> <p>After the corrugator: 600 sheets on a pallet; Result: one full pallet and one pallet with 400 sheets!;</p> <p>After the die-cutter: 1000 sheets (half size of the corrugator board) on a pallet; Result: 2 full pallets that are shipped to customer!</p> <p>After Printing: 800 products; Result: one full pallet, and one pallet with 200 sheets that are shipped to customer!</p> <p>The quantity per pallet after the last machine should always equal OTDATA field 41, Quantity per pallet.</p> <p>Attention: In case it is unknown from the host system leave the according field empty. Don't send 0!</p>
99	<p>Planning Speed for Conversion Machines: Average number of passes per hour expected during production time including an average rate of downtime.</p> <p>If the total time for an order (field 22) is also specified, then the given planning speed is NOT used. In this case the speed is implicitly given from total time and setup time.</p>
100	<p>Target Speed for Conversion Machines: Actual number of passes per hour expected during net production time excluding any sort of downtime.</p>
102	<p>Conversion Step Number (Stitching): N if No. of Identical Pieces (field 68) > 1.</p>
107	<p>Conversion Scores (Corrugator Direction): Scores in the same direction as on the corrugator but produced on a conversion machine. See also field 61 "Conversion Scores" containing scores for the cross direction which are produced on a conversion machine.</p>
118	<p>Type of Capacity Reservation Order: User defined code to specify the reserved capacity. Can be e.g. "F" for Fixed, "S" for stock, "O" for Others, "A" for Announced etc .</p>

Transfer of Order Comments

Field No.	Description	A/N	Length (Bytes)	Offset	Remarks
1	Transaction-ID (C=Comments)	A	1	0	Always C
2	Transaction	N	1	1	Unused
3	Order Number	A	10	2	
4	Part Number	A	4	12	
5	Destinations	A	80	16	20 x 4 characters
6	Comment Text	A	100	96	

Remarks

Additionally to the OTDATA records used up to now you can send any number of records to generate comments to the already transferred order.

An order must exist in PC-Topp before comments can be inserted. For new orders the order must be transferred first and then the comments.

In case of updating comments for an existing order only transfer the comment records. Do not transfer the order again in that case because it may unintentionally make modifications to the order.

All comments for an order must be sent in one uninterrupted set of records inside the OTDATA file.

Before receiving a set of comments for an order PC-Topp.NET removes all previously existing comments from the system. Then the new set is generated from the records until a record which does not belong to the same order is found. This allows an easy to use update mechanism of comments.

Field	Remarks
3+4	Order Key
5	Destination codes for comments: CORS Corrugator scheduling CORT Corrugator terminal RCL Corrugator printout CNVS Conversion scheduling (all conversion machines of the routing) CNVT Conversion terminal (all machines of the routing) RCVM Conversion printout (all machines of the routing) MT?? Conversion terminal (one machine, two digits sequence number, leading zero) CV?? Conversion scheduling (one machine, two digits sequence number, leading zero) RM?? Conversion printout (one machine, two digits sequence number, leading zero) SALE Sales SHIP Shipping PALL Pallet label (maximum is 10 records for this destination)