

1.20.0	<b>LogoTronic Rapida XML protocol</b>	BAVARIA DIGITAL TECHNIK <b>BDT</b>
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# **LogoTronic Rapida XML protocol**

(For internal use only)

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## Change history

Date	Change	Logo version	documentation version
02/22/2006	First draft (13 requests)	4.6.1	1.0.0
02/27/2006	XML-Get/SetOrderNote, XML-Read/SaveRepetitionData: Details added	4.6.1	1.0.1
04/06/2006	XML-ReadRepetitionData: various responses 04/06/2006 XML-OpData: details added 03/06/2007 XML-CreateJob (10063), previews (10093), palette information (10094)	4.7.6	1.0.2
July 13, 2007	Minimal changes July 21, 2007	4.9.2	1.0.5
	First official version, new design, table of contents, general part expanded, many details added, 2.4.8 - XML-SdPalletForms (10040)	4.9.2	1.1-v01
08/02/2007	Minimal changes 12/10/2007	4.9.2	1.1-v02
Small additions	12/10/2007 0: <RFID>	4.9.3	1.1-v03
		4.9.3	1.1-v04
01/24/2008 2.2.9	: Single image preview, 0: Response 01/24/2008	4.9.3	1.1-v05
0: Response expanded 03/03/2008 2.3.4:		4.9.3	1.1-v06
<Counter> 07/13/2008 0 - Pallet slip		5.0.0	1.1-v07
request expanded	to include the fields required by ColorPack	5.1.0	1.1-v08
10/27/2008 2.3.4	- totalCounterGross for the real gross totalizer added, 2.2.12 - Individual color separations (10065)	5.2.0	1.1-v09
12/23/2008 0 -	delivery addresses (10101), 0 - header data exchange (2.8.1-11010, 2.8.2-11020, 2.8.3-11030)	5.3.0	1.1-v10
05/18/2009 0 -	Delivery address list and delivery address in the pallet request added	5.3.0	1.1-v11
07/14/2009 2.3.4	- Comment for messages: Attribute comment="xxx" in OpData element	5.3.0	1.1-v12
04.09.2009 0 -	XML-JobFilter (10061), 2.4.12 - XML-MachineShifts (10111), 0 - XML-DeliveryAddress (10101) (attribute identifier changed), 2.4.13 - XML Customer (10121)	5.4.0	1.1-v13
01/19/2010 2.2.1	- XML Joblist (10060) & 0 - XML JobFilter (10061): New Return attribute for grant. ÿ Job@subsidy	5.4.0	1.1-v14
02/23/2010 2.4.1	: Extension of the color list request to include pigmentation and Color density target value  2.4.2: Extension of the color change request to include pigmentation and color density target value	5.4.1	1.1-v15
03/01/2010 2/2/10	: Expansion of the separation element to include theoretical ones Color consumption  2.2.12: Extension of the response element to include theoretical color consumption	5.4.1	1.1-v16
08/25/2010 2.2.13	: New request for querying job and color separation via DataMatrix & JPEGData added & side added, 0: Down attribute added to <Print>	5.5.0	1.1-v17

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08/25/2010	Minimal changes 09/01/2010	5.5.0	1.1-v18
2.4.6: Request for querying free reports added 10/13/2010	Benefits, subsidy Further processing here: XML JobList (10060) XML PlanList (10061) XML CreateJob (10063) XML PrintRunHeadDataExchange (11030)	5.5.0	1.1-v19
11/10/2010 X	ML-JobheadDataExchange (11030) – Target EXEMPLARY, NOT Should PRINTS!	5.5.0-1.2.1	1.1-v21
04/11/2011	Turning inside out/wrapping v. Operation (10067)	5.5.1	1.1-v22
04/29/2011	XML-OperationalData (10011): Extension for energy consumption	5.5.1	1.1-v23
06/10/2011	JobList/PlateCheck request changed	6.1.0	1.1-v24
03/20/2012	New request UserEvent (10012), request 10061 revised -> PlanListXml	7.0.0	1.1-v25
10/04/2012 +	XML-DeleteJob (10165) + XML-SdColor (10035) expanded + XML-CreateColor (10070) expanded and renamed to XML-CreateOrChangeColor	7.0.8	1.1-v26
10/04/2012 +	XML-ListAniloxRoller (12600) + XML-SelectAniloxRoller (12500)	7.1.0	1.1-v27
April 17, 2013	XML-SdPersonal documented and avatar images integrated via Base64 JPEG section 2.4.2 Also added: password	7.1.0	1.1-v28p
08/29/2013	Batch automatic parameters in JobList 2.2.1	7.1.15	1.1-v28
12/06/2013	JobheadDataExchange renamed to PrintRunHeadDataExchange 02/07/2014	7.1.27	1.1-v29
In chapter "2.3.4 XML-OperationalData (10011)" in the table	"Attribute <Counter>" matches the attributes used to the attributes currently used in LogoTronic.	7.1.39	1.1-v30
July 3, 2014	Extensions for printing and color standards; new PaperClasses, Papers, CreateOrChangePaper, PrintStandards, CreateOrChangePrintStandard, ColorStandard, CreateOrChangeColorStandard; extends JobList, PartOrderHeadDataExchange. Extension for languages in SdUserEvent, for partial order data in ReadRepetitionData. Removed unused attributes from PalletInfo.	7.3.0	1.1-v31
03/11/2015	Color standards (target value sets) expanded to include information plus automatic creation, printing standards with number and color separation-related, language ID for Windows corrected, missing XML-BdePersonal added	7.4.0	1.1-v32
10/29/2015	Colors expanded to include ductorCycle, paperCategory removed (only for Roll machines), inkDensity removed from XML-CreateOrChangeColorStandard (only CMYK densities used), new XML-PalletStates and corresponding extension XML-PalletInfo, layout of the tables modified, 'Sd' requests renamed, SelectAniloxRoller moved from 0 to 2.1	7.4.13	1.1-v33

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04/18/2016	No and event description added to PalletInfo, since min. 7.0 PalletInfo response for investors no longer used deleted, URL added to Get(Single)Separation(s).	7.4.17	1.1-v34
09/13/2017	New document design, new requests XML-MachineConfig and XML-Disconnect, new attributes productionOutput, energyLevel, energyMachine, sendPolicy2, interruptRun, fingerprint, rebook and errorReason, XML-DeleteJob moved, history added, small text improvements	8.1.0	1.2
01/25/2018	New request XML-CreateOrChangePersonnel; new attributes internalId, speedReduction; planned but initially postponed features marked in red; never used attributes removed from XML SetSeparations; general errorReason; Descriptions returnCode corrected and generalized	8.1.0	1.3
June 18, 2018	Activated: XML-MachineConfig, XML-Disconnect, sendPolicy2, interruptRun; Font of examples enlarged; Wildcards in XML JobList	8.1.7	1.4
July 26, 2018	New request XML-MaintenanceParams; new attribute onlyDifferences; unused timestamp attribute removed	8.1.10	1.5
02/11/2019	XML-PrepareMaterialExchange, XML-PerformMaterial Exchange new; XML-SelectAniloxRoller corrected and moved; originalInkCode new; rebook activated	8.1.21	1.6
June 14, 2019	XML-MachinePlanList, XML-MachineUsage new; XML PrepareMaterialExchange expanded; Machine types changed	8.1.24	1.7
October 29, 2019	New request XML-ColorClasses; New attributes grain, colorClass, coatingThickness, densityStatus, fingerprintD; fingerprintL (formerly fingerprint) activated; errorReason for all requests; Chapter interface extensions added	8.2.0	1.8
November 12, 2019	New attribute prePressUrl for digital machines	8.2.5	1.9
December 15, 2020	Expansion of XML papers; Planned Request XML MachineMaterial; Planned extensions of XML-MachineConfig, XML-JobList, XML-PlanList, XML-GetSeparations, XML-CreateOrChangeColorSetpointRecord; XML PalletForms obsolete marked; XML-MachineUsage and XML-Colors better documented	8.2.19	1.10
May 3, 2021	New attribute pressCall; Planned Request XML SheetSideMachineData; Planned extension/change to XML-JobList, XML-MachineMaterial; all request descriptions revised	9.0.12	1.11
June 29, 2021	Extension of XML GetSeparations to include side, separation, job; XML JobList: Planned Rapida preview image URL from job to Partial order (front/back); Planned Request XML UnprintedZones	9.0.15	1.12
November 12, 2021	Expansion of XML-OperationalData to include services; More planned Request XML MeasuringInfo; Planned expansion of XML-MachineUsage with tool; Paper LAB values obsolete	9.0.18	1.13
March 14, 2022	Various planned points activated; Correction XML-UserEvent, XML-MeasuringInfo	9.1.0	1.14

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August 18, 2022	New request XML PaperPiles; coldFoil activated; Scheduled requests XML SetMaintenanceData and XML GetMaintenanceData; Response from XML-OperationalData expanded to include the planned <DoRequest>; XML-Colors, XML-AniloxRollers and XML-SelectAniloxRoller extended with planned attributes	9.1.5	1.15
02/22/2023	Planned Requests XML-Varnishes, XML-AniloxRollerInstances, XML-AssistantTask, XML-AssistantTasks; planned adaptation of XML-Colors, XML-ColorClasses, XML-AniloxRollers, XML-SelectAniloxRoller; Attribute name "platId" corrected three times after "separationID".	9.1.10 (9.0.32)	1.16
July 11, 2023	Activated: XML Varnishes, XML AniloxRollerInstances, XML AssistantTask, XML-AssistantTasks, adjustments to XML-Colors, XML ColorClasses, XML AniloxRollers, XML SelectAniloxRoller	9.2.0	1.17
10/11/2023	Expansion of assistant task groups	9.2.3	1.18
10/11/2023	XML colors again including varnishes and cutting dies	9.2.4	1.19
02/02/2024	Planned requests XML supportNavigatedPrinting, XML GetWorkingPlan, XML NavigatedPrintingEvent; XML PlanList slightly revised		1.20

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## 1. General

### 1.1 XML request and response

The Koenig & Bauer gateway communication protocol is also used for XML requests and responses, which means that the request and response frames remain unchanged.

Data field	Type/Length	Explanation	Example
version	unsigned long	Reserved (4 bytes) and always contains the value 0	0
TransactionID	unsigned long	Information for the assignment of request and	218
WorkplaceID	char[8]	Response	14
RequestType	unsigned long		WP_INFO
DataLength	unsigned long	Length of the data area	1090
XML request data			
EDataLength	unsigned long	Repeat data from the section [Header].	1090
EResponseType	unsigned long	Ensuring logical consistency (in reverse	WP_INFO
EWorkplaceID	char[8]	Sequence)	14
ETransactionID	unsigned long		218

Table 1: Request frames

Data field	Type/Length	Declaration	Example
version	unsigned long	Reserved (4 bytes) and always contains the value 0	0
TransactionID	TRANSACTION_ID	Information for the assignment of request and	218
WorkplaceID	WORKPLACE_ID	Response	14
ResponseType	RESPONSE_TYPE		WP_INFO
DataLength	unsigned long	Length of the data area	1090
XML response data			
EDataLength	unsigned long	Repeat data from the section [Header].	1090
EResponseType	RESPONSE_TYPE	Ensuring logical consistency (in reverse	WP_INFO
EWorkplaceID	WORKPLACE_ID	Sequence)	14
ETransactionID	TRANSACTION_ID		218

Table 2: Response framework

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The request and response data for the queries defined in this document are processed via XML documents. Request and response receive their own XML root elements.

## XML request

```
<Request typeId="10090">
  ...
</Request>
```

## XML response

```
<Response typeId="10090" returnCode="0" errorReason="PartOrderNotFound" >
  ...
</Response>
```

The request or response type number is specified in the XML attribute *typeId* in addition to the *RequestType* or *ResponseType* in the protocol frame .

The response also always contains the *returnCode attribute*. Unless otherwise specified in the request, the following values can be returned:

*returnCode="1"*: OK

*returnCode="0"*: Incorrect or non-existent information or no data found

*returnCode="-1"*: Internal error in processing

In addition, in the event of an error (and sometimes also as a warning), the *errorReason* attribute is returned in the response. This contains descriptive error text in CamelCase without spaces.

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## 1.2 Attributes

The content of an attribute is any string; it can also contain special characters. However, it should be noted that when specifying double values, the **period** (".") must always be used as the decimal separator, regardless of any language or country settings!

## 1.3 Order assignment

The XML element **<Job>** is used to specify the order, partial order or operation. The following applies: Depending on which attributes are specified, the query relates to an order, partial order or operation.

Alternatively, attributes that should be taken into account can also be specified with empty strings, e.g.

*jobNo=""*.

### XML element **<Job>**

```
<Job orderNo="4711" prodNo="1" jobNo="SW" side="0"/>
```

## 1.4 sheet side

The **side** attribute is used in various requests. The following applies:

Front: **side = "0"**

Back: **side = "1"**

## 1.5 Interface extensions

The interface must be open for extensions on both sides.

This means that receiving new requests that are not yet known in a LogoTronic installation must not lead to an error on any page. In this case, the LogoTronic sends a standard info response (254), in which a 24 is entered in the InfoCode (=INF\_UNKNOWN\_REQUEST).

It must also be possible to extend the request with new XML elements, attributes or values in a backwards compatible manner. This means that LogoTronic must expect that it will not receive some extensions from an older control center, or that it will receive unknown extensions from a newer control center. The control center must also expect that an older LogoTronic installation will not be able to evaluate these extensions in the request or deliver them in the response, and a newer LogoTronic will return extensions that are still unknown.

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**LogoTronic Rapida XML protocol**BAVARIA  
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Request to set the machine configuration in Logotronic.

**Request**

```
<Request typeId="10200">
    <Machine version="3.4.1.0.0" serialNumber="370000" machineType="RA106" />
    <SheetSizes> <Length min="600" max="1050" /> <Width min="300" max="600" /> <Thickness min="0.01" max="1.2" /> </SheetSizes> <Perfecting behindUnit="6" behindUnit2="10" /> <Unit number="1" unitType="printing" coldFoil="false" uvDryer="false" irDryer="false" /> <Unit number="2" unitType="printing" coldFoil="false" uvDryer="false" irDryer="false" /> <Unit number="3" unitType="printing" coldFoil="false" uvDryer="false" irDryer="false" /> <Unit number="4" unitType="printing" coldFoil="true" uvDryer="false" irDryer="false" /> <Unit number="5" unitType="varnishing" coldFoil="false" uvDryer="false" irDryer="false" /> <Unit number="6" unitType="drying" coldFoil="false" uvDryer="false" irDryer="false" /> <Unit number="7" unitType="printing" coldFoil="false" uvDryer="false" irDryer="false" /> <Unit number="8" unitType="printing" coldFoil="false" uvDryer="false" irDryer="false" /> <Unit number="9" unitType="printing" coldFoil="false" uvDryer="false" irDryer="false" /> <Unit number="10" unitType="printing" coldFoil="false" uvDryer="false" irDryer="false" /> <Unit number="11" unitType="varnishing" coldFoil="false" uvDryer="false" irDryer="false" /> <Unit number="12" unitType="drying" coldFoil="false" uvDryer="false" irDryer="false" /> <Delivery extensions="2" piles="2" uvDryer="true" irDryer="false" /> <OperatingHours hours="1275" hoursWithPerfecting="1092" /> <ReelSheeter available="false" /> <MaxQualityLevels ap="3" pc="3" qcc="4" icr="2" pdf="4" />
</Request>
```

**Attributes <Machine>**

attribute	Meaning/Format
<i>version</i>	Optional: control center version (string)
<i>serialNumber</i>	Optional: construction number (string)

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<i>machineType</i>	<p>Machine type:</p> <ul style="list-style-type: none"> <li>• P40</li> <li>• RA130</li> <li>• RA130A</li> <li>• RA142</li> <li>• RA162</li> <li>• RA162A</li> <li>• RA185</li> <li>• RA205</li> <li>• RA105 universal</li> <li>• RA145</li> <li>• RA106</li> <li>• RA164</li> <li>• RA164A</li> <li>• RA76</li> <li>• RM120-MS3</li> <li>• RA75Pro</li> <li>• RA76Pro</li> </ul>
--------------------	--

**PLANNED: Attributes <SheetSizes>: <Length>/<Width>/<Thickness>**

attribute	Meaning/Format
<i>min</i>	Minimum value in millimeters (double)
<i>Max</i>	Maximum value in millimeters (double)

**Attributes <Perfecting>**

attribute	Meaning/Format
<i>behindUnit</i>	Optional: Position of the (first) turn (integer)
<i>behindUnit2</i>	Optional: position of the second turn (integer)

**Attributes <Unit>**

Attribute	Meaning/Format
<i>number</i>	Substructure number of the unit starting with 1 (integer)
<i>unitType</i>	Unit type: • printing • varnishing • drying • perforation • numbering • corona • marking • dieCutter • screenPrinting • calendar
<i>coldFoil</i>	Optional: Cold foil possible/not possible (Boolean)
<i>uvDryer</i>	PLANNED: Optional: UV dryer available/not available (Boolean)
<i>irDryer</i>	PLANNED: Optional: IR dryer available/not available (Boolean)

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**Attributes <Delivery>**

Attribute	Meaning/Format
<i>extensions</i>	PLANNED: Optional: Number of delivery extensions (integer)
<i>piles</i>	Optional: Number of stacks (integer)
<i>uvDryer</i>	PLANNED: Optional: UV dryer available/not available (Boolean)
<i>irDryer</i>	PLANNED: Optional: IR dryer available/not available (Boolean)

**PLANNED: Attributes <OperatingHours>**

attribute	Meaning/Format
<i>hours</i>	Optional: operating hours (long)
<i>hoursWithPerfecting</i>	Optional: operating hours in reversing mode (long)

**PLANNED: Attributes <ReelSheeter>**

Attribute	Meaning/Format
<i>available</i>	Sheet cutting machine available? (Boolean)

**Attributes <MaxQualityLevels>**

attribute	Meaning/Format
<i>ap</i>	Optional: Maximum quality level for auto print / automatic counter (integer)
<i>pc</i>	Optional: Maximum quality level for QualiTronic PrintCheck (Integer)
<i>qcc</i>	Optional: Maximum quality level for QualiTronic ColorControl (Integer)
<i>icr</i>	Optional: Maximum quality level for QualiTronic ICR (Integer)
<i>pdf</i>	Optional: Maximum quality level for QualiTronic PDF (Integer)

**Response**

<Response typeId="10200" returnCode="1"/>
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**LogoTronic Rapida XML protocol**BAVARIA  
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Request to report which materials are currently used in the machine.

**Request**

```
<Request typeId="10210">
    <Machine powder="true" perfecting="false"/>
    <Unit number="1" ink="true" dampening="true" inkCode="1234" />
    <Unit number="2" ink="true" dampening="true" inkCode="1235" />
    <Unit number="3" ink="false" dampening="true" inkCode="1236" />
    <Unit number="4" ink="true" dampening="true" inkCode="1237" />
    <Unit number="5" varnish="true" />
    <Unit number="6" tool="false" />
    <Unit number="7" ink="true" dampening="true" inkCode="1238" />
    <Unit number="8" ink="true" dampening="true" inkCode="1239" />
    <Unit number="9" ink="true" dampening="true" inkCode="1244" />
    <Unit number="10" ink="true" dampening="true" inkCode="1254" />
    <Unit number="11" ink="false" dampening="false" />
    <Unit number="12" varnish="false" />
    <Unit number="13" tool="true" />
</Request>
```

The following applies to the various Boolean attributes:

- The value "**true**" means that this function is currently active at this plant
- The value "**false**" means that this function is currently not active on this work, but in principle possible
- The absence of the attribute means that this function is fundamentally not available in this work is possible

**Attributes <Machine>**

attribute	Meaning/Format
<i>powder</i>	Optional: Powder is/is not used (Boolean)
<i>perfecting</i>	PLANNED: Optional: Twist is / will not be used (Boolean)

**Attributes <Unit>**

Attribute	Meaning/Format
<i>number</i>	Substructure number of the unit starting with 1 (integer)
<i>inkCode</i>	Optional: Color code for comparison with the color separations (integer)
<i>ink</i>	Optional: Color is/is not used (Boolean)
<i>varnish</i>	Optional: Varnish is/is not used (Boolean)
<i>dampening</i>	Optional: Fountain solution is/is not used (Boolean)
<i>tool</i>	Optional: Tool (RDC) is / is not used (Boolean)

**Response**

```
<Response typeId="10210" returnCode="1"/>
```

1.20.0

**LogoTronic Rapida XML protocol**BAVARIA  
DIGITAL  
TECHNIK **BDT****2.1.3 XML MachineMaterial (10220)**

Request to report which materials in the machine currently have what level and range. This request is sent immediately after a new connection is established and at least when the data changes.

**Request**

```
<Request typeId="10220">
  <Machine>
    <PaperFeeder fillLevel="1200" estimatedSheetsUntilDepleted="1200"/>
  </Machine>
  <Unit number="1">
    <Washcloth fillLevel="2.4" unit="m" estimatedCyclesUntilDepleted="12" estimatedCyclesPerHour="2.57"/>
  </Unit>
  <Unit number="2">
    <Washcloth fillLevel="1.56" unit="m" estimatedCyclesUntilDepleted="7" estimatedCyclesPerHour="1.33"/>
  </Unit>
  ...
</Request>
```

**Attributes <Unit>**

attribute	Meaning/Format
<i>number</i>	Substructure number of the unit starting with 1 (integer)

**Attributes <Washcloth>, PLANNED: <PaperFeeder>**

Attribute	Meaning/Format
<i>fillLevel</i>	Fill level / existing amount of material (double)
<i>unit</i>	Unit of fill level/quantity (string, necessary depending on material, not specified: piece)
<i>estimatedSheets</i>	PLANNED: Estimated number of sheets that the material will last
<i>UntilDepleted</i>	(Long, necessary for PaperFeeder)
<i>estimatedCycles</i>	Estimated number of cycles that the material will last
<i>UntilDepleted</i>	(Long, necessary for washcloth)
<i>estimatedCyclesPerHour</i>	Estimated average number of cycles per hour
	(Double, necessary if estimatedCyclesUntilDepleted is set)

**Response**

```
<Response typeId="10220" returnCode="1"/>
```

1.20.0

**LogoTronic Rapida XML protocol**BAVARIA  
DIGITAL  
TECHNIK BDT**2.1.4 XML Disconnect (10010)**

Request to inform LogoTronic that the connection is about to be closed. After receiving this message, LogoTronic closes the connection itself.

**Request**

```
<Request typeId="10010" >
    <Disconnect timeStamp="1139477988" reason="0" />
</Request>
```

**Attributes <Disconnect>**

attribute	Meaning/Format
<i>timeStamp</i>	Timestamp message (integer, seconds UNIX time)
<i>reason:reason</i>	Reason to close the connection: 0 = Machine is switched off

**Response**

```
<Response typeId="10010" returnCode="1"/>
```

1.20.0

**LogoTronic Rapida XML protocol**BAVARIA  
DIGITAL  
TECHNIK BDT**2.2 Order and planning data****2.2.1 XML JobList (10060)**

Request to determine the specified or all created and interrupted orders, partial orders and operations.

**Request**

```
<Request typeId="10060">
    <Job orderNo="x" prodNo="y" jobNo="z"/>
    <JobList sameMachineType="false" max="300" plateCheck="0"/>
</Request>
```

**Attributes <Job>**

attribute	Meaning/Format
<i>orderNo</i>	Optional: Job number (string, can contain wildcards in a conventional job list ("*", "?"))
<i>prodNo</i>	Optional: Partial order number (string, can contain wildcards in a conventional job list ("*", "?"))
<i>jobNo</i>	Optional: Operation number (string, can contain wildcards in a conventional job list ("*", "?"))

**Attributes <JobList>**

attribute	Meaning/Format
<i>sameMachineType</i> "false"	or not present = only jobs from this machine "true" = also jobs from other machines of the same machine type
<i>Max</i>	Optional: Maximum number of entries that will be reported back (integer, default value: 300)
<i>plateCheck</i>	0 or not present = traditional job list 1 = Arch setup

1.20.0

**LogoTronic Rapida XML protocol**BAVARIA  
DIGITAL  
TECHNIK BDT**2.2.1.1 Response, traditional job list**

```
<Response typeId="10060" returnCode="4">
    <Order no="4711" name="Book" customerNo="1000" customerName="Trond" deliveryDate="12.Mar.2007">
        <Prod no="1" name="Sheet 1" amount="30000" paperNo="15" paperName="Luxomatt 110g" printWidth="1000"
            printHeight="650" paperThickness="0.099" separations="4/4" paperClassFront="2" paperClassBack="2"
            printStandardFront="11759501" printStandardBack="11759501" qualApF="3" qualPcF="3" qualQccF="4" qualIcrF="2"
            qualPdfF="4" qualApB="3" qualPcB="3" qualQccB="4" qualIcrB="2" qualPdfB="4">
            <Job no="1" name="SD" amount="15000" subsidy="500" subsidy2="250" copy="2" status="0"
                setupTime="1.55" printTime="3.85" planStart=" Mar 03, 2007 12:03" workplaceId="41" separations="4/0"
                repro="0" planningState="1" priority="50" maxAmount="14500" minAmount="13500" workPreparation=" 2 "/>
            <Job no="2" name="WD" amount="15000" subsidy="750" subsidy2="150" copy="2" status="0"
                setupTime="0.3" printTime="4.00" planStart="03.Mar.2007 12:04" workplaceId="41" separations="0/4"
                repro="1" planningState="1" priority="100" workPreparation="1"/>
        </Prod>
    </Order>
    <Order no="4712" name="Magazin" customerNo="1001" customerName="Bavaria" deliveryDate="10.Mar.2007">
        <Prod no="SHT1" name="Sheet 1" amount="60000" paperNo="16" paperName="Luxomagic 80g" printWidth="950"
            printHeight="600" paperThickness="0.02" separations="4/0" paperClassFront="1" paperClassBack="2"
            printStandardFront="11759501" printStandardBack="11759501" qualApF="3" qualPcF="3" qualQccF="4" qualIcrF="2"
            qualPdfF="4">
            <Job no ="SW" name="" amount="15000" subsidy="500" subsidy2="50" copy="4" status="1"
                setupTime="1.55" printTime="3.85" planStart="03.Mar. 2007 12:03" workplaceId="42" separations="4/4"
                repro="0" planningState="2" priority="0" maxAmount="16000" workPreparation="0" />
        </Prod>
        <Prod no="2" name="Sheet 2" amount="15000" paperNo="16" paperName="Luxomagic 80g" printWidth="950"
            printHeight="600" paperThickness="0.15" separations="4/0" paperClassFront="1" paperClassBack="2"
            printStandardFront="11759501" printStandardBack="11759503" qualApF="3" qualPcF="3"
            qualQccF="4" qualIcrF="2" qualPdfF="4">
            > <Job no="1" name="" amount="15000" subsidy="500" subsidy2="300" copy="1" status="1"
                setupTime="1.55" printTime="3.85" planStart=" Mar 03, 2007 12:05" workplaceId="43" separations="4/0"
                repro="1" planningState="0" priority="50" minAmount="14000"/>
        </Prod>
    </Order>
</Response>
```

**Attributes <Order>**

attribute	Meaning/format
<i>no</i>	order number (string)
<i>Surname</i>	Job name (string)
<i>customerNo</i>	Customer number
(String) <i>customerName</i>	Customer name
(String) <i>deliveryDate</i>	Delivery date (format: dd.MM.yyyy)

1.20.0	<b>LogoTronic Rapida XML protocol</b>	BAVARIA DIGITAL TECHNIK <b>BDT</b>
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**Attributes <Prod>**

attribute	Meaning/Format
<i>no</i>	Partial order number (string)
<i>Surname</i>	Partial order name (string)
<i>paperNo</i>	Paper number (string)
<i>paperName</i>	Paper name (string)
<i>printWidth</i>	Sheet width in millimeters (double)
<i>printHeight</i>	Arc length in millimeters (double)
<i>separations</i>	Color number of this sheet (two integers, format: front/back)
<i>paperThickness</i>	Paper thickness in millimeters (double)
<i>amount</i>	Edition (target copies without subsidy, integer)
<i>paperClassFront</i>	Optional: Paper Class ID Front (String, unspecified = not present)
<i>paperClassBack</i>	Optional: Paper Class ID Back (String, unspecified = not present)
<i>printStandardFront</i>	Print standard ID front (Long, 0 = not present)
<i>printStandardBack</i>	Print standard ID back (Long, 0 = not present)
<i>qualApF, qualPcF, qualQccF, qualIcrF, qualPdfF, qualApB, qualPcB, qualQccB, qualIcrB, qualPdfB</i>	Quality levels for different systems, each for front and/or back, integer between 1 and maximum value, maximum values are set via MaxQualityLevels within XML MachineConfig defined (only if defined)
<i>imageUrlFront</i>	Optional: URL of the preview image of the front of the prepress (string)
<i>imageUrlBack</i>	Optional: URL of the preview image of the back of the prepress (string)

1.20.0	<b>LogoTronic Rapida XML protocol</b>	BAVARIA DIGITAL TECHNIK <b>BDT</b>
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**Attributes <Job>**

attribute	Meaning/Format
<i>no</i>	Operation number (string)
<i>Surname</i>	Operation name (string)
<i>amount</i>	Target prints (integer, depending on the configuration with or without subsidy)
<i>minAmount</i>	Optional: Minimum paid target prints (underdelivery, without subsidy, integer)
<i>maxAmount</i>	Optional: Maximum paid target prints (delivery, without subsidy, integer)
<i>subsidy</i>	Grant Print (Integer)
<i>subsidy2</i>	Subsidy for further processing (integer)
<i>copy</i>	Utility (Integer)
<i>status</i>	Operation status:  0 = Created 1 = In production 2 = Interrupted 3 is not used 4 = Completed 5 = Expired
<i>setupTime</i>	Setup time (in hours, double)
<i>printTime</i>	Production time (in hours, double)
<i>planStart</i>	Start date (format: dd.MM.yyyy HH:mm)
<i>workplaceId</i>	Machine (Long)
<i>separations</i>	Color number print pass (two integers, format: front/back)
<i>repro</i>	Repeat data available? (0/1)
<i>planningState</i>	0 = Unplanned 1 = Planned 2 = Fixed (cannot be moved)
<i>prePressUrl</i>	Only for VariJet: URL of the prepress folder (string)
<i>priority</i>	Processing priority, 0 to 100 (integer, 100 is highest priority, 50 is default value)
<i>workPreparation</i> PLANNED:	0 = work preparation not necessary or not planned 1 = work preparation completed 2 = work preparation necessary and not yet completed

The following parameters are only determined if a specific job is requested, i.e. orderNo, prodNo and jobNo have been specified by the control center in the request:

<i>startupWaste</i>	Start-up waste (integer)
<i>grossCopies</i>	Gross quantity (integer)
<i>netCopies</i>	Net quantity (integer)
<i>markOrDetect</i>	0 = Mark 1 = Recognize

*returnCode="x"*: Number of jobs found

*returnCode="65296"*: Element <Job> is missing in the request

1.20.0

**LogoTronic Rapida XML protocol**BAVARIA  
DIGITAL  
TECHNIK BDT**2.2.1.2 Response, bow setup**

```
<Response returnCode="1" typeId="10060">
    <Jobs>
        <Job orderNo="D4711447" prodNo="SHT2" side="1"> </Job>
    </Jobs>
</Response>
```

The next sub-order on the stack is queried. This is intended to determine the processing sequence for backside printing. If available, the next partial order will be returned.

**Attributes *<Job>***

attribute	Meaning/Format
<i>orderNo</i>	Order number (string)
<i>prodNo</i>	Partial order number (string)
<i>side</i>	Tells which side of the sheet is already printed (0/1)

*returnCode="1"*: OK

*returnCode="0"*: No sheet found or processing error

*returnCode="65296"*: Element *<Job>* is missing in the request

1.20.0	<b>LogoTronic Rapida XML protocol</b>	BAVARIA DIGITAL TECHNIK <b>BDT</b>
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## 2.2.2 XML PlanList (10061)

Request to determine specific jobs, partial jobs and operations, sorted by planned start of printing, **only for this machine**.

### Request

```
<Request typeId="10061">
    <Params planningStatus="101" fromDate="03.03.2007 12:03" toDate="04.03.2007 17:00" />
</Request>
```

### Attributes <Params>

attribute	Meaning/Format
<i>planningStatus</i>	Optional: Jobs with which planning status are requested? First digit: Planned 0/1 Second digit: Unplanned 0/1 Third digit: Fixed 0/1 e.g. <b>101</b> = Planned and fixed jobs are requested Default value: <b>101</b>
<i>fromDate</i>	Optional: Earliest time for filtering after the planned start of printing Format: <b>dd.MM.yyyy HH:mm</b> Default value: Now minus three days
<i>toDate</i>	Optional: End time for filtering according to the planned start of printing Format: <b>dd.MM.yyyy HH:mm</b> Default value: Now plus 24 hours

1.20.0

# LogoTronic Rapida XML protocol

BAVARIA  
DIGITAL  
TECHNIK **BDT**

## Response

```
<Response typeId="10061" returnCode="4">
    <Order no="4711" name="Book" customerNo="1000" customerName="Trond" deliveryDate="12.Mar.2007">
        <Prod no="1" name="Sheet 1" amount="30000" paperNo="15" paperName="Luxomatt 110g" printWidth="1000"
            printHeight="650" paperThickness="0.099" separations="4/4" paperClassFront="2" paperClassBack="2"
            printStandardFront="11759501" printStandardBack="11759501" qualApF="3" qualPcF="3" qualQccF="4" qualIcrF="2"
            qualPdfF="4" qualApB="3" qualPcB="3" qualQccB="4" qualIcrB="2" qualPdfB="4">
            <Job no="1" name="SD" amount="15000" subsidy="500" subsidy2="250" copy="2" status="0"
                setupTime="1.55" printTime="3.85" planStart=" Mar 03, 2007 12:03" workplaceId="41" separations="4/0"
                repro="0" planningState="1" priority="50" maxAmount="14500" minAmount="13500" workPreparation=" 2 "/>
            <Job no="2" name="WD" amount="15000" subsidy="750" subsidy2="150" copy="2" status="0"
                setupTime="0.3" printTime="4.00" planStart=" Mar 03, 2007 12:04" workplaceId="41" separations="0/4"
                repro="1" planningState="1" priority="100" workPreparation="1"/>
        </Prod>
    </Order>
    <Order no="4712" name="Magazin" customerNo="1001" customerName="Bavaria" deliveryDate="10.Mar.2007">
        <Prod no="SHT1" name="Sheet 1" amount="60000" paperNo="16" paperName="Luxomagic 80g" printWidth="950"
            printHeight="600" paperThickness="0.02" separations="4/0" paperClassFront="1" paperClassBack="2"
            printStandardFront="11759501" printStandardBack="11759501" qualApF="3" qualPcF="3" qualQccF="4" qualIcrF="2"
            qualPdfF="4">
            <Job no="SW" name="" amount="15000" subsidy="500" subsidy2="50" copy="4" status="1"
                setupTime="1.55" printTime="3.85" planStart="03 .Mar.2007 12:03" workplaceId="42" separations="4/4"
                repro="0" planningState="2" priority="0" maxAmount="16000" workPreparation="0"/>
        </Prod>
        <Prod no="2" name="Sheet 2" amount="15000" paperNo="16" paperName="Luxomagic 80g" printWidth="950"
            printHeight="600" paperThickness="0.15" separations="4/0" paperClassFront="1" paperClassBack="2"
            printStandardFront="11759501" printStandardBack="11759503" qualApF="3" qualPcF="3"
            qualQccF="4" qualIcrF="2" qualPdfF="4">
            <Job no="1" name="" amount="15000" subsidy="500" subsidy2="300" copy="1" status="1"
                setupTime="1.55" printTime="3.85" planStart="03 .Mar.2007 12:05" workplaceId="43" separations="4/0"
                repro="1" planningState="0" priority="50" minAmount="14000"/>
        </Prod>
    </Order>
</Response>
```

The order of print runs returned in the schedule list is sorted by when printing is scheduled to begin.

The response is structured similarly to the **XML JobList response** with the same elements and attributes.

*returnCode="x"*: Number of entries found

1.20.0

**LogoTronic Rapida XML protocol**BAVARIA  
DIGITAL  
TECHNIK BDT**2.2.3 XML MachinePlanList (10068)**

Request to inform LogoTronic of the operations currently planned on the machine, in planning order, with the next planned operation first. Sent after connection is established and with every change.

**Request**

```
<Request typeId="10068">
  <Job orderNo="101543" prodNo="Sheet-2" jobNo="Front" />
  <Job orderNo="101543" prodNo="Sheet-3" jobNo="Front" />
  <Job orderNo="109734" prodNo="TBasi" jobNo="Perf" />
  <Job orderNo="110343" prodNo="Raptu" jobNo="Perf" />
</Request>
```

**Attributes <Job>**

attribute	Meaning/Format
<i>orderNo</i>	Order number (string)
<i>prodNo</i>	Partial order number (string)
<i>jobNo</i>	Operation number (string)

**Response**

```
<Response typeId="10068" returnCode="1"/>
```

1.20.0

**LogoTronic Rapida XML protocol**BAVARIA  
DIGITAL  
TECHNIK BDT**2.2.4 XML GetOrderNote (10006)**

This request can be used on the one hand to query the order comment (this cannot be edited on the machine) and on the other hand to request the operation comment (editable):

**Request for order comment (only *orderNo* is specified)**

```
<Request typeId="10006">
    <Job orderNo="4711" prodNo="" jobNo="" />
</Request>
```

**Request for operation comment (all attributes are specified)**

```
<Request typeId="10006">
    <Job orderNo="4711" prodNo="SHT1" jobNo="A" />
</Request>
```

**Attributes <Job>**

attribute	Meaning/Format
<i>orderNo</i>	Order number (string)
<i>prodNo</i>	Optional: partial order number (string)
<i>jobNo</i>	Optional: Operation number (string, required if partial order number is specified)

**Response for order comment**

```
<Response typeId="10006" returnCode="1">
    <OrderNote>Attention printer! This is an important message! Customer comes for visual inspection on June 21st.</OrderNote>
</Response>
```

**Response for operation comment**

```
<Response typeId="10006" returnCode="1">
    <OrderNote>Due to the high circulation, the plates cannot be used again!</OrderNote>
</Response>
```

*returnCode="1"*: OK, comment available

*returnCode="0"*: No comment or processing error

1.20.0

**LogoTronic Rapida XML protocol**BAVARIA  
DIGITAL  
TECHNIK BDT**2.2.5 XML SetOrderNote (10007)**

This request is used to set the operation comment.

**Request**

```
<Request typeId="10007">
    <Job orderNo="4711" prodNo="SHT1" jobNo="A"/>
    <OrderNote>Attention printer! This is an important comment</OrderNote>
</Request>
```

**Attributes <Job>**

attribute	Meaning/Format
<i>orderNo</i>	Order number (string)
<i>prodNo</i>	Partial order number (string)
<i>jobNo</i>	Operation number (string)

**Response**

```
<Response typeId="10007" returnCode="1"/>
```

1.20.0

**LogoTronic Rapida XML protocol**BAVARIA  
DIGITAL  
TECHNIK BDT**2.2.6 XML CreateJob (10063)**

Basically, any number of operations can be created at the control center under a partial order (sheet), for example if it is necessary to reschedule between machines with and without perfecting at short notice. This request serves this purpose.

**Request**

```
<Request typeId="10063">
  <Job orderNo="x" prodNo="y" jobNo="z" name="n" setupTime="0:30" printTime="3:45" amount="2500" add="100" add2="150 "
    copy="2" comment="comment"/>
</Request>
```

**Attributes <Job>**

Attribute	Meaning/Format
<i>orderNo</i>	Order number (string)
<i>prodNo</i>	Partial order number (string)
<i>jobNo</i>	Operation number (string)
<i>Surname</i>	Optional: Name of the operation (string)
<i>setupTime</i>	Optional: Planned setup time (format: HH:mm)
<i>printTime</i>	Optional: Planned production time (format: HH:mm)
<i>amount</i>	Optional: target prints (integer)
<i>add</i>	Optional: subsidy pressure (integer)
<i>add2</i>	Optional: Subsidy for further processing (integer)
<i>copy</i>	Optional: Use (Integer)
<i>comment</i>	Optional: Comment on the operation (string)

**Response**

```
<Response typeId="10063" returnCode="1"/>
```

*returnCode="0"*: OK !!!

*returnCode="65281"*: Order/partial order not found or error in processing *returnCode="x"*:  
Internal database error code

1.20.0

**LogoTronic Rapida XML protocol**BAVARIA  
DIGITAL  
TECHNIK **BDT****2.2.7 XML DeleteJob (10165)**

Request to delete an operation.

**Request**

```
<Request typeId="10165">
  <Order number="123" />
  <PartOrder number="456" />
  <Job number="789" />
</Request>
```

**Attributes *<Order>***

attribute	Meaning/Format
<i>number</i>	Order number (string)

**Attributes *<PartOrder>***

attribute	Meaning/Format
<i>number</i>	Partial order number (string)

**Attributes *<Job>***

Number	Meaning/Format
attribute	Operation number (string)

**Response**

```
<Response typeId="10165" returnCode="1"/>
```

If this operation is currently running, it will not be deleted, but *returnCode="1"* will still be returned.

1.20.0

**LogoTronic Rapida XML protocol**BAVARIA  
DIGITAL  
TECHNIK BDT**2.2.8 XML preview (10092, option A)**

**OBSOLETE:** This request is used to view the preview image of a sheet page. All four attributes are mandatory fields in the request. The content of the <JPEGData> element in the response is Base64-encoded image data.

Was replaced by 10093, but remains for compatibility reasons.

**Request**

```
<Request typeId="10092">
    <Job orderNo="3471" prodNo="1" side="0"/>
</Request>
```

**Attributes <Job>**

Attribute	Meaning/Format
orderNo	Order number (string)
prodNo	Partial order number (string)
side	Optional: sheet side (0/1, if not defined: 0)

**Response**

```
<Response typeId="10092" returnCode="1"/>
    <JPEGData>ff48b81...</JPEGData>
</Response>
```

1.20.0

**LogoTronic Rapida XML protocol**BAVARIA  
DIGITAL  
TECHNIK BDT**2.2.9 XML preview (10093, option B)**

Request 10093 replaces 10092. In addition to querying preview images, this request also allows querying small thumbnail images for display in the job list. The CDATA areas contain the Base64 encoded image data.

**2.2.9.1 Thumbnails****Request**

```
<Request typeld="10093">
    <Job orderNo="A19073471" prodNo="1" />
</Request>
```

**Attributes <Job>**

attribute	Meaning/Format
<i>orderNo</i>	Order number (string)
<i>productNo</i>	Partial order number (string)

**Response**

```
<Response typeld="10093" returnCode="1"/>
    <JPEGData side="0">...CDATA...</JPEGData>
    <JPEGData side="1">...CDATA...</JPEGData>
</Response>
```

**Attributes <JPEGData>**

attribute	Meaning/Format
<i>side</i>	Sheet side (0/1)

The thumbnails (face and/or reverse print, with low resolution) are returned here.

1.20.0	<b>LogoTronic Rapida XML protocol</b>	BAVARIA DIGITAL TECHNIK <b>BDT</b>
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## 2.2.9.2 Preview images

### Request

```
<Request typeld="10093">
    <Job orderNo="A19073471" prodNo="1" side="0" />
</Request>
```

#### Attributes <Job>

attribute	Meaning/Format
<i>orderNo</i>	Order number (string)
<i>prodNo</i>	Partial order number (string)
<i>side</i>	Sheet side (0/1)

### Response

```
<Response typeld="10093" returnCode="1">
    <JPEGData side="0">..CDATA..</JPEGData>
</Response>
```

#### Attributes <JPEGData>

attribute	Meaning/Format
<i>side</i>	Sheet side (0/1)

The overall preview image of a page (with a higher resolution) is returned here.

1.20.0

**LogoTronic Rapida XML protocol**BAVARIA  
DIGITAL  
TECHNIK **BDT****2.2.9.3 Single image preview****Request option 1 (specify the color)**

```
<Request typeld="10093">
    <Job orderNo="A19073471" prodNo="1" side="0" inkCode="1"/>
</Request>
```

**Request Option 2 (Specification of the disk identifier as determined in **GetSeparations** )**

```
<Request typeld="10093">
    <Job orderNo="A19073471" prodNo="1" side="0" separationID="44232"/>
</Request>
```

**Attributes <Job>**

attribute	Meaning/Format
<i>orderNo</i>	Order number (string)
<i>prodNo</i>	Partial order number (string)
<i>side</i>	Sheet side (0/1)
<i>inkCode</i>	Option 1: Color code to get the appropriate separation (Integer)
<i>separationID</i>	Option 2: Disk identifier to obtain this separation (Long)

One of the *inkCode* and *separationID* attributes must be specified.

**Response**

```
<Response typeld="10093" returnCode="1"/>
    <JPEGData side="0">...CDATA...</JPEGData>
</Response>
```

**Attributes <JPEGData>**

attribute	Meaning/Format
<i>side</i>	Sheet side (0/1)

Here the image of a single separation (with higher resolution) is returned.

1.20.0

**LogoTronic Rapida XML protocol**BAVARIA  
DIGITAL  
TECHNIK BDT**2.2.10 XML GetSeparations (10062)**

Request to determine the color separations that are stored in the partial order.

The optional parameters provide the following options:

- Operation is not specified (no optional attribute specified)
- Operation is specified via the *jobNo* attribute (this is clear)
- Operation is specified using the *sideName* and *separationName* attributes (this could be ambiguous, in such a case one of the appropriate operations is used)

**Request**

```
<Request typeId="10062">
    <Job orderNo="A4711023" prodNo="SHT1" jobNo="2"/>
</Request>
```

**Attributes <Job>**

attribute	Meaning/Format
<i>orderNo</i>	Order number (string)
<i>prodNo</i>	Partial order number (string)
<i>jobNo</i>	Optional: operation number (string)
<i>sideName</i>	Optional: bow side (front/back)
<i>separationName</i>	Optional: Separation name of a color separation (string)

**Response**

```
<Response typeId="10062" returnCode="1">
    <Job orderNo="A4711023" prodNo="SHT1" jobNo="2"/>
    <Separation id="84239" inkCode="1" side="0" printUnit="0" inkConsumption="0.0" printStandard="0"/>
    <Separation id="84240" inkCode="2" side="0" printUnit="0" inkConsumption="0.0" printStandard="345768"/>
    <Separation id="84241" inkCode="3" side="0" printUnit="1" inkConsumption="1.3" printStandard="0"
        url="http://mis_dhd/pre/x2112.png"/>
    <Separation id="84242" inkCode="14" originalInkCode="17" side="0" printUnit="2" inkConsumption="1.9" printStandard="0"
        varnishForme="1"/>
</Response>
```

**Attributes <Job>**

attribute	Meaning/Format
<i>orderNo</i>	Order number (string)
<i>prodNo</i>	Partial order number (string)
<i>jobNo</i>	Optional: operation number (string, only if operation was specified)

1.20.0	<b>LogoTronic Rapida XML protocol</b>	BAVARIA DIGITAL TECHNIK <b>BDT</b>
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**Attributes <Separation>**

Attribute	Meaning/Format
<i>id</i>	Color separation ID from the LogoTronic database (Long)
<i>inkCode</i>	Color code (Integer, is alias color code if used)
<i>originalInkCode</i>	Optional: Original color code (integer, only if alias used for color kitchen)
<i>side</i>	Sheet side (0/1)
<i>printUnit</i>	Optional: Printing unit number (NOT substructure number), 0 if not used in specified operation (integer, only if operation was specified)
<i>inkConsumption</i>	Optional: Theoretical ink consumption / 1000 sheets (kg) (Double, only if operation has been specified and data is available)
<i>printStandard</i>	ID of the color separation-specific printing standard, 0 if the printing standard of the partial job is used (Long)
<i>url</i>	Optional: URL of the original color separation (string)
<i>varnishForme</i>	PLANNED: Optional: Status regarding testing of a paint form 0 = No test required 1 = test ok 2 = test error 3 = untested

Even if no data is found, *returnCode="1"* is returned.

1.20.0

**LogoTronic Rapida XML protocol**BAVARIA  
DIGITAL  
TECHNIK **BDT****2.2.11 XML SetSeparations (10064)**

Request to set the color separations and printing units in one operation (e.g. if this was previously created via **XML-CreateJob**, or to adjust the color separations and printing units that are to be printed or used in this printing pass). The *orderNo*, *prodNo* and *jobNo* attributes in the **<Job>** element are mandatory fields because the color separation settings can only be manipulated at the operation level.

**Request**

```
<Request typeId="10064">
  <Job orderNo="A48837749" prodNo="SHT" jobNo="A"/>
  <Separation id="84239" printUnit="1" printStandard="0"/>
  <Separation id="84240" printUnit="2" printStandard="0"/>
  <Separation id="84241" printUnit="3" printStandard="0"/>
  <Separation id="84242" printUnit="4" printStandard="64544"/>
</Request>
```

**Attributes **<Job>****

attribute	Meaning/Format
<i>orderNo</i>	Order number (string)
<i>prodNo</i>	Partial order number (string)
<i>jobNo</i>	Operation number (string)

**Attributes **<Separation>****

Attribute	Meaning/Format
<i>id</i>	Color separation ID from the LogoTronic database (Long)
<i>printUnit</i>	Printing unit number (NOT substructure number), 0 if not assigned (integer)
<i>printStandard</i>	Optional: ID of the color separation-specific printing standard, 0 if printing standard Partial order used (Long)

**Response**

```
<Response typeId="10064" returnCode="4"/>
```

*returnCode="x"*: Number of color separations successfully adopted

*returnCode="-1"*: Operation not found

1.20.0

**LogoTronic Rapida XML protocol**BAVARIA  
DIGITAL  
TECHNIK BDT**2.2.12 XML GetSingleSeparation (10065)**

Request for individual color separation. A printing unit is also assigned to the color separation.

**Request**

```
<Request typeId="10065">
    <Job orderNo="A48837749" prodNo="SHT" inkName="Magenta" side="0" printUnit="4"/>
</Request>
```

**Attributes <Job>**

attribute	Meaning/Format
<i>orderNo</i>	Order number (string)
<i>prodNo</i>	Partial order number (string)
<i>inkName</i>	Color name of the desired color separation (not color code, string)
<i>side</i>	Optional: Sheet side of the desired color separation (0/1, if not available: 0)
<i>printUnit</i>	Optional: Number of the printing unit (NOT substructure) that should be assigned to this color separation (integer, if not available: 1)

**Response**

```
<Response typeId="10065" returnCode="1" printUnit="4" separationID="44232" inkConsumption="0.654" printStandard="0"
url="http://mis_dhd/pre/x2112.png" >
    <Paint lifter>33</Paint lifter>
    <Colour Ductor>28</Colour Ductor>
    <Moisture Ductor>50</Moisture Ductor>
    <FZM> 0 37 38 24 30 31 28 32 33 27 13 37 13 37 28 28 30 30 30 30 29 26 37 37 0 0 0 0 0 0
        0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</FZM>
    <Scanner>0 29 32 9 16 18 18 13 11 13 20 22 12 6 11 2 21 2 31 2 13 13 14 16 15 16 16 15 17 17 15 10 30 30 0 0 0 0 0 0 0 0
        0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</Scanner>
</Response>
```

**Attributes <Response>**

	Meaning/Format
<i>separationID</i>	Color separation ID from the LogoTronic database (Long)
<i>printUnit</i> attribute	Printing unit number (NOT substructure number) as assigned by request (integer)
<i>inkConsumption</i>	Optional: Theoretical ink consumption / 1000 sheets (kg) (Double)
<i>printStandard</i>	ID of the color separation-specific printing standard, 0 if the printing standard of the partial job is used (Long)
<i>url</i>	Optional: URL of the original color separation (string)

1.20.0

**LogoTronic Rapida XML protocol**BAVARIA  
DIGITAL  
TECHNIK **BDT****2.2.13 XML DataMatrix (10066)**

Query order and color separation via DataMatrix code.

**Request**

```
<Request typeId="10066">
    <DataMatrix tagA="|A48837749|Name|Cover|German|12" tagB="|Front|Magenta" printUnit="4" getImage="1"/>
</Request>
```

**Attributes <DataMatrix>**

attribute	Meaning/Format
<i>tagA</i>	Mark A, the first character defines the separator of the DataMatrix code (string)
<i>tagB</i>	Brand B (String)
<i>printUnit</i>	Optional: Printing unit number (NOT substructure number) (integer)
<i>getImage</i>	1 = Provide individual preview image 0 or not available = No single preview image

**Response**

```
<Response typeId="10066" returnCode="1" printUnit="4" separationID="44232" inkCode="3" inkConsumption="0.654" side="0" >
    <Job orderNo="A48837749" prodNo="CoverDE" jobNo="Run-1"/>
    <Paint lifter>33</Paint lifter>
    <Colour Ductor>28</Colour Ductor>
    <Moisture Ductor>50</Moisture Ductor>
    <FZM>0 37 38 24 30 31 28 32 33 27 13 37 13 37 28 28 30 30 30 30 29 26 37 37 0 0 0 0 0 0
        0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</FZM>
    <Scanner>0 29 32 9 16 18 18 13 11 13 20 22 12 6 11 2 21 2 31 2 13 13 14 16 15 16 15 17 17 15 10 30 30 0 0 0 0 0 0 0 0 0
        0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</Scanner>
    <JPEGData side="0">...CDATA...</JPEGData>
</Response>
```

**Attributes <Response>**

attribute	Meaning/Format
<i>separationID</i>	Color separation ID from the LogoTronic database (Long)
<i>inkCode</i>	Color code (integer)
<i>printUnit</i>	Printing unit number (NOT substructure number) (integer)
<i>side</i>	Sheet side (0/1)
<i>inkConsumption</i>	Optional: Theoretical ink consumption / 1000 sheets (kg) (Double)

**Attributes <Job>**

attribute	Meaning/Format
<i>orderNo</i>	Order number (string)
<i>prodNo</i>	Partial order number (string)
<i>jobNo</i>	Optional: Operation number of the operation (string, only if there is exactly one)

**Attributes <JPEGData>**

attribute	Meaning/Format
<i>side</i>	Sheet side (0/1)

1.20.0

**LogoTronic Rapida XML protocol**BAVARIA  
DIGITAL  
TECHNIK **BDT****2.2.14 XML SheetFlip (10067)**

Turning inside out / turning over work process.

**Request**

```
<Request typeId="10067">
    <Job orderNo="A48837749" prodNo="1" jobNo="1" />
</Request>
```

**Attributes <Job>**

Attribute	Meaning/Format
<i>orderNo</i>	Order number (string)
<i>prodNo</i>	Partial order number (string)
<i>jobNo</i>	Operation number without suffix (=MachineSetting "SheetFlipSuffix", String)

**Response**

```
<Response typeId="10067" returnCode="1" >
    <Job orderNo="A48837749" prodNo="1" jobNo="1+Ending"/>
    <Counter amount="0" totalAmount="0"/>
</Response>
```

**Attributes <Job>**

Attribute	Meaning/Format
<i>orderNo</i>	Order number (string)
<i>prodNo</i>	Partial order number (string)
<i>jobNo</i>	Operation number with suffix (string)

**Attributes <Counter>**

attribute	Meaning/Format
<i>amount</i>	Net counter (integer)
<i>totalAmount</i>	Gross counter (integer)

If the operation has not yet been completed, the two <Counter> attributes are set to 0. If it already exists, the two counters with accumulated counter readings are returned.

1.20.0

**LogoTronic Rapida XML protocol**BAVARIA  
DIGITAL  
TECHNIK BDT**2.2.15 XML UnprintedZones (10069)**

Query of the pressure-free zones to control the sheet brake.

**Request**

```
<Request typeld="10069">
    <Job orderNo="|A48837749" prodNo="1" />
</Request>
```

**Attributes <Job>**

attribute	Meaning/Format
<i>orderNo</i>	Order number (string)
<i>prodNo</i>	Partial order number (string)

**Response**

```
<Response typeld="10069" returnCode="1">
    <Front>
        <Zone left="7.1245" right="15.564"/>
        <Zone left="837.451" right="873.257"/>
    </Front>
    <Back>
        <Zone left="459.425" right="482.451"/>
    </Back>
</Response>
```

**Attributes <Zone>**

Attribute	Meaning/Format
<i>left</i>	Distance from the left edge of the zone to the left edge of the sheet in millimeters (double)
<i>right</i>	Distance from the right edge of the zone to the left edge of the sheet in millimeters (double)

1.20.0

**LogoTronic Rapida XML protocol**BAVARIA  
DIGITAL  
TECHNIK BDT**2.2.16 XML MeasuringInfo (10009)**

Request to transmit information for measurement technology for an operation.

**Request**

```
<Request typeId="10009">
    <Job orderNo="12345" partOrderNo="4321" printRunNo="4711" />
</Request>
```

**Attributes <Job>**

Attribute	Meaning/Format
orderNo	Order number (string)
prodNo	Partial order number (string)
jobNo	Operation number (string)

**Response**

```
<Response typeId="10009" returnCode="1">
    <Job orderNo="12345" partOrderNo="4321" printRunNo="4711" />
    <Data>
        <RootTagName>
            <AnyTagName anyAttribute="56462 anyOtherAttribute="bla" />
            <AnyOtherTagName/>
        </RootTagName>
    </Data>
</Response>
```

**Attributes <Job>**

Attribute	Meaning/Format
orderNo	Order number (string)
prodNo	Partial order number (string)
jobNo	Operation number (string)

The content of the <Data> element is an XML structure specified by measurement technology. The LogoTronic doesn't know this structure and just passes it through. If there is no data, the element is empty.

1.20.0

**LogoTronic Rapida XML protocol**BAVARIA  
DIGITAL  
TECHNIK **BDT****2.2.17 XML PaperPiles (10014)**

Query the output stacks of paper planned for an operation.

**Request**

```
<Request typeId="10014">
    <Job orderNo="8837749" prodNo="1" jobNo="A" />
</Request>
```

**Attributes <Job>**

Attribute	Meaning/Format
<i>orderNo</i>	Order number (string)
<i>prodNo</i>	Partial order number (string)
<i>jobNo</i>	Operation number (string)

**Response**

```
<Response typeId="10014" returnCode="5">
    <Pile sheets="5500"/>
    <Pile sheets="5000"/>
    <Pile sheets="5000"/>
    <Pile sheets="5000"/>
    <Pile sheets="2200"/>
</Response>
```

**Attributes <Pile>**

attribute	Meaning/Format
<i>sheets</i>	Desired number of sheets in the stack (integer)

The Pile elements are sorted in the order to be used.

- returnCode="x"*: Number of defined stacks (= pile elements)
- returnCode="0"*: No stacks defined, use usual handling
- returnCode="-1"*: Internal error in processing
- returnCode="-2"*: Incorrect or non-existent information

1.20.0

**LogoTronic Rapida XML protocol**BAVARIA  
DIGITAL  
TECHNIK BDT**2.2.18 XML SupportNavigatedPrinting (10071)**

PLANNED: Describes the functions supported by the machine, triggers, special cycles, sanctions, display locations and acknowledgment locations for Navigated Printing.

**Request**

```
<Request typeld="10071">
    <NavigatedPrinting languageld="1"/>
    <Functions>
        <Function id="135428" name="Switch on good sheet counter (automatic)"/>
        <Function id="135429" name="Rubber Cloth Washing"/>
    </Functions>
    <Triggers>
        <Trigger id="347391" name="Circulation reached" cyclic="false"/>
        <Trigger id="347393" name="During good production" cyclic="true"/>
        <Trigger id="347397" name="Every order change " cyclic="false"/>
        <Trigger id="347403" name="Paint change " cyclic="false"/>
    </Triggers>
    <Cycles>
        <Cycle id="76876" name="Stack change feeder" />
        <Cycle id="76877" name="Stack change display" />
    </Cycles>
    <Sanctions>
        <Sanction id="64974" name="Continuous horn tone" />
        <Sanction id="64977" name="End of program" />
    </Sanctions>
    <Displays>
        <Display id="46487" name=""Investor" />
        <Display id="46488" name="ErgoTronicApp" />
    </Displays>
    <Confirmations>
        <Confirmation id="98254" name="List at the control center" />
        <Confirmation id="98258" name="Panel display location" />
    </Confirmations>
</Request>
```

**Attributes <NavigatedPrinting>**

attribute	Meaning/Format
<i>languageld</i>	Optional: Rapida Windows language ID, 0=English, 1=German, 2=French, 3=Italian, 4=Hungarian, 5=Spanish, 6=Swedish, 7=Danish, ...

**Attributes <Trigger>**

Attribute	Meaning/Format
<i>id</i>	Unique ID of the trigger (integer)
<i>Surname</i>	Trigger name (string, language specific)
<i>cyclic</i>	Does this trigger allow and require cyclic triggering? (Boolean)

**Attributes <Function>, <Cycle>, <Sanction>, <Display>, <Confirmation>**

attribute	Meaning/Format
<i>id</i>	Unique ID (Integer)
<i>Surname</i>	Name (string, language specific)

**Response**

```
<Response typeld="10071" returnCode="1"/>
```

1.20.0

**LogoTronic Rapida XML protocol**BAVARIA  
DIGITAL  
TECHNIK BDT**2.2.19 XML GetWorkingPlan (10072)**

PLANNED: Query the tasks in the work plan for an operation. This is for Navigated Printing needed.

**Request**

```
<Request typeld="10072">
    <WorkingPlan orderNo="8837749" prodNo="1" jobNo="A" languageld="1"/>
</Request>
```

**Attributes <WorkingPlan>**

attribute	Meaning/Format
orderNo	Order number (string)
prodNo	Partial order number (string)
jobNo	Operation number (string)
languageld	Optional: Rapida Windows language ID, 0=English, 1=German, 2=French, 3=Italian, 4=Hungarian, 5=Spanish, 6=Swedish, 7=Danish, ...

**Response**

```
<Response typeld="10072" returnCode="1">
    <WorkingPlan orderNo="8837749" prodNo="1" jobNo="A" planId="54656" planName="Pizza">
        <Task id="46156" name="Rubber blanket washing" function="135429" trigger="54686" cycle="-500" delay="0">
            <Sanction id="46176" name="Horn, once" delay="500"/>
            <Sanction id="-154157" name="Email to shift manager" delay="2000"/>
        </Task>
        <Task id="46163" name="Color measurement with ETC" function="56468" trigger="64676" cycle="546318" delay="0"/>
        <Task id="46169" name="Remove sample sheet" function="0" trigger="64676" cycle="0" delay="0" display="64617" confirmation="61548">
            <Sanction id="0" name="Urgent: Sample sheet!" delay="1000" display="645667"/>
        </Task>
        <Task id="46178" name="Book color fill " function="-28546" trigger="64602" cycle="0" delay="100"/>
    </WorkingPlan>
</Response>
```

**Attributes <WorkingPlan>**

attribute	Meaning/Format
orderNo	Order number (string)
prodNo	Partial order number (string)
jobNo	Operation number (string)
planId	Unique ID of the work plan (integer)
planName	Name of the work plan (string, language specific)

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**Attributes <Task>**

Attribute	Meaning/Format
<i>id</i>	Unique ID of the task (integer)
<i>Surname</i>	Name of the task, if <i>function</i> = 0 this is the display text (string, language-specific)
<i>function</i>	Unique ID of the function (Integer): <ul style="list-style-type: none"> <li>&gt; 0: Machine function, see request 10071, element <i>function</i>, attribute <i>id</i></li> <li>= 0: Manual function with display/acknowledgment on/via machine</li> <li>&lt; 0: LogoTronic function</li> </ul>
<i>trigger</i>	Unique ID of the trigger, see request 10071, element <i>trigger</i> , attribute <i>id</i> (integer)
<i>cycle</i>	The cycle of the task (integer): <ul style="list-style-type: none"> <li>= 0: No cycle: one-time task, to be used if for this <i>trigger</i> <i>cyclic</i> = "false" in request 10071</li> <li>&lt; 0: Standard cycle: After this number of sheets (absolute value) the task is repeated</li> <li>&gt; 0: Special cycle: Unique ID, see request 10071, element <i>cycle</i>, attribute <i>id</i></li> </ul>
<i>delay</i>	Delay by this number of arcs, 0 = without delay (integer)
<i>display</i>	Only if <i>function</i> = 0: Unique ID of the display location, see Request 10071, Element <i>Display</i> , Attribute <i>id</i> (integer)
<i>confirmation Only</i>	if <i>function</i> = 0: Unique ID of the confirmation location, see request 10071, element <i>Confirmation</i> , attribute <i>id</i> (integer)

**Attributes <Sanction>**

attribute	Meaning/Format
<i>id</i>	Unique ID of the sanction (Integer): <ul style="list-style-type: none"> <li>&gt; 0: Machine sanction, see request 10071, element <i>sanction</i>, attribute <i>id</i></li> <li>= 0: Display on/via machine</li> <li>&lt; 0: LogoTronic sanction</li> </ul>
<i>Surname</i>	Name of this sanction, if <i>id</i> = 0 this is the display text (string, language-specific)
<i>delay</i>	Delay by this number of arcs, greater than 0 (integer)
<i>display</i>	Only if <i>id</i> = 0: Unique ID of the display location, see request 10071, element <i>display</i> , attribute <i>id</i> (integer)

1.20.0

**LogoTronic Rapida XML protocol**BAVARIA  
DIGITAL  
TECHNIK BDT**2.3 Operating data (BDE)****2.3.1 XML InkConsSend (10090)**

Request to report color usage to LogoTronic.

**Request**

```
<Request typeId="10090">
    <InkConsumption inkCode="1" gramSum="7431" source="1"/>
    ...
</Request>
```

**Attributes <InkConsumption>**

attribute	Meaning/Format
<i>inkCode</i>	Color code of the color used (integer)
<i>gramSum</i>	Current total for the job in grams (integer)
<i>source</i>	Source of used paint: <b>0</b> = can <b>1</b> = cartridge <b>2</b> = barrel

**Response**

```
<Response typeId="10090" returnCode="1"/>
```

*returnCode="1"*: OK or error!!!

1.20.0

**LogoTronic Rapida XML protocol**BAVARIA  
DIGITAL  
TECHNIK BDT**2.3.2 XML InkConsReceive (10091)**

Request to query the paint consumption that has so far been accumulated for a work process.

**Request**

```
<Request typeId="10091">
    <Job orderNo="3471" prodNo="1" jobNo="A"/>
</Request>
```

**Attributes <Job>**

Attribute	Meaning/Format
<i>orderNo</i>	Order number (string)
<i>prodNo</i>	Partial order number (string)
<i>jobNo</i>	Operation number (string)

**Response**

```
<Response typeId="10091" returnCode="1">
    <Job orderNo="3471" prodNo="1" jobNo="A"/>
    <InkConsumption inkCode="1" inkName="Black" gramSum="7431" source="1"/>
    <InkConsumption inkCode="2" inkName="Cyan" gramSum="1203" source="1"/>
    <InkConsumption inkCode="3" inkName="Magenta" gramSum="576" source="1"/>
    <InkConsumption inkCode="4" inkName="Yellow" gramSum="1317" source="1"/>
</Response>
```

**Attributes <Job>**

attribute	Meaning/Format
<i>orderNo</i>	Order number (string)
<i>prodNo</i>	Partial order number (string)
<i>jobNo</i>	Operation number (string)

**Attributes <InkConsumption>**

attribute	Meaning/Format
<i>inkCode</i>	Color code of the color used (integer)
<i>inkName</i>	Name of the color used (string)
<i>gramSum</i>	Current total for the job in grams (integer)
<i>source</i>	Source of used paint: 0 = can 1 = cartridge 2 = barrel

1.20.0

**LogoTronic Rapida XML protocol**BAVARIA  
DIGITAL  
TECHNIK BDT**2.3.3 XML PalletInfo (10094)**

This request is used to report pallet changes to the feeder or delivery. When there is a stack change or an order change at the delivery, it is also possible to trigger a pallet slip to be printed out.

**Request**

```
<Request typeId="10094">
  <Job orderNo="4711" prodNo="A" jobNo="1"/>
  <Pile no="12" amount="800" comment="Hello world!" toCostcenter="K5712" postProcessInfo="12 / 750" deliveryPile="1"
    stateld="534533" />
  <Print copies="4" form="Form4711" down="0"/>
  <Counter requiredAmount="250000" amount="10254" totalAmount="10285"/>
  <RFID id="3475754609856" location="1" direction="1" />
  <DeliveryAddress nr="12" />
</Request>

or

<Request typeId="10094">
  <RFID id="3475754609856" location="0" direction="0" state="1"/>
</Request>
```

**Attributes <Job>**

Attribute	Meaning/Format
<i>orderNo</i>	Optional: order number (string)
<i>prodNo</i>	Optional: partial order number (string)
<i>jobNo</i>	Optional: operation number (string)

**Attributes <Pile>**

attribute	Meaning/Format
<i>no</i>	Continuing Number of the stack within the current production (integer)
<i>amount</i>	Sheet instances on the stack (Integer)
<i>comment</i>	Optional: Comment on this stack (string)
<i>toCostcenter</i>	Optional: Cost center of the subsequent department (string)
<i>postProcessInfo</i>	Optional: Pallet number and copies/pallet for further processing (string)
<i>deliveryPile</i>	Optional: Position of the boom (1 = first or only one, 2, 3, 4; not specified: 1)
<i>stateld</i>	Optional: State of the delivery stack (id, integer passed via XML-PalletStates)
<i>lotNo</i>	Optional: Marking of a new paper batch, blank for unknown/no batch (string)

**Attributes <Print>**

attribute	Meaning/Format
<i>copies</i>	Optional: 0...n (number of desired hard copies, integer, not specified: 1)
<i>form</i>	Optional: Identifier of the form template (string)
<i>down</i>	Optional: stack bottom = 1; Stack not bottom = 0

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**Attributes <Counter>**

	Meaning/Format
<i>requiredAmount</i> attribute	Optional: target prints (integer)
<i>amount</i>	Optional: Net counter (at the time the print is triggered, integer)
<i>totalAmount</i>	Optional: gross counter (at the time the print is triggered, integer)

**Attributes <RFID>**

attribute	Meaning/Format
<i>id</i>	Optional: RFID identifier (string)
<i>location</i>	Optional: location  0 = investor 1 or not specified = display
<i>direction</i>	Optional: direction of the pallet  0 = into the machine 1 or not specified = away from the machine
<i>state</i>	<b>OBSOLETE: Only of interest to investors (not used)</b>  0 or not specified = no meaning 1 = pallet empty

**Attributes <DeliveryAddress>**

attribute	Meaning/Format
<i>No</i>	Optional: Number of the delivery address, as determined via XML-DeliveryAddresses (10101) (string)

**Important**

All requests relevant to pallet slips (stack cards, sheet cards and sheet lineups) are characterized by two conditions:

- RFID -> *location* = 1 or unspecified
- RFID -> *direction* = 1 or not specified

All other requests have no meaning for pallet notes.

The pallet slip requests are also differentiated into three events: stack change, order change and paper batch change.

Which input data triggers which event can be seen in the following table:

Pile->lotNo	Print->down	Event
unspecified or empty unspecified	unspecified 0	Stack change
or empty unspecified or empty		Change of order
specified and not empty	other value	Stack change
specified and not empty	unspecified 0	Paper batch change
specified and not empty		Paper batch change
	other value	Mistake

In principle, NO pallet slips are printed out when there is a paper batch change; in the other two events, if relevant information is available.

**Response**

```
<Response typeId="10094" returnCode="1"/>
```

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### 2.3.4 XML OperationalData (10011)

Request for operating data acquisition, i.e. any machine messages (errors and status changes) can be reported from the control center to LogoTronic using this request.

#### Request

```
<Request typeId="10011">
  <Job orderNo="x" prodNo="y" jobNo="z"/>
  <OpData timeStamp="1139477988" speed="3000" comment="Attention! This is a comment!">
    <Counter amount="234" totalAmount="285" totalCounter="113567" opHours="34232" opHoursPerf="12213"
      totalCounterPerf="45122" totalCounterGross="114986"/>
    <Activity no="@ 17" value="" units="1"/>
    <Machine state="1" jobState="4096" timeState="318767104"/>
    <PowerConsumption>
      <PowerCounter id="1" name="Machine" realPower="124565.9" reactivePower="245.2"/>
      <PowerCounter id="2" name="Dryer IR" realPower="1246.3" reactivePower="245.2"/>
      .....
      <PowerCounter id="5" name="Air" realPower="56.8" reactivePower="245.2"/>
    </PowerConsumption>
  </OpData>
</Request>
```

#### Attributes <Job>

Attribute	Meaning/Format
<i>orderNo</i>	Optional: order number (string)
<i>prodNo</i>	Optional: partial order number (string)
<i>jobNo</i>	Optional: operation number (string)

#### Attributes <OpData>

attribute	Meaning/Format
<i>timeStamp</i>	Timestamp of the message (integer, seconds UNIX time)
<i>speed</i>	Current machine speed (integer, arc/hour)
<i>comment</i>	Printer comment (string)

#### Attributes <Counter>

attribute	Meaning/Format
<i>amount</i>	Net counter (integer)
<i>totalAmount</i>	Gross counter (integer)
<i>totalCounter</i>	Totalizer Net (Long)
<i>totalCounterGross</i>	Totalizer Gross (Long)
<i>totalCounterPerf</i>	Gross totalizer in reversing mode (long)
<i>opHours</i>	Total operating hours (double)
<i>opHoursPerf</i>	Total operating hours in reversing mode (double)

#### Attributes <Activity>

attribute	Meaning/Format
<i>no</i>	Identification of the event (string)
<i>value</i>	Optional: value of the event (string)
<i>units.units</i>	1 or not set = event is coming 0 = event passes

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**Attributes <Machine>**

attribute	Meaning/Format
<i>state</i>	Machine condition: <b>0</b> = Ready <b>1</b> = production <b>2</b> = fault
<i>jobState</i>	Job status: <b>4096 (0x1000)</b> = Job running <b>8192 (0x2000)</b> = No job active
<i>timeState</i>	Machine time: <b>285212672 (0x11000000)</b> = setup time <b>301989888 (0x12000000)</b> = execution time <b>318767104 (0x13000000)</b> = Different manufacturing time <b>536870912 (0x20000000)</b> = Auxiliary time <b>1073741824 (0x40000000)</b> = Downtime

**Attributes <PowerCounter>**

attribute	Meaning/Format
<i>Surname</i>	Aggregate names (string)
<i>id</i>	ID of the consumable (string)
<i>realPower</i>	Optional: <b>active energy</b> in kWh (double)
<i>reactivePower</i>	Optional: <b>reactive energy</b> in kvarh (double)
<i>currRealPower</i>	Optional: Average active power in kW (double)
<i>currReactivePower</i>	Optional: Average reactive power in kvar (double)

Up to 5 meter readings can be transferred.

**Response**

```
<Response typeld="10011" returnCode="1" productionOutput="73" energyLevel="0" energyMachine="1" />
```

**Attributes <Response>**

	Meaning/Format
<i>productionOutput</i> attribute	PLANNED: Optional: Benchmarking value for the current production speed, analogous to the benchmarking in the LogoTronic Cockpit. The value range is from 0 to 100: 0 - 25 correspond to the red area in the speedometer, 25 - 75 to the yellow and 75 - 100 to the green area; 75 therefore corresponds to the exact achievement of the setpoint (integer)
<i>energyLevel</i>	Optional: Classification of the current energy consumption in the factory, the value range is from <b>0</b> to <b>3</b> : <b>0</b> indicates normal or low energy consumption, <b>1</b> , <b>2</b> and <b>3</b> a successively increased consumption (integer)
<i>energyMachine</i>	<b>1</b> = Machine specifically configured with regard to energy consumption (to signal a possibly necessary machine-specific action) <b>0</b> = other machine not present = not configured or no consumption in the configured interval

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## LogoTronic Rapida XML protocol

BAVARIA  
DIGITAL  
TECHNIK **BDT**

### SCHEDULED: Day <DoRequests>

This tag contains requests that the machine should execute. LogoTronic therefore has the opportunity to communicate requests to be executed to the machine. This day is intended for the machine to get new or changed data from LogoTronic or to send certain data to LogoTronic. (Originally intended for exchanging maintenance information.)

The requests must be filled with the relevant information in accordance with the respective request definition. A precise description of which tags and attributes are mandatory in order to be considered DoRequest-compatible is documented in the respective request description.

These request requests cannot simply be accepted 1:1 by the control center and sent to LogoTronic, but must be parsed by the control center and processed internally accordingly. This also prevents the control center from sending any attributes that the LogoTronic can handle but the control center does not yet have.

Requests that request data from LogoTronic must always be filled out to such an extent that LogoTronic can process them without any problems.

For requests that send data to LogoTronic, the <Request> tag with the *typeid* attribute and any attributes necessary for the request must be included. The control center must complete the rest according to the request.

Only certain requests are <DoRequests>-capable, as the control center must also support this.

Any number of requests can be defined in <DoRequests>.

LogoTronic does not wait for the requests in <DoRequests> to be executed. It is also not checked whether a request was carried out by the control center as requested by LogoTronic.

```
<Response typeid="10011" returnCode="1" energyLevel="0" energyMachine="1" >
    <DoRequests>
        <!-- The control center should query the data for specific maintenance from the LogoTronic. -->
        <Request typeid="10320">
            <U id="811" />
            <U id="813" />
        </Request>
        <!-- The control center should send all maintenance data to the LogoTronic. -->
        <Request typeid="10310" form="0" scope="0" />
    </DoRequests>
</Response>
```

*returnCode="1"*: OK

*returnCode="16"*: Internal error in processing

1.20.0

**LogoTronic Rapida XML protocol**BAVARIA  
DIGITAL  
TECHNIK BDT**2.3.5 XML UserEvent (10012)**

Request to report the triggering of user-defined messages to LogoTronic.

**Request**

```
<Request typeId="10012">
    <Usermessage id="12" incoming="1139477988" outgoing="1139478005" comment="Brotzeit" rebook="true" />
</Request>
```

**Attributes <Usermessage>**

Attribute	Meaning/Format
<i>id</i>	Custom message number (string)
<i>incoming</i>	Optional: Timestamp message arrives (Long, seconds UNIX time)
<i>outgoing</i>	Optional: Timestamp message goes (Long, seconds UNIX time)
<i>comment</i>	Optional: operator comment (string)
<i>rebook</i>	Optional: rebooking or new notification? (Boolean)

At least one of the attributes *incoming* and *outgoing* must be sent, *rebook* can also be sent:

- Only *incoming* available: A current time stamp must be sent for new messages; to change/rebook previous messages (e.g. with the BDE step chain) the timestamp of the original message to be rebooked must be sent.
- Only *outgoing* available: The message is always treated as a current message, *comment* is ignored.
- Both *incoming* and *outgoing*, no *rebook*: The message is generally sent as a rebooking specified period of time.
- If *rebook* is "false" : The message is always treated as a current message; *incoming* and *outgoing* cannot both be present.
- If *rebook* is "true" : The message is generally treated as a change/rebooking, *incoming* must be present.

**Response**

```
<Response typeId="10012" returnCode="1"/>
```

1.20.0

**LogoTronic Rapida XML protocol**BAVARIA  
DIGITAL  
TECHNIK BDT**2.3.6 XML AssistantTask (10015)**

Request to report the triggering of helper tasks to LogoTronic.

**Request**

```
<Request typeId="10015">
    <AssistantTask no="12" />
</Request>
```

**Attributes <AssistantTask>**

attribute	Meaning/Format
<i>no</i>	Task number (integer)
<i>priority</i>	Optional: Changed priority (integer, 1=lowest, 10=highest)
<i>comment</i>	Optional: operator comment (string)

**Response**

```
<Response typeId="10015" returnCode="1"/>
```

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**LogoTronic Rapida XML protocol**BAVARIA  
DIGITAL  
TECHNIK **BDT****2.3.7 XML BdePersonnel (10008)**

Request to report the occurrence of personnel-related activities to LogoTronic.

**Request**

```
<Request typeId="10008">
    <Personal activityNo="34" id="12" timestamp="1139477988" comment="Feierabend"/>
    <Personal activityNo="42" id="11" timestamp="1139477994" comment="" />
</Request>
```

**Attributes <Usermessage>**

attribute	Meaning/Format
<i>activityNo</i>	Message number (string)
<i>id</i>	Personnel number (string)
<i>timestamp</i>	Timestamp message (integer, seconds UNIX time)
<i>comment</i>	Operator comment (string)

**Response**

```
<Response typeId="10008" returnCode="1"/>
```

1.20.0

**LogoTronic Rapida XML protocol**BAVARIA  
DIGITAL  
TECHNIK **BDT****2.3.8 XML SheetSideMachineData (10013)**

Request to report control center information for a page of a partial order. This request should only be sent to pages that are actually being used (e.g. not side="0" if only the front side is currently being printed).

**Request**

```
<Request typeId="10013">
  <Job orderNo="46046" prodNo="B-01" side="0"/>
  <QualityLevels ap="2" pc="1" qcc="4" icr="1" pdf="4"/>
</Request>
```

**Attributes <Job>**

attribute	Meaning/Format
<i>orderNo</i>	Order number (string)
<i>prodNo</i>	Partial order number (string)
<i>side</i>	Page used (0/1)

**Attributes <QualityLevels>**

attribute	Meaning/Format
<i>ap</i>	Optional: Quality level used for Auto Print / automatic counter (integer)
<i>pc</i>	Optional: Quality level used for QualiTronic PrintCheck (Integer)
<i>qcc</i>	Optional: Quality level used for QualiTronic ColorControl (Integer)
<i>icr</i>	Optional: Quality level used with QualiTronic ICR (Integer)
<i>pdf</i>	Optional: Quality level used for QualiTronic PDF (Integer)

**Response**

```
<Response typeId="10013" returnCode="1"/>
```

1.20.0

**LogoTronic Rapida XML protocol**BAVARIA  
DIGITAL  
TECHNIK BDT**2.3.9 XML NavigatedPrintingEvent (10073)**

SCHEDULED: Reports the triggering or completion of a Navigated Print task or sanction.

**Request**

```
<Request typeId="10073">
    <NavigatedPrinting taskId="46657" cyclic="false" handled="true" resolved="true"/>
</Request>
```

**Attributes <NavigatedPrinting>**

attribute	Meaning/Format
<i>taskId</i>	Unique ID of the task, see request 10072, element <i>task</i> , attribute <i>id</i> (integer)
<i>sanctionId</i>	Only if a sanction has been triggered: Unique ID of the sanction, see Request 10072, Element <i>Sanction</i> , Attribute <i>id</i> (Integer)
<i>cyclic</i>	Is this a cyclical task? (Boolean) if in request 10072, element <i>task</i> , attribute <i>cycle</i> = "true"
<i>handled</i>	Is/was the task/sanction handled by the machine itself? (Boolean) for tasks: if in request 10072, element <i>task</i> , attribute <i>function</i> >= 0 for sanctions: if in request 10072, element <i>sanction</i> , attribute <i>id</i> >= 0
<i>resolved</i>	Only for tasks, not for sanctions: Was the task completed by the printer/helper? (Boolean)

The triggering of sanctions for tasks that are handled by the machine itself (request 10072, element *task*, attribute *function* >= 0) is only reported if the task has not (yet) been completed.

The triggering of sanctions for tasks that are handled by LogoTronic (request 10072, element *task*, attribute *function* < 0) is always reported because the machine does not know whether the task has already been completed was completed.

**Response**

```
<Response typeId="10073" returnCode="1"/>
```

1.20.0

**LogoTronic Rapida XML protocol**BAVARIA  
DIGITAL  
TECHNIK BDT**2.4 Master data****2.4.1 XML Colors (10035)**

Request to load the color list from the LogoTronic database to the control center. If the "ReducedColorList" flag is set for the machine and no XML MachineConfig was received, then only the colors that were used within the last six months are sent (period configurable).

**Request**

```
<Request typeId="10035" onlyDifferences="false"/>
```

**Attributes <Request>**

attribute	Meaning/Format
<i>onlyDifferences</i>	Optional: If "true" = Only differences from the last response should be sent.

**Response**

```
<Response typeId="10035" returnCode="35" onlyDifferences="false">
<Ink inkCode="1" inkName="Black" red="0" green="0" blue="0" specWeight="1.03" pigmentation="1.2" inkDensity="1.3"
cieL="0.0" cieA="0.0" cieB="0.0" papL="0.0" papA="0.0" papB="0.0" degree="10" ductorCycle="9" illumination="D65"
filter="" cyan="0.0" magenta="0.0" yellow="0.0" black="0.0" coatingThickness="4.5" densityStatus="E" colorClass="1"/>
...
</Response>
```

**Attributes <Response>**

	Meaning/Format
<i>onlyDifferences</i> attribute	If "true" only colors that have changed since the last response will be sent. This is only the case if this is requested via the request and no color has been deleted in the meantime.

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**Attributes <Ink>**

attribute	Meaning/Format
<i>inkCode</i>	Color code of the color (integer, identifier)
<i>inkName</i>	Color name (string)
<i>red, green, blue</i>	0..255 each (RGB value, integer)
<i>specWeight</i>	Specific gravity in g/cm <sup>3</sup> (double)
<i>pigmentation</i>	Pigmentation (double value between 0.0 and 2.0). In the case of a new color, 99.0 is given, then the value must be corrected by the control center (with XML-CreateOrChangeColor 10070)
<i>inkDensity</i>	Color density (double value between -3.0 and 3.0). In the case of a new color, 99.0 is given, then the value must be corrected by the control center (with XML-CreateOrChangeColor 10070)
<i>cieL, cieA, cieB</i>	CIE-LAB values (double each)
<i>papL, papA, papB</i>	<b>OBSOLETE:</b> Paper LAB values (each double) (not used)
<i>degree</i>	Observation angle (integer, usually 2 or 10)
<i>illumination</i>	White reference (string, if set, then usually "D50" or "D65")
<i>filter</i>	Filter value (string, if set, then usually an integer between 1 and 4)
<i>ductorCycle</i>	Lifter cycle (integer)
<i>coatingThickness</i>	Paint layer thickness in µm (double)
<i>densityStatus</i>	Density status (string, e.g. "DIN", "A", "E", ...)
<i>cyan, magenta, yellow, black</i>	Density values (each double)
<i>colorClass</i>	Color class ID (Long)

*returnCode="x"*: Number of complete or reduced colors, in the case of *onlyDifferences* is usually significantly higher than the number of colors sent!

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**LogoTronic Rapida XML protocol**BAVARIA  
DIGITAL  
TECHNIK BDT**2.4.2 XML CreateOrChangeColor (10070)**

Request to create a new color or to change an existing color in the LogoTronic color database. The unique identifier of a color is the *inkCode attribute*.

**Request**

```
<Request typeId="10070">
    <Ink inkCode="129" inkName="Pantone 487c" red="235" green="120" blue="67" specWeight="1.03" pigmentation="1.2"
        inkDensity="1.3" cieL="0.0" cieA= "0.0" cieB="0.0" papL="0.0" papA="0.0" papB="0.0" degree="10" illumination="D65"
        filter="" cyan="0.0" magenta="0.0" yellow=" 0.0" black="0.0"/>
</Request>
```

**Attributes <Ink>**

Attribute	Meaning/Format
<i>inkCode</i>	Color code of the color (integer, identifier, therefore MUST field!)
<i>inkName</i>	Optional: Name of the color (string, mandatory field if a new color is to be created)
<i>red, green, blue</i>	Optional: 0..255 each (RGB value, integer)
<i>specWeight</i>	Optional: Specific gravity in g/cm³ (double)
<i>pigmentation</i>	Optional: Pigmentation (double value between 0.0 and 2.0)
<i>inkDensity</i>	Optional: Color density (double value between -3.0 and 3.0)
<i>cieL, cieA, cieB</i>	Optional: CIE-LAB values (double each)
<i>papL, papA, papB</i>	OBsolete: Optional: Paper LAB values (double each) (not used)
<i>degree</i>	Optional: observation angle (integer, usually 2 or 10)
<i>illumination</i>	Optional: White reference (string, if set, then usually "D50" or "D65")
<i>filter</i>	Optional: Filter value (string, if set, then usually an integer between 1 and 4)
<i>ductorCycle</i>	Optional: lifter cycle (integer)
<i>coatingThickness</i>	Optional: paint layer thickness in µm (double)
<i>densityStatus</i>	Optional: Density status (string, e.g. "DIN", "A", "E", ...)
<i>colorClass</i>	Optional: ID of the color class (Long)
<i>cyan, magenta, yellow, black</i>	Optional: density values (double each)

*returnCode="1": OK**returnCode="x": Internal database error code***Response**

```
<Response typeId="10070" returnCode="1"/>
```

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**LogoTronic Rapida XML protocol**BAVARIA  
DIGITAL  
TECHNIK BDT**2.4.3 XML ColorClasses (10080)**

Request to query the defined color classes.

**Request**

```
<Request typeId="10080">
    <ColorClasses languageId="1" />
</Request>
```

**Attributes <ColorClasses>**

attribute	Meaning/Format
<i>languageId</i>	Optional: Rapida Windows language ID, 0=English, 1=German, 2=French, 3=Italian, 4=Hungarian, 5=Spanish, 6=Swedish, 7=Danish, ...

**Response**

```
<Response typeId="10080" returnCode="1">
    <ColorClass id="1" nr="Black" name="Black" forPrintUnits="true"/>
    <ColorClass id="2" nr="Cyan" name="Cyan" forPrintUnits="true"/>
    ...
</Response>
```

**Attributes <ColorClass>**

attribute	Meaning/Format
<i>id</i>	Unique ID of the color class (Long)
<i>No</i>	Color class number, unique across systems (string, language independent)
<i>Surname</i>	Color class name (string, language specific)
<i>forPrintUnits</i>	Colors suitable for printing (Boolean)

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**LogoTronic Rapida XML protocol**BAVARIA  
DIGITAL  
TECHNIK BDT**2.4.4 XML Varnishes (10039)**

Request to load the paint list from the LogoTronic database to the control center. All paints listed here also appear in the color list (10035).

**Request**

```
<Request typeld="10039"/>
```

**Response**

```
<Response typeld="10039" returnCode="1">
    <Varnish code="157" name="Gloss Varnish" type="0" viscosity="40"/>
    ...
</Response>
```

**Attributes <Varnish>**

Attribute	Meaning/Format
<i>code</i>	(color) code of the paint (integer, identifier)
<i>Surname</i>	Name of the varnish (string)
<i>type.type</i>	Optional: Type of paint: <b>0</b> = dispersion <b>1</b> = UV
<i>manufacturer</i>	Optional: Manufacturer (String)
<i>technology</i>	Optional: Technology variant (e.g. for paint: <b>high gloss, gloss, matt, blister, ...</b> ) (string)
<i>viscosity</i>	Optional: Viscosity in seconds (e.g. <b>20, 80, ...</b> ) (Integer)

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**LogoTronic Rapida XML protocol**BAVARIA  
DIGITAL  
TECHNIK BDT**2.4.5 XML Personnel (10036)**

Request to query the machine operating personnel created in LogoTronic, including the registration status of the employees. Only the employees authorized for the machine making the request will be delivered. The status of an individual employee can also be queried by passing on selection criteria.

**Request**

```
<Request typeId="10036">
    <Personal id="100" firstName="Hans" lastName="Gruber"/>
</Request>
```

**Attributes <Personnel>**

attribute	Meaning/Format
<i>id</i>	Optional: number/account of the employee (string)
<i>firstName</i>	Optional: First name (string)
<i>lastName</i>	Optional: last name (string)

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**LogoTronic Rapida XML protocol**BAVARIA  
DIGITAL  
TECHNIK BDT**Response**

```
<Response returnCode="5" typeId="10036">
    <Personal firstName="Robert" id="2000" internalId="1" job="3" lastName="Baratheon"/>
    <Personal firstName="Geoffrey" id="1000" internalId="2" job="2" lastName="Baratheon"/>
    <Personal firstName="Net" id="3000" internalId="3" job="3" lastName="Stark" loginAs="3" loginTime="1366184738"
        loginWorkplaceId="2" pause="0"/>
    <Personal firstName="Robert" id="4000" internalId="5" job="1" lastName="Stark">
        <JPEGData><![CDATA[.../9j/4AAQSkZJRgABAgAAAQABAD/2wBDAgGBg.....]>
    </Personal>
    <Personal firstName="Thomas" id="5000" job="2" lastName="Meier"/>
</Response>
```

**Attributes <Personnel>**

attribute	Meaning/Format
<i>internalId</i>	Employee database ID (Long)
<i>id</i>	Employee number/account (string)
<i>firstName</i>	Optional: First name (string)
<i>lastName</i>	Optional: last name (string)
<i>job</i>	Highest possible employee activity 1 = helper 2 = printer 3 = machine operator 4 = shift leader 5 = shift leader AND machine operator
<i>password</i>	Optional: SHA hash of the employee's password, which should be requested when logging in and out! (string)
<i>loginAs</i>	Optional: The employee is currently logged in as this job (see <i>job</i> ) (only if an employee is logged in)
<i>loginTime</i>	Optional: Time of login (integer, seconds UNIX time) (only if an employee is logged in)
<i>loginWorkplaceId</i>	Optional: WorkplaceId of the machine where the employee is logged in (Long, only if an employee is logged in)
<i>Break</i>	0 = Not on break 1 = On break not available = no employee logged in

**Element <JPEGData> under <Personal> if available**

CDATA	Meaning/Format
-	Base64 encoded JPEG image of employee (avatar)

*returnCode="x"*: Number of employees found and authorized

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**LogoTronic Rapida XML protocol**BAVARIA  
DIGITAL  
TECHNIK BDT**2.4.6 XML CreateOrChangePersonnel (10038)**

Request to create or change machine operating personnel

**Request**

```
<Request typeId="10038">
    <Personal internalId="7" id="100" firstName="Hans" lastName="Gruber" password="XXX" />
</Request>
```

**Attributes <Personnel>**

attribute	Meaning/Format
<i>internalId</i>	Optional: Immutable database ID of the employee (Long). If this is not specified, a new employee will be created.
<i>id</i>	Optional: Employee number/account (string). If this is specified then <i>password</i> MUST also be specified.
<i>firstName</i>	Optional: First name (string)
<i>lastName</i>	Optional: last name (string)
<i>job</i>	Optional: Highest possible employee activity 1 = helper 2 = printer 3 = machine operator 4 = shift leader 5 = shift leader AND machine operator
<i>password</i>	Optional: SHA hash of the employee's password (string)

Either *id* or *internalId* must be specified.**Response**

```
<Response typeId="10036" returnCode="0" errorReason="IllegalPassword" />
```

1.20.0

**LogoTronic Rapida XML protocol**BAVARIA  
DIGITAL  
TECHNIK BDT**2.4.7 XML UserEvents (10037)**

Request to query the available custom events.

**Request**

```
<Request typeId="10037">
    <UserEvents languageId="1" />
</Request>
```

**Attributes <UserEvents>**

attribute	Meaning/Format
<i>languageId</i>	Optional: Rapida Windows language ID, 0=English, 1=German, 2=French, 3=Italian, 4=Hungarian, 5=Spanish, 6=Swedish, 7=Danish, ...

**Response**

```
<Response typeId="10037" returnCode="1">
    <EventGroup name="Ungrouped">
        <UserEvent no="1000" name="Waiting for customer" type="1" machineTime="19922944"
            machineTimeName="Setup time" sendPolicy="0" sendPolicy2="0" blockingPolicy="0" interruptRun="0"
            speedReduction="0" />
        <UserEvent...>
    </EventGroup>
    <EventGroup name="...">
        ...
    </EventGroup>
</Response>
```

**Attributes <EventGroup>**

attribute	Meaning/Format
<i>Surname</i>	Name of the group (string, language independent)

1.20.0

**LogoTronic Rapida XML protocol**BAVARIA  
DIGITAL  
TECHNIK BDT**Attributes <UserEvent>**

attribute	Meaning/Format
<i>no</i>	Number of the free message (string, usually numeric)
<i>Surname</i>	Text of the free message (string, language-specific)
<i>type.type</i>	<p><b>0</b> = event  <b>1</b> = period  <b>2</b> = consumption (currently not consistently supported)</p>
<i>machineTime</i>	<p>Machine time (only if available):</p> <p>Setup time = 0x1100 0000  Production time = 0x1200 0000  Other production time = 0x1300 0000  Help time = 0x2000 0000  Technical help time 0x2100 0000  = workplace conditions Auxiliary 0x2200 0000  time = Organizational auxiliary time = 0x2300 0000  Downtime = 0x4000 0000  Technical downtime = 0x4100 0000  Personal reference Downtime = 0x4200 0000  Downtime = 0x4300 0000  Switched off time = 0x4400 0000  Indefinite time = 0x8000 0000</p>
<i>machineTimeName</i>	Optional: Machine time name (to <i>machineTime</i> , String, only if available)
<i>sendPolicy</i>	The possibility of triggering the message is: <p><b>0</b> = With and without operation  <b>1</b> = Only with ongoing operation  <b>2</b> = Only without a running operation</p>
<i>sendPolicy2</i>	The possibility of triggering the message is: <p><b>0</b> or not present = During production and outside  <b>1</b> = Only during production  <b>2</b> = Only outside of production</p>
<i>blockingPolicy</i>	The message can be configured so that it is not removed even during program changes: <p><b>0</b> = Message does not block other programs  <b>1</b> = Message blocked and remains</p>
<i>interruptRun</i>	Triggering this message: <p><b>0</b> or not present = Leaves an operation in progress  <b>1</b> = Interrupts an ongoing operation</p>
<i>speedReduction</i>	Classification of the message: <p><b>0</b> or not present = Normal custom message  <b>1</b> = Message can be used to reduce the  Machine speed to be carried out by the user</p>
<i>pressCall</i>	The sending of press calls can be configured: <p><b>0</b> or not available = No PressCall is sent  <b>1</b> = When this email occurs, a press call should be sent to Koenig &amp; Bauer.</p>

*returnCode="x"*: Number of user-defined messages

1.20.0

**LogoTronic Rapida XML protocol**BAVARIA  
DIGITAL  
TECHNIK **BDT****2.4.8 XML AssistantTasks (10030)**

Request to query the tasks available for the helpers.

**Request**

```
<Request typeId="10030">
    <AssistantTasks languageId="1" />
</Request>
```

**Attributes <AssistantTasks>**

attribute	Meaning/Format
<i>languageId</i>	Optional: Rapida Windows language ID, 0=English, 1=German, 2=French, 3=Italian, 4=Hungarian, 5=Spanish, 6=Swedish, 7=Danish, ...

**Response**

```
<Response typeId="10030" returnCode="1">
    <TaskGroup no="5" name="Helpers">
        <AssistantTask no="10" text="Make coffee" priority="1" />
        <AssistantTask no="18" text="Get new paper" priority="7" />
    </TaskGroup>
    <TaskGroup no="7" name="Workshop">
        ...
    </TaskGroup>
</Response>
```

**Attributes <TaskGroup>**

attribute	Meaning/Format
<i>no</i>	Group number (integer)
<i>Surname</i>	Name of the group (string, language specific)

**Attributes <AssistantTask>**

attribute	Meaning/Format
<i>no</i>	Task number (integer)
<i>text</i>	Text of the task (string, language-specific)
<i>priority</i>	Priority of the task (integer, 1=lowest, 10=highest)

1.20.0

**LogoTronic Rapida XML protocol**BAVARIA  
DIGITAL  
TECHNIK BDT**2.4.9 XML PalletForms (10040)**

**Obsolete:** Request to load the pallet slip form list (deposited by the customer) from the LogoTronic database to the control center.

Note: This request has probably never delivered any meaningful results and has never been used meaningfully.

**Request**

```
<Request typeId="10040"/>
```

**Response**

```
<Response typeId="10040" returnCode="4">
    <PalletForm id="Form4711" description="Pallet slip for customer XY"/>
    <PalletForm id="Form0815" description="Stacking card form for special productions"/>
    ...
</Response>
```

**Attributes <PalletForm>**

Attribute	Meaning/Format
<i>id</i>	Identifier of the form (string)
<i>description</i>	Readable name for the form template (string)

*returnCode="x"*: Number of form templates

1.20.0

**LogoTronic Rapida XML protocol**BAVARIA  
DIGITAL  
TECHNIK **BDT****2.4.10 XML PalletStates (10041)**

Request to load the pallet stack states (defined by the customer) from the LogoTronic database to the control center.

**Request**

```
<Request typeld="10041">
    <PalletStates languageld="1" />
</Request>
```

**Attributes <PalletStates>**

attribute	Meaning/Format
<i>languageld</i>	Optional: Rapida Windows language ID, 0=English, 1=German, 2=French, 3=Italian, 4=Hungarian, 5=Spanish, 6=Swedish, 7=Danish, ...

**Response**

```
<Response typeld="10041" returnCode="4">
    <PalletState id="345234" nr="0" description="OK"/>
    <PalletState id="346342" nr="1" description="Contaminated"/>
    ...
</Response>
```

**Attributes <PalletState>**

Attribute	Meaning/Format
<i>id</i>	Unique ID of stack state (Long)
<i>No</i>	Unique stack state number (string, language independent)
<i>Surname</i>	Readable label for the stack state (string, language specific)

*returnCode="x"*: Number of stack states defined

*returnCode="-1"*: Internal error in processing

1.20.0

**LogoTronic Rapida XML protocol**BAVARIA  
DIGITAL  
TECHNIK BDT**2.4.11 XML DeliveryAddresses (10101)**

Request to load the delivery address list from the LogoTronic database to the control center.

**Request**

```
<Request typeId="10101"/>
```

**Response**

```
<Response typeId="10101" returnCode="3">
    <DeliveryAddress nr="Lager Süd"> Johann-Goethe-Str. 47 /n 87435 Kempten </DeliveryAddress>
    ...
</Response>
```

**Attributes <DeliveryAddress>**

attribute	Meaning/Format
No	Name of the supplier or recipient (string)

*returnCode="x"*: Number of delivery addresses

1.20.0

**LogoTronic Rapida XML protocol**BAVARIA  
DIGITAL  
TECHNIK BDT**2.4.12 XML MachineShifts (10111)**

Request to query the assigned shift scheme for this machine.

**Request**

&lt;Request typeld="10111"/&gt;

**Response**

```
<Response typeld="10111" returnCode="1" shiftCount="2">
  <MachineShifts>
    <!--Calendar.MONDAY -->
    <ShiftDay value="2">
      <Shift shiftNo="1" startDay="1" startTime = "23:00" endTime="09:00"/>
      <Shift shiftNo="2" startDay="2" startTime = "09:00" endTime="19:00"/>
    </ShiftDay>
    ...
    <!--Calendar.SUNDAY -->
    <ShiftDay value="1">
      <Shift shiftNo="1" startDay="7" startTime = "23:00" endTime="09:00"/>
      <Shift shiftNo="2" startDay="1" startTime = "09:00" endTime="19:00"/>
    </ShiftDay>
  </ShiftDays>
</Response>
```

**Attributes <Response>**

<i>shiftCount</i>	Meaning/Format
attribute	Maximum number of shifts per shift day (integer)

**Attributes <ShiftDay>**

attribute	Meaning/Format
<i>value</i>	Weekday of the shift day, 1=Sunday, 2=Monday, ..., 7=Saturday

**Attributes <Shift>**

attribute	Meaning/Format
<i>shiftNo</i>	Shift number (integer)
<i>startTime</i>	Time shift start (format: HH:mm)
<i>endTime</i>	Time end of shift (format: HH:mm)
<i>startDay</i>	Day of the week when the shift begins, 1=Sunday, 2=Monday, ..., 7=Saturday

1.20.0

**LogoTronic Rapida XML protocol**BAVARIA  
DIGITAL  
TECHNIK BDT

Examples of responses:

This machine has a shift pattern with three shifts. In this case, the first shift always begins the day before. On Saturday only the first shift works. On Sunday the machine is not occupied by any shift.

```
<Response returnCode="1" shiftCount="3" typeId="10111">
  <MachineShifts>
    <ShiftDay value="2">
      <Shift endTime="06:00" shiftNo="1" startDay="1" startTime="22:00" />
      <Shift endTime="14:00" shiftNo="2" startDay="2" startTime="06:00" />
      <Shift endTime="20:00" shiftNo="3" startDay="2" startTime="16:00" />
    </ShiftDay>
    <ShiftDay value="3">
      <Shift endTime="06:00" shiftNo="1" startDay="2" startTime="22:00" />
      <Shift endTime="14:00" shiftNo="2" startDay="3" startTime="06:00" />
      <Shift endTime="20:00" shiftNo="3" startDay="3" startTime="16:00" />
    </ShiftDay>
    <ShiftDay value="4">
      <Shift endTime="06:00" shiftNo="1" startDay="3" startTime="22:00" />
      <Shift endTime="14:00" shiftNo="2" startDay="4" startTime="06:00" />
      <Shift endTime="20:00" shiftNo="3" startDay="4" startTime="16:00" />
    </ShiftDay>
    <ShiftDay value="5">
      <Shift endTime="06:00" shiftNo="1" startDay="4" startTime="22:00" />
      <Shift endTime="14:00" shiftNo="2" startDay="5" startTime="06:00" />
      <Shift endTime="22:00" shiftNo="3" startDay="5" startTime="16:00" />
    </ShiftDay>
    <ShiftDay value="6">
      <Shift endTime="06:00" shiftNo="1" startDay="5" startTime="22:00" />
      <Shift endTime="14:00" shiftNo="2" startDay="6" startTime="06:00" />
      <Shift endTime="20:00" shiftNo="3" startDay="6" startTime="16:00" />
    </ShiftDay>
    <ShiftDay value="7">
      <Shift endTime="14:00" shiftNo="2" startDay="7" startTime="08:00" />
    </ShiftDay>
  </MachineShifts>
</Response>
```

There is no shift pattern stored on the machine in this response.

```
<Response returnCode="0" shiftCount="0" typeId="10111" />
```

1.20.0

**LogoTronic Rapida XML protocol**BAVARIA  
DIGITAL  
TECHNIK BDT**2.4.13 XML Customers (10121)**

Request to query the LogoTronic customer list.

**Request**

```
<Request typeId="10121"/>
```

**Response**

```
<Response returnCode="1" typeId="10121">
  <Customer address="33 boulevard Voltaire, PARIS 75011, FRANCE" contact="Denis GEFFRAULT," email="" fax=""
    name="A + B" nr="A+B" phone="" />
  <Customer address="" contact="Gyllensand, Charlotte" email="" fax="08-4535470" name="Kombilotteriet" nr="A-LOTTERIE"
    phone="08-4535420" />
  <Customer address="" contact="Kaufmann" email="kauf@mich.com" fax="-2" name="Complex customer" nr="A1000_1"
    phone="-1" />
</Response>
```

**Attributes <Customer>**

attribute	Meaning/Format
<i>No</i>	Customer number (string, language independent)
<i>Surname</i>	Customer name (string, language specific)
<i>contact</i>	Contact details (string)
<i>fax</i>	Fax number (string)
<i>phone</i>	Phone number (string)
<i>email</i>	Email address (string)
<i>address</i>	Address (string)

1.20.0

**LogoTronic Rapida XML protocol**BAVARIA  
DIGITAL  
TECHNIK **BDT****2.4.14 XML AniloxRollers (12600)**

Request to list all existing anilox roller and sleeve types except the standard anilox roller. This cannot be selected manually. It is only used if nothing is selected. Its value is 1 and can be changed using the navigator.

**Request**

```
<Request typeId="12600">
</Request>
```

**Response**

```
<Response typeId="12600" returnCode="1">
    <AniloxRoller name="a1" drainVolume="10" engraving="HIT" />
    <AniloxRoller name="b2" drainVolume="0.5" machineType="RA105"/>
    ...
</Response>
```

**Attributes *<AniloxRoller>***

attribute	Meaning/Format
<i>Surname</i>	Name/number/type of anilox roller (string)
<i>drainVolume</i>	Scoop volume in cm <sup>3</sup> /m <sup>2</sup> (double)
<i>screenRuling</i>	Optional: grid width in L/cm (double)
<i>engraving</i>	Optional: Engraving (Hexagonal, HIT, ART, Stepped Hex, ...) (String)
<i>machineType</i>	Optional: Machine type (RA106, ...) (String)

1.20.0

**LogoTronic Rapida XML protocol**BAVARIA  
DIGITAL  
TECHNIK **BDT****2.4.15 XML PaperClasses (10130)**

Request to query the defined paper classes.

**Request**

```
<Request typeId="10130">
    <PaperClasses languageId="0" />
</Request>
```

**Attributes <PaperClasses>**

attribute	Meaning/Format
<i>languageId</i>	Optional: Rapida Windows language ID, 0=English, 1=German, 2=French, 3=Italian, 4=Hungarian, 5=Spanish, 6=Swedish, 7=Danish, ...

**Response**

```
<Response typeId="10130" returnCode="1">
    <PaperClass id="2" name="coated, gloss" factor="1.0"/>
    <PaperClass id="4" name="matte coated" factor="0.8"/>
    ...
</Response>
```

**Attributes <PaperClass>**

attribute	Meaning/Format
<i>id</i>	Paper Class Unique ID (Long)
<i>Surname</i>	Paper class name (string, language specific)
<i>factor</i>	Fission factor (double)

1.20.0

**LogoTronic Rapida XML protocol**BAVARIA  
DIGITAL  
TECHNIK BDT**2.4.16 XML Papers (10132)**

Request to query the defined paper types.

**Request**

```
<Request typeld="10132" onlyDifferences="false" />
```

**Attributes <Request>**

attribute	Meaning/Format
<i>onlyDifferences</i>	Optional: If "true" = only differences from the last response should be sent.

**Response**

```
<Response typeld="10132" returnCode="1" onlyDifferences="false">
    <Paper id="68" no="10100176" name="ProfiGloss" width="880.0" height="630.0" grammage="150.0" volume="0.71"
        paperClassFront="3" paperClassBack="3" grain="UNKNOWN" />
    <Paper id="166" no="20200458" name="My Brite matt" width="1310.0" height="1240.0" grammage="80.0" volume="1.0"
        paperClassFront="5" paperClassBack="5" grain="SB" />
    ...
</Response>
```

**Attributes <Response>**

	Meaning/Format
<i>onlyDifferences</i> attribute	If "true" only papers that have changed since the last response will be sent. This is only the case if the request was requested and no paper has been deleted in the meantime.

**Attributes <Paper>**

attribute	Meaning/Format
<i>id</i>	Unique ID of paper type (Long)
<i>no</i>	Unique paper number (string)
<i>Surname</i>	Paper type name (string)
<i>width</i>	Paper width in mm (double)
<i>height</i>	Paper height/length in mm (double)
<i>grammage</i>	Weight per unit area in g/m2 (double)
<i>volume</i>	Volume factor (mm3 /mg) (Double)
<i>paperClassFront</i>	Paper Class ID Front (Long)
<i>paperClassBack</i>	Paper Class ID Back (Long)
<i>grain</i>	Running direction ("SB", "BB" or "UNKNOWN")

1.20.0

**LogoTronic Rapida XML protocol**BAVARIA  
DIGITAL  
TECHNIK BDT**2.4.17 XML CreateOrChangePaper (10133)**

Request to create a new paper type or to change an existing paper type. The unique identifier of a paper type is the *id attribute*.

**Request**

```
<Request typeId="10133">
  <Paper id="68" no="20200746" name="ProfiGloss" width="880" height="630" grammage="150" volume="0.71"
    paperClassFront="3" paperClassBack="3"/>
</Request>
```

**Attributes <Paper>**

Attribute	Meaning/Format
<i>id</i>	Optional: Unique ID of the paper type; to select an existing paper instead of no (long)
<i>no</i>	Optional: Unique paper number; to select an existing paper or define a new paper (string)
<i>Surname</i>	Optional: name of the paper type (string)
<i>width</i>	Optional: paper width in mm (double)
<i>height</i>	Optional: paper height/length in mm (double)
<i>grammage</i>	Optional: weight per unit area in g/m2 (double)
<i>volume</i>	Optional: Volume factor (mm3 /mg) (Double)
<i>paperClassFront</i>	Optional: Paper Class ID Front (Long)
<i>paperClassBack</i>	Optional: Paper Class ID Back (Long)
<i>grain</i>	Optional: Running direction (string: "SB", "BB" or other if unknown)

Either *id* or *no* must be specified.

**Response**

```
<Response typeId="10133" returnCode="1">
</Response>
```

*returnCode="1"*: OK

*returnCode="0"*: Missing or incorrect attribute values

*returnCode="-1"*: Internal error in processing

*returnCode="x"*: Internal database error code

1.20.0

**LogoTronic Rapida XML protocol**BAVARIA  
DIGITAL  
TECHNIK BDT**2.4.18 XML PrintStandards (10134)**

Request to query the defined printing standards.

**Request**

```
<Request typeId="10134">
    <PrintStandards languageId="1" />
</Request>
```

**Attributes *<PrintStandards>***

attribute	Meaning/Format
<i>languageId</i>	Optional: Rapida Windows language ID, 0=English, 1=German, 2=French, 3=Italian, 4=Hungarian, 5=Spanish, 6=Swedish, 7=Danish, ...

**Response**

```
<Response typeId="10134" returnCode="1">
    <PrintStandard id="11759501" nr="ARD1" name="Workprint"/>
    <PrintStandard id="11759503" nr="ARD2" name="PSOXX"/>
    ...
</Response>
```

**Attributes *<PrintStandard>***

attribute	Meaning/Format
<i>id</i>	Unique ID of the standard (Long)
<i>No</i>	Unique number of the standard (string, language independent)
<i>Surname</i>	Name of standard (string, language specific)

1.20.0

**LogoTronic Rapida XML protocol**BAVARIA  
DIGITAL  
TECHNIK BDT**2.4.19 XML CreateOrChangePrintStandard (10135)**

Request to create a new printing standard or to change an existing printing standard in the LogoTronic color database. The unique identifier of a printing standard is the *id* attribute.

**Request**

```
<Request typeId="10135">
    <PrintStandard languageId="1" id="11759501" name="Factory printing"/>
</Request>
```

**Attributes <PrintStandard>**

attribute	Meaning/Format
<i>languageId</i>	Optional: Rapida Windows language ID, 0=English, 1=German, 2=French, 3=Italian, 4=Hungarian, 5=Spanish, 6=Swedish, 7=Danish, ...
<i>id</i>	Optional: Unique ID of the print standard; only for selecting an existing print standard (Long)
<i>No</i>	Optional: Unique number of the printing standard; in addition to <i>id</i> or if print standard does not exist (string, language independent)
<i>Surname</i>	Optional: name of the standard (string, language-specific)

**Response**

```
<Response returnCode="1" typeId="10135">
</Response>
```

*returnCode="1"*: OK

*returnCode="0"*: Missing or incorrect attribute values

*returnCode="-1"*: Internal error in processing

*returnCode="x"*: Internal database error code

1.20.0

**LogoTronic Rapida XML protocol**BAVARIA  
DIGITAL  
TECHNIK **BDT****2.4.20 XML ColorSetpointRecord (10136)**

Request to query a color target value set created in LogoTronic. The unique identifier of a color target value set is the triple *inkCode/printStandard/paperClass*.

**Request**

```
<Request typeld="10136">
    <ColorStandard inkCode="3" printStandard="11759501" paperClass="1" force="0"/>
</Request>
```

**Attributes <ColorStandard>**

attribute	Meaning/Format
<i>inkCode</i>	Color code of the printing ink (integer, not 0 or empty)
<i>printStandard</i>	Print standard ID (Long, not 0 or empty)
<i>paperClass</i>	Paper class ID (Long, not 0 or empty)
<i>force</i>	Optional: If 1 then the color setpoint set is created if not available, values are then adopted from the color as far as possible

**Response**

```
<Response returnCode="1" typeld="10136">
    <ColorStandard id="12742695" inkCode="3" printStandard="11759501" paperClass="1" red="196" green="216" blue="226"
        cieL="75.17" cieA="-6.73" cieB="-24.79" illuminant="D50" observer="2" fingerprintL="00AAA5B0080"
        fingerprintD="00AAA5B0080" inkDensity="0.23" cDensity="0.23" mDensity="0.23" yDensity="0.23" bDensity="0.23"
        colorFilter="0" ductorCycle="1" coatingThickness="5.6" densityStatus="A"/>
</Response>
```

**Attributes <ColorStandard>**

Attribute	Meaning/Format
<i>id</i>	ID of the color target value set (Long)
<i>red, green, blue</i>	RGB values of the (seen) color (each integer: 0..255)
<i>cieL, cieA, cieB</i>	CIE-LAB values of the (seen) color (each double)
<i>illuminant</i>	White reference for CIE-LAB values (string, usually "D50" or "D65")
<i>observer</i>	Observer angle for CIE-LAB values (integer, usually 2 or 10)
<i>fingerprintL</i>	Reference information about CIE-LAB values (11-digit string)
<i>inkDensity, cDensity,</i> <i>mDensity, yDensity,</i> <i>kDensity</i>	Color densities (double each)
<i>fingerprintD</i>	Reference information about density values (11-digit string)
<i>colorFilter</i>	Color filter (integer, usually between 1 and 4)
<i>ductorCycle</i>	Lifter cycle (integer)
<i>coatingThickness</i>	Paint layer thickness in µm (double)
<i>densityStatus</i>	Density status from CxF (string, e.g. "DIN", "A", "E", ...)

1.20.0

**LogoTronic Rapida XML protocol**BAVARIA  
DIGITAL  
TECHNIK BDT**2.4.21 XML CreateOrChangeColorSetpointRecord (10137)**

Request to create a new color target value set or to change an existing color target value set in the LogoTronic color database. The unique identifier of a color target value set is the triple *inkCode/printStandard/paperClass*. When creating a new color target value set, unspecified values are adopted from the color as far as possible. With the 16 standard color setpoint sets specified by Koenig & Bauer, red, green, blue, cieL, cieA, cieB, illuminant, observer and fingerprintL cannot be changed; attempts to change them are ignored.

**Request**

```
<Request typeId="10137">
    <ColorStandard inkCode="3" printStandard="11759501" paperClass="1" green="17" fingerprintL="00AAA5B0080" />
</Request>
```

**Attributes <ColorStandard>**

attribute	Meaning/Format
<i>inkCode</i>	Color code of the printing ink (integer, not 0 or empty)
<i>printStandard</i>	Print standard ID (Long, not 0 or empty)
<i>paperClass</i>	Paper class ID (Long, not 0 or empty)
<i>red, green, blue</i>	Optional: RGB values of the (seen) color (each integer: 0..255)
<i>cieL, cieA, cieB</i>	Optional: CIE-LAB values of the (seen) color (each double)
<i>illuminant</i>	Optional: White reference for CIE-LAB values (string, usually "D50" or "D65")
<i>observer</i>	Optional: observer angle for CIE-LAB values (integer, usually 2 or 10)
<i>fingerprintL</i>	Optional: Reference information about CIE-LAB values (11-digit string)
<i>cDensity, mDensity, yDensity, kDensity</i>	Optional: color densities (double each)
<i>fingerprintD</i>	Optional: Reference information about density values (11-digit string)
<i>colorFilter</i>	Optional: Color filter (integer, usually between 1 and 4)
<i>ductorCycle</i>	Optional: lifter cycle (integer)
<i>coatingThickness</i>	Optional: paint layer thickness in µm (double)
<i>densityStatus</i>	Optional: Density status from CxF (string, e.g. "DIN", "A", "E", ...)

**Response**

```
<Response returnCode="1" typeId="10137">
</Response>
```

*returnCode="1"*: OK*returnCode="0"*: Missing or incorrect attribute values*returnCode="-1"*: Internal error in processing*returnCode="x"*: Internal database error code

1.20.0

**LogoTronic Rapida XML protocol**BAVARIA  
DIGITAL  
TECHNIK **BDT****2.5 Preset or repeat data****2.5.1 XML ReadRepetitionData (10049)**

Request to load:

1. Partial order data (**KBA\_POR<id>**, e.g. **KBA\_POR01**)
2. Process information (**KBA\_INFO**)
3. Data availability information (**KBA\_STATE**)
4. Presetting dataINI (**KBA\_PRE01**)
5. Preset data XML (**KBA\_PRE\***, recommended **KBA\_PRE02**)
6. Repeat dataINI (**KBA\_SET\***, recommended **KBA\_SET01**)
7. Repeat data XML (**KBA\_DAT\***, recommended **KBA\_DAT01**)
8. Other data on the operation (**<id>**, e.g. **KBA\_XXX01**)

**Request**

```
<Request typeId="10049">
  <Job orderNo="x" prodNo="y" jobNo="z"/>
  <ReadRepetitionData identifier="KBA_PRE01"/>
</Request>
```

**Attributes <Job>**

Attribute	Meaning/Format
<b>orderNo</b>	Order number (string)
<b>prodNo</b>	Partial order number (string)
<b>jobNo</b>	Operation number (except for partial order data, string)

**Attributes <ReadRepetitionData>**

attribute	Meaning/Format
<b>identifier</b>	Type of data (string, see above in green)

1.20.0

**LogoTronic Rapida XML protocol**BAVARIA  
DIGITAL  
TECHNIK BDT**Response for data availability information**

```
<Response typeId="10049" returnCode="1">
    <ReadRepetitionData repro="0" preset="1" workplaceName="RA105 SW4"/>
</Response>
```

**Attributes <ReadRepetitionData>**

attribute	Meaning/Format
<i>preset</i>	1 if preview image was assigned, otherwise 0
<i>repro</i>	1 if reproduction data is available, otherwise 0
<i>workplaceName</i>	Optional: Machine name of the machine from which the repro data was saved (String, only if reproduction data is available)

**Response for all other data**

```
<Response typeId="10049" returnCode="1">
    <ReadRepetitionData>
        Raw data... (without line <?xml version="1.0" encoding="UTF-8"?>)
    </ReadRepetitionData>
</Response>
```

1.20.0

**LogoTronic Rapida XML protocol**BAVARIA  
DIGITAL  
TECHNIK BDT**2.5.2 XML SaveRepetitionData (10050)**

Request to save repeat data behind an operation or partial order. This request can also be used when connecting the machine to a CIPLinkX system via a gateway.

**Request**

```
<Request typId="10050">
    <Job orderNo="x" prodNo="y" jobNo="z"/>
    <SaveRepetitionData identifier="KBA_PRE01">
        Raw data...
    </SaveRepetitionData>
</Request>
```

**Attributes <Job>**

attribute	Meaning/Format
<i>orderNo</i>	Order number (string)
<i>prodNo</i>	Partial order number (string)
<i>jobNo</i>	Operation number (except for partial order data, string)

**Attributes <SaveRepetitionData>**

Attribute	Meaning/Format
<i>identifier</i>	Type of data (string, see XML-ReadRepetitionData above in green)

For repeat data (**KBA\_SET\*** and **KBA\_DAT\***) always with **KBA\_SET01** instead of the passed identifier saved.

**Response**

```
<Response typId="10050" returnCode="8512"/>
```

1.20.0

**LogoTronic Rapida XML protocol**BAVARIA  
DIGITAL  
TECHNIK BDT

## 2.6 Device data

### 2.6.1 XML SelectAniloxRoller (12500)

Request to select an anilox roller for a specific coating unit.

#### Request

```
<Request typeId="12500">
    <SheetUnit number="5" />
    <AniloxRoller name="a1" uin="546-4686" />
    <AniloxRollerInMagazine1 uin="487-5468" />
</Request>
```

#### Attributes <SheetUnit>

<i>Number</i>	Meaning/Format
attribute	Substructure number (integer)

#### Attributes <AniloxRoller>

attribute	Meaning/Format
<i>Surname</i>	Name/number/type of the active anilox roller in the coating unit (string)
<i>uin</i>	Optional: ID/UIN of the active anilox roller in the drive (string)

#### Attributes <AniloxRollerInMagazine1>, <AniloxRollerInMagazine2>

attribute	Meaning/Format
<i>uin</i>	Optional: ID/UIN of an anilox roller in the magazine (string)

The elements <AniloxRollerInMagazine1> and <AniloxRollerInMagazine2> are each optional.

#### Response

```
<Response typeId="12500" returnCode="1"/>
```

*returnCode="1"*: OK

*returnCode="0"*: Incorrect or non-existent information or errors in processing

*returnCode="-2"*: Unknown UIN

1.20.0

**LogoTronic Rapida XML protocol**BAVARIA  
DIGITAL  
TECHNIK BDT**2.6.1 XML AniloxRollerInstances (12501)**

Request to list all anilox roll and sleeve copies.

**Request**

```
<Request typeId="12501">
</Request>
```

**Response**

```
<Response typeId="12501" returnCode="1">
  <AniloxRoller name="a1" uin="5467-5456-84" currMachineNr="604025" currUnitNr="5" currInMagazine="false" />
  <AniloxRoller name="b2" uin="aiae55+6:78" sheetCount="2513" comment="Edge torn." />
  ...
</Response>
```

**Attributes <AniloxRoller>**

attribute	Meaning/Format
<i>Surname</i>	Name/number/type of anilox roller (string)
<i>uin</i>	ID/UIN of the anilox roller (string)
<i>latestCleaning</i>	Optional: Last Clean (Long, milliseconds UNIX time)
<i>sheetCount</i>	Previous mileage in arcs (long)
<i>currMachineNo</i>	Optional: Current location: Machine number (integer, only if currently in the machine)
<i>currUnitNo</i>	Optional: Current location: substructure number (integer, only if currently in the machine)
<i>currInMagazine</i>	Optional: Currently in the magazine, not in the factory (Boolean, only if currently in the machine)
<i>comment</i>	Comment (e.g. <a href="#">damage</a> , <a href="#">order number</a> ) (string)

1.20.0

**LogoTronic Rapida XML protocol**BAVARIA  
DIGITAL  
TECHNIK BDT**2.6.2 XML PrepareMaterialExchange (10400)**

Request to request a blanket change.

**Request**

```
<Request typeId="10400" printUnit="4" />
```

**Attributes <Request>**

attribute	Meaning/Format
<i>printUnit</i>	Printing unit number (NOT substructure number) (integer)

**Response**

```
<Response typeId="10400" returnCode="2" uin="234534534253" orderNo="3423" prodNo="Sheet-1" jobNo="Front"/>
```

**Attributes <Response>**

attribute	Meaning/Format
<i>uin</i>	Unique ID of the blanket (Long)
<i>orderNo</i>	Optional: Order number for the first one provided by the app user for this blanket operation (string)
<i>prodNo</i>	Optional: Partial order number for the first operation intended by the app user for this blanket (string)
<i>jobNo</i>	Optional: Operation number for the first operation intended by the app user for this blanket (string)

*returnCode="1"*: OK, change possible without further confirmation

*returnCode="2"*: Warning: Blanket should already be discarded

*returnCode="3"*: Warning: Blanket is not authorized

*returnCode="4"*: Warning: Blanket is worn out (too many prints)

*returnCode="5"*: Warning: Rubber blanket is too old (wear date expired)

*returnCode="0"*: Please wait: Blanket change has not yet been activated via the ProductionApp  
(or activation on this machine was too long ago)

*returnCode="-1"*: Internal error in processing

*returnCode="-2"*: Incorrect or non-existent information or no data found

*returnCode="-3"*: Error: Data from the control center and ProductionApp do not match  
(different printing unit)

*returnCode="-4"*: Error: Blanket is already in use on another printing unit

1.20.0

**LogoTronic Rapida XML protocol**BAVARIA  
DIGITAL  
TECHNIK **BDT****2.6.3 XML PerformMaterialExchange (10401)**

Request to actually carry out a blanket change. This request should always only be made AFTER a successful **XML-PrepareMaterialExchange** request (10400).

**Request**

```
<Request typeId="10401" printUnit="4" />
```

**Attributes <Request>**

printUnit	Meaning/Format
attribute	Printing unit number (NOT substructure number) (integer)

**Response**

```
<Response typeId="10401" returnCode="1" />
```

1.20.0

**LogoTronic Rapida XML protocol**BAVARIA  
DIGITAL  
TECHNIK BDT**2.7 Maintenance data****2.7.1 XML MaintenanceParams (10300)**

Request to adjust the LogoTronic calculations for future maintenance to suit the machine.

**Request**

```
<Request typeId="10300">
  <MtcCalcParams daysPerWeek="123456" hoursPerDay="24" sheetsPerDay="250000" />
</Request>
```

**Attributes <MtcCalcParams>**

attribute	Meaning/Format
<i>daysPerWeek</i>	Optional: List of accepted days of the week (1=Monday, ..., 7=Sunday) (Default value: "12345" = Monday to Friday)
<i>hoursPerDay</i>	Optional: Assumed hours per day (integer, default value: 16)
<i>sheetsPerDay</i>	Optional: Accepted sheets per day (integer, default value: 200000)

**Response**

```
<Response typeId="10300" returnCode="1" />
```

1.20.0

## LogoTronic Rapida XML protocol

BAVARIA  
DIGITAL  
TECHNIK **BDT**

### 2.7.2 XML SetMaintenanceData (10310)

**PLANNED:** Request to send the maintenance data and voice data from the control center to the LogoTronic.

**IMPORTANT:** The control center is always the MASTER when it comes to data management and storage by Koenig & Bauer defined maintenance concerns.

The entire maintenance DB.xml is not transferred, but only the maintenance definitions (<U> for unit) and the associated actual maintenance (<S> for step). The structure and special features of MaintenanceDB.xml are described in a separate document.

In addition to the maintenance data, the content of the various language.xml files can also be transferred.

The entire content of the language.xml is used here. Several languages can also be strung together.

**ATTENTION:** This request must be implemented in the control center as <DoRequests>-capable.

#### Request (for maintenance data, all maintenance)

```
<Request typeId="10310" form="0" scope="0" >
  <U ID="811" IMP="1000" P="999999" TID1="811" DU="5" GS="15000000" IDU="" URL="webapp/e9b41d5fb8b34e38ae32f9b3bc12cf0c-1-xx-xx.html ">
    <S ST="1" D="10.07.2020" T="16.07.24" USER="" GS="82637" POH="652"/>
    <S ST="2" D="12.03.2021" T="04.11.51" USER="" GS="15083558" POH="4559"/>
    <S ST="1" D="07.05.2021" T="14.43.08" USER="Max Musterman" GS="19765835" POH="5564">No punch in operation</S>
  </U>
  <U ID="813" IMP="1000" P="999999" TID1="813" DU="5" GS="60000000" IDU="" URL="webapp/3ad1757269964df79e632a18ef3c593e-1-xx-xx.html ">
    <S ST="1" D="10.07.2020" T="16.07.24" USER="" GS="82637" POH="652"/>
  </U>
  <U ID="814" IMP="1000" P="999999" TID1="814" DU="10" GS="5000000" IDU="" URL="webapp/bf0a5fd7384d4e58b54b05860f2df2f4-22-xx-xx.html ">
    <S ST="1" D="10.07.2020" T="16.07.24" USER="" GS="82637" POH="652"/>
    <S ST="1" D="10.11.2020" T="00.02.01" USER="Huber Maier" GS="5406101" POH="2363"/>
    <S ST="2" D="15.01.2021" T="06.40.01" USER="" GS="10409199" POH="3500"/>
    <S ST="1" D="30.01.2021" T="00.26.43" USER="Cleaning Team Clean" GS="11546534" POH="3769"/>
    <S ST="2" D="30.03.2021" T="15.40.33" USER="" GS="16557206" POH="4887"/>
    <S ST="1" D="03.04.2021" T="00.35.02" USER="Cleaning Team Clean" GS="16867053" POH="4952"/>
    <S ST="2" D="07.06.2021" T="20.06.29" USER="" GS="21873756" POH="6017"/>
    <S ST="1" D="11.06.2021" T="22.39.32" USER="Cleaning Team Clean" GS="22428745" POH="6112"/>
    <S ST="2" D="04.08.2021" T="16.12.44" USER="" GS="26716646" POH="5995"/>
  </U>
  ... (further data)
</Request>
```

#### Request (for the maintenance dates, all maintenance but only the maintenance definitions since the sinceDate is in the distant future.)

```
<Request typeId="10310" form="0" scope="0" sinceDate="9223372036854775807">
  <U ID="811" IMP="1000" P="999999" TID1="811" DU="5" GS="15000000" IDU="" URL="webapp/e9b41d5fb8b34e38ae32f9b3bc12cf0c-1-xx-xx.html "></U>

  <U ID="813" IMP="1000" P="999999" TID1="813" DU="5" GS="60000000" IDU="" URL="webapp/3ad1757269964df79e632a18ef3c593e-1-xx-xx.html "></U>

  <U ID="814" IMP="1000" P="999999" TID1="814" DU="10" GS="5000000" IDU="" URL="webapp/bf0a5fd7384d4e58b54b05860f2df2f4-22-xx-xx.html "></U>

  ... (further data)
</Request>
```

1.20.0

**LogoTronic Rapida XML protocol**BAVARIA  
DIGITAL  
TECHNIK BDT

**Request (for the maintenance dates, only 2 specific maintenances with dates as of Sep 13, 2020 12:26:40 p.m.)**

```
<Request typeId="10310" form="0" scope="1" sinceDate="1600000000" >
  <U ID="811" IMP="1000" P="999999" TID1="811" DU="5" GS="15000000" IDU="" URL="webapp/e9b41d5fb8b34e38ae32f9b3bc12cf0c-1-xx-xx.html ">
    <S ST="2" D="12.03.2021" T="04.11.51" USER="" GS="15083558" POH="4559"/>
    <S ST="1" D="07.05.2021" T="14.43.08" USER="Max Musterman" GS="19765835" POH="5564">No punch in operation</S>
  </U>
  <U ID="814" IMP="1000" P="999999" TID1="814" DU="10" GS="5000000" IDU="" URL="webapp/bf0a5fd7384d4e58b54b05860f2df2f4-22-xx-xx.html ">
    <S ST="1" D="10.11.2020" T="00.02.01" USER="Huber Maier" GS="5406101" POH="2363"/>
    <S ST="2" D="15.01.2021" T="06.40.01" USER="" GS="10409199" POH="3500"/>
    <S ST="1" D="30.01.2021" T="00.26.43" USER="Cleaning Team Clean" GS="11546534" POH="3769"/>
    <S ST="2" D="30.03.2021" T="15.40.33" USER="" GS="16557206" POH="4887"/>
    <S ST="1" D="03.04.2021" T="00.35.02" USER="Cleaning Team Clean" GS="16867053" POH="4952"/>
    <S ST="2" D="07.06.2021" T="20.06.29" USER="" GS="21873756" POH="6017"/>
    <S ST="1" D="11.06.2021" T="22.39.32" USER="Cleaning Team Clean" GS="22428745" POH="6112"/>
    <S ST="2" D="04.08.2021" T="16.12.44" USER="" GS="26716646" POH="5995"/>
  </U>
</Request>
```

**Request (for the voice data)**

```
<Request typeId="10310" form="1" >
  <Maintenance language="de-de" Name="NR">
    <Text Name="811">Lubricate plate punch</Text>
    <Text Name="884">Lubricate the impression cylinder and transfer drum</Text>
    <Text Name="1073">Lubricate the gripper system of the impression cylinder</Text>
    <Text Name="1081">Lubricate the roller levers of the gripper shafts of the impression cylinder</Text>
    <Text Name="1073">Lubricate the transfer drum gripper system</Text>
    ...
  </Maintenance>
  <Maintenance language="it-it" Name="NR">
    <Text Name="811">Lubrificazione della perforatrice lastre</Text>
    <Text Name="884">Lubrificazione del cilindro di stampa e del tamburo di trasferimento</Text>
    <Text Name="1073">Lubrificazione del pinze system del cilindro di stampa</Text>
    <Text Name="1081">Lubrificazione delle leve a rotelle degli alberi portapinze del cilindro di stampa</Text>
    <Text Name="1073">Lubrificazione del sistema di pinze del tamburo di trasferimento</Text>
    ...
  </Maintenance>
</Request>
```

**Attributes <Request>**

attribute	Meaning/Format
<i>shape</i>	Optional: type of data (integer) 0 = Data from MaintenanceDB.xml 1 = Data from Language.xml If nothing is recorded, then always 0.
<i>scope.scope</i>	Optional: Restriction of data (integer) 0 = All data 1 = Only specific data that is of interest. If nothing is recorded, then always 0. Is currently only intended for the maintenanceDB.xml or the data in it. Is intended for the <U> tags and not for the <S> tags. (For this see attributes <i>sinceDate</i> .)  LogoTronic then knows whether it is all maintenance data or just all of it

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	<p>certain acts.</p> <p>When maintenance is completed or due, the control center does not need to transfer the entire maintenance DB.xml, but only the content of this one maintenance definition.</p> <p>However, it does not have to be just a single maintenance definition, but can also include several.</p> <p>This attribute is NOT intended to be used for the language.xml data. (integer)</p>
<i>sinceDate</i>	<p>Optional: Only data from and including a specific point in time. (Long, milliseconds UNIX time)</p> <p>If nothing is recorded, then always all existing data.</p> <p>It is currently only intended for the &lt;S&gt; tags for the data from the maintenance DB.xml, as quite a lot of data can accumulate here over the years and it is very old data</p> <p>does not necessarily have to be transferred.</p> <p>You could also just get the maintenance definitions by using a point in time in the future as <i>sinceDate</i>.</p> <p>This attribute is not intended to be used for the language.xml data.</p>
<i>override</i>	<p>Optional: Override flag (Boolean)</p> <p>true = Deletes and overwrites the data contained in the LogoTronic. (Boolean)</p> <p>If not recorded, then always false.</p> <p>Can be used for maintenance data and voice data. The corresponding data will all be deleted and replaced by the newly transmitted data.</p> <p>Can also be used in conjunction with the <i>scope</i> attributes.</p> <p>Any attribute <i>sinceDate</i> that may be set will not be taken into account if the attribute <i>override</i> is set to true . Basically ALL data is always deleted and overwritten.</p>

## Response

```
<Response typeld="10310" returnCode="1" />
```

**IMPORTANT:** Since processing the data here usually takes a little longer due to the amount of data, the return code is always "1" as soon as we receive something. Processing takes place in a separate thread so as not to slow down data communication.

## Requirements for DoRequest capability

The control center must be able to read the following attributes when interpreting the requests tag:

- typeld
- shape
- sinceDate
- override

A valid DoRequest must have at least the *typeld* attribute filled out. The rest results from the defined basic settings.

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The **scope** attribute is not taken into account here because it only indicates that not all maintenance definitions are transferred, but only selected ones. However, it cannot be defined here exactly which maintenance definitions are meant. With a DoRequest, LogoTronic can only query all maintenance definitions at once.

Only with the attribute *sinceDate* can LogoTronic indirectly control the number of <S> tags present in the maintenance definition.

The control center must of course fill out the data to be set itself.

1.20.0

**LogoTronic Rapida XML protocol**BAVARIA  
DIGITAL  
TECHNIK BDT**2.7.3 XML GetMaintenanceData (10320)**

**PLANNED:** Request for the control center to query the maintenance data from LogoTronic.

**IMPORTANT:** The control center is always the MASTER when it comes to data management and storage by Koenig & Bauer defined maintenance concerns.

The entire maintenance DB.xml is not transferred, but only the maintenance definitions (<U> for unit) and the associated actual maintenance (<S> for step). The structure and special features of MaintenanceDB.xml are described in a separate document.

**ATTENTION:** This request must be implemented in the control center as <DoRequests>-capable.

With this request, the control center can determine whether the LogoTronic is capable of transmitting maintenance data via the XML machine interface and whether data has already been transmitted.

**Request (for specific maintenance)**

```
<Request typeId="10320">
    <U id="811" />
    <U id="813" />
</Request>
```

**Request (for all maintenance)**

```
<Request typeId="10320" />
```

**Attributes <U>**

attribute	Meaning/Format
<i>id</i>	The Koenig & Bauer ID of the maintenance definition (integer)
<i>sinceDate</i>	Optional: Only data from and including a specific point in time. (Long, milliseconds UNIX time) If not set, then always all data. It is currently only intended for the <S> tags for the data from the maintenance DB.xml, as quite a lot of data can accumulate here over the years and it is very old data does not necessarily have to be transferred.

**Response**

```
<Response typeId="10320" returnCode="1">
    <U ID="811" IMP="1000" P="999999" TID1="811" DU="5" GS="15000000" IDU="" URL="webapp/e9b41d5fb8b34e38ae32f9b3bc12cf0c-1-xx-xx.html ">
        <S ST="1" D="10.07.2020" T="16.07.24" USER="" GS="82637" POH="652"/>
        <S ST="2" D="12.03.2021" T="04.11.51" USER="" GS="15083558" POH="4559"/>
        <S ST="1" D="07.05.2021" T="14.43.08" USER="Max Musterman" GS="19765835" POH="5564">No punch in operation</S>
    </U>
    <U ID="813" IMP="1000" P="999999" TID1="813" DU="5" GS="60000000" IDU="" URL="webapp/3ad1757269964df79e632a18ef3c593e-1-xx-xx.html ">
        <S ST="1" D="10.07.2020" T="16.07.24" USER="" GS="82637" POH="652"/>
    </U>
</Response>
```

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## Requirements for DoRequest capability

The control center must be able to read the following attributes when interpreting the request:

For the <Request> tag:

- typeId

For the tag <U>:

- id
- sinceDate

A valid DoRequest must have the *typeId* attribute filled in for the <Request> tag. If there are additional <U> tags, each of these <U> tags must have a completed *id* attribute . This *id* must be unique across all <U> tags. The attribute *sinceDate* is only optional.

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**LogoTronic Rapida XML protocol**BAVARIA  
DIGITAL  
TECHNIK **BDT****2.8 Header data exchange****2.8.1 XML OrderHeadDataExchange (11010)**

Request to save order header data behind an order.

**Request**

```
<Request typeId="11010">
    <Job orderNo="8755" orderName="Book"/>
    <Delivery amount="25000" date="1568110778200" />
    <Customer customerNo="652" />
</Request>
```

**Attributes <Job>**

attribute	Meaning/Format
<i>orderNo</i>	Order number (string)
<i>orderName</i>	Optional: Job name (string, if empty or not present the name remains unchanged)

**Attributes <Delivery>**

attribute	Meaning/Format
<i>amount</i>	Optional: delivery quantity (integer)
<i>date</i>	Optional: Delivery date (Long, milliseconds UNIX time)

**Attributes <Customer>**

attribute	Meaning/Format
<i>customerNo</i>	Optional: customer number (string)

**Response**

```
<Response typeId="11010" returnCode="1"/>
```

1.20.0

**LogoTronic Rapida XML protocol**BAVARIA  
DIGITAL  
TECHNIK BDT**2.8.2 XML PartOrderHeadDataExchange (11020)**

Request to save partial order header data behind a partial order.

**Request**

```
<Request typeId="11020">
    <Job orderNo="12345" partOrderNo="4321" partOrderName="Partial order" printStandardFront="11759501"
        printStandardBack="11759501"/>
    <Delivery amount="25000" date="1568110778200" />
    <Paper paperNo="5555" printWidth="1620" printHeight="1120"/>
</Request>
```

**Attributes <Job>**

Attribute	Meaning/Format
<i>orderNo</i>	Order number (string)
<i>partOrderNo</i>	Partial order number (string)
<i>partOrderName</i>	Optional: Partial order name (string, if empty or not present the name remains unchanged)
<i>printStandardFront</i>	Optional: Print standard ID front (Long, 0 = no print standard)
<i>printStandardBack</i>	Optional: Print standard ID back (Long, 0 = no print standard)

**Attributes <Delivery>**

attribute	Meaning/Format
<i>amount</i>	Optional: delivery quantity (integer)
<i>date</i>	Optional: Delivery date (Long, milliseconds UNIX time)

**Attributes <Paper>**

attribute	Meaning/Format
<i>paperNo</i>	Optional: paper number (string)
<i>printWidth</i>	Optional: print width in mm (double)
<i>printHeight</i>	Optional: print length in mm (double)

**Response**

```
<Response typeId="11020" returnCode="1"/>
```

1.20.0

**LogoTronic Rapida XML protocol**BAVARIA  
DIGITAL  
TECHNIK BDT**2.8.3 XML PrintRunHeadDataExchange (11030)**

Request to save operation header data behind an operation.

**Request**

```
<Request typeId="11030">
    <Job orderNo="12345" partOrderNo="4321" printRunNo="4711" printRunName="Operation"/>
        <Print amount="10000" subsidy="100" subsidy2="150" copy="2" plannedDate="1568110778200"
            setupTime="60" printTime="180"/>
</Request>
```

**Attributes <Job>**

attribute	Meaning/Format
<i>orderNo</i>	Order number (string)
<i>partOrderNo</i>	Partial order number (string)
<i>printRunNo</i>	Operation number (string)
<i>printRunName</i>	Optional: Operation name (string, if empty or not present the name is deleted)

**Attributes <Print>**

attribute	Meaning/Format
<i>amount</i>	Optional: target copies (integer)
<i>copy</i>	Optional: Use (Integer)
<i>subsidy</i>	Optional: subsidy pressure (integer)
<i>subsidy2</i>	Optional: Subsidy for further processing (integer)
<i>plannedDate</i>	Optional: Scheduled date and time (Long, milliseconds UNIX time)
<i>setupTime</i>	Optional: setup time in minutes (double)
<i>printTime</i>	Optional: production time in minutes (double)

**Response**

```
<Response typeId="11030" returnCode="1"/>
```