

# BEN Printing

## Business Printing for SAP®

- External output management for SAP spool output
- Central control and supervision of print output from SAP
- BC-XOM support
- Device independent print output
- Device independent form generation in SAP
  - Output tracking
  - System stability (Backup-Server)
  - Load balancing (distributed spooling and conversion)
  - Data compression
    - Open interface for forms management solutions
    - Support of soft barcodes
    - Automatic installation of printers in SAP systems

# BEN Printing

PLOSSYS® netdome as an external output management for SAP, this means:

- Decoupling of SAP spool output from data preparation and from device control
- Print job tracking by user and User Helpdesk
- Simple, centralized administration for output solution
- Mixed output of SAP forms and documents
- High system availability and system fail-safe stability
- Integration with standardized interfaces (BC-XOM)

## ■ Integration via BC-XOM

With BC-XOM (XOM = eXternal Output Management) SAP offers a standardized interface for connecting external output management systems to the SAP spool process. PLOSSYS® netdome supports two connection methods of this interface (RFC or program call). This applies also for different methods of feedback: Active feedback processes as well as polling feedback methods are supported. This enables the user to check the status of their output jobs in the SAP system at any time.



## ■ Print sharing and processing

The SAP spool integration from SEAL Systems supports different output methods:

- Spool only  
For a fast integration into already existing output environments, there is a „spool only“ method available. With this, the output data stream is already device-specifically processed within the SAP system and the output management system is running as an external spool server.
- Complete print processing  
In both cases, the user receives enhanced transparency as back tracking to the output device is possible. The system administrator and the User Helpdesk have many tools for central output management control. Centralized accounting, high failure and system reliability are further features of this system integration method.

## ■ Device-independent print data processing

PLOSSYS® netdome significantly reduces the resources for generation and maintenance of SAP print forms. To achieve this, different methods are offered:

### Control of all output devices via SAP GOF

If you utilize the SAP form design (Smartforms and SAPScript) functionality, all output devices connected to PLOSSYS netdome can be controlled using one single independent device type. To achieve this, all printers in SAP are configured as device type ZSAPGOF. The conversion into a device specific format is done on the output server. This method reduces the efforts for form generation significantly. Additionally, it guarantees that all forms have the same layout on all printers (format, fonts, soft barcodes).

### Integration of a form management system for print data processing

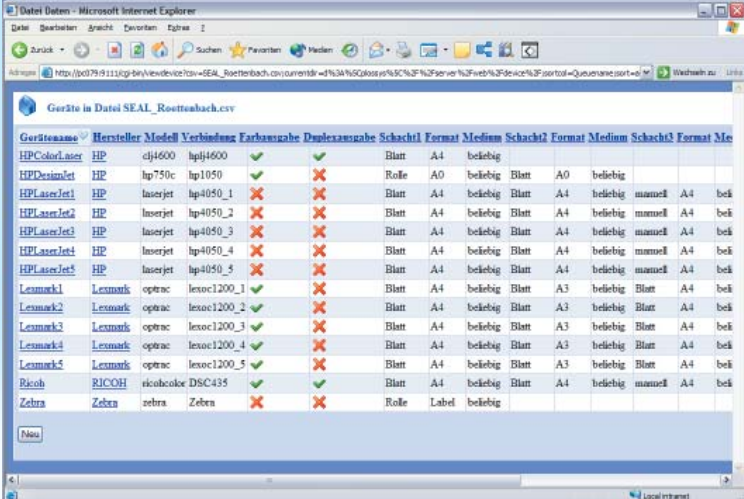
If the SAP standard form design functionality is not sufficient for your needs, there are form management program interfaces available for various manufacturers. Using these, the form generation can be done with a graphical editor. The raw data from the SAP data stream is mapped into the form fields. The form generation is completed on the output server and the forms can be administered centrally. Only one output device has to be configured in the forms management system (eg of type PDF or PostScript). The conversion into the specific output format is done by the converters of PLOSSYS® netdome. All advantages of external forms management solutions can be used with minimal cost due to no license or administration fees.

# BEN Printing

## System administration

### Centralized configuration of printers in all SAP systems

Existing printer definitions can be exported from the SAP system and automatically installed and configured in the output management system. The addition of new printers is done centrally in the output management system for all SAP servers. Key users or local administrators can install and configure printers easily with the web interface EDC (Extended Device Configuration).



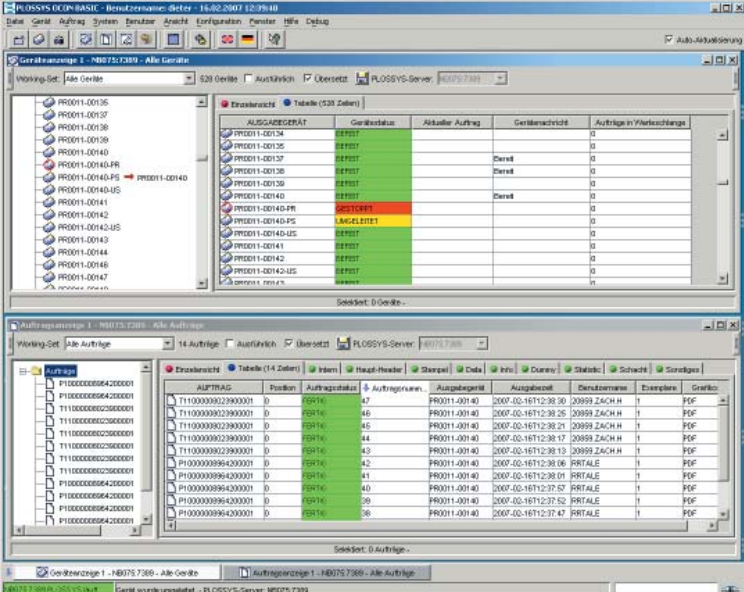
The screenshot shows a web browser window displaying a table of printer configurations. The table has columns for GeräteName, Hersteller, Modell, Verbindung, Farbausgabe, Duplexausgabe, Schacht1, Format, Medium, Schacht2, Format, Medium, Schacht3, and Format. The table lists various printer models like HPColorLaser, HPDesignJet, HP LaserJet, Lexmark, and Ricoh, along with their respective configurations.

GeräteName	Hersteller	Modell	Verbindung	Farbausgabe	Duplexausgabe	Schacht1	Format	Medium	Schacht2	Format	Medium	Schacht3	Format	Medium
HPColorLaser	HP	dj4600	hp4600	✓	✓	Blatt	A4	beliebig						
HPDesignJet	HP	hp750c	hp1050	✓	✓	Rolle	A0	beliebig	Blatt	A0	beliebig			
HP LaserJet	HP	laserjet	hp4050_1	✗	✗	Blatt	A4	beliebig	Blatt	A4	beliebig	manuel	A4	beliebig
HP LaserJet	HP	laserjet	hp4050_2	✗	✗	Blatt	A4	beliebig	Blatt	A4	beliebig	manuel	A4	beliebig
HP LaserJet	HP	laserjet	hp4050_3	✗	✗	Blatt	A4	beliebig	Blatt	A4	beliebig	manuel	A4	beliebig
HP LaserJet	HP	laserjet	hp4050_4	✗	✗	Blatt	A4	beliebig	Blatt	A4	beliebig	manuel	A4	beliebig
HP LaserJet	HP	laserjet	hp4050_5	✗	✗	Blatt	A4	beliebig	Blatt	A4	beliebig	manuel	A4	beliebig
Lexmark	Lexmark	optrac	lexoc1200_1	✓	✓	Blatt	A4	beliebig	Blatt	A3	beliebig	Blatt	A4	beliebig
Lexmark	Lexmark	optrac	lexoc1200_2	✓	✓	Blatt	A4	beliebig	Blatt	A3	beliebig	Blatt	A4	beliebig
Lexmark	Lexmark	optrac	lexoc1200_3	✓	✓	Blatt	A4	beliebig	Blatt	A3	beliebig	Blatt	A4	beliebig
Lexmark	Lexmark	optrac	lexoc1200_4	✓	✓	Blatt	A4	beliebig	Blatt	A3	beliebig	Blatt	A4	beliebig
Lexmark	Lexmark	optrac	lexoc1200_5	✓	✓	Blatt	A4	beliebig	Blatt	A3	beliebig	Blatt	A4	beliebig
Ricoh	RIICOH	ricohcolor	DSC435	✓	✓	Blatt	A4	beliebig	Blatt	A4	beliebig	manuel	A4	beliebig
Zebra	Zebra	zebra	zebra	✗	✗	Rolle	Label	beliebig						

EDC Edit for simple installation and configuration of printers

### Centralized supervision and control of the output management system

With easy to use environments, a simple control of the output management system is possible. The User Helpdesk or the system administrator immediately receive the status of the entire output management, single output devices or print jobs. Devices can be stopped and restarted or jobs can be switched between any devices in order to bridge a gap because of printer failures. By definition of different views, a department or location specific administration can be performed.



The screenshot shows a software interface with two main windows. The top window, titled 'Geräteansicht', displays a tree view of printer devices on the left and a table of printer status on the right. The bottom window, titled 'Auftragsansicht', displays a table of print jobs with columns for Auftrag, Position, Auftragsstatus, Ausgabezeit, Ausgabepfad, Benutzername, Exemplare, and Größe.

AUSGABEGERÄT	Gerätestatus	Aktueller Auftrag	Geräteverträge	Aufträge in Warteschlange
PR0011-00134	SEFFST			0
PR0011-00135	SEFFST			0
PR0011-00137	SEFFST		Dienst	0
PR0011-00138	SEFFST		Dienst	0
PR0011-00139	SEFFST			0
PR0011-00140	SEFFST		Dienst	0
PR0011-00140-PR	SEFFST			0
PR0011-00140-S2	SEFFST			0
PR0011-00140-S5	SEFFST			0
PR0011-00141	SEFFST			0
PR0011-00142	SEFFST			0
PR0011-00142-S2	SEFFST			0
PR0011-00147	SEFFST			0
PR0011-00148	SEFFST			0

OCON+ for simple centralized system administration

## Fail-safe reliability and load balancing

By installing several output servers, a high system stability can be achieved. The tasks of a failed output system are automatically switched to the backup system. So a very high fail-safe reliability can be guaranteed. If all systems are running parallel the load can be optimally distributed to the different servers and therefore a high performance is maintained. Especially if you use the centralized conversion at the output server.

## Business process integration

The print output of SAP pool data can be combined with the document output management functions from SEAL Systems. Business processes like orders, production orders or maintenance orders can be provided and distributed as complete set collations at the push of a button. During this process all documents connected to a certain business process are provided and sorted into the output data stream in the correct sequence.

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## ■ System administration

### Job tracking

PLOSSYS® netdome offers various job tracking functions for users, system administrators or the User Helpdesk. Via backchannel information, which is reported from the output server to the SAP system, the user is always informed of the status of his print job. In connection with the Output Device Monitor (ODM) the job tracking can be watched even to the output paper tray of the printer. For the system administrator and the User Helpdesk there is comprehensive tool available – the Operator Console (OCON). With this tool the entire output management can be supervised and controlled.

## ■ Additional services

### Labels printing

By integration of the label printing software CODE-SOFT Sentinel any templates for labels or identification plates can be defined with minimal effort. The intuitive usage allows quick generation of new layouts or adaption of existing ones. No SAP programming is necessary to adjust print programs. The output can be done with the included drivers on more than 1000 different labels.

### Soft barcodes

Bar codes can be simulated as a graphic with the SAP GOF interpreter of the output management. This enables bar code printing on all output devices, without special printer bar code options.

Bez.: ZUGVERBNDG VKT K4/A1 MONT GEBÖG																													
<b>Versand FZT</b>																													
Auftragsnummer:				Materialnummer:				Prüflos:																					
																													
T1M	T1P	T2M	T2P	T3M	T3P	T4M	T4P	RM	RP	GM	GP																		
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## ■ Advantages and benefits

### Cost effectiveness

- Cost reduction through central system supervision and control (Single Point of Administration).
- Simple and central definition as well as automatic distribution of output devices reduce the efforts of systems administrators significantly.
- Explicit cost saving at forms generation through controlling of all output devices with only one independent device type.
- *One* output management system for all print output within the company (Business- [SAP spool output], Engineering [CAD output] and network printing [Windows]). This reduces the costs of system administration considerably.
- Optimized usage of the WAN bandwidth: With central SAP servers and decentralized print output, only high compressed data is transferred to the output servers.

### Riskless Investment

- Device independent print data processing enables the simple integration of new output hardware
- Through modular system architecture the output solution can be adapted step by step to the specific requirements of the enterprise.

### High system reliability

- Extended fail-safe functions of the print output via backup server.
- Multi server and load balancing processing guarantees high performance even under high load.
- For reliable high performance processing there are optimized and well-proven device control mechanisms which have worked for years at customer's sites.

### High customer satisfaction

- Enhanced customer satisfaction through extensive transparency of print output and job tracking possibilities.
- High system reliability leads to high customer satisfaction.