



BENS G3 represents the third generation of the well-established print server technology developed by Suchy MIPS.

Originally developed as a pure barcode server, then also equipped with the Unicode functionality, within the past few years this technology was further developed following the customers' requirements until, finally, this technology with its new version became an especially intelligent and innovative print tool for professional business users.

BENS G3 progressed into a powerful, yet still easy to operate, flexible print data control and maintenance tool – while, at the same time, retaining all of the original functionalities. Due to the ready availability of different filters on a single-printer level, a swift response to the ever changing requirements is possible without having to interfere with any of the original print applications, drivers or other printing instances.

BENS G3 is a network device supporting the following protocols: LPR, Socket, SMB and IPP. The administrator is able to freely allocate the protocols to each of the single printers. The protocols BENS G3 is using to receive and transmit the print data for a printer may vary. From an SAP system, it is possible to print directly on BENS G3, for example via the host spool access methods „U“ or „C“.

BENS G3 is a driver-less print server. When an application server (e.g. an SAP system) is submitting data already edited and prepared for printing, these undergo only those modifications through filters that are actually desired by the user and that were pre-defined for a specific printer.

Installed filters can be allocated to specifically selected printers, and that at random order. A number of already existing standard filters is available. Those filters are, for example, the **Barcode filter** and the **Unicode filter** for PCL printers, the **Prescribe filter** for the output of Prescribe print data on PCL printers as well as various other filters. Further printers can easily be developed and added. The installation of filters and their activation on the single printers is carried out using the pre-installed, web-based administration tool that is available on BENS G3.

BENS G3 supports the SNMP protocol. Every piece of status information emitted by the printer is forwarded by BENS G3 to the instance that initiated the print job and vice versa: e.g. SNMP requests forwarded to the printer through the emitting instance are directly routed to that printer by BENS G3. This way, the communication between application and printer is sustained at all times. As a newly added feature BENS G3 is able to automatically reprint failed printouts (e.g. in cases of paper jams caused by the printer).

The BENS G3 technology is scalable. For environments with a high number of printers, BENS G3 can be installed on one selected server or it can be provided as a virtual server image of VMware, XEN or HyperView.

In addition to the configuration-securing function on external data carriers, BENS G3 commands the new function of mirroring, enabling a synchronisation of two print servers. Should one of the devices suffer an exceptional failure, the second device takes over the task of the failing print server. In a mirrored system the filters are, of course, only licensed once. Should the master fail, the mirroring server automatically takes over the license rights for each of the obtained filters.

BENS G3 was equipped with the latest technical details: one Intel-Atom processor 1,1 Ghz. on a Kontron Board with 1 GB central memory, one solid state disk (2 or 40 GB are available) for the interim storage of the print jobs and one 1000 Base-T network card for a fast data transport. Like its predecessor, BENS G3 will require no fan. That way, the new print server is able to operate without any movable or loose parts.

The performance of the BENS G3 appliance exceeds by far those of its predecessors. This means that up to 50 printers can be run with one single device.

For further questions concerning BENS G3, please contact us at any time – our team members will always be available to every interested party. Detailed information on BENS G3 can also be found on the following Internet web page:

www.suchymips.de



**Now also deliverable as a
virtual Server Image**





Summary BENS G3:

- Network print server
- Network connection: RJ45, 1000-Base T (1 GB)
- 1 GB central memory
- SATA SSD 2 GB (optionally with 40 GB)
- Fanless

- Supported protocols: LPR, SMB, Socket, IPP, SNMP, DHCP
- Cross protocolling possible (e.g. access to BENS with LPR, output via socket)
- HTML interface for administrating the print server, password-protected
- Reprint of print jobs
- Download of unfiltered and filtered print jobs
- Print preview on the print server
- Firmware can be updated
- Filters can be updated
- New filters can be uploaded
- Customer-specific filters can be integrated (customized)
- Synchronisation with a second BENS G3 print server available for system stability
- Employment of several filters per printer
- Up to 50 printers can be run on one single appliance

- Backup and restore function for configurations
- System stability through mirroring onto a second print server, taking over the master's function in failure cases.

- Measurements width/height/depth in mm: 165 / 50 / 90
- Operating temperature: 0° to 50° C
- Power supply: 5V DC
- Weight: 570 grammes



Alphabetic list of all Barcodes Supported by the PCL5 Barcode Filter

- ✓ 2/5 industrial
- ✓ 2/5 industrial with check digit
- ✓ 2/5 interleaved
- ✓ 2/5 interleaved with check digit
- ✓ 2/5 matrix
- ✓ 2/5 matrix with check digit
- ✓ Australia 4 State 37-CUST
- ✓ Australia 4 State 37-CUST
- ✓ Australia 4 State 52-FF-MET
- ✓ Australia 4 State 52-FF-MET
- ✓ Australia 4 State 67-FF-MET
- ✓ Australia 4 State 67-FF-MET
- ✓ Australia 4 State FCC-45 REPLY
- ✓ Australia 4 State FCC-45 REPLY
- ✓ Aztek
- ✓ Codabar
- ✓ Codabar with check digit
- ✓ Codablock F
- ✓ Code 128 A
- ✓ Code 128 autoswitch
- ✓ Code 128 B
- ✓ Code 128 C
- ✓ Code 128 C
- ✓ Code 39
- ✓ Code 39 extended
- ✓ Code 39 extended with check digit
- ✓ Code 39 with check digit
- ✓ Code 39 with check digit plus spaces leading and following the data
- ✓ Code 39 plus spaces leading and following the data
- ✓ Code 93
- ✓ Code 93 extended
- ✓ Danish Post 39
- ✓ DataMatrix
- ✓ German Post 2/5 Identcode 11
- ✓ German Post 2/5 Leading code 13
- ✓ EAN 128
- ✓ EAN/JAN-13
- ✓ EAN/JAN-13 +2
- ✓ EAN/JAN-13 +5
- ✓ EAN/JAN-8
- ✓ EAN/JAN-8 +2
- ✓ EAN/JAN-8 +5
- ✓ French Post 39 A/R
- ✓ MSI
- ✓ MSI with 2 check digits Mod. 10
- ✓ MSI with 2 check digits Mod. 11 and Mod. 10
- ✓ MSI with check digit Mod.10
- ✓ Netherlands Postal Barcode KIX
- ✓ OMR
- ✓ PDF 417
- ✓ QR Code Model 1
- ✓ QR Code Model 2
- ✓ Royal Mail 4 State Customer Code
- ✓ Singapore 4 State Postal Code
- ✓ UCC-128
- ✓ UPC-A
- ✓ UPC-A +2
- ✓ UPC-A +5
- ✓ UPC-E
- ✓ UPC-E +2
- ✓ UPC-E +5
- ✓ UPS Maxicode
- ✓ USPS Sack Label
- ✓ USPS Tray Label
- ✓ USPS ZEBRA
- ✓ ZIP+4 POSTNET 11
- ✓ ZIP+4 POSTNET 5
- ✓ ZIP+4 POSTNET 9