

SAP Printing

Customer documentation

Volume 1

ReadMe: Support by LANIER

Version: 1.54

Abstract:

This document contains first-step information about support by LANIER for printing from SAP systems (R/3, mySAP ERP). It explains the supported device models, the available SAP device types, and the available documentation.

Published by
Ricoh Company Ltd.

Contents

1. THE CONCEPT	3
1.1 THE SAP SYSTEMS SUPPORTED	3
1.2 THE DEVICE MODELS SUPPORTED	3
1.3 THE FAMILY OF PROVIDED DEVICE TYPES.....	3
2. THE DEVICE TYPES	6
2.1 ZA00 (AND ZA04)	6
2.2 ZA01 (AND ZA05)	6
2.3 ZB00	7
3. THE DOCUMENTATION.....	8
3.1 VOLUME 1 = README.....	8
3.2 VOLUME 2 : [DEVICE TYPE] = DEVICE TYPE SPECIFIC INFORMATION	8
3.3 VOLUME 2B = BARCODE AND OCR TEXT PRINTING	8
3.4 VOLUME 3 : [DEVICE CLASS] = DEVICE-SPECIFIC INFORMATION	8
4. APPENDICES.....	9
4.1 APPENDIX D: DEVICE MODELS SUPPORTED	9

Trademarks

Microsoft®, Windows® are registered trademarks of Microsoft Corporation in the United States and/or other countries.

PostScript® is a registered trademark of Adobe Systems, Incorporated.

PCL® is a registered trademark of Hewlett-Packard Company.

Andale and WorldType are registered trademarks of Monotype Imaging, Inc.

Other product names used herein are for identification purposes only and might be trademarks of their respective companies. We disclaim any and all rights in those marks.

Important notice

Parts of this manual are subject to change without prior notice.

1. The Concept

This chapter introduces our approach to support printing to our **printer devices** from **SAP systems** (R/3, mySAP ERP).

The printer controllers of our devices support the PCL, PJJ and/or PostScript **printer language**.

A priori, the customer can print on our devices with any suitable **SAP standard device type**, such as HPLJ4, as indicated in [SAP note # 8928](#). However, this way it is hard to activate our devices' specific features, like additional input and output trays, and finishing options, like stapling and punching.

Alternatively, some settings could be configured on the device's front panel. This is acceptable to do for permanent changes, but not for a per-job basis. Using the Windows driver based SWIN/SAPWIN device types has also some drawbacks.

For the above reasons, we provide a **family of proprietary device types (DT)**.

The device types differ in the class of device models they support, the printer language they are based on, the device features supported, and some other "DT distinctive features".

For a list of the **supported device models** see below.

For the definition of the **DT distinctive features** see below.

For a list of the **supported features** see the corresponding issue of [Volume 2](#) of the documentation.

For some device models and features the degree of support may be partially limited. Those **limitations** can be found in [Volume 3](#).

Each device type, as shipped, is "**generic**": In particular, it is independent of any specific device model.

For each device setting, the "generic" code contains initially a default command sequence, and/or is commented out.

The customer can and needs to configure the settings by himself, thus adapting the device type to the targeted device model and the intended behavior.

The shipped device type has to be used as a template for creating the actual device types to use.

If the SAP system and the shipped Device type support **POSS** ("Print Options for SAPscript and SmartForms"), then the configuration of most features can be done in each Output device, using the shipped Device type as-is.

The **accompanying documentation** provides the necessary detailed information to the customer, i.e. typically, the SAP administrator. See below for the contents.

For general information about our proprietary device types, their **installation** and **configuration**, see [Volume 2](#).

For information about a particular device type (supported features, limitations), read the corresponding issue of [Volume 2](#).

For information about a particular device model (features, commands, limitations), read the corresponding issue of [Volume 3](#).

For a general printing **troubleshooting** procedure and how to contact **support**, see [Volume 2](#).

1.1 The SAP systems supported

The support is essentially platform-independent.

Explicitly supported are these [Enterprise Resource Planning \(ERP\) systems by SAP](#):

- **SAP S/4 HANA**
- **SAP R/3** (release versions 3.0 and higher)
- **SAP R/3 Enterprise**
- **mySAP ERP** (2004 and higher)

In our documentation these are collectively referred to as "**SAP systems**", unless a distinction is necessary.

1.2 The Device models supported

For a list of the printer device models for which SAP printing is supported, please refer to [Appendix D](#).

A "**device class**" [DCxx] groups device models which have similar behaviour with respect to SAP printing.

For information about a particular device model (features, commands, limitations):

1. Determine which device class your device model belongs to, say [DCxx].
2. Refer to the corresponding section of [Volume 3 \[DCxx\]](#).

1.3 The family of provided Device types

The naming of the Device types

The name of an individual member of our proprietary family of Device types reflects:

- the model controller type supported (m)
- the DT distinctive features supported (xx)

- the codepage it supports (c)
- the version (vvv)

Z **m** **xx** **c** **vvv**

The Model controller type (m)

The following model controller types are supported:

- A
- B

They differ by the supported command set and their behaviour.

The DT distinctive features (xx)

The individual members of our family of proprietary Device types differ by certain features, hereafter referred to as "DT distinctive features".

Tag - value	< DT distinctive feature > = meaning
[Fabapd] - NONE - HPL2	< ABAP list driver default > (default/initial setting) = "Do not use printer driver ..." (standard) = "Printer driver for PCL-5 (...)"
[Fbarcs] - B0= none - B2= BOP - B3= IBS	< barcoding solution compatibility/support > = none = "Barcode & OCR Package" (BOP) = "Barcode & OCR Package - Intelligent version" (BOCR)
[Ffscal] - S0 - S1 - S2	< font scaling mechanism > = discrete (like HPLJ4) = arbitrary (scalable flag) (like HPLJ4000) = dto. & (proportional flag) (like HPUTF8)
[Fposs] - P0 - P1	< "Print Options for SAPscript and SmartForms" (POSS) support > = not supported = supported

The code pages supported (c)

The individual members of our family of proprietary Device types differ by the set of characters supported.

c =	Code page	SAP character set	PCL symbol set	Definition
- 1	Latin-1	1116	0N	ISO8859-1
- 2	Latin-2	1416	2N	ISO8859-2
- U	Unicode	4210	18N	Unicode (Andale fonts)
- V	Unicode	4210	18N	Unicode (resident fonts)

The members of the ZA0x & ZB0x DT families

xx	c	vvv	[Fbarcs]	[Fabapd]	[Ffscal]		[Fposs]
- 00	1,2	001..013	none/ BOP	NONE	S0 discrete (like HPLJ4)		P0
		014..inf	none/ BOP	NONE	S2 scalable (like HPUTF8)		P0
		016..018	none/ BOP	NONE	S2 scalable (like HPUTF8)		P1
		020..inf	none/ BOP	HPL2	S2 scalable (like HPUTF8)		P1
- 00	U,V	011	none/ BOP	NONE	S2 scalable (like HPUTF8)		P0
		012..013	none/ BOP	NONE	S2 scalable		P0

			BOP		(like HPUTF8)		
		014 .. inf	none/ BOP	NONE	S2 scalable (like HPUTF8)		P0
		016 .. 018	none/ BOP	NONE	S2 scalable (like HPUTF8)		P1
		020 .. inf	none/ BOP	HPL2	S2 scalable (like HPUTF8)		P1
- <u>01</u>	1,2	006..inf	IBS	same as xx=00	same as xx=00		P0
		016..inf	IBS	same as xx=00	same as xx=00		P1
- 01	U,V	011..inf	IBS	same as xx=00	same as xx=00		P0
		016..inf	IBS	same as xx=00	same as xx=00		P1
- <u>04</u>	1,2	014..inf	none/ BOP	NONE	S0 discrete (like HPLJ4)		P0
- <u>05</u>	1,2	014..inf	IBS	same as xx=04	same as xx=04		P0

2. The Device Types

This chapter lists all our proprietary SAP device types available.

There are two ZA DT families: { **ZA00** , **ZA01** }, their legacy version counterparts { **ZA04** , **ZA05** }, and one ZB DT family { **ZB00** }.

Note: (ZB00: Difference between ZA and ZB)

The ZB0x DT family has been newly introduced in v025 to support the new model controller type of Device class [DC68].

The ZA0x DT family supports the model controller type of all other Device classes.

Note: (Difference between Zm00 and Zm01)

The difference between them lies only in the support for barcoding; please refer to [Volume 2 \[ZA0x\]](#).

For the barcode solution "Barcode & OCR Package" (BOP), the Device type Zm001vvv has to be used.

For the barcode solution "Barcode & OCR Package - Intelligent version" (BOCR), the Device types ZA01cvvv (c=1,2,U,V) have to be used.

For non-barcode printing, the Device types Zm00cvvv (c=1,2,U,V) should be used.

Note: (Specification of ZA04 and ZA05)

ZA04 is a legacy version of ZA00.

ZA05 is a legacy version of ZA01.

They only support discrete font sizes. Otherwise they are identical to their counterparts.

This is required for older SAP systems, namely SAP R/3 rel 3.x.

To obtain them, please contact Technical support.

For each device type family the following information is provided here:

- Latest release version
- Base page description language (PDL): PCL
- Name of device type file (ZAxxcvvv.PRI) for each character set supported
- Usage
- List of device models supported

For more information about a particular device type, such as supported features and limitations, please refer to the corresponding issue of documentation [Volume 2](#).

2.1 ZA00 (and ZA04)

Release version: 024

Printer language: PCL5

Device type file: **Character set:**

• ZA001024.PRI	1116 (Latin-1 / 0N)	
• ZA002024.PRI	1416 (Latin-2 / 2N)	
• ZA00U024.PRI	4210 (Unicode / 18N) (Andale fonts)	
• ZA00V024.PRI	4210 (Unicode / 18N) (resident fonts)	
• ZA041024.PRI	1116 (Latin-1 / 0N)	-- legacy version for SAP R/3 rel 3.x with discrete font sizes
• ZA042024.PRI	1416 (Latin-2 / 2N)	-- dto.

Usage: Prepared for use with the barcode solution "Barcode & OCR Package" (BOP).
Should also be used for non-barcode printing.

Device models supported:

Refer to [Appendix D](#); the models supported by this Device type are tagged "(ZA)".

For which of these printer device models are supported by the barcode solution "Barcode & OCR Package", please refer to its User's Manual.

2.2 ZA01 (and ZA05)

Release version: 024

Printer language: PCL5

Device type file: **Character set:**

• ZA011024.PRI	1116 (Latin-1 / 0N)	
• ZA012024.PRI	1416 (Latin-2 / 2N)	
• ZA01U024.PRI	4210 (Unicode / 18N) (Andale fonts)	
• ZA01V024.PRI	4210 (Unicode / 18N) (resident fonts)	

• ZA051024.PRI	1116 (Latin-1 / 0N)	-- legacy version for SAP R/3 rel 3.x with discrete font sizes
• ZA052024.PRI	1416 (Latin-2 / 2N)	-- dto.

Usage: Prepared for the sole use with the barcode solution "Barcode & OCR Package - Intelligent version" (BOCR).
Note: This product is not available in all regions.

Device models supported:

The same models as for ZA00 are supported. Refer to [Appendix D](#); the models supported by this Device type are tagged "(ZA)".

For which of these printer device models are supported by the barcode solution "Barcode & OCR Package - Intelligent version" (BOCR), please refer to its User's Manual.

2.3 ZB00

Release version: 025

Printer language: PCL5

Device type file: Character set:

• ZB001025.PRI	1116 (Latin-1 / 0N)
• ZB002025.PRI	1416 (Latin-2 / 2N)
• ZB00U025.PRI	4210 (Unicode / 18N) (Andale fonts)

Usage: Prepared for use with the barcode solution "Barcode & OCR Package" (BOP).
Should also be used for non-barcode printing.

Device models supported:

Refer to [Appendix D](#); the models supported by this Device type are tagged "(ZB)".

For which of these printer device models are supported by the barcode solution "Barcode & OCR Package", please refer to its User's Manual.

3. The Documentation

The following pieces of documentation are available in Acrobat/PDF format. Please use always the latest available version.

For more information, please refer to:

- your SAP documentation
- standard SAP literature
- <http://help.sap.com>
- <http://service.sap.com>

3.1 Volume 1 = ReadMe

This ReadMe file. Contains first-step information for the customer.

3.2 Volume 2 : [Device type] = Device type specific information

Contains general information about device types, such as:

- Installation and Configuration
- Troubleshooting and Support

Contains specification information specific for the indicated proprietary device type (family), such as:

- Features supported
- Formats, Print controls, Fonts, Cover pages
- Limitations

Note: (ZB0x specific information)

Please note that the manual "Volume 2 [ZA0x]" is primarily focused on the ZA0x Device types. Deviations and information specific to the ZB0x Device types are currently not documented there. In the case of questions or problems, please contact Technical support.

Note: (Print control naming Zxxxx vs Xxxxx)

The naming of non-standard Print controls in our Device types has been changed to "Xxxxx".
Note that in some of these documents they may still show as "Zxxxx".

3.3 Volume 2B = Barcode and OCR text printing

Contains information about Barcode and OCR text printing from SAP systems.

3.4 Volume 3 : [Device class] = Device-specific information

Contains general information about our devices, such as:

- Printer languages
- Configurable features

Contains information specific for the indicated device, such as:

- Hardware accessories
- Features and Settings
- Commands
- Limitations

Note: (Print control naming Zxxxx vs Xxxxx)

The naming of non-standard Print controls in our Device types has been changed to "Xxxxx".
Note that in some of these documents they may still show as "Zxxxx".

4. Appendices

4.1 Appendix D: Device models supported

The table below lists the supported device models, sorted by the device class they belong to.

Device class	LANIER Brand Name	Remarks (*1)
• [DC01] (*2)	a 5135 b 5235 c 5245	(C--) (Us) (P--)(Bs) (ZA)
• [DC02] (*2)	a 5222 b 5227	(C--) (Us) (P--)(Bs) (ZA)
• [DC03] (*2)	a 2045	(C--) (Us) (P--)(Bs) (ZA)
• [DC04] (*2)	a 5455 b 5470 c LD055	(C--) (Us) (P--)(B+) (ZA)
• [DC05] (*2)	a -- b --	(C--) (Us) (P--)(B+) (ZA)
• [DC06] (*2)	a 5635 b 5645	(C--) (Us) (P--)(B+) (ZA)
• [DC07]	AP3200	(C--) (Us) (P--)(B+) (ZA)
• [DC08] (*2)	a 5485 b 5505 c 5685 d 5705	(C--) (Us) (P--)(B+) (ZA)
• [DC09]	LP 036c	(C+) (Us) (P--)(B+) (ZA)
• [DC10] (*2)	2138	(C+) (Us) (P--)(B+) (ZA)
• [DC11]	2145	(C--) (Us) (P--)(B+) (ZA)
• [DC12] (*2)	a 5622 b 5627 c --	(C--) (Us) (P--)(B+) (ZA)
• [DC13]	a LD024c b LD032c	(C+) (Us) (P--)(B+) (ZA)
• [DC14] (*2)	a AP2610 b AP2610N	(C--) (Us) (P--)(B+) (ZA)
• [DC15]	a LP 020c b -- c LP116c d LP122c e --	(C+) (Us) (P--)(B+) (ZA)
• [DC16]	a LD060 b LD075	(C--) (Us) (P--)(B+) (ZA)
• [DC17]	a LD035 b LD045 c LD135 d LD145	(C--) (Us) (P--)(B+) (ZA)
• [DC18] (*2)	LP138c	(C+) (Us) (P--)(B+) (ZA)
• [DC19]	a LD090 b LD0105	(C--) (Us) (P--)(B+) (ZA)
• [DC20]	a LD122 b LD127 c --	(C--) (Us) (P--)(B+) (ZA)
• [DC21]	a LP026	(C--) (Us) (P--)(B+) (ZA)

	b c	LP026N LP128	
• [DC22]		LP032	(C--) (U--) (P--)(B+) (ZA)
• [DC23]	K y z	LD228c LD232c LD238c	(C+) (Us) (P--)(B+) (ZA)
• [DC24]		LP235c	(C+) (Us) (P--)(B+) (ZA)
• [DC25]	a	LP031c	(C+) (Us) (P--)(B+) (ZA)
• [DC26]	a b	LP126cn --	(C+) (Us) (P--)(B+) (ZA)
• [DC27]	a b c	LD151 LD160 LD175	(C--) (Us) (P--)(B+) (ZA)
• [DC28]		LP135n	(C--) (Us) (P--)(B+) (ZA)
• [DC29]		LP128n	(C--) (Us) (P--)(B+) (ZA)
• [DC30]	b c	LD124c LD132c	(C+) (Us) (P--)(B+) (ZA)
• [DC31]	K a b	LD328c LD335c LD345c	(C+) (Us) (P--)(B+) (ZA)
• [DC32]	a b	LD160c LC155	(C+) (Us) (P--)(B+) (ZA)
• [DC33]		LP175hcn	(C--) (Us) (P--)(B+) (ZA)
• [DC34]	a c	LP332c LP335c	(C+) (Us) (P--)(B+) (ZA)
• [DC35]	b c d e f g	LD115 LD118 LD118d LD116 LD120 LD120d	(C--) (Us) (P+)(B+) (ZA)
• [DC36]	b c	LD235 LD245	(C--) (Us) (P--)(B+) (ZA)
	e f	LD335 LD345	(C--) (U+) (P--)(B+) (ZA)
• [DC37]	b c	LD225 LD230	(C--) (Us) (P--)(B+) (ZA)
	e f	LD325 LD330	(C--) (U+) (P+)(B+) (ZA)
• [DC38]	a b c d e f	LD190 LD1110 LD1135 Pro 906EX Pro 1106EX Pro 1356EX	(C--) (U+) (P--)(B+) (ZA)
• [DC39]	a b c d e f	LD255 LD265 LD275 LD260 LD270 LD280	(C--) (U+) (P+)(B+) (ZA)
• [DC40]	a b L	LP226cn LP231cn SP C400DN	(C+) (U+) (P+)(B+) (ZA)
• [DC41]	a b	LP222cn --	(C+) (Us) (P--)(B+) (ZA)
• [DC42]	a	LD425c	(C+) (U+) (P+)(B+) (ZA)

	b k	LD430c LD420c	
• [DC43]	c d	LD435c LD445c	(C+) (U+) (P+)(B+) (ZA)
• [DC44]		LP275hdn	(C--) (U+) (P+)(B+) (ZA)
• [DC45]		LP145n	(C--) (U+) (P--)(B+) (ZA)
• [DC46]	b c	LD316 LD320d	(C--) (U+) (P--)(B+) (ZA)
• [DC47]		LP440c	(C+) (U+) (P--)(B+) (ZA)
• [DC50]	b c L	LP131n LP136n LP131nL	(C--) (U+) (P+)(B+) (ZA)
• [DC51]		LP331cn	(C+) (U+) (P+)(B+) (ZA)
• [DC52]	a b	LD260c LD275c	(C+) (U+) (P+)(B+) (ZA)
• [DC53]	b c e f	LD040/LD040B LD050/LD050B LD140/LD140G LD150/LD150G	(Cg) (U+) (P+)(B+) (ZA)
• [DC54]	b c e f	LD425/LD425B LD433/LD433B LD528 LD533	(Cg) (U+) (P+)(B+) (ZA)
• [DC55]		LD125	(C--) (U+) (P--)(B+) (ZA)
• [DC56]		LD016	(C--) (U+) (P--)(B+) (ZA) (*3)
• [DC57]		LP150dn	(Cg) (U+) (P+)(B+) (ZA)
• [DC59]		LP37N	(Cg) (U+) (P+)(B+) (ZA)
• [DC60]	a b c	Pro 907EX Pro 1107EX Pro 1357EX	(Cg) (U+) (P+)(B+) (ZA)
• [DC61]	a b c d	LD528C/LD528CG LD533C/LD533CG LD630C/LD630CG LD635C/LD635CG	(C+) (U+) (P+)(B+) (ZA)
• [DC62]	c d g h	LD540C/LD540CG LD550C/LD550CG LD645C/LD645CG LD655C/LD655CG	(C+) (U+) (P+)(B+) (ZA)
• [DC63]	a c d f La Lc	LD520C LD525C LD620C LD625C LD520CL --	(C+) (U+) (P+)(B+) (ZA)
• [DC64]	c d	LP540C LP550C	(C+) (U+) (P+)(B+) (ZA)
• [DC68]	a b c	Pro 907 Pro 1107 Pro 1357	(C--) (U+) (P+)(B+) (ZB)
• [DC69]	a b d e	LD261 LD271 LD281 LD291	(Cg) (U+) (P+)(B+) (ZA)
• [DC70]	-- b	LD117 MP 201SPF	(Cg) (U+) (P+)(B+) (ZA)
• [DC72]		LP235N	(Cg) (U+) (P+)(B+) (ZA)

• [DC73]	a b	LD365C LD375C	(C+) (U+) (P+)(B+) (ZA)
• [DC74]		GX e5550N	(C+) (Us) (P+)(Bs) (ZA)
• [DC75]	b	GX e3350N	(C+) (Us) (P+)(Bs) (ZA)
• [DC76]	a b	LP137CN LP142CN	(C+) (U+) (P+)(B+) (ZA)
• [DC77]	a b	LD130C LD140C	(C+) (U+) (P+)(B+) (ZA)
• [DC78]		SP C320DN	(C+) (U+) (P+)(B+) (ZA)
• [DC79]	f m	SP 5200S SP 5210SR SP 5210SF	(Cg) (U+) (P+)(B+) (ZA)
• [DC80]	a b	SP 5200DN SP 5210DN	(Cg) (U+) (P+)(B+) (ZA)
• [DC81]	a b c	MP 2352 MP 2852 MP 3352	(Cg) (U+) (P+)(B+) (ZA)
• [DC82]		SP 4310N	(Cg) (U+) (P+)(B+) (ZA)
• [DC83]	b c	MP 4002/4002G MP 5002/5002G	(Cg) (U+) (P+)(B+) (ZA)
• [DC84]	c d	MP C4502/C4502G MP C5502/C5502G	(C+) (U+) (P+)(B+) (ZA)
• [DC85]	a b	MP C3002/C3002G MP C3502/C3502G	(C+) (U+) (P+)(B+) (ZA)
• [DC86]	b c	SG 3110DN SG 3110DNw	(C+) (Us) (P+)(Bs) (ZA)
• [DC87]		MP C305SP	(C+) (U+) (P+)(B+) (ZA)
• [DC88]	a c e	MP 6002 MP 7502 MP 9002	(Cg) (U+) (P+)(B+) (ZA)
• [DC89]		MP 301	(Cg) (U+) (P+)(B+) (ZA)
• [DC90]		SG 3110SFNw	(C+) (Us) (P+)(Bs) (ZA)
• [DC91]		SP 8300DN	(Cg) (U+) (P+)(B+) (ZA)
• [DC92]	c d	SP C830DN SP C831DN	(C+) (U+) (P+)(B+) (ZA)
• [DC93]		SP C730DN	(C+) (U+) (P+)(B+) (ZA)
• [DC94]	b c	MP 2001 MP 2501	(Cg) (U+) (P+)(B+) (ZA)
• [DC95]	a b	MP C6502SP MP C8002SP	(C+) (U+) (P+)(B+) (ZA)
• [DC96]	a b	Pro C5100S Pro C5110S	(C+) (U+) (P+)(B+) (ZA)
• [DC97]		--	(Cg) (Us) (P+)(Bs) (ZA)
• [DC98]	a b c d e y z	MP C3003 MP C3503 MP C4503 MP C5503 MP C6003 MP C2003 MP C2503	(C+) (U+) (P+)(B+) (ZA)
• [DC99]	a b c	Pro 8100S/EX Pro 8110S Pro 8120S	(Cg) (U+) (P+)(B+) (ZA)

• [DC100]	a b c	MP 2553 MP 3053 MP 3353	(Cg) (U+) (P+)(B+) (ZA)
• [DC101]	d dM	SP 4510SF MP 401SPF	(Cg) (U+) (P+)(B+) (ZA)
• [DC102]	c dM cRS	SP 4510DN SP 4520DN --	(Cg) (U+) (P+)(B+) (ZA)
• [DC103]	b bF	MP C401 MP C401SR	(C+) (U+) (P+)(B+) (ZA)
• [DC105]	a b	SP 3600SF SP 3610SF	(Cg) (Us) (P+)(Bs) (ZA)
• [DC106]	aRS	SP 3600DN --	(Cg) (Us) (P+)(Bs) (ZA)
• [DC107]		SP 6430DN	(Cg) (U+) (P+)(B+) (ZA)
• [DC108]	c d e f g h	MP 2554 MP 3054 MP 3554 MP 4054 MP 5054 MP 6054	(Cg) (U+) (P+)(B+) (ZA)
• [DC109]		--	(C+) (U+) (P+)(B+) (ZA)
• [DC110]	d	SP C352DN	(C+) (U+) (P+)(B+) (ZA)
• [DC112]		SP C435DN SP C440DN	(C+) (U+) (P+)(B+) (ZA)
• [DC113]	a b	MP C306 MP C406	(C+) (U+) (P+)(B+) (ZA)
• [DC114]	a b c d e y z	MP C3004/ex MP C3504/ex MP C4504/ex MP C5504ex MP C6004/ex MP C2004/ex MP C2504/ex	(C+) (U+) (P+)(B+) (ZA)
• [DC115]	b c	Pro 8110 Pro 8120	(Cg) (U+) (P+)(B+) (ZA)
• [DC116]		MP 305+	(Cg) (U+) (P+)(B+) (ZA)
• [DC117]	a c e	MP 6503 MP 7503 MP 9003	(Cg) (U+) (P+)(B+) (ZA)
• [DC118]	a b	MP C6503 MP C8003	(C+) (U+) (P+)(B+) (ZA)
• [DC119]	a b	Pro C5200S Pro C5210S	(C+) (U+) (P+)(B+) (ZA)
• [DC120]	a b	SP 5300 SP 5310	(Cg) (U+) (P+)(B+) (ZA)
• [DC121]	a b	MP 501 MP 601	(Cg) (U+) (P+)(B+) (ZA)
• [DC122]	a d	SP C340DN SP C342DN	(C+) (U+) (P+)(B+) (ZA)
• [DC123]	c e	SP C840DN SP C842DN	(C+) (U+) (P+)(B+) (ZA)
• [DC124]	dM	MP 402	(Cg) (U+) (P+)(B+) (ZA)
• [DC125]	a b	MP C307 MP C407	(C+) (U+) (P+)(B+) (ZA)
• [DC126]	c d e f g h	MP 2555 MP 3055 MP 3555 MP 4055 MP 5055 MP 6055	(Cg) (U+) (P+)(B+) (ZA)
• [DC127]	a b c	Pro 8200S/EX Pro 8210S Pro 8220S	(Cg) (U+) (P+)(B+) (ZA)
• [DC128]	b c	Pro 8210 Pro 8220	(Cg) (U+) (P+)(B+) (ZA)
• [DC129]		MP C501	(C+) (U+) (P+)(B+) (ZA)
• [DC130]		SP 8400DN	(Cg) (U+) (P+)(B+) (ZA)
• [DC131]	a	SP C360DNw	(C+) (Us) (P+)(Bs) (ZA)
• [DC132]	a4 a3	SP C360SFNw SP C360SNw	(C+) (Us) (P+)(Bs) (ZA)

	b	SP C361SFNw	
• [DC133]	cM d/dM	IM 350 IM 430	(Cg) (U+) (P+)(B+) (ZA)
• [DC134]	d dM	P 501 P 502	(Cg) (U+) (P+)(B+) (ZA)
• [DC135]	a b c d e y z	IM C3000 IM C3500 IM C4500 -- IM C6000 IM C2000 IM C2500	(C+) (U+) (P+)(B+) (ZA)
• [DC136]		P C600	(C+) (U+) (P+)(B+) (ZA)
• [DC137]		--	(Cg) (Us) (P+)(Bs) (ZA)
• [DC138]	a b c	IM 550 IM 600 IM 600SR	(Cg) (U+) (P+)(B+) (ZA)
• [DC139]	a b	P 800 P 801	(Cg) (U+) (P+)(B+) (ZA)
• [DC140]	a b c	Pro 8300S Pro 8310S Pro 8320S	(Cg) (U+) (P+)(B+) (ZA)
• [DC141]	b c	Pro 8310 Pro 8320	(Cg) (U+) (P+)(B+) (ZA)

Note: (*1)

The following tags are used to describe particular features of the model ((...+) = supported/present, (...-) = not supported/present).

- (Cx) = Color support: (C-- = b&w (cannot handle color data); **Cg** = b&w (converts color data to grayscale); **C+** = color)

- (Ux) = Unicode support

(Us = supported by SAP Unicode Printing Enhancement (UPE) function, details in SAP Note 1812076;

U+ = supported by RICOH Andale font)

- (Px) = POSS support confirmed and documented in Volume 3 (Print Options for SAPscript and Smartforms)

- (Bx) = Barcode and OCR support

(Bs = supported by SAP New barcode technology, details in SAP Note 645158, without OCR support;

B+ = supported by IBS/BOP products, offered by RICOH, with OCR support)

- (Zm) = model controller type {m=A,B}

Note: (*2)

The Volume 3 for these device classes will no longer be updated.

Note: (*3)

This model is only supported via customization; no customer documentation Volume 3 exists.

Note:

A model name suffix "SP" or "SPF" may be omitted.