<u>SAP Printing</u>

<u>Customer documentation</u>

<u>Volume 1</u>

ReadMe:

    Support by Ricoh

Version: 1.59

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

C o n t e n t s

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, PJL 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 <u>SAP note # 8928</u>. 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 <u>Volume 2</u> of the documentation.
For some device models and features the degree of support may be partially limited. Those **limitations** can be found in <u>Volume 3</u>.

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 <u>Volume 2</u>.
For information about a particular device type (supported features, limitations), read the corresponding issue of <u>Volume 2</u>.
For information about a particular device model (features, commands, limitations), read the corresponding issue of <u>Volume 3</u>.

For a general printing **troubleshooting** procedure and how to contact **support**, see <u>Volume 2</u>.

1.1 The SAP systems supported

The support is essentially platform-independent.

Explicitly supported are these <u>Enterprise Resource Planning (ERP) systems by SAP</u>:
- **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 <u>Appendix D</u>.

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 <u>Volume 3 [DCxx]</u>.

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** **x x** **c** **v v v**

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 (like HPUTF8)		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
- 01	**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
- 04	1,2	014..inf	none/ BOP	NONE	S0 discrete (like HPLJ4)		P0
- 05	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 familiy has been newly introduced in v025 to support the new model controller type of Device class [DC68].
The ZA0x DT familiy 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 Zm0**01**vvv has to be used.
For the barcode solution "Barcode & OCR Package - Intelligent version" (BOCR), the Device types ZA0**1**cvvv (c=1,2,U,V) have to be used.
For non-barcode printing, the Device types Zm00**0**cvvv (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: **PCL**5

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: **PCL**5

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: **PCL**5

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		Ricoh Brand Name	Remarks (*1)
• **[DC01]** (*2)	a b c	Aficio 340 Aficio 350 / 355 Aficio 450 / 455	(C--) (Us) (P--)(Bs) (ZA)
• **[DC02]** (*2)	a b	Aficio 220 Aficio 270	(C--) (Us) (P--)(Bs) (ZA)
• **[DC03]** (*2)	a	AP4500	(C--) (Us) (P--)(Bs) (ZA)
• **[DC04]** (*2)	a b c	Aficio 551 Aficio 700 Aficio 1055	(C--) (Us) (P--)(B+) (ZA)
• **[DC05]** (*2)	a b	AP2600 AP2600N	(C--) (Us) (P--)(B+) (ZA)
• **[DC06]** (*2)	a b	Aficio 1035 / 1035G Aficio 1045 / 1045G	(C--) (Us) (P--)(B+) (ZA)
• **[DC07]**		AP3200	(C--) (Us) (P--)(B+) (ZA)
• **[DC08]** (*2)	a b c d	Aficio 850 Aficio 1050 Aficio 1085 Aficio 1105	(C--) (Us) (P--)(B+) (ZA)
• **[DC09]**		CL5000	(C+) (Us) (P--)(B+) (ZA)
• **[DC10]** (*2)		AP3800C	(C+) (Us) (P--)(B+) (ZA)
• **[DC11]**		AP4510	(C--) (Us) (P--)(B+) (ZA)
• **[DC12]** (*2)	a b c	Aficio 1022 Aficio 1027 Aficio 1032	(C--) (Us) (P--)(B+) (ZA)
• **[DC13]**	a b	Aficio 1224C / 1224CG Aficio 1232C / 1232CG	(C+) (Us) (P--)(B+) (ZA)
• **[DC14]** (*2)	a b	AP2610 AP2610N	(C--) (Us) (P--)(B+) (ZA)
• **[DC15]**	a b c d e	CL3000 CL2000 CL2000N CL3000e / CL3100N CL3100DN	(C+) (Us) (P--)(B+) (ZA)
• **[DC16]**	a b	Aficio 1060 Aficio 1075	(C--) (Us) (P--)(B+) (ZA)
• **[DC17]**	a b c d	Aficio 2035 / 2035G Aficio 2045 / 2045G Aficio 2035e / 2035eG Aficio 2045e / 2045eG	(C--) (Us) (P--)(B+) (ZA)
• **[DC18]** (*2)		CL7000	(C+) (Us) (P--)(B+) (ZA)
• **[DC19]**	a b	Aficio 2090 Aficio 2105	(C--) (Us) (P--)(B+) (ZA)
• **[DC20]**	a b c	Aficio 2022 Aficio 2027 Aficio 2032	(C--) (Us) (P--)(B+) (ZA)
• **[DC21]**	a	AP400	(C--) (Us) (P--)(B+) (ZA)

	b c	AP400N AP410	
• **[DC22]**		AP600N	(C--) (U--) (P--)(B+) (ZA)
• **[DC23]**	K y z	Aficio 2228C Aficio 2232C Aficio 2238C	(C+) (Us) (P--)(B+) (ZA)
• **[DC24]**		CL7100	(C+) (Us) (P--)(B+) (ZA)
• **[DC25]**	a	CL1000N	(C+) (Us) (P--)(B+) (ZA)
• **[DC26]**	a b	CL4000DN CL4000HDN	(C+) (Us) (P--)(B+) (ZA)
• **[DC27]**	a b c	Aficio 2051 Aficio 2060 Aficio 2075	(C--) (Us) (P--)(B+) (ZA)
• **[DC28]**		AP610N	(C--) (Us) (P--)(B+) (ZA)
• **[DC29]**		AP410N	(C--) (Us) (P--)(B+) (ZA)
• **[DC30]**	b c	Aficio 3224C Aficio 3232C	(C+) (Us) (P--)(B+) (ZA)
• **[DC31]**	K a b	Aficio 3228C Aficio 3235C Aficio 3245C	(C+) (Us) (P--)(B+) (ZA)
• **[DC32]**	a b	Aficio 3260C Aficio Color 5560	(C+) (Us) (P--)(B+) (ZA)
• **[DC33]**		AP900	(C--) (Us) (P--)(B+) (ZA)
• **[DC34]**	a c	CL7200 CL7300	(C+) (Us) (P--)(B+) (ZA)
• **[DC35]**	b c d e f g	Aficio 2015 Aficio 2018 Aficio 2018D Aficio 2016 Aficio 2020 Aficio 2020D	(C--) (Us) (P+)(B+) (ZA)
• **[DC36]**	b c	Aficio 3035/3035G Aficio 3045/3045G	(C--) (Us) (P--)(B+) (ZA)
	e f	Aficio MP 3500 Aficio MP 4500	(C--) (U+) (P--)(B+) (ZA)
• **[DC37]**	b c	Aficio 3025 Aficio 3030	(C--) (Us) (P--)(B+) (ZA)
	e f	Aficio MP 2510 Aficio MP 3010	(C--) (U+) (P+)(B+) (ZA)
• **[DC38]**	a b c d e f	Aficio MP 9000 Aficio MP 1100 Aficio MP 1350 Pro 906EX Pro 1106EX Pro 1356EX	(C--) (U+) (P--)(B+) (ZA)
• **[DC39]**	a b c d e f	Aficio MP 5500 Aficio MP 6500 Aficio MP 7500 Aficio MP 6000 Aficio MP 7000 Aficio MP 8000	(C--) (U+) (P+)(B+) (ZA)
• **[DC40]**	a b L	Aficio SP C410DN Aficio SP C411DN Aficio SP C400DN	(C+) (U+) (P+)(B+) (ZA)
• **[DC41]**	a b	Aficio CL3500N Aficio CL3500DN	(C+) (Us) (P--)(B+) (ZA)
• **[DC42]**	a	Aficio MP C2500	(C+) (U+) (P+)(B+) (ZA)

	b k	Aficio MP C3000 Aficio MP C2000	
• **[DC43]**	c d	Aficio MP C3500 Aficio MP C4500	(C+) (U+) (P+)(B+) (ZA)
• **[DC44]**		Aficio SP 9100DN	(C--) (U+) (P+)(B+) (ZA)
• **[DC45]**		Aficio SP 8100DN	(C--) (U+) (P--)(B+) (ZA)
• **[DC46]**	b c	Aficio MP 1600 Aficio MP 2000	(C--) (U+) (P--)(B+) (ZA)
• **[DC47]**		Aficio SP C811DN	(C+) (U+) (P--)(B+) (ZA)
• **[DC50]**	b c L	Aficio SP 4100N Aficio SP 4110N Aficio SP 4100NL	(C--) (U+) (P+)(B+) (ZA)
• **[DC51]**		Aficio SP C420DN	(C+) (U+) (P+)(B+) (ZA)
• **[DC52]**	a b	Aficio MP C6000 Aficio MP C7500	(C+) (U+) (P+)(B+) (ZA)
• **[DC53]**	b c e f	Aficio MP 4000/4000B Aficio MP 5000/5000B Aficio MP 4001/4001G Aficio MP 5001/5001G	(Cg) (U+) (P+)(B+) (ZA)
• **[DC54]**	b c e f	Aficio MP 2550/2550B Aficio MP 3350/3350B Aficio MP 2851 Aficio MP 3351	(Cg) (U+) (P+)(B+) (ZA)
• **[DC55]**		Aficio MP 2500SP	(C--) (U+) (P--)(B+) (ZA)
• **[DC56]**		Aficio MP 161	(C--) (U+) (P--)(B+) (ZA) (*3)
• **[DC57]**		Aficio SP 8200DN	(Cg) (U+) (P+)(B+) (ZA)
• **[DC59]**		Aficio SP 4210N	(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	Aficio MP C2800/C2800G Aficio MP C3300/C3300G Aficio MP C3001/C3001G Aficio MP C3501/C3501G	(C+) (U+) (P+)(B+) (ZA)
• **[DC62]**	c d g h	Aficio MP C4000/C4000G Aficio MP C5000/C5000G Aficio MP C4501/C4501G Aficio MP C5501/C5501G	(C+) (U+) (P+)(B+) (ZA)
• **[DC63]**	a c d f La Lc	Aficio MP C2050 Aficio MP C2550 Aficio MP C2051 Aficio MP C2551 Aficio MP C2030 Aficio MP C2530	(C+) (U+) (P+)(B+) (ZA)
• **[DC64]**	c d	Aficio SP C820DN Aficio SP C821DN	(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	Aficio MP 6001 Aficio MP 7001 Aficio MP 8001 Aficio MP 9001	(Cg) (U+) (P+)(B+) (ZA)
• **[DC70]**	-- b	Aficio MP 171SPF Aficio MP 201SPF	(Cg) (U+) (P+)(B+) (ZA)
• **[DC72]**		Aficio SP 6330N	(Cg) (U+) (P+)(B+) (ZA)

• **[DC73]**	a b	Aficio MP C6501SP Aficio MP C7501SP	(C+) (U+) (P+)(B+) (ZA)
• **[DC74]**		Aficio GX e5550N	(C+) (Us) (P+)(Bs) (ZA)
• **[DC75]**	b	Aficio GX e3350N	(C+) (Us) (P+)(Bs) (ZA)
• **[DC76]**	a b	Aficio SP C430DN Aficio SP C431DN	(C+) (U+) (P+)(B+) (ZA)
• **[DC77]**	a b	Aficio MP C300 Aficio MP C400	(C+) (U+) (P+)(B+) (ZA)
• **[DC78]**		Aficio SP C320DN	(C+) (U+) (P+)(B+) (ZA)
• **[DC79]**	 f m	Aficio SP 5200S Aficio SP 5210SR Aficio SP 5210SF	(Cg) (U+) (P+)(B+) (ZA)
• **[DC80]**	a b	Aficio SP 5200DN Aficio SP 5210DN	(Cg) (U+) (P+)(B+) (ZA)
• **[DC81]**	a b c	Aficio MP 2352 Aficio MP 2852 Aficio MP 3352	(Cg) (U+) (P+)(B+) (ZA)
• **[DC82]**		Aficio SP 4310N	(Cg) (U+) (P+)(B+) (ZA)
• **[DC83]**	b c	Aficio MP 4002/4002G Aficio MP 5002/5002G	(Cg) (U+) (P+)(B+) (ZA)
• **[DC84]**	c d	Aficio MP C4502/C4502G Aficio MP C5502/C5502G	(C+) (U+) (P+)(B+) (ZA)
• **[DC85]**	a b	Aficio MP C3002/C3002G Aficio MP C3502/C3502G	(C+) (U+) (P+)(B+) (ZA)
• **[DC86]**	b c	Aficio SG 3110DN Aficio SG 3110DNw	(C+) (Us) (P+)(Bs) (ZA)
• **[DC87]**		Aficio MP C305SP	(C+) (U+) (P+)(B+) (ZA)
• **[DC88]**	a c e	Aficio MP 6002 Aficio MP 7502 Aficio MP 9002	(Cg) (U+) (P+)(B+) (ZA)
• **[DC89]**		Aficio MP 301	(Cg) (U+) (P+)(B+) (ZA)
• **[DC90]**		Aficio SG 3110SFNw	(C+) (Us) (P+)(Bs) (ZA)
• **[DC91]**		Aficio SP 8300DN	(Cg) (U+) (P+)(B+) (ZA)
• **[DC92]**	c d	Aficio SP C830DN Aficio SP C831DN	(C+) (U+) (P+)(B+) (ZA)
• **[DC93]**		Aficio 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]**		Aficio SG K3100DN	(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 SP 450DN	(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 SP 400DN	(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]**		MP C2011	(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 C5504/ex MP C6004/ex MP C2004/ex ~ MP C2094J/exJ MP C2504/ex ~ MP C2594J/exJ	(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 C5500 IM C6000 IM C2000 IM C2500	(C+) (U+) (P+)(B+) (ZA)
• **[DC136]**		P C600	(C+) (U+) (P+)(B+) (ZA)
• **[DC137]**		IM 2702	(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)
• **[DC142]**	**a** **b** **bF**	IM C300 IM C400 IM C400SR	(C+) (U+) (P+)(B+) (ZA)
• **[DC143]**	**k**	M C2001	(C+) (U+) (P+)(B+) (ZA)
• **[DC144]**	**a** **b**	IM C6500 IM C8000	(C+) (U+) (P+)(B+) (ZA)
• **[DC145]**	**a** **b** **aL**	Pro C5300S Pro C5310S Pro C5300SL	(C+) (U+) (P+)(B+) (ZA)
• **[DC146]**	**a** **b**	IM C530FB IM C530F	(C+) (U+) (P+)(B+) (ZA)
• **[DC147]**	**a** **c** **e**	IM 7000 IM 8000 IM 9000	(Cg) (U+) (P+)(B+) (ZA)
• **[DC151]**	**c** **d** **e** **f** **g** **h**	IM 2500 ~ IM 2509J IM 3000 ~ IM 3009J IM 3500 ~ IM 3509J IM 4000 IM 5000 IM 6000	(Cg) (U+) (P+)(B+) (ZA)

Note: (*1)
The following tags are used to describe particular features of the model ((...**+**) = supported/present, (...**--**) = not supported/present).
- (**C**x) = Color support: (**C--** = b&w (cannot handle color data); **Cg** = b&w (converts color data to grayscale); **C+** = color)
- (**U**x) = Unicode support
    (**Us** = supported by SAP Unicode Printing Enhancement (UPE) function, details in SAP Note 1812076;
     U+ = supported by RICOH Andale font)
- (**P**x) = POSS support confirmed and documented in Volume 3 (Print Options for SAPscript and Smartforms)
- (**B**x) = 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)
- (**Z**m) = 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.