

Technical Report

ROM UPGRADE..... (2)

Caution for firmware upgrade

- If upgrading from the version 0200W300_25051400 or earlier you won't be able to restore original version.
- 0210W300_25101000 is the common firmware for BP-C542PW/C545PW, BP-B547PW/B550PW and BP-FR12U

1. Model Name:

BP-C542PW/C545PW, BP-B547PW/B550PW,
BP-FR12U (Option for BP-C542PW/C545PW, BP-B547PW/B550PW)

2. Description:

Upgrade of ICU, PCU and PCU_BW-ROM

From December 2025 production					
Model	ROM Control No.	BUNDLE	ICU	PCU	PCU_BW
BP-C545PW BP-C542PW	B01	0210W300_ 25101000	0210W300	0402M300	-
BP-B550PW BP-B547PW	B01			-	0402m300
BP-FR12U	-		0210Wd00	0402M300	0402m300
Notification	- Last 8-digit of BUNDLE version is displayed when updating the firmware in the field. Factory default is fixed to 00000000.				
Item of change	- See page 2.				

ROM Version History Table

No.	ROM Control No.	BUNDLE	ICU	PCU	PCU_BW	Action	T/R No.
(1)	B00 B00	0200W300_ 25051400	0200W300	0401M300	0401m300	Jun.2025	CCE-3315

Item of change

No.	Item	Detail
1	Specification	<p>Added a feature which prohibits auto installation of PSA app to Advanced Settings as listed below: [System Settings] > [System Control] > [Advanced Settings] ID: 00071 Print Support App Setting</p> <ul style="list-style-type: none"> - Disable Print Support App OFF (Default) ON
2	Specification	<p>Added a feature which disables status notifications such as Completed, Error, Stopped, and Cancelled for AirPrint (IPP) jobs and Universal Print (IPP INFRA) jobs to Advanced Settings as listed below: [System Settings] > [System Control] > [Advanced Settings] ID: 00072 IPP/IPP INFRA Job Status Notification Setting</p> <ul style="list-style-type: none"> - Disable IPP/IPP INFRA job Status Notifications OFF (Default) ON
3	Specification	<p>Added a feature which changes endpoint for Microsoft services to Advanced Settings as listed below:</p> <ul style="list-style-type: none"> - Endpoint EP0 For worldwide EP1 For GCC High (For Government Community Cloud High) <p>[System Settings] > [System Control] > [Advanced Settings] ID: 00073 Endpoint Settings for Microsoft Services</p> <ul style="list-style-type: none"> - Endpoint EP0 (Default) EP1 - Tenant ID - Client ID (Universal Print)
4	Specification	<p>Added a feature which stores syslog in the audit log to Advanced Settings as listed below: [System Settings] > [System Control] > [Advanced Settings] ID: 00074 Extended Audit Log Setting</p> <ul style="list-style-type: none"> - Enable Extended Audit Log OFF (Default) ON
5	Specification	<p>Added a feature to enable/disable the SNMP GETBULK command to Advanced Settings as listed below: [System Settings] > [System Control] > [Advanced Settings] ID: 00075 SNMP GETBULK Setting</p> <ul style="list-style-type: none"> - Enable SNMP GETBULK command On (Default) Off <p>* Default is [Off] for Europe/UK only.</p>
6	Main unit control	<p>Fixed a bug which prohibits disabling of operational verification after setting [System Settings] > [Security Settings] > [SSL/TLS Settings] > [Verify Signature of Server Certificate of the Other Party] to [OFF].</p>
7	Main unit control	<p>Fixed a problem where E7-04 (SSD-ASIC error DSK) may occur during the erasure process when a job is completed.</p>
8	Main unit control	<p>(BP-C542PW/C545PW, BP-FR12U only) Fixed a problem where E7-93 (Copy, Image Send, FAX, Filing, Print Image Data Process Error) could occur when previewing CMYK-RIP printer data in Document Filing.</p>

No.	Item	Detail
9	Main unit control	Fixed a bug where remote firmware updates may have failed when virus scanning was enabled.
10	Main unit control	Fixed a bug where the screen would remain dark without displaying anything even when the power button was pressed during energy save mode (with main power lamp flashing yellow).
11	Main unit control	Fixed a bug where MIB/IPP fails to notify paper availability information while paper is loaded to each tray.
12	Main unit control	(BP-C542PW/C545PW, BP-FR12U only) Changed the BK drum reverse/forward rotation time when the value in SIM55-1, SW17, Data 8 is set to [1]. * This Soft SW changes the rotation control of the BK drum in order to prevent poor image quality (white streaks) when similar print patterns tend to be used frequently or when printing is concentrated in the same location.
13	Main unit control	(BP-C542PW/C545PW, BP-FR12U only) Fixed a bug where toner output correction deviates while switching jobs, resulting in image quality failure due to over-toner.
14	Main unit control	Fixed a bug where importing Address Book (without any entry) from Synappx Manage sometimes ends up with an error.
15	Main unit control	(For Europe/UK only) Fixed a bug where a keyboard did not appear on admin approval screen before entering SIM, preventing password entry while OSA external authentication is enabled.
16	Main unit control	(For Europe/UK only) Fixed an error which may have occurred when the buffer used to read the character string serves as a reset key from a file to execute admin password reset to comply with RED was not initialized
17	Main unit control	Fixed a bug where the device freezes while operating [System Settings] > [Network Settings] > [Universal Print Settings].
18	Printer	(BP-C542PW/C545PW, BP-FR12U only) Fixed a bug which takes too long for printing when POP data with high density of RGB are printed via PS driver.
19	Printer	Fixed a bug with Universal Print where the job queue on the PC kept displaying "Pending for authentication" and the job was not printed.
20	Printer	Fixed a bug where printing would fail when sending via IPPS communication from a device with Android version 12 or later, and subsequent jobs (including jobs from Sharp Print Service Plugin to RAW port) would not be able to print.
21	Printer	Fixed a bug where jobs sent from iOS 18 using AirPrint may not be cancelled.
22	Printer	Fixed a bug where MFP may freeze while printing when large amount of jobs are sent from PC in series.
23	Image Send	SMB file sharing occasionally fails with BUNDLE: 0200W300 depends on the designated content of user name in SMB address (address for transmission to shared folder) Implemented retry procedure assigning a domain name when authentication fails. * Basically, designate a user name with domain name if the account designated as SMB address is a domain user. E.g. In case of [domain: domain.example.com] and [User name: username]: Please designate with either format: User name: domain/username User name: username@domain.example.com

No.	Item	Detail
24	Image Send	Fixed a bug where the creation date and time of the created file may be incorrect when using an NTFS formatted USB memory for Scan To USB.
25	Image Send	SMTP timeout setting can now be set to 300 sec. because network communication error may occur under the environment where response of SMTP server is slow even though e-mail transmission is successful. * How to set SMTP timeout to 300 seconds: Go to [System Settings] > [Network Settings] > [Service Settings] and set [SMTP] > [Timeout] to "0 sec" among 0 - 60 seconds.
26	Network	Fixed a bug where the IP address was not set correctly and communication was prohibited after an automatic restart due to 20 days of continuous operation.
27	Network	Fixed a bug in Synappx Manage where MIB could not be obtained while SNMPV1 was disabled.

Technical Report

ROM UPGRADE..... (1)

SMB file sharing may fail after upgrading the firmware as described in this report.
Please refer to end of this report and take appropriate action in case of such failure.

Caution for firmware upgrade

- If upgrading from the version 0100W300_00000000 or earlier you won't be able to restore original version.
- 0200W300_25051400 is the common firmware for BP-C542PW/C545PW, BP-B547PW/B550PW and BP-FR12U

1. Model Name:


BP-C542PW/C545PW, BP-B547PW/B550PW,
BP-FR12U (Option for BP-C542PW/C545PW, BP-B547PW/B550PW)

2. Description:

Upgrade of ICU, PCU, PCU_BW-ROM and E-Manual

From June 2025 production						
Model	ROM Control No.	BUNDLE	ICU	PCU	PCU_BW	E-Manual
BP-C545PW BP-C542PW	B00	0200W300_ 25051400	0200W300	0401M300	-	0110M3A0
BP-B550PW BP-B547PW	B00			-	0402m300	
BP-FR12U	-		0200We00	0401M300	0402m300	
Notification	- Last 8-digit of BUNDLE version is displayed when updating the firmware in the field. Factory default is fixed to 00000000.					
Item of change	- See page 2.					

Item of change

No.	Item	Detail
1	Specification	<p>(For Europe/UK only)</p> <p>Changed firmware to comply with Radio Equipment Directive (RED) in Europe.</p> <p>Related materials: Security Requirements Support EU Radio Equipment Directive Security</p>
2	Specification	<p>Changed TLS/Kerberos cipher suites.</p> <p>In addition, a feature to enable/disable legacy cipher suites is implemented to Advanced Settings.</p> <p>Go to [System Settings] > [System Control] > [Advanced Settings]</p> <p>ID: 00048 TLS/Kerberos Cipher Suites</p> <ul style="list-style-type: none"> - Enable Legacy Cipher Suites for TLS - Enable Legacy Cipher Suites for Kerberos Enable (default) Disable <p>*Refer to the separate sheet for details of cipher suites allowed.</p> <p>*Default is [Disable] for Europe/UK only.</p> <p>The default is [Enable] if this firmware is installed to the devices already operating.</p>
3	Specification	<p>Added a function in Advanced Settings to set domain controller for connection under the environment where multiple domain controllers are operating for AD (Active Directory) authentication.</p> <p>[System Settings] > [System Control] > [Advanced Settings]</p> <p>ID: 00056 Domain Controller Setting</p>
4	Specification	<p>Migrated following Simulations to Advanced Settings:</p> <p>SIM46-23 (Density Correction of Copy High Density Section)</p> <p>SIM67-34 (Density Correction in Printer High Density Section)</p> <p>A: CMY</p> <ul style="list-style-type: none"> 0: Engine Highest density correction mode: Enable (default) 1: Engine Highest density correction mode: Disable <p>B: BK</p> <ul style="list-style-type: none"> 0: Engine Highest density correction mode: Enable (default) 1: Engine Highest density correction mode: Disable <p>[System Settings] > [System Control] > [Advanced Settings]</p> <p>ID: 00068 Maximum Density Adjustment Mode</p> <p>Target: Copy</p> <p>Target: Print</p> <ul style="list-style-type: none"> •CMY <ul style="list-style-type: none"> ON (default) OFF •BK <ul style="list-style-type: none"> ON (default) OFF
5	Specification	<p>Notification icon [i] mark blinks if new firmware update is available.</p> 
6	Specification	<p>The [Cancel] and [OK] keys for confirmation of remote firmware update [Perform Firmware Update?] is changed as below:</p> <ul style="list-style-type: none"> - In case the time for update in auto mode comes [Later] [Update Now] - In case of tapping on the notification message in auto mode/admin mode, or pressing [i] key on machine information [Close] [Update Now]

No.	Item	Detail
7	Specification	(Only for Europe, UK and Australia) Display of check box for Terms and Conditions/confirmation of agreement after changing System Settings > System Control> Firmware Update Settings from [Disable] to [Automatic Mode] or [Admin Mode]
8	Specification	Implemented support for NTP server V2.
9	Specification	Changed communication between MFP and Universal Print server from polling method to notification method (which a notification is sent immediately if there is any event).
10	Specification	<ul style="list-style-type: none"> - Following items are removed from service web page (service_login.html): User Control 2 Job Log Save/ Delete Syslog Test Playback - Following item is removed from FSS web page (fss.html): User Control
11	Specification	<p>A feature which verifies signature on OSA application is implemented to: [System Settings] > [Sharp OSA Settings] > [Condition Settings]</p> <ul style="list-style-type: none"> - Embedded OSA Application Signature Verification Install when Verification is Success Check when Verification Failed Not Verify (Default)
12	Specification	<p>Followings are added to [System Settings] > [Network Settings] > [Service Settings] > [SMB] > [SMB Settings (server)]</p> <ul style="list-style-type: none"> - Encrypted Communications Setting Encrypt Follow Encryption Comm. Method - Authentication Method NTLMv2 NTLMv1/LM
13	Specification	<p>Followings are added to [System Settings] > [Network Settings] > [Service Settings] > [SMB] > [SMB Settings (Client)]</p> <ul style="list-style-type: none"> - Encrypted Communications Setting Encrypt Follow Encryption Comm. Method - Authentication Method Kerberos NTLMv2 NTLMv1 LM

No.	Item	Detail
14	Specification	<p>[System Settings] > [Network Settings] > [Service Settings] > [SNMP] > [SNMP v3 Settings] is changed to followings:</p> <ul style="list-style-type: none"> - Authentication Key: <ul style="list-style-type: none"> MD5 SHA-1 SHA-224 SHA-256 (New default) SHA-384 SHA-512 - Privacy Key: <ul style="list-style-type: none"> DES AES AES-192C AES-256C (New default) AES-192 AES-256
15	Main unit control	Fixed a bug which takes about 5 minutes to delete files when large amount of file in Document Filing is deleted while thumbnail is enabled.
16	Main unit control	Fixed a problem with importing some data during device cloning.
17	Main unit control	Fixed freeze of MFP which may occur while trying to access from MacOS to NAS for main unit through SMBv1.
18	Main unit control	Fixed a display of improper message "network failure, could not access server" which may appear after executing virus scan with virus detection kit BP-VD10.
19	Main unit control	<p>(BP-C542PW/C545PW, BP-FR12U only)</p> <p>Fixed drum jam which may occur if a job stopped while detecting toner drop.</p>
20	Main unit control	<p>(BP-B547PW/B550PW, BP-FR12U only)</p> <p>Fixed P_ON JAM which may occur at next power on after the POD1 sensor remained on while A4 size paper is being printed 2-sided.</p>
21	Main unit control	<p>(BP-B547PW/B550PW, BP-FR12U only)</p> <p>Changed transfer cleaning control aimed to prevent image failure (dirt on edge).</p>
22	Printer	Fixed machine freeze displaying "Please wait." which may occur if same file is deleted while printing the data with Print-Hold.
23	Printer	<p>Fixed improper reboot of MFP which occurred in the following steps:</p> <ol style="list-style-type: none"> 1. Perform printing selecting a file from Document Filings > FTP. 2. Unable to make connection while trying to access to FTP server with IPv6 address. 3. MFP reboots.
24	Printer	Fixed a bug which takes too long to receive data or MFP locks up if the data are printed from iOS18 using AirPrint.
25	Image Send	Fixed F6-00 (SCN MFP PWB - FAX Communication Error) which may occur if unexpected packet arrives multiple times.
26	Image Send	Fixed an error which may occur when scan data is sent designating a host name on SMB server while using the scan from Amazon web service.
27	OSA	Fixed missing image which occurs while copying A4 original to A5R paper with 8 in 1 in OSA.

Allowed Cipher Suites

	Enable (default)	Disable
Enable Legacy Cipher Suites for TLS	- TLS 1.2 (Encrypted communication) TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 TLS_ECDHE_ECDSA_WITH_AES_256_GCM_SHA384 TLS_RSA_WITH_AES_128_CBC_SHA TLS_RSA_WITH_AES_256_CBC_SHA TLS_RSA_WITH_AES_128_CBC_SHA256 TLS_RSA_WITH_AES_256_CBC_SHA256 TLS_ECDHE_ECDSA_WITH_AES_128_CBC_SHA256 TLS_ECDHE_ECDSA_WITH_AES_256_CBC_SHA384 TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA256 TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384	- TLS 1.2 (Encrypted communication) TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 TLS_ECDHE_ECDSA_WITH_AES_256_GCM_SHA384
	- TLS 1.3 (Encrypted communication) TLS_AES_128_GCM_SHA256 TLS_AES_256_GCM_SHA384 TLS_CHACHA20_POLY1305_SHA256	- TLS 1.3 (Encrypted communication) TLS_AES_128_GCM_SHA256 TLS_AES_256_GCM_SHA384
	- TLS 1.2 (OSA browser) TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 TLS_ECDHE_ECDSA_WITH_AES_256_GCM_SHA384 TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 TLS_RSA_WITH_AES_128_GCM_SHA256 TLS_RSA_WITH_AES_256_GCM_SHA384 TLS_ECDHE_ECDSA_WITH_CHACHA20_POLY1305_SHA256 TLS_ECDHE_RSA_WITH_CHACHA20_POLY1305_SHA256 TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA TLS_RSA_WITH_3DES_EDE_CBC_SHA TLS_RSA_WITH_AES_128_CBC_SHA TLS_RSA_WITH_AES_256_CBC_SHA	- TLS 1.2 (OSA browser) TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 TLS_ECDHE_ECDSA_WITH_AES_256_GCM_SHA384 TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 TLS_RSA_WITH_AES_128_GCM_SHA256 TLS_RSA_WITH_AES_256_GCM_SHA384
	- TLS 1.3 (OSA browser) TLS_AES_128_GCM_SHA256 TLS_AES_256_GCM_SHA384 TLS_CHACHA20_POLY1305_SHA256	- TLS 1.3 (OSA browser) TLS_AES_128_GCM_SHA256 TLS_AES_256_GCM_SHA384 TLS_CHACHA20_POLY1305_SHA256
Enable Legacy Cipher Suites for Kerberos	- Kerberos ETYPE-AES256-CTS-HMAC-SHA1-96 ETYPE-AES128-CTS-HMAC-SHA1-96 ETYPE-DES3-CBC-SHA1 ETYPE-DES3-CBC-MD5 ETYPE-RC4-HMAC-MD5	- Kerberos ETYPE-AES256-CTS-HMAC-SHA1-96 ETYPE-AES128-CTS-HMAC-SHA1-96

How to solve the failure to execute SMB file sharing under domain environment

SMB file sharing may fail affected by the change described in #13 depends on the designated content of user name in SMB address (address for transmission to shared folder). Please see below and take appropriate action in such case:

[Occurrence Condition]

The account designated for SMB address is a domain user.

[Countermeasure]

Change user name of the account (designated for SMB address) to include domain name.

E.g. In case of [domain: domain.example.com] and [User name: username]:

[Information currently registered]

User name: username

[Information registered after change (either one of below)]

User name: domain/username

User name: username@domain.example.com

You don't have to register again if the user name has been registered with above format.