

**Brief overview New webOS23 Simplified In-Start Menu, Power On/Off Status screens:  
(For possible Codes and details, see next 7 pages).**

First digits	Meaning	Description
0x	Normal operation	Remote_On (01) / Off (02), Local Key On (03) / Off: (04), Quick_Start On (05) / Off (06), etc.
1x	Power on/off	AC_DET: 11, Last_Power_On: 13, Last_Warm/EDID_Write: 14/15, etc.
2x	External device/network	CEC On (21) / Off (22), WOL: 23, WOW: 24, WOBLE: 25, IOT device: 26/27, etc.
3x	Customer's usage scene	Delay start: 31/32, Record, etc.: 33/34/35/36, Routine: 38/39, Family Care: 3B, No signal/ No control: 3C/3D/3E, RESET: 3G/3H/3J, etc. (N/A)
4x	App / CP	Netflix: 41, Amazon: 42, Disney Plus: 44, etc
5x	SW Update	Software Update Related
6x	System Error	After updating SW to the latest version. Check and replace Main B/D if necessary.
7x	AR/AOD	Records history during AR/AOD operation (No Error Codes), (N/A)
8x	WOV	Wake on Voice. check the 'Voice Recognition Settings' menu on the TV (Turn it off or adjust the sensitivity setting, etc.
9x	Specific country	Specific countries only (satellite, disaster, etc. (N/A))
Bx	OLED (BDP)	Burn Detection Panel Check/ replace OLED module
Cx	OLED (compensation)	If it records normal operation, but a message related to compensation is displayed continuously, check and replace the OLED module.
Dx	OLED (others)	Check the connected cable between T-CON and MAIN B/D and check the condition of the fan/heat sink in T-CON.
Lx	Lifestyle	If it says normal operation, but a message related to temperature sensor/battery is continuously displayed, check and replace the battery. (High temperature battery: L1, Low capacity battery: L2, etc.)
Rx	A+	N/A
Mx	Wireless model	Check the power cord connection between Display and Box and check if any object disrupts the wireless signal
Fx	Process/SVC	(In-Stop: F1, Power Only: F2/F3, etc)
XX	Initial value	Initial Value

# “Power ON/Off Status” Details (1 of 7)

SVC Menu Text Code	History	String	Description
01	ON_BY_REMOTE_KEY	remoteKey	Phrase left while performing the power on operation by the remote control
02	OFF_BY_REMOTE_KEY	remoteKey	Phrase left when using the remote control to perform power off
03	ON_BY_LOCAL_KEY	localKey	Phrases left while performing a Power On operation using the Local Key
04	OFF_BY_LOCAL_KEY	localKey	Phrase left when performing a power off operation by the local key instead of the remote control
05	ON_BY_QUICK_START	quickStart	When powering off after 12 hours of cumulative viewing time under QSM+ On conditions, the phrase left while performing the Self Refresh operation internally
06	OFF_BY_QUICK_START	quickStart	When powering off after 12 hours of cumulative viewing time under QSM+ On conditions, the phrase left while performing the Self Refresh operation internally
07	OFF_BY_WARMCHECK	warmCheckOff	A phrase left when Power Off after performing an action to check if switching to WARM status is required during Power Off
08	ON_BY_REBOOT_ONREGULAR	rebootByOnRegular	When DC off after using the TV for a long time (Standard: 12H, Advanced: 24H), the phrase left while rebooting after waiting in Warm for 1 minute to stabilize the system
09	OFF_BY_REBOOT_ONREGULAR	rebootByOnRegular	When DC off after using the TV for a long time (Standard: 12H, Advanced: 24H), the phrase left while rebooting after waiting in Warm for 1 minute to stabilize the system
11	OFF_BY_ACDET	acFailure	A phrase left when the AC power is shaken and the TV is reset (However, in the case of M3R/K5LP model, the phrase is left even if it is rebooted after Micom SW Update)
12	OFF_BY_5VMNT	5vFailure	When performing a relay power stability check during DC on, if the POWER_DET (AC_DET) power supply is unstable, the phrase left while performing power off
13	ON_BY_LAST_POWERON	lastPowerOn	When Auto Reboot by AC power in the status of the TV being watched, the phrase left when the TV is turned on
14	ON_BY_LAST_WARM	lastWarm	Phrase left when waking up with WARM to download EDID after AC Off/On (new function corresponding from WebOS 3.5)
15	OFF_BY_EDID_WRITE	edidWrite	The phrase left while performing the power off operation when the EDID data download is completed
16	ON_BY_LAST_SUSPEND	lastSuspend	Phrase left when performing a power on operation in Suspend mode
21	ON_BY_HDMI_CEC	hdmiCec	Phrase left when performing Sync Power On operation by CEC equipment
22	OFF_BY_HDMI_CEC	hdmiCec	Phrase left when power off by HDMI CEC command
23	ON_BY_WOL_ONOFF	wakeOnLan	A phrase left when performing a power on operation from an external device through wired NetWork (Wake On Lan)
24	ON_BY_WOW_ONOFF	wakeOnWiFi	A phrase left when performing a power on operation from an external device through wireless NetWork (Wake On WIFI)
25	ON_BY_WOBLE	wakeOnBle	Phrases left while performing power on using Bluetooth
26	ON_BY_WEAVE	weave	Phrases left while performing a power on operation by IOT equipment
27	OFF_BY_WEAVE	weave	A phrase left while performing a power off operation by an IOT device
28	OFF_BY_DIAL	dial	Phrases left while powering off the TV using dail
29	OFF_BY_IOT_MACRO	iotMacro	A phrase left while powering off the TV using iot equipment
31	ON_BY_ON_TIMER	onTimer	A phrase left while performing a power on operation by the On Timer
32	OFF_BY_OFF_TIMER	offTimer	The phrase left while performing power off at the time in the status where the Off Timer is registered
33	ON_BY_RESERVE (Not Used US)	reserve	Phrases left while performing a Power On action at the scheduled recording setting time
34	ON_BY_REMIND	remind	Phrase left while performing the Power On action at the time when you set the scheduled viewing
35	OFF_BY_RECEND (Not Used US)	stopRecording	Phrase left when power off is performed after recording is completed (The condition that WARMStatus performs recording by Power Off during recording, and Power Off again when it is completed)
36	OFF_BY_RESREC (Not Used US)	schedRecord	Phrase left when power off is performed after scheduled recording is completed (The condition that COLD Status wakes up to perform the recording at the scheduled recording time, and when it is completed, it is power-off again.)
37	OFF_BY_SLEEP_TIMER	sleepTimer	A phrase left while powering off at that time in the status where the Sleep Timer is registered
38	OFF_BY_ROUTINE	routine	Phrase left when power off by routine off timer
39	ON_BY_ROUTINE	routine	Phrases left at the time of Power On by routine on timer

## “Power ON/Off Status” Details (2 of 7)

OLED42C3PUA (2023) In-Start Menu

SVC Menu Text Code	History	String	Description
41	ON_BY_NETFLIX	netflix	Phrases left behind while performing Power On with Netflix Hotkey
42	ON_BY_AMAZON	amazon	Phrases left behind while performing power on with Amazon Hotkey
43	ON_BY_IVI	ivi	A phrase left behind while performing a power on with IVI Hotkey, a Russian CP
44	ON_BY_DISNEY_PLUS	disneyplus	Phrase to leave when Power On with the DISNEY PLUS CP hotkey on the remote control
45	ON_BY_LG_CHANNELS	lgchannels	Phrase left when Power On with the LG CHANNELS CP hotkey on the remote control
46	ON_BY_RAKUTEN_TV	rakutentv	Phrase left when Power On with the RAKUTENTV CP hotkey on the remote control
47	ON_BY_GLOBOPLAY	globoplay	Phrase left when Power On with the GLOBOPLAY CP hotkey on the remote control
48	ON_BY_OKKO	okko	Phrase to leave when Power On with the OKKO CP hotkey of the remote control
49	ON_BY_KINOPOISK	kinopoisk	Phrase left when Power On with the KINOPOISK CP hotkey of the remote control
51	ON_BY_SWDOWN	swDownload	A phrase that performs and completes the SW update and leaves a message while automatically rebooting
52	OFF_BY_SWDOWN	swDownload	A phrase that performs and completes the SW update and leaves a message while automatically rebooting
53	ON_BY_OTA	ota	A phrase left while performing a power on operation to perform SW update through OTA
54	OFF_BY_OTA	ota	The phrase left when SW update via OTA is performed and the power off is performed after completion
55	ON_BY_LLS_RECOVERY	llsRecoveryOn	When LLS Fail occurs, the phrase left when the power is turned on when automatic reboot for recovery operation
56	OFF_BY_LLS_RECOVERY	llsRecoveryOff	When LLS Fail occurs, the phrase left when the power is turned off at the time of automatic reboot for recovery operation
57	ON_BY_LLS_UPDATE	llsUpdateOn	After the LLS update is completed, the phrase left when the power is turned on when automatic reboot is completed
58	OFF_BY_LLS_UPDATE	llsUpdateOff	After LLS Update is completed, the phrase left when the power is turned off when automatic reboot is completed
59	OFF_BY_MICOM_UPDATE	micomUpdate	Phrase left while performing the power off operation after Micom Update
61	ON_BY_CPU_ABNORMAL	cpuAbnormal	A phrase left while performing a power on operation when the CPU reboots from an abnormal status
62	OFF_BY_CPU_ABNORMAL	cpuAbnormal	If the main SoC is in abnormal status, perform a power off with Micom Phrase left on request
63	OFF_BY_NO_POLLING	noPolling	If there is a problem that the communication between the Micom Thread and Micom of the Main SoC is disconnected for more than 15 seconds, Phrases left while performing Auto Reboot for original clothes (only works in Release Mode)
64	OFF_BY_KEYTIMEOUT	keyTimeout	After the Power Off request, Main fails to send the Power Off Complete Message or Delay Command (8 seconds extension) for a certain period of time (8 seconds). Phrase when Micom forces a power-off action
65	OFF_BY_1SEC_POWER_OFF	1secPowerOff	If the power key is authorized by the user in a status where the communication between the Micom Thread and Micom of the main SoC is disconnected for more than 7 seconds, The phrase that Micom leaves behind while performing a forced power off
66	OFF_BY_ABN	abnormal	Phrases left when performing an abnormal power off operation by the following two cases Case 1: When a Booting Fail occurs (Pipe Line Overflow occurs) Case 2: Resume Fail occurs and reboot is performed, but Main cannot boot normally
67	OFF_BY_RESUME_FAIL	resumeFail	A phrase left while performing Auto Reboot when the resume operation is abnormal when Power On is on under QSM+ On
68	ON_BY_REBOOT_FAULT	rebootByFault	Phrase left while rebooting when DC off after a fault occurs for SoC system fault recovery
69	OFF_BY_REBOOT_FAULT	rebootByFault	Phrase left while rebooting when DC off after a fault occurs for SoC system fault recovery

## “Power ON/Off Status” Details (3 of 7)

OLED42C3PUA (2023) In-Start Menu

SVC Menu Text Code	History	String	Description
71	OFF_BY_AOD_30SEC	aod30sec	A phrase that leaves an AOD app while running in black and turning it off after 30 seconds
72	OFF_BY_AUTO_OFF_AOD_TIMER	autoOffByAoDTimer	A phrase that is automatically turned off after 1 hour in the AOD app
73	ON_BY_WARM_AOD_ONTIMER	warmByAODOnTimer	Phrase left when switching AOD by the AOD On Scheduling function in Always Ready Status
74	ON_BY_AOD_BT	onAoDByBT	A phrase that is left as an automatic power on when BT is connected in Always Ready Status
75	ON_BY_AOD_NOTI	onAoDByNoti	When an IoT notification is recognized in Always Ready Status, the phrase left by automatically powering on
76	ON_BY_AOD_OK_KEY	onAoDByOKKey	A phrase left when the OK key is entered in Always Ready Status and executed as AOD Status
77	ON_BY_AOD_ON_TIMER	onAoDByOnTimer	A phrase left when the AOD app starts time in Always Ready Status when Power On
78	ON_BY_AOD_TEST	onAoDByTest	Phrase left when running AOD app black in Always Ready Status (for test)
79	ON_BY_AOD_TIME_SCREEN	onAoDByTime	A phrase left when Power on the watch face when motion is recognized by the motion sensor in Always Ready Status
81	ON_WOV_START	warmByWov	Phrases left behind if you wake up to WARM by WOV ("Hi LG")
82	ON_WOV_SUCCESS	powerOnByWov	Phrases left behind if you are awakened to HOT by WOV ("Turn on the TV")
83	OFF_BY_WOV_VOICE	voice	Phrase left by WOV ("Hi LG, turn off the TV") while performing the Power Off operation
84	OFF_BY_WOV_TIMEOUT	powerOffByWov	A phrase left by WOV ("Turn on the TV") when it is not confirmed in time and performs a power off operation with SUSPEND again.
85	ON_BY_VOICE	voice	Phrases left when Power On with voice recognition function
86	ON_BY_VOICE_WOV	voiceByWov	Phrases left when Power On with remote voice recognition function
87	OFF_BY_VOICE_WOV	voiceByWov	Phrases left when power off with remote voice recognition function
91	OFF_BY_CIPPLUS_SEARCH_END	ciPlusSearchEnd	Phrases left while completing a CI Plus operation and performing Power Off
92	ON_BY_OPERATOR_SEARCH_TIMER	ciPlusSearchTimer	Phrases left while performing Power On at the time reserved for CI Plus operation
93	ON_BY_EITTIMER	eitTimer	Phrase left while performing the power on operation by EIT Timer (Japan Only)
94	OFF_BY_EIT_TIMER	eitTimerStart	A phrase left while starting an action to get EIT data information from WARMStatus (Japan Only)
95	OFF_BY_EIT_TIMER_END	eitTimerEnd	A phrase that leaves the operation to get EIT data information from WARMStatus (Japan Only)
96	OFF_BY_EMM_RECEPTION	emmReceptionStart	A phrase left while starting an action to get EMM data information from WARMStatus (Japan Only)
97	OFF_BY_EMM_RECEPTION_END	emmReceptionEnd	A phrase that leaves the operation to get EMM data information from WARMStatus (Japan Only)
98	OFF_BY_IEPG	iepg	A phrase left when the IEPG operation is performed when the power off is performed after the EIT operation for Japan is completed, and the power off is activated.
99	ON_BY_CH_UPDATE_TIMER	channelUpdate	Phrases left while performing Power On at the time of updating channel information (Italy/UK Only)
0A	ON_BY_TOT	totTimer	A phrase left while performing Power On to perform a TOT (Time Of Table) operation when the time information is updated
0B	OFF_BY_TOT	totTimerEnd	Phrases left while completing a TOT (Time Of Table) operation and performing Power Off
0C	OFF_BY_REBOOT_ARREGULAR	rebootByARRegular	Phrase to reboot every 6 hours to stabilize the system in Always Ready Status
0D	ON_BY_REBOOT_ARREGULAR	rebootByARRegular	Phrase to reboot every 6 hours to stabilize the system in Always Ready Status
0E	OFF_BY_POWERSOUND	powerSound	Phrase left when performing a sound operation during power off
0F	OFF_TO_ACTIVE_STANDBY	powerOffToWarmStandBy	When requesting Power Off, the phrase left when entering the Warm (Active) Standby before entering Cold/Suspend

## “Power ON/Off Status” Details (4 of 7)

OLED42C3PUA (2023) In-Start Menu

SVC Menu Text Code	History	String	Description
3A	ON_BY_HOMEKIT_ONTIMER	homekit	Phrases left by homekit on timer when Power On
3B	OFF_BY_FAMILY_CARE	familycare	Phrase left when power off with viewing restriction function
3C	OFF_BY_AUTO_OFF	autoOff	A phrase that is left while automatically powering off when there is no key input for 15 minutes with no signal status or 2 hours with screen mute status
3D	OFF_BY_ON_TIMER	onTimer	If there is no key input for 2 hours after the power is turned on by the On Timer, the phrase is left while automatically performing the power off.
3E	OFF_BY_NOSIGNAL	nosignal	Phrase left while performing the power off operation by No Signal
3F	OFF_BY_WARMWAIT	offByWarmWait	If you stay in Active Standby for a long time, after 4 hours, make a reservation and confirm with the broadcasting service and force the power off
3G	OFF_BY_RESET	reset	Phrase left when performing a Reset request from Main to Micom
3H	ON_BY_MICOM_PWR_OFF_ON	micomPower	Phrase left when Micom performs a reboot operation (micom Reboots by PLL_FAIL / COMP_FAIL / RESET and so on.
3J	OFF_BY_MICOM_RESET	micomReset	When a Reset request is made from Main, the phrase left while performing the Auto Reboot operation (User Reset / Factory Reset, etc.)
4A	ON_BY_WATCHPLAY	watchplay	The phrase left when Power On with the WATCHPLAY CP hotkey on the remote control
4B	ON_BY_UNEXT	unext	Phrase left when Power On with the UNEXT CP hotkey of the remote control
4C	ON_BY_HOTSTAR	hotstar	Phrase left when Power On with the HOTSTAR CP hotkey on the remote control
4D	ON_BY_SHAHID	shahid	Phrase left when Power On with the SHAHID CP hotkey of the remote control
4E	ON_BY_FPTPLAY	fptplay	Phrase left when Power On with the FPT PLAY CP hotkey of the remote control
4F	ON_BY_SLINGTV	slingtv	Phrase left when Power On with SLINGTV CP hotkey on the remote control
4G	ON_BY_WAVVE	wavve	Phrase to leave when Power On with WAVVE CP hotkey on the remote control
4H	ON_BY_COUPANGPLAY	coupangplay	Phrase left when Power On with COUPNGPLY CP hotkey on the remote control
4J	ON_BY_STAN	stan	Phrase left when Power On with the STAN CP hotkey of the remote control
4K	ON_BY_TVER	tver	Phrase left when Power On with the TVER CP hotkey on the remote control
4L	OFF_BY_BNOPOWERKEY	bnoPower	Phrase left when power off by the bnoPower key
5A	ON_BY_FRC_DOWNLOAD	frcDownload	Phrase left when performing automatic reboot operation after frcDownload
5B	OFF_BY_FRC_DOWNLOAD	frcDownload	Phrase left when performing automatic reboot operation after frcDownload
7A	ON_BY_AOD_VOICE	onAoDByVoice	A phrase left by automatically powering on when voice is recognized in Always Ready Status
7B	ON_BY_AOD_VOICE_WOV	onAoDByWov	A phrase left by automatically powering on when recognizing distant voice in Always Ready Status
7C	ON_BY_FAULT_POPUP	faultPopup	When a fault popup occurs in Always Ready Status or Active Standby Status, the phrase is automatically left when Power On
7D	OFF_BY_COLD_TIMEOUT	coldByTimeout	1) Reboot and turn off to abnormal when client timeout occurs when entering Always Ready or Suspend (Prevent infinite reboot) 2) When suspend is entered, returnValue: false is received from micom's requestInstanT-CONtrolCommand api (no history of occurrence) 3) If /dev/lgib cannot be opened when suspend (no history of occurrence.)
7E	ON_BY_REBOOT_TIMEOUT	rebootByTimeout	When suspend or always ready enters, a phrase left while rebooting when a client timeout occurs
7F	ON_BY_AOD_MOTION	onAoDByMotion	The phrase left when it is turned on by AOD by motion action
7G	ON_BY_ACTIVE_STANDBY_TEST	testOnActiveStandby	Phrase left when Power On from Always Ready Status or Suspend Status to Active Standby (for test)
7H	OFF_BY_REBOOT_TIMEOUT	rebootByTimeout	When suspend or always ready enters, a phrase left while rebooting when a client timeout occurs
9A	OFF_BY_CH_UPDATE_TIMER	channelUpdate	A phrase left at the beginning of an action to get channel List Data information from WARMStatus (operation only in certain countries-Italy/UK)
9B	OFF_BY_CH_UPDATE_TIMER_END		A phrase that leaves the operation to get channel List Data information from WARMStatus (operation only for certain countries-Italy/UK)
9C	ON_BY_EWBS	ewbs	A phrase left while performing Power On for EWBS (Disaster Notification) operation, and left when switching to WARMStatus (Philippines Only)

## “Power On/Off Status” Details (5 of 7)

OLED42C3PUA (2023) In-Start Menu

SVC Menu Text Code	History	String	Description
9D	ON_BY_EWBS_OK	ewbsOk	A phrase left while performing Power On for EWBS (Disaster Notification) operation, and left when switching to HOTStatus (Philippines Only)
9E	OFF_BY_EWBS	ewbs	A phrase left while performing a power off operation by EWBS (Disaster Notification) operation
9F	OFF_BY_LNB_SHORT	lnb_short	It is necessary to assign a new value to the history used as a result of confirmation with a function related to Japan.
B1	OFF_BY_BDP_ERROR	invError (Burn Det)	For OLED models only, if a BDP error occurs, the phrase left while performing power off
B2	OFF_BY_BDP_ERROR1	bdpError1 (Burn Det)	For OLED models only, if a BDP error occurs, the phrase left while performing power off
B3	OFF_BY_BDP_ERROR2	bdpError2 (Burn Det)	For OLED models only, if a BDP error occurs, the phrase left while performing power off
B4	OFF_BY_BDP_ERROR3	bdpError3 (Burn Det)	For OLED models only, if a BDP error occurs, the phrase left while performing power off
B5	OFF_BY_BDP_ERROR4	bdpError4 (Burn Det)	For OLED models only, if a BDP error occurs, the phrase left while performing power off
B6	OFF_BY_BDP_ERROR5	bdpError5 (Burn Det)	For OLED models only, if a BDP error occurs, the phrase left while performing power off
B7	OFF_BY_BDP_ERROR6	bdpError6 (Burn Det)	For OLED models only, if a BDP error occurs, the phrase left while performing power off
B8	OFF_BY_BDP_ERROR7	bdpError7 (Burn Det)	For OLED models only, if a BDP error occurs, the phrase left while performing power off
B9	OFF_BY_BDP_ERROR8	bdpError8 (Burn Det)	For OLED models only, if a BDP error occurs, the phrase left while performing power off
BA	OFF_BY_BDP_ERROR9	bdpError9 (Burn Det)	For OLED models only, if a BDP error occurs, the phrase left while performing power off
BB	OFF_BY_BDP_ERROR10	bdpError10 (Burn Det)	For OLED models only, if a BDP error occurs, the phrase left while performing power off
BC	OFF_BY_BDP_ERROR11	bdpError11 (Burn Det)	For OLED models only, if a BDP error occurs, the phrase left while performing power off
C1	ON_BY_PNWASHDONE	pnwashDoneOn	Phrase left while performing a power on operation to perform a panel noise wash operation (OLED model)
C2	ON_BY_COMPENSATION_FAIL	compensationFail	A phrase left when power on is performed by the user during the reward operation (OLED model)
C3	OFF_BY_COMP_END	compensationEnd	The phrase left while performing a compensation operation and the operation is successful and performing a power off operation (OLED model)
C4	OFF_BY_ONRF_FAIL	compensationFail	If the compensation operation is performed but the operation is failed, the phrase left while performing the reboot operation (OLED model)
C5	OFF_BY_PNWASHDONE	pnwashDoneOff	The message left while performing the power off operation when the panel noise wash operation is successful (OLED model)
C6	OFF_BY_PNWASHFAIL	pnwashFailOff	The message left while performing the power off operation when the panel noise wash operation fails (OLED model)
C7	OFF_BY_COOLING	coolingOff	Phrase left when power off is performed to lower the temperature of the OLED T-Con (OLED model)
C8	OFF_BY_PNWASHSTART	pnwashStart	Switched to WARM Status as a phrase left while performing a power off operation to perform a panel noise wash operation (OLED model)
C9	ON_BY_PNWASHFAIL	pnwashFailOn	A phrase left when the user turns on the power on during the panel noise wash operation and the operation is canceled (OLED model)
CA	ON_BY_COOLINGDONE	coolingDoneOn	After the cooling operation of the T-Con is completed, it is converted to WARM status as a phrase left while performing power on (OLED model)
CB	OFF_BY_ONRFDONE_ERROR	onRFDoneError	When On RF Done fails to perform in a defect determination scenario, a phrase left while performing a power off operation
CC	ON_BY_COMPENSATION_END	compensationEnd	The phrase left when the compensation operation is completed and turned on (OLED model)
CD	OFF_BY_COMPENSATION_START	compensationStart	Phrases left when performing compensation actions (OLED model)
CE	OFF_BY_OSLB_SAVING_FAIL	oslbSavingFail	Only for OLED models that support the OSLB function, the phrase left when a timeout occurs during PANEL_CTL off
CF	OFF_BY_OSLB_SAVING	oslbSaving	Only OLED models that support the OSLB function are left when the PANEL_CTL is turned off
D1	OFF_BY_FAN_CTRL_ERROR	fanCtrlError	Phrase left when power off is performed by FAN operation error (for OLED/STB model)
D2	OFF_BY_TEMPERATURE_SENSOR_ERROR	temperatureSensorError	A phrase left when power off is performed by temperature sensor operation error (for OLED model)
D3	OFF_BY_OVERHEATING	overheating	A phrase left when power off is performed by an overheating operation (for OLED model)

## “Power On/Off Status” Details (6 of 7)

OLED42C3PUA (2023) In-Start Menu

SVC Menu Text Code	History	String	Description
D4	OFF_BY_OLED_AM_MODE	oledAmMode	If the module cable is not connected normally, the phrase left while Micom forcibly turns off the power (OLED W7/W8)
D5	OFF_BY_T-CON_FAIL	T-CON Check Fail	A phrase left while performing the power off operation by T-CON FAIL in the defect determination scenario
F1	OFF_BY_INSTOP_KEY	inStop	AdjustmentPhrase left when Power Off is performed with the Instop Key of the remote control
F2	ON_BY_ONLY	powerOnly	A phrase left while performing a power on operation through the Power Only Key of the remote control or the Power Only Command of RS232C
F3	OFF_BY_POWERONLY	powerOnly	Phrase left at the time of reboot by Power Only operation (condition: DC On)
F4	ON_SVCTEST	svctest	Phrase left while performing the power on operation by SVC Test
F5	ON_BY_UTTDOWNLOAD	uttDownload	Phrase left while performing the Power On operation in UTT download mode
F6	ON_BY_STORE_POWERON	store	A phrase left while performing a power on operation by the store remote control
F7	ON_BY_RS232C	RS232C	Phrase left while performing power on operation by RS232C command
FD	OFF_BY_RS232C	RS232C	Phrase left while performing power off by RS232C Command
FE	OFF_BY_TS_END	tsEnd	Need to assign a new value to the history used by the commercial
L1	OFF_BY_BATTERY_THERMAL_PROTECT	overBatteryTemperature	For NMRM models only, when the battery temperature is detected above 55 degrees, the phrase left while performing power off
L2	OFF_BY_LACK_OF_BATTERY	lackOfBattery	For NMRM models only, when the battery capacity is less than 1%, the phrase left while performing power off
L3	OFF_BY_ARTISTIC_DISPLAY	artisticDisplay	NMRM model only: Phrase left while performing power off when maintaining Artistic Home UI Status for 3 hours
L4	OFF_BY_DPM	offByDPM	A phrase that HDMI CLK is recognized in the status that is turned off in DPM mode on the standby model, but the video connection is not possible and it is turned off
L5	OFF_BY_NO_SIGNAL_DPM	nosignalDPM	Phrase left while powering off when no signal is maintained in HDMI status on standby models
L6	ON_BY_WARM_DPM	warmByDPM	A phrase left while switching to Active Standby because the HDMI CLK is recognized in Status that is turned off in DPM mode on the standby model.
L7	ON_BY_ACTIVE_DPM	onByDPM	Switching Active Standby from the Standby model to ON_BY_WARM_DPM A phrase left when it turns on to Active when Good Video recognition is completed in Status
M1	OFF_BY_WAV_LINKFAIL	wavLinkFail	Phrase left when WAV connection is disconnected on a wireless model and turned off
M2	OFF_BY_WAV_BLE_LINKFAIL	wav_bleLinkFail	A phrase left when the WAV / BLE connection is disconnected from the wireless model and turned off
M3	ON_BY_PAIRING_KEY	pairingKey	Phrase left while booting when applying Pairing Key in wireless models
R1	ON_BY_ALWAYSON	alwaysOn	Phrase left while powering on when waking up with WARM at a set time in the A+ model
R2	ON_BY_VOICE_PARTIALVIEW	voicePartial	In the A+ model, the phrase left when waking up with Partial View with voice recognition in WARMStatus (ex, play it in Partial View.)
R3	ON_BY_VOICE_FULLVIEW	voiceFull	In the A+ model, the phrase left when waking up with Full View with voice recognition in WARMStatus (ex. Play MBC....)
R4	ON_BY_UPDOWN_KEY	upDownKey	The phrase left while performing power on by the UpDown key of the R9 magic remote control corresponding to the A+ model
R5	ON_BY_REMOTE_APP	registerRemoteApp	Phrase left while performing Power On when a mobile phone-only APP supported by WARMStatus is registered in the A+ model
R6	ON_BY_AUTO_REBOOT	AutoReboot	Power On Reason, which is used for Abnormal Reboot in the A+ model, and is currently used as ALWAYSON (to be finalized in consultation later)
R7	OFF_BY_ALWAYSON	alwaysOn	Phrase left when setting the time and performing the power off to wake up with WARM at a set time on the A+ model
R8	OFF_BY_NO_MOTION	noMotionAutoOff	In the A+ model, if there is no movement on the motion sensor for a certain period of time, the phrase left while automatically powering off
R9	OFF_BY_HOMEKIT	homekit	On A+ models, the phrase left when the power is turned off through the Remote App of an external smartphone
RA	OFF_BY_ROLL_ABNORMAL	rollAbnormal	A phrase left while judging an abnormal situation while driving the roll and performing a forcibly power-off operation
RB	OFF_BY_LOCKCHECK_FAIL	lockCheckFail	In the defect judgment scenario, when a failure occurs during lock check, a phrase left while performing a power off operation
XX	UNKNOWN		This is the initial value of Power On/Off History, which is left as the initial value even when History Read/Write Fail

# “Power On/Off Status” Details (7 of 7) NOT USED CODES

SVC Menu Text Code	History (NOT USED)	String	Description
N/A	OFF_BY_CPUCMD	cpuCommand	Phrase left when the power off operation is performed by CPU Command (not currently used)
N/A	OFF_BY_POWER_BD_PROTECT	powerProtect	Unused
N/A	ON_BY_LAST_COLD	lastCold	Unused
N/A	ON_BY_LAST_COOL	lastCool	Unused
N/A	ON_BY_HOMING	homing	Unused
N/A	ON_MEMOCAST		Phrases left while performing the power on operation by PDP MemoCast
N/A	ON_BY_EMMTIMER	emmTimer	Unused
N/A	ON_BY_CAM_ONOFF	cam	Unused
N/A	ON_MASK_DATA		Phrases left while performing the power on operation by Masking Data
N/A	OFF_BY_MAIN_WDT	watchdog	Unused
N/A	OFF_BY_VERIFY_FAIL	verificationFail	Unused
N/A	OFF_BY_FAN_CONTROL	fanContrl	Unused
N/A	OFF_BY_SIGNAL_DETECT	sigDetect	Unused
N/A	OFF_BY_DATA_FLASH	dataFlash	Unused
N/A	OFF_BY_VSOVP	pdpVsOver	Unused
N/A	OFF_BY_VSUVP	pdpVsUnder	Unused
N/A	OFF_BY_17VOVP	pdp17over	Unused
N/A	OFF_BY_17VUVP	pdp17under	Unused
N/A	OFF_BY_20V_DETECT	20vDetectFailure	Unused
N/A	OFF_BY_HDMIUPDATE	hdmIUpdate	Unused
N/A	OFF_BY_SOC_THERMAL_PROTECT	socThermalProtection	Unused
N/A	OFF_BY_FRC_THERMAL_PROTECT	frcThermalProtection	Unused

When RS or JB Compensation runs the two following entries are made into the Power ON/OFF Status Menu:  
POWER\_OFF\_BY\_PNWASHSTART, POWER\_ON\_BY\_PNWASHDONE.

There are two types of Compensation: RS and JB (Both shown as OSLB in the In-Start Menu when saving data) described below.

## RS (Real Time Sensing):

Bottom selection under “Pixel Cleaning” in the Customer’s Menu: Settings → General → OLED Care → OLED Panel Care → Pixel Cleaning

RS is run automatically after 4 hours of cumulative run time and the TV is turned Off, TV doesn’t turn on after completion.

IN-START MENU: RS Compensation Count increments by 1. Interval Setting is in the In-Start Menu OLED screen and set at 4.

RS Compensation can run in multiple ways;

**RS Compensation (Real Time Sensing) can be run in four circumstances:**

- (1) **AUTO:** After 4 hours of consecutive viewing. Happens immediately after Power Off.
- (2) **QUICK:** Bottom Selection in the Pixel Cleaning Menu. When clicked, RS run immediately.
- (3) **STORE MODE:** Happens after Power Off. (Note: If AC is lost while in Store Mode and the unit is “On”, when AC is reapplied, after about 90 seconds a Pop-Up window will appear notifying the viewer that the TV will shut off in 7 minutes so that Panel Noise can be removed from the Panel. The TV shuts-off automatically, Compensation is run and then the TV Turns back on.
- (4) **FORCED (IN-START):** Compensation Interval Changed from 4 to 0 in the In-Start Menu. Compensation Runs after “Every” Power Off.

**IMPORTANT: Change this setting back to 4 after forced RS Compensation is run.**

*Note: During Compensation, the Power Supply voltages all remain active. 12VT and 22VD to the T-CON and 12VM and 20VS to the Main. After compensation ends, the Micro shuts off the Power Supplies, except Stand By 3.5V\_ST remains on all the time.*

## JB (OSLB) Compensation (Jansang Bosang; Korean for Image Sticking).

(Note: since 2021 webOS 6.0 called JB or RS is now called OSLD in In-Start Menu).

Top two selection under “Pixel Cleaning” in the Customer’s Menu: Settings → General → OLED Care → OLED Panel Care → Pixel Cleaning

IN-START JB Compensation Count increments by 1 bottom left of In-Start. Interval Setting in the In-Start Menu OLED screen is 500.

JB Compensation is Customer controlled and it is also UTT count controlled (when UTT reaches 500).

**JB Compensation will run under two sets of criteria:** (It takes approximately 8 minutes to complete, See Run Sequence below).

- (1) If the Customer runs “Pixel Cleaning” from the Customer’s menu. Can be run either immediate or at next turn off.
- (2) According to the In-Start Menu → OLED → JB Compensation Interval settings. Set at 500 hours of operation, (Cumulative).

**OSLB:** Analyze the characteristics of the displayed image to calculate the accumulated usage of OLED devices and determine the compensation value

**RUN SEQUENCE:** JB compensation begins; POWER\_OFF\_BY\_PNWASHSTART (entered in Power Off Status), TV turns Off (if on).

All power supplies remains On from SMPS, 12VT and 22VD to the T-CON and 12VM and 20VS to the Main.

RS runs first, then JB (OSLB) compensation runs. After completion, POWER\_ON\_BY\_PNWASHDONE is entered in Power Off History).

The TV turns On, if the TV was on before JB (OSLB) started and the customer clicked “Start No”.

Note: There is “No” White Line visible running from Top to Bottom in webOS 22 during the last 60 seconds of JB like previous webOS versions.

Note: For additional details related to Compensation situations see “Always On” related document.  
Only for models which have the Always Ready feature.

Continued on next page

## Example of Pixel Cleaning Entries into the Power On/Off Status windows. (Windows 3 and 4 in the New In-Start Menu)

### Entry Code: C2

ON\_BY\_COMPENSATION\_FAIL

Explanation: Compensation Fail A phrase left when power on is performed by the user during the reward operation (OLED model).

### Entry Code: C3

OFF\_BY\_COMP\_END Compensation End

Explanation: The phrase left while performing a compensation operation and the operation is successful and performing a power off operation (OLED model).

### Entry Code: C5

OFF\_BY\_PNWASHDONE Panel Wash Done Off

Explanation: The message left while performing the power off operation when the panel noise wash operation is successful (OLED model).

### Entry Code: C6

OFF\_BY\_PNWASHFAIL Panel Wash Failure Off

Explanation: The message left while performing the power off operation when the panel noise wash operation fails (OLED model).

### Entry Code: C7

OFF\_BY\_COOLING Cooling Off

Explanation: Phrase left when power off is performed to lower the temperature of the OLED T-CON (OLED model).

### Entry Code: CD

OFF\_BY\_COMPENSATION\_START

Explanation: Compensation Start, the Phrase left when performing compensation actions (OLED model)

### Entry Code: CE

OFF\_BY\_OSLB\_SAVING\_FAIL

Explanation: Only for OLED models that support the OSLB function, the phrase left when a timeout occurs during PANEL\_CTL off. PANEL\_CTL (Panel Control) is the output signal from the Microprocessor that changes to DRV\_ON (DRIVE ON) on the Power Supply. This command turns on the 20.5VD voltage output from P251 to CN403 on the T-CON Board. In other words Voltage for Display to the Panel.

### Entry Code: CF

OFF\_BY\_OSLB\_SAVING

Explanation: Only OLED models that support the OSLB function are left when the PANEL\_CTL is turned off. See explanation of PANEL\_CTL above.