

Release Bulletin: For M-Card OS 1.5.2 On PKM 802/03

This bulletin provides release information for M-Card OS 1.5.2 3001 SW stack.

Release Details

This section lists component version numbers and other details for this release.

Release Type:	Official Release
Release Version:	M-Card 1.5.2 3001
OS Version:	1.5.2 3001

These are the features introduced in M-Card OS 1.5.2:

- Group operations for CDL 2.0 and CCCM override are supported.
- Diag page changes (Pod Handler Diagnostics (Sync), Secure Micro Software Version, fields added to DAVIC Page and inband hardware status, etc.)
- New Generic Feature Parameters (Reset PINS, Turn On Channel and download Group ID)
- Support for Host Addressable Properties [ECN 1082-5].
- Support for Host Reset Vector Apdu.
- Support for Connect/Disconnect Apdu.
- Use CaSyatemID client instead of WKMA for SA network info.
- MCard should allow cccm override that comes from CDL file.
- Socket Flow and Direct ADSG Support.
- VCT_ID support.
- Force tune EAS support for UDCP Host
- IP address support [ECN 1120]
- Support the Named Entitlement section in its EUT handling
- ECO 1408 Addition of Vendor ID to Generic Diagnostics

Related Publication

See the following publication for additional information related to this release:

Release Notes for OHT 1.6.9 0103 and CANH 1.1.7.1.

Known Issues

None

<u>CR #</u>	<u>CR Title</u>	User Impact	Description	Fixed In
122294	Multiple reboots observed during staging boxes	SPONT HDT REBOOT	Multiple reboots observed in the M-Card after a HRV reset is given.	1.5.2.3001

M-Card

Fixed Issues
In Vecima Host, black screens on any

116935
Fix channel change failure on 6th BLACK SCREEN
In Vecima Host, black screens on any
1.5.2.2801

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Fixes in OS 1.5.2 3001

M-Card

<u>CR #</u>	<u>CR Title</u>	User Impact	Description	Fixed In
122294	Multiple reboots observed during staging boxes	SPONT HDT REBOOT	Multiple reboots observed in the M- Card after a HRV reset is given.	1.5.2.3001

M-Card

116935	Fix channel change failure on 6th stream that has Pgm Index=5	BLACK SCREEN	In Vecima Host, black screens on any channel change to encrypted programs after the first tuned	1.5.2.2801
			program.	

M-Card

Fixes in OS 1.5.2 2901

<u>CR #</u>	<u>CR Title</u>	User Impact	<u>Description</u>	Fixed In
120821 M-Card	Ippv Entt is lost at times when Ippv Purchase coincides with Entt. Cache update	BLACK SCREEN	This issue could explain the periods where we have black screens in multiples of minutes for the a recently purchased, already tuned-in IPPV event program. There will be black screens for the period between the time instance of the Purchase and the time instance of the next entitlement cache update.	1.5.2.2901
97198	Indicate 'waiting for open_homing' state in M- CARD diag page	FEATURE	When waiting for open_homing, there is no indication that the card has triggered on a download. It would be nice to indicate this state in the M- CARD download diag page.	1.5.2.2901

M-Card

<u>CR #</u>	<u>CR Title</u>	User Impact	Description	Fixed In
108975	Macroblocking during normal play with encrypted channels	VIDEO QUALITY	This macroblocking can be presented many ways: (1) localized to one area, (2) A line across the screen, or	1.5.2.2801

M-Card

Fixes in OS 1.5.2 2701

<u>CR #</u>	CR Title	User Impact	Description	Fixed In
116431	Implementation of hub specific EAS suppression.	FEATURE	With this feature the EAS suppression can be controlled with respect to hub	1.5.2.2601

M-Card

Fixes in OS 1.5.2 2601

<u>CR #</u>	<u>CR Title</u>	User Impact	Description	Fixed In
113926	OOB mode staging: Clear NVM override when a reset passthru is received	FEATURE	As part of staging, the resetClientNvm BASS transaction is used to reset the Host parameters.	1.5.2.2601

M-Card

Fixes in OS 1.5.2 2501

<u>CR #</u>	<u>CR Title</u>	User Impact	Description	Fixed In
113747	"After scripts CC diag screen shows blank pages and not able to view ENC channels".	INCORRECT BEHAVIOR	When packages are added and removed in very close succession (ie b/w 30s and 1 min) for several hours this issue will	1.5.2.2501
M-Card			occur.	
113926	OOB mode staging: Clear NVM override when a reset passthru is received		As part of staging, the resetClientNvm BASS transaction is used to reset the Host parameters.	1.5.2.2501
M-Card				

<u>CR #</u>	<u>CR Title</u>	User Impact	Description	Fixed In
112795 M-Card	Mcard should modify EAS table in order to support EAS suppression	FEATURE	Mcards are required to modify EAS packets by adding EAS suppression source IDs in order to suppress the EAS message.	1.5.2.2401
112796	Mcard should not send channel number of 0 for duplicated source	INCORRECT BEHAVIOR	Host will fail on cross-checking of SI tables, and may not go SI-ready.	1.5.2.2401
M-Card				
112797	Mcard should use raw DCM to calculate total section count in raw VCMs	BLACK SCREEN	When DNCS does not send out complete set of VCMs during SI update, mcard will send out incomplete channel map to host due to the wrong calculation of total VCM section count.	1.5.2.2401
111474	Delete IP_U flow when the DAVIC connection is lost	INCORRECT BEHAVIOR	When the DAVIC 2-way connection is lost, there is a possibility that the Card may get a different IP address after the	1.5.2.2401
M-Card			next sign-on.	
112898	OOB state operation changes for staging DSG and transitioning to DSG	FEATURE	Used for staging new boxes for DSG and for transitioning the QPSK boxes to DSG.	1.5.2.2401
M-Card				
112239	Define the pre-dsg failure type better.	ENHANCEMENT	The pre-DSG failure needs to include more details to better assist the operator in troubleshooting where the actual failure	1.5.2.2401
M-Card			is occuring, instead of listing only a "timeout failure".	
112238	The cmd2000 response from the pre-dsg test should tell you where to find the log	ENHANCEMENT	Pre-DSG test cmd2000 should tell the operator where to find the logs for the results.	1.5.2.2401
M-Card	where to find the log		1000110.	
112236	"Commencing Pre-Dsg" test message not always displayed.	INCORRECT BEHAVIOR	When running the pre-dsg test the message "Commencing Pre-Dsg Test" is not always displayed via cmd2000.	1.5.2.2401
M-Card			· · · · · · · · · · · · · · · · · · ·	

<u>CR #</u>	<u>CR Title</u>	User Impact	Description	Fixed In
110680	Host DSG resource presence should be checked before trying to switch to DSG	INCORRECT BEHAVIOR	Card might go to continuous reboot resulting in no video.	1.5.2.2301
M-Card				
111392	M-Card should send HRV to the Host if an OOB mode switch requires reboot	INCORRECT BEHAVIOR	User may not view any programs if the mode switch does not happen correctly.	1.5.2.2301
M-Card	-			

Fixes in OS 1.5.2 2201

<u>CR #</u>	<u>CR Title</u>	User Impact	Description	Fixed In
109915	ADSG Indirect Socket mode support with DCM field of UNConfig	FEATURE	Support of ADSG Indirect Socket mode while still using the DNCS SR 4.2.	1.5.2.2201
M-Card				
109914	M-Card Network Logging Support for ADSG transition in field	FEATURE	Enhance diagnositc capabilities for operator support.	1.5.2.2201
M-Card				

<u>CR #</u>	<u>CR Title</u>	User Impact	Description	Fixed In
107507/AT2310	6 Card should reset when there an OOB mode change when Card is 2-way	FEATURE	ODN can not handle OOB mode changes when the Card is in 2-way operational. It is decided to reset the	1.5.2.2101
M-Card	,		Card for such mode transitions.	
107508	Card takes lot of time for determining the OOB mode of operation first time	PERFORMANCE	When the NVM override flag is not set, Card waits for gdl.tblo before deciding on the mode of operation. Currently the	1.5.2.2101
M-Card			gdl.tblo is read after reading all other BFS files resulting in a lot of delay. Card can read the gdl.tblo ahead of all the other files	
107611	In ADSG Socket Mode CARD does not get Host IP during a recombine	INCORRECT BEHAVIOR	CARD does not take the new HOST IP during a recombine.	1.5.2.2101
M-Card				

<u>CR #</u>	<u>CR Title</u>	User Impact	Description	Fixed In
104121	During recombine testing DOCSIS set top 8kg6 CARD no ip without reboot.	INCORRECT BEHAVIOR	CARD does not obtain an IP address when moved to a different CMTS downstream/upstream/IP domain.	1.5.2.2001
M-Card				
106389-01 M-Card	The Cable CARD Replies Wrongly for ROOT_OID Reques from Host	INCORRECT t BEHAVIOR	The root oid response sent from the card is not encoded in ASCII format as expected by host, the host will not be abe to know the root oid of card and hence the cable card diagnostic information cannot be obtained through the SNMP.The root oid encoding f	

<u>CR #</u>	<u>CR Title</u>	User Impact	Description	Fixed In
104296	When app_id = 1, 2 or 5 is used, Card constructs the dsg filters incorrectly	BLACK SCEEN	The application will not load.	1.5.2.1901
M-Card				
104465	Enhance Copy Protection MMI screen to show CP-CA and key refresh info.	ENHANCEMENT	Added 2 new fields to the Copy Protection Information diag screen on the CableCARD. The first field is to display	n 1.5.2.1901
M-Card			the value of the global variable "gCP_CaDisable" which CP uses to enable/disable CA decryption. The second field is to indicate when the Card	
104973	M-Card stops communicating to the host	INCORRECT BEHAVIOR	MCard stops communicating to the host when: Repeated channel changes where the ca_pmt() has other CA descriptors	1.5.2.1901
M-Card			other than the ones with Powerkey's CA System ID; Staying long in the PPV OSD screen. M-Card stops decrypting the content and the M-Card diagn	

<u>CR #</u>	<u>CR Title</u>	<u>User Impact</u>	<u>Description</u>	Fixed In
104056	M-card has to get the vendor id properly from the host having	INCORRECT BEHAVIOR	The host upgrade capability using Common Download is affected.	1.5.2.1801
M-Card				

<u>CR #</u>	<u>CR Title</u>	<u>User Impact</u>	Description	Fixed In
101276 M-Card	Support ECR 1408: Addition of Vendor ID to Generic	CUSTOMER ENHANCEMENT	There are currently systems in the field which support only CDL1.0 for certain vendor_ids. A mechanism is required for the Card to find out the system CDL support for a particular vendor_id prior to opening the System Control resource. This will be acco	1.5.2.1701
98960 M-Card	noCP on reboot	INCORRECT BEHAVIOR	After upgrading M-Card with new firmware or after a reboot host displays "noCP" on the front panel. Host could not complete the boot up process and is struck at this point.	1.5.2.1701
102029 RM 2504 M-Card	M-Card should not display information of the path of "podchan.tblo" in Direct mode	CUSTOMER ENHANCEMENT	User could be confused by the mcard loaded podchan.tblo information since host does not need it in Direct ADSG mode.	1.5.2.1701
97198 M-Card	Indicate waiting for open_homing' state in M-CARD diag page	FEATURE	When waiting for open_homing, indication that the card has triggered on a download in M-CARD download diag page.	
95274 M-Card	Hyperlink at bottom of MAC Address Report diagnostic screen overlaps the text	GRAPHICS QUALITY	The Hyperlink and the Text at the bottom of the cable card diagnostic screens should not overlap	1.5.2.1701
91971 M-Card	CP Fail message is not sent to headend in DSG mode	INCORRECT BEHAVIOR	In DSG mode we are not sending CP Fail message if it fails in mutual authentication as the condition checked for 2-way availability.	
82582 M-Card	MCard autobind retry does not check for changes in CPDefinition for Display MMI	INCORRECT BEHAVIOR	A DNCS Admin currently can not turn off/on autobind for CableCARDs operating in the field by way of the Configure MMI Screen Data UI, Display MMI for Bi-Directional Device setting in the CableCARD UI.	1.5.2.1701

<u>CR #</u>	<u>CR Title</u>	<u>User Impact</u>	Description	Fixed In
92236	Card doesn't support Broadcast tunnels in Indirect ADSG mode	Third Party Apps	apps will not be loaded	1.5.2.1601
M-Card				
92830	Preview video not shown following a purchased PPV	LOSS SCV/VIDEO	Video will appear frozen after a purchased PPV, even if free preview for next event is active.	1.5.2.1601
M-Card				
98654	Application Information page for CANH	FEATURE	This does not have any impact on the user as this is a diagnostic page change	1.5.2.1601
M-Card				
98656	Card MIB resource Support as per CCIF I17	FEATURE	Card diag filed could be accessed through snmp	1.5.2.1601
M-Card				
98657	SNMP Framework code support for basic snmp operations as per CCIF I17	FEATURE	Card diags would be avialbe in snmp as per CCIF 117	1.5.2.1601
M-Card				
98658	General MIB support	FEATURE	Cable card general diagnostics would be available trough SNMP	1.5.2.1601
M-Card				
98661	DSG MIB support	FEATURE	Dsg related diagnostic info would be available theough snmp	1.5.2.1601
M-Card				
98659	Powerkey MIB implementatin	FEATURE	Powerkey Realted Diagnostic info would be avaiable thru SNMP	1.5.2.1601
M-Card				
97115-01	Integrating CISCO name change in the user viewable pages	FEATURE	The CableCARD should use "CISCO" name in the pages generated for various applications.	1.5.2.1601
M-Card			applications.	
98524	Card should parse the option bytes from the new_flow_cnf to get the subnet mask	INCORRECT BEHAVIOR	Diagnostic field for subnet mask would show correct value instead of "0.0.0.0"	1.5.2.1601
M-Card	get the subnet mask			
98478	OOB mode change without resetting Card and send correct mode details to Host	PERFORMANCE	Host application behavior boot-up time will improve if an OOB mode switch is meeded soon after the need to boot-up.	1.5.2.1601
M-Card			······································	
85837	Resend a UNCR on DAVIC reconnect	INCORRECT BEHAVIOR	user may loose 2-way connectivity if these corner cases happen	1.5.2.1601

M-Card

<u>CR #</u>	<u>CR Title</u>	User Impact	<u>Description</u>	Fixed In
99271	Lug_id should be ignored in DSG Direct mode.	CUSTOMER ENHANCEMENT	If mcard is assigned with Enhanced Channel Map using lug_id rules in ADSG Direct mode, host won't get correct	1.5.2.1503
M-Card			channel map.	
Fixes	in OS 1.5.2 1501			
<u>CR #</u>	<u>CR Title</u>	User Impact	<u>Description</u>	Fixed In
97847	MCard should parse entire gdl.tblo file in case of multiple EID assignments	INCORRECT BEHAVIOR	Currently the MCard will stop parsing the gdl.tblo as soon as it has found a matching EID for both a cccm and a	1.5.2.1501
M-Card			group_ID assignment. If there are multipl matching EIDs for both cccm and group_ID, the MCard will not read the	e
			assignments in the file past t	

97604	CDL 2.0 parameters for Diagnostics purpose	ENHANCEMENT	It's recommended to include CDL2.0 related fields in the diag pages. sessions	1.5.2.1501
M-Card				

<u>CR #</u>	<u>CR Title</u>	User Impact	Description	Fixed In
91549	OOB State Operation and HID- CID related fixes	INCORRECT BEHAVIOR	After successfully booting up in the DSG mode, if the Host sends DCD not found then stay in the DSG mode instead of	1.5.2.1401
M-Card			jumping to QPSK mode.	
85569	Video Freezes on MOD playback	INCORRECT BEHAVIOR	Site has reported on and off that they have seen frozen video on MOD sessions	1.5.2.1401
M-Card				
96209-02	Memory leak in CP thread due to cp_valid_req() APDU not being freed.	INCORRECT BEHAVIOR	CETV does not display any SA MCard diagnostic information on any of the menus selected after leaving it on	1.5.2.1401
M-Card			overnight. TV needs to be rebooted in	
92986-01	Card Ser.No and MAC should be part of app_info_cnf() APDU as per CCIF spec I16		This field needs to be supported as part of latest CableLab Spec CCIF -I16	1.5.2.1401
M-Card				
96890	IP address field in the new_flow_cnf apu is not coded as per Ext Chan T1V6	INCORRECT BEHAVIOR	IP address field is coded as per ipv4 (32 bit) format instead of ipv6 (128 bits, upper 98 bits 0 and remaining bits with actual	1.5.2.1401
M-Card			value) when extended channel resource	
96893	Manual reset mechanism of last known OOB mode	FEATURE	During certain scenarios, it might be required to reset any ADSG to QPSK OOB mode using manual approach. This	1.5.2.1401
M-Card			has to work seemingly across various	
94595	M-Card should handle Un- Expected Profile_Changed APDU	VIDEO QUALITY	Cannot see the video.	1.5.2.1401
M-Card				

<u>CR #</u>	<u>CR Title</u>	User Impact	Description	Fixed In
95782	M-Card does not forward CDL CVT to host when the CVT version is changed	INCORRECT BEHAVIOR	This affects the host software upgrade.	1.5.2.1201
M-Card				
95879	M-Card does not forward all the matching CVT records in the cvt_v2xxxxx.tblo	INCORRECT BEHAVIOR	This is required for host software upgrade	e 1.5.2.1201
M-Card				

<u>CR #</u>	<u>CR Title</u>	User Impact	Description	Fixed In
92608	Reset PIN feature doesn't work in Mcard	n Third Party Apps	User can not reset his PIN	1.5.2.1101
M-Card				
92654	Overlay Pgm CA_PMT from Hos with orphan Overlay Pid entry has to be considered.	t LIMITED FUNCTIONALITY	Either Improper Audio or Video availability on Hosts.	1.5.2.1101
M-Card				
93942	MCard sends wrong vct_id for a Davic-Only Host when h/e is set in Direct ADSG	BLACK SCREEN	No video as there is no channel map	1.5.2.1201
M-Card				
93494	MCards do not open tunnels destined for it unless a classifier is put in the DCD	CUSTOMER ENHANCEMENT	user may not get SI, EPG, 2-way	1.5.2.1201
M-Card				
93613	M-Card becomes non-responsive after some of its queues get clogged	E LOSS SVC/VIDEO	Initially starts with Lack of A/V on encrypted channels and later goes out-of- communication on the available	1.5.2.1201
M-Card			communication channels with both the HE and the Host and eventually ends up in Brick Mode or Non-responsiveness of the software.	
93125	M-Card in S-mode does not read group download file.	INCORRECT BEHAVIOR	M-Card will not read gdl.tblo file when operating in S-mode. This will cause it to fail to switch from DAVIC to DOCSIS	1.5.2.1201
M-Card			mode when the mode is switched after the card has been started in DAVIC	

<u>CR #</u>	<u>CR Title</u>	User Impact	Description	Fixed In
86477-01	MCARD boxes not handling copy protection correctly - NGP and non-NGP	Third Party Apps	Macrovision copy protection isn't recognized	1.5.2.1001
M-Card				
91299	HID-CID Changes: Not getting IF and not updating NVM override correctly	INCORRECT BEHAVIOR	user can not get 2-way operations.	1.5.2.0902
M-Card	,			
90986	New approach (HID:CID) to Solve Hub Straddling	FEATURE	Pick client rules based on the hub specific WKMA.	1.5.2.0901
M-Card				

<u>CR #</u>	<u>CR Title</u>	User Impact	Description	Fixed In
86477-01	MCARD boxes not handling copy protection correctly - NGP and	Third Party Apps	Macrovision copy protection isn't recognized	1.5.2.0801
M-Card			Ũ	
88586	MCard should use IP addr in UNCI instead of PPV Poll Passthru for FPM response	ENHANCEMENT	TFPM Poll response may not reach the DNCS leading to lack of billing and/or PPV Purchase failures once the PPV	1.5.2.0801
M-Card			Purchase limit gets hit.	

<u>CR #</u>		CR Title	User Impact	Description	Fixed In
87884-02		Loss of authorization barker with non SA host	Third Party Apps	CA_Update with 0x71 is incorrectly send by the M-Card resulting in non	1.5.2.0702
M-Card				authorization barker during channel	
85774		M-Card does not send CA_Update when purchasing event after tuning to PPV	INCORRECT BEHAVIOR	This deficiency leads to an unfavourable delay in the play-out of the video which is ideally expected to happen immediately	1.5.2.0701
M-Card				after the successful PPV Purchase rather	
87403		vbapp support for bist,flashinfo and nvm crc	FEATURE	No impact for the customer. This is a new feature to support debugging in factory.	1.5.2.0701
M-Card					
	Fixes in O	S 1.5.2 0601			

<u>CR #</u>	<u>CR Title</u>	User Impact	Description	Fixed In
87088	Non translated SI should not be passed to one-way hosts	Third Party	The channel map cached by 3rd party hosts will be lost due to non-translated Sl	1.5.2.0601
M-Card			sent during the next boot up.	

<u>CR #</u>	<u>CR Title</u>	User Impact	Description	Fixed In
86105	M-Card may calculate CRC over a partially translated VCM	PERFORMANCE	The host may get confused with SI for a 20 sec cycle.	1.5.2.0501
M-Card				

<u>CR #</u>	<u>CR Title</u>	User Impact	Description	Fixed In
85049	M-Card does not send Entt	INCORRECT BEHAVIOR	Incorrect behaviour leading to host mis- understanding the authorizations	1.5.2.0403 AT 5072
M-Card	Change notification to CanH during some instances			
84648	MCARD should use DII block size fields to determine	INCORRECT BEHAVIOR	No Impact	1.5.2.0403
M-Card	last_section_number			
84930	Mcard changes to handle new CDL2.0 CDVT file formats, and	INTERNAL ENHANCEMENT	Changes are needed to hadle CDVT common download CVT files created by	1.5.2.0403
M-Card	Cccm.		the S&T TSB for common download 2.0. Mcard will not process the new files without this CR.	
84753	Additional CDL override changes	FEATURE	no user impact	1.5.2.0403
M-Card				
83757	SA Cntrl v3 Support for Slow	FEATURE	no user impact	1.5.2.0402
M-Card	boot implementation in ADSG mode			
84130	M-Card should support the	FEATURE	The Host can ,using this named	1.5.2.0402
M-Card	'Named Entitlement' EUT feature		entitlement feature, request for Authorization status of certain service capabilities by referring to them by their defined package name strings rather than by the existing Entitlement Id values.	
84255	ECN 1120 Support (IP address	FEATURE	The M-Card should operate correctly if	1.5.2.0402
M-Card	suport and Clarification of Lost Flows)		the IP address is reassigned. Also it should handle the lost_flow_ind() as explained in the ECN.	
83235	M-Card must handle unexpected result from Secure Micro during	PERFORMANCE	The M-Card becomes non-responsive a few seconds after the PPV Purchase	1.5.2.0401
M-Card	PPV event purchase		attempt.	
82031	Start from DSG mode if QPSK tuner is absent in the Host	FEATURE	This change is required for the hosts that doesn't contain qpsk tuner and only	1.5.2.0401
M-Card			supports DSG. In this case, it's expected that the host will deny the oob rx tune request, so that the M-Card can jump immediately to the DSG mode.	
83061-03	Integrating OS20 Kernel	INCORRECT BEHAVIOR	During a corner case, same task can run	1.5.2.0401
M-Card	Changes recommended in ST toolset 2.2.1		twice when the task state is incorrectly set, resulting in that task getting dropped from the run queue. This will cause a	
			ripple effect and halt the system, if the dropped task acquired a mutex or semaphore but not	
82920	MCard should modify the	FEATURE	no user impact	1.5.2.0401
M-Card	SCTE65 VCT_ID to 0x00 in Indirect and QPSK mode			
85373	MCard should modify the		the channel map is misaligned.	1.5.2.0404
M Card	SCTE65 VCT_ID to 0x00 in Indirect and QPSK mode	BEHAVIOR		
M-Card				0/00/0011

<u>CR #</u>	<u>CR Title</u>	User Impact	Description	Fixed In
79428-02 M-Card	M-Card crash on early CA_PMT in TiVo HD after re-insertion or download.	LOSS SVC/VIDEO	Only affects M-Cards used in TiVo HD model host. When condition occurs, user will have to power cycle TiVo HD to restore SVC/VIDEO.	1.5.2.0301
80356-02 M-Card	Validating memory handle for heap operations	INCORRECT BEHAVIOR	User may have to reboot STB. Sometimes no premium programs will be available.	1.5.2.0301
80779-02 M-Card	Host strucks at XAIT as Card doesn't receive SI packets.	UNKNOWN	No SI is received	1.5.2.0301
81007-02	TiVo not able to show video after M-CARD reinsertion	BLACK SCREEN	TiVo has to be tuned out of digital program or restarted.	1.5.2.0301
M-Card				
70648-02 M-Card	MCard has IP address, but it cannot be pinged from the DNCS.	INCORRECT BEHAVIOR	Customer will not be able to purchase xOD and will only be able to purchase PPV events until their limits are reached if the box is not communicating with the	1.5.2.0301
80970-02 M-Card	Card Re signs on for no apparent reason.	INCORRECT BEHAVIOR	DNCS. no user impact	1.5.2.0301
79181-02 M-Card	CRC validation has to be added to the NVM Cache	PERFORMANCE	This would make the M-Card Hardware more robust such a way that unintentional modifications would not happen to the Non Volatile memory	1.5.2.0301
80568-02 M-Card	Add fields to Diagnostics pages to show the NVM Corruption Recovery Count	FEATURE	More fields are added to the diagnostics pages to detect corrected as well as uncorrected cases.	1.5.2.0301
80869-02 M-Card	DumpMem command is required in poddiag cmd2k	UNKNOWN	no user impact	1.5.2.0301
80780-02 M-Card	Add more diag fields in MCard Davic page to identify field issues/behavior	UNKNOWN	no user impact	1.5.2.0301
81522 M-Card	Removal of Connect/Disconnect feature. Removal of Leased Host private resource.		None. The feature will be implemented using the POD Handler.	1.5.2.0301
80620-02	Remove coupling between reading of pod channel definition	PERFORMANCE	Will improve OCAP host boottime	1.5.2.0302
M-Card	file with XAIT table			
82019		PERFORMANCE	In the scenario involving certain third party and/or retail hosts - the performance of the M-Card will start degrading after running fine for a few days continuously and this starts affecting the stability of the M-Card s/w execution.	1.5.2.0302
M-Card Cisco Pro	prietary Information		8/22/20	11
82085	Remove all calls to time()	DEVELOPMENT ONLY	The time() function is used in a few	1.5.2.0303

<u>CR #</u>	<u>CR Title</u>	User Impact	Description	Fixed In
77827 M-Card	LUG_ID allso needs to be considered as VCT_ID if rule matches in group_defs.txt	INCORRECT BEHAVIOR	When the action for the rule in enhanced channel map is defined as LUG_ID M- card ignores the action as per the requirement defined then. As a result the	1.5.2.0201
			card will not send the proper VCT ID and the host may not get channel map as the current system archit	
77124	ECR 1082-5 : Host Addressable Properties needs to be	FEATURE	This new feature is required to support OCAP hosts loading Application based on	1.5.2.0201
M-Card	implemented		card's reply. For this a new resource is added by CableLabs that allows the CableCARD to forward the data requested by host based on which it decides loading an application	
77566	M-Card should display the Secure Micro S/w version in its	FEATURE	No User Impact seen.	1.5.2.0201
M-Card	diag pages			
77501	Add new diag page to display the count of dropped POD Handler	FEATURE	No User Impact seen.	1.5.2.0201
M-Card	SAS Su=ync message			
77501	M-Card would drain its memory if HOST pulls OOBOC data in a slower rate.	LOSS SVC/VIDEO	The M-Card would become non- responsive. As a result the user would lose encrypted content	1.5.2.0201
M-Card				
77518	Corrupted SPDU causes M-Card to close SAS session	INCORRECT BEHAVIOR	Host puts up not authorised barker. All POD handler communication stops.	1.5.2.0201
M-Card				
77502	M-Card doesn't forward passthru messages to the host	OCAP	RA might not receive the profile update catalog passthru message	1.5.2.0201
M-Card				

<u>CR #</u>	CR Title	User Impact	Description	Fixed In
76089 M-Card	Support for Host Reset Vector Apdu	FEATURE	This will help the ocap hosts to reset in a Generic Manner.	1.5.2.0101
75807 M-Card	Couple of DHCP sub-options are not updated as per the new CCIF spec.		no user impact	1.5.2.0101
76090 M-Card	Field Diagnostics Support	INTERNAL ENHANCEMENT	Support to enhance the field diagnostics support in the CableCARD Side.	1.5.2.0101
73104 M-Card	MCard diag HTML needs to be consistent for improved readability	INTERNAL ENHANCEMENT	This is an enhancement request, which will result in the MCard diag pages being more readable and consistent with the	1.5.2.0101
76095	New Generic Feature Parameter Support - Reset PINs	FEATURE	The M-Card shall support Reset PINs Feature Parameter	1.5.2.0101
M-Card				
76097	Support for Connect/Disconnect Apdu	FEATURE	An approach to deactivate the box based upon the brick package in a generic	1.5.2.0101
M-Card			manner.	
76094	New Generic Feature Parameter Support - Turn On Channel	FEATURE	The M-Card shall support Turn On Channel Generic Feature Parameter	1.5.2.0101
M-Card				

<u>CR #</u>	<u>CR Title</u>	User Impact	Description	Fixed In
76098	,	FEATURE	no user impact	1.5.1.0103
M-Card	of WKMA for SA network info			
76109	Group Download Capability for Common Download	FEATURE	A New approach to assign download	1.5.1.0103
M-Card				
76054	MCard should allow cccm override that comes from CDL file.	FEATURE	no user impact	1.5.1.0103
M-Card				
73870	Support for VCT_ID generic feature and DSG_Directory with	FEATURE	no user impact	1.5.1.0103
M-Card	correct VCT_ID			
74181	Socket Proxy, Direct ADSG support in Mcard	FEATURE	In Direct ADSG mode, user may receive the SI faster.	1.5.1.0103
M Cond				

M-Card

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