



The Difference of EMV Contactless API between Vega3000 and Veag5000S

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Table of Contents

TABLE OF CONTENTS.....1

REVISION HISTORY2

WARNING3

ABOUT THIS MANUAL.....3

1 EMVCLAPIS4

2 CONFIGURATION SETTING BY .XML FILE5

3 LANDING PLANE AND LED.....5

4 TAG SETTING.....6

Revision History

Version	Date	Description
V0.9	2014/03/25	Release

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ABOUT THIS MANUAL

This document lists the difference between Vega3000 and Vega5000S on EMV Contactless API.

1 *EMVCL APIs*

	Vega5000S	Vega3000
Init	EMVCL_Open EMVCL_Close	EMVCL_Initialize (NEW)
General	EMVCL_GetAPIVersion EMVCL_SetTimeOut EMVCL_SetDateTime EMVCL_GetDateTime EMVCL_SetDebug	 EMVCL_ShowContactlessSymbol (NEW) EMVCL_SetDebug
LED	EMVCL_SetLED EMVCL_SetLEDTwinkle	EMVCL_SetLED EMVCL_ShowVirtualLED (NEW) EMVCL_StartIdleLEDBehavior (NEW) EMVCL_StopIdleLEDBehavior (NEW)
Parameter	EMVCL_SetParameter EMVCL_GetParameter	EMVCL_SetParameter EMVCL_GetParameter EMVCL_SetUIType (NEW) [Optional] EMVCL_GetUIType (NEW) [Optional]
CAPK	EMVCL_SetCAPK EMVCL_GetCAPK EMVCL_ListAllCAPKID	EMVCL_SetCAPK EMVCL_GetCAPK EMVCL_ListAllCAPKID
Tag	EMVCL_SetEMVTags EMVCL_GetEMVTags EMVCL_RemoveTags	 EMVCL_AIDSetTagData (NEW) EMVCL_AIDGetTagData (NEW)
Visa Capability	EMVCL_VisaSetCapability EMVCL_VisaGetCapability EMVCL_VisaSetCVMCapability EMVCL_VisaGetCVMCapability	EMVCL_VisaSetCapability EMVCL_VisaGetCapability
Transaction	EMVCL_StartTransaction	

	EMVCL_Reset	EMVCL_StartTransactionEx (NEW)
	EMVCL_CancelTransaction	EMVCL_CancelTransaction
	EMVCL_InitTransaction	
	EMVCL_PollTransaction	
	EMVCL_InitTransactionEx	EMVCL_InitTransactionEx
	EMVCL_PollTransactionEx	EMVCL_PollTransactionEx
		EMVCL_PerformTransactionEx (NEW)
	EMVCL_Complete	
	EMVCL_AnalyzeTransaction	
	EMVCL_AnalyzeTransactionEx	EMVCL_AnalyzeTransactionEx
	EMVCL_SelectSpecificAID	
	EMVCL_DetectTransaction	

2 Configuration Setting by .xml file

	Vega5000S	Vega3000
Setting by .xml file	NOT Supported	Supported

Vega3000 supports that setting (Tag, CAPK, Parameter...) by .xml file. Developer can write an xml setting file following the format described in the document “EMVCL Kernel Configuration Reference Manual”, add their xml file name on EMVCL_Initialize function and then download the xml file with Developer's application. The xml file setting will be loaded on EMVCL_Initialize function.

3 Landing plane and LED

	Vega5000S	Vega3000
Landing plane	Visible contactless symbol on outlook of the terminal	The position of landing plane is on the center of LCD. Developer can call EMVCL_ShowContactlessSymbol to display the contactless symbol on screen.

LED	Four visible LED on outlook of the terminal	Developer can call EMVCL_ShowVirtualLED to display the four Virtual LEDs on screen.
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4 Tag Setting

	Vega5000S	Vega3000
Tag Setting	Kernel maintains only one tag setting. Using overwrite tag to handle different payment with different setting.	Kernel maintains more tag setting. One combination list {TransType – AID - KERNELID} has its own tag config in the database.

Vega5000S Tag Database :

AID1	AID2	AID3	AID4	AIDn
<p>Only one Tag Setting.</p> <p>Using overwrite tag to handle different payment with different setting.</p>					

Vega3000 Tag Database :

Transaction Type					
	AID1	AID2	AID3	AIDn
Kernel 1	TagsSetting1				
Kernel 2		TagsSetting2			
Kernel 3			TagsSetting3		
.....				
Kernel n					TagsSettingn