

SMS Technical Memorandum

VERSION: v6.5.0

TOPIC: Schlage Lock Support

ISSUE: Schlage Locks Connected to Authentic Mercury Protocol Controllers

Background

SMS v6.5.0 introduces support for Schlage locks connected to SMS via Authentic Mercury protocol controllers.

Vanderbilt protocol controllers communicate to Schlage locks via direct implementation of the Schlage RSI protocol embedded within Vanderbilt controller firmware.

SMS communication to Schlage locks connected via Authentic Mercury protocol controllers relies on Mercury's implementation of the RSI protocol and functionality exposed through the Mercury protocol and SDK.

There are some differences in available functionality and transaction reporting between Schlage locks connected to SMS via Vanderbilt protocol controllers and Authentic Mercury protocol controllers, due to the difference in the implementation mechanism.

Feature and reporting differences in the initial release of SMS v6.5.0 are identified herein. Vanderbilt will attempt to minimize these differences in subsequent updates to SMS v6.5.0 or future versions of SMS.

AD-300

	Vanderbilt Protocol Controllers VRCNX-R, VRCNX-M, VRCNX-A	Authentic Mercury Protocol Controllers VMRC-1, VMRC-2, VMRC-1L, VMRC-2L
General	Reporting Customizable Red LED for Access Denied events Request to Enter typically suppressed	Reporting Not Customizable No LED for Access Denied events ¹ Request to Enter typically reported
AROs	No Functional Differences	
	Reader ARO State Reported Credential Events Suppressed	Reader ARO State Not Reported Credential Events Reported
MROs	No Functional Differences	
	Reader MRO State Reported Credential Events Suppressed	Reader MRO State Not Reported Credential Events Reported
IPB Lockdown	Available	Not Available
IPB Toggle	No Functional Differences	
	Double-swipe Not Supported	Enable/Disable via Double-swipe No Cancel Reset ARO
IPB Privacy	Reset via REX	Reset via DOD + REX or Pass-through Access + REN + DOD
	Access Denied Events Report Differently	
	Not Supported on VRCNX-R	
IPB Toggle (in ARO)	Double-swipe Not Supported	Enable/Disable via Double Double-swipe ¹ Enable/Disable via Double IPB ¹
	ARO State Change Reported	ARO State Change Not Reported
IPB Toggle (in MRO)	Double-swipe Not Supported	Enable/Disable via Double Double-swipe ¹ Enable/Disable via Double IPB ¹
	MRO State Change Reported	MRO State Change Not Reported
IPB Privacy (in ARO)	No Functionality Differences	
	ARO State Change Reported	ARO State Change Not Reported
IPB Privacy (in MRO)	Available During All MROs	Not Available During Lockdown Indefinitely
	MRO State Change Reported	MRO State Change Not Reported

¹ Mercury acknowledged bug

AD-400

	Vanderbilt Protocol Controllers VRCNX-R, VRCNX-M, VRCNX-A	Authentic Mercury Protocol Controllers VMRC-1, VMRC-2, VMRC-1L, VMRC-2L
General	Reporting Customizable REN Typically Suppressed	Reporting Not Customizable REN Typically Reported
AROs	No Functional Differences	
	Reader ARO State Reported Credential Events Suppressed	Reader ARO State Not Reported Credential Events Reported
MROs	Momentary Unlock Not Supported	Momentary Unlock Supported (20-sec)
	Reader MRO State Reported Credential Events Suppressed	Reader MRO State Not Reported Credential Events Reported
IPB Lockdown	Available	Not Available
IPB Toggle	No Functional Differences	
	Double-swipe Not Supported	Enable/Disable via Double-swipe No Cancel Reset ARO
IPB Privacy	Reset via REX	Reset via DOD + REX or Pass-through Access + REN + DOD
	Access Denied Events Report Differently	
	Not Supported on VRCNX-R	
IPB Toggle (in ARO)	Double-swipe Not Supported	Enable/Disable via Double Double-swipe ¹ Enable/Disable via Double IPB ¹
	ARO State Change Reported	ARO State Change Not Reported
IPB Toggle (in MRO)	Double-swipe Not Supported	Enable/Disable via Double Double-swipe ¹ Enable/Disable via Double IPB ¹
	MRO State Change Reported	MRO State Change Not Reported
IPB Privacy (in ARO)	No Functional Differences	
	ARO State Change Not Reported	ARO State Change Not Reported
IPB Privacy (in MRO)	Available During All MROs	Not Available During Lockdown Indefinitely
	MRO State Change Reported	MRO State Change Not Reported

¹ Mercury acknowledged bug

ENGAGE NDE

	Vanderbilt Protocol Controllers VRCNX-R, VRCNX-M, VRCNX-A	Authentic Mercury Protocol Controllers VMRC-1, VMRC-2, VMRC-1L, VMRC-2L
General	Reporting Customizable REN Typically Suppressed	Reporting Not Customizable REN Typically Reported
AROs	No Functional Differences	
	Reader ARO State Reported Credential Events Suppressed	Reader ARO State Not Reported Credential Events Reported
MROs	Momentary Unlock Not Supported	Momentary Unlock Supported (20-sec)
	Reader MRO State Reported Credential Events Suppressed	Reader MRO State Not Reported Credential Events Reported

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	Vanderbilt Protocol Controllers VRCNX-R, VRCNX-M, VRCNX-A	Authentic Mercury Protocol Controllers VMRC-1, VMRC-2, VMRC-1L, VMRC-2L
General	Reporting Customizable REN Typically Suppressed	Reporting Not Customizable REN Typically Reported
AROs	No Functional Differences	
	Reader ARO State Reported Credential Events Suppressed	Reader ARO State Reported Credential Events Suppressed
MROs	Momentary Unlock Not Supported	Momentary Unlock Supported (20-sec)
	Reader MRO State Reported Credential Events Suppressed	Reader MRO State Not Reported Credential Events Reported
IPB Lockdown	Available	Not Available
IPB Toggle	No Functional Differences	
	Double-swipe Not Supported	Enable/Disable via Double-swipe No Cancel Reset ARO
IPB Privacy	Reset via REX	Reset via DOD + REX or Pass-through Access + REN + DOD
	Access Denied Events Report Differently	
	Not Supported on VRCNX-R	
IPB Toggle (in ARO)	Double-swipe Not Supported	Enable/Disable via Double Double-swipe ¹ Enable/Disable via Double IPB ¹
	ARO State Change Reported	ARO State Change Not Reported
IPB Toggle (in MRO)	Double-swipe Not Supported	Enable/Disable via Double Double-swipe ¹ Enable/Disable via Double IPB ¹
	MRO State Change Reported	MRO State Change Not Reported
IPB Privacy (in ARO)	No Functional Differences	
	ARO State Change Not Reported	ARO State Change Not Reported
IPB Privacy (in MRO)	Available During All MROs	Not Available During Lockdown Indefinitely
	MRO State Change Reported	MRO State Change Reported

¹ Mercury acknowledged bug

ENGAGE RM / RU

	Vanderbilt Protocol Controllers VRCNX-R, VRCNX-M, VRCNX-A	Authentic Mercury Protocol Controllers VMRC-1, VMRC-2, VMRC-1L, VMRC-2L
General	Reporting Customizable	Reporting Not Customizable
AROs	No Functional Differences	
	Reader ARO State Reported	Reader ARO State Reported
MROs	No Functional Differences	
	Latch Bolt State Change Reported	Latch Bolt State Change Not Reported
Paired Mode	Supported	Not Supported