Access Control Event Types

The access control events are classified as four major types, i.e., alarm events (0x1), exception events (0x2), operation events (0x3), additional information (0x4) and other events (0x5). Each major type corresponds to multiple minor types, see details below.

Alarm Events (0x1)

Value	Description
0x1	Alarm Input
0x2	Alarm Output
0x3	Motion Detection Alarm Starts
0x4	Motion Detection Alarm Stops
0x5	Tampering Alarm Starts
0x6	Tampering Alarm Stops
0x7	VCA Alarm Starts
0x8	VCA Alarm Stops
0xb	Network Alarm Starts
0xc	Network Alarm Stops
0xd	Restore Network Alarm
0x400	Zone Short Circuit Attempts Alarm
0x401	Zone Disconnected Alarm
0x402	Zone Exception Alarm
0x403	Zone Restored
0x404	Zone Tampering Alarm
0x405	Zone Tampering Restored
0x406	Card Reader Tampering Alarm
0x407	Card Reader Tampering Restored
0x408	Alarm Input Alarm Triggered
0x409	Alarm Input Restored
0x40a	Duress Alarm
0x40b	No Memory Alarm for Offline Events
0x40c	Maximum Failed Card Authentications Alarm
0x40d	SD Card Full Alarm

Value	Description
0x40e	Capture Linkage Alarm
0x40f	Secure Door Control Unit Tampering Alarm
0x410	Secure Door Control Unit Tampering Restored
0x411	POS Starts
0x412	POS Stops
0x413	Low Face Picture Quality
0x414	Low Fingerprint Picture Quality
0x415	Fire Input Short Circuit Attempts Alarm
0x416	Fire Input Open Circuit Attempts Alarm
0x417	Fire Input Restored
0x418	Fire Button Triggered
0x419	Fire Button Resumed
0x41a	Maintenance Button Triggered
0x41b	Maintenance Button Resumed
0x41c	Panic Button Triggered
0x41d	Panic Button Resumed
0x41e	Distributed Elevator Controller Tampering Alarm
0x41f	Distributed Elevator Controller Tampering Restored
0x420	People Density Overload Alarm Starts
0x421	People Density Overload Alarm Stops
0x422	Lane Controller Tampering Alarm
0x423	Lane Controller Tampering Alarm Restored
0x424	Lane Controller Fire Input Alarm
0x425	Lane Controller Fire Input Alarm Restored
0x426	Heart Rate Exception Alarm Starts
0x427	Heart Rate Exception Alarm Stops
0x428	Blood Oxygen Exception Alarm Starts
0x429	Blood Oxygen Exception Alarm Stops
0x42a	Systolic Blood Pressure Exception Alarm Starts
0x42b	Systolic Blood Pressure Exception Alarm Stops
0x42c	Diastolic Blood Pressure Exception Alarm Starts
0x42d	Diastolic Blood Pressure Exception Alarm Stops
0x42e	Absence Detection Starts
0x42f	Absence Detection Stops

Value	Description
0x430	Standing Detection Starts
0x431	Standing Detection Stops
0x434	People Counting Change Starts
0x435	People Counting Change Stops
0x438	People Running Starts
0x439	People Running Stops
0x43a	Violent Motion Detection Starts
0x43b	Violent Motion Detection Stops
0x43c	People Falling Down Detection Starts
0x43d	People Falling Down Detection Stops
0x43e	People Overstay Detection Starts
0x43f	People Overstay Detection Stops
0x440	No Paper in Printer Alarm
0x441	Failed Attempts of Opening Door via Password Exceeded Limit
0x442	No Memory Alarm for Valid Offline Events
0x900 to 0x93f	Access Control: Custom Alarm Event 1 to Custom Alarm Event 64
0x950	Smart Lock Duress Alarm (Fingerprint)
0x951	Smart Lock Duress Alarm (Password)
0x952	Smart Lock Broken Alarm
0x953	Smart Lock Locked Alarm
0x954	Smart Lock Low Voltage Alarm
0x955	Smart Lock Blocklist Alarm
0x956	Smart Lock Device Offline Alarm
0x957	Smart Lock Unlatched Alarm
0x958	Smart Lock User Not In Alarm
0x959	Magnetic Contact Detector Alarm
0x95a	Infrared Detector Alarm
0x95b	Fingerprint Locked Alarm
0x95c	Password Locked Alarm
0x95d	Smart Door Lock Duress Alarm
0x95e	Access Module Fire Input Short Circuit Alarm
0x95f	Restore Access Module Fire Input
0x960	Network Loop Alarm
0x961	Restore Network Loop Alarm

Exception Events (0x2)

Value	Description
0x21	Video Signal Loss
0x22	Illegal Access
0x23	HDD Full
0x24	HDD Error
0x25	MODEM Offline
0x26	IP Address Conflict
0x27	Network Disconnected
0x28	Recording Error
0x29	Network Camera Connection Error
0x2a	Video Input Exception
0x2b	Network Camera IP Address Conflicted
0x2e	Video Standard Mismatch
0x31	Video Management System: Fan Status Exception
0x32	Video Management System: Fan Status Recovered
0x33	Video Management System: 6476 Reboot Exception
0x34	Video Management System: dm6467 Exception (Buzzer)
0x35	Network Exception
0x36	Memory Status Exception
0x37	File Status Exception
0x3a	RS485 Connection Exception
0x3b	RS485 Connection Restored
0x400	Power on
0x401	Power off
0x402	Watchdog Reset
0x403	Low Battery Voltage
0x404	Battery Voltage Restored
0x405	AC Power Disconnected
0x406	AC Power Restored
0x407	Network Restored
0x408	Flash Reading and Writing Exception
0x409	Card Reader Offline
0x40a	Card Reader Online
0x40b	Indicator Turns off
0x40c	Indicator Resumed

Value	Description
0x40d	Lane Controller Offline
0x40e	Lane Controller Online
0x40f	Secure Door Control Unit Offline
0x410	Secure Door Control Unit Online
0x411	Low Battery Voltage (Only for Face Recognition Terminal)
0x412	Battery Voltage Recovered (Only for Face Recognition Terminal)
0x413	Network of Distributed Access Controller Disconnected
0x414	Network of Distributed Access Controller Restored
0x415	RS485 Loop of Main Access Controller Disconnected
0x416	RS485 Loop of Main Access Controller Connected
0x417	Distributed Access Controller Offline
0x418	Distributed Access Controller Online
0x419	Downstream RS485 Loop of Distributed Access Control Disconnected
0x41a	Downstream RS485 Loop of Distributed Access Control Connected
0x41b	Distributed Elevator Controller Online
0x41c	Distributed Elevator Controller Offline
0x41d	ID Card Reader Disconnected
0x41e	ID Card Reader Connected
0x41f	Fingerprint Module Disconnected
0x420	Fingerprint Module Connected
0x421	Camera Disconnected
0x422	Camera Connected
0x423	COM Port Disconnected
0x424	COM Port Connected
0x425	Device Unauthorized
0x426	Face Recognition Terminal Online
0x427	Face Recognition Terminal Offline
0x428	Local Login Lock

Value	Description
0x429	Local Login Unlock
0x42a	Communication with Anti-passing Back Server Failed
0x42b	Communication with Anti-passing Back Server Restored
0x42c	Motor or Sensor Exception
0x42d	CAN Bus Exception
0x42e	CAN Bus Exception Restored
0x42f	Too High Pedestal Temperature
0x430	Active Infrared Intrusion Detector Exception
0x431	Active Infrared Intrusion Detector Restored
0x432	Communication with Light Board Failed
0x433	Communication with Light Board Restored
0x434	Communication with IR Adaptor Failed
0x435	Communication with IR Adaptor Restored
0x436	Printer Online
0x437	Printer Offline
0x438	4G Module Online
0x439	4G Module Offline
0x43a	DSP Starting Failed
0x43b	Smart Rule Not Supported
0x43c	Auxiliary Board Disconnected
0x43d	Auxiliary Board Connected
0x43e	Secure ID Card Unit Exception
0x43f	Secure ID Card Unit Restored
0x440	Fingerprint Collection Peripheral Exception
0x441	Fingerprint Collection Peripheral Restored
0x442	Repetitive Attack
0x443	TLS Communication Exception
0x444	Smart Disk Offline
0x445	Smart Disk Online
0x446	Lock Refund
0x447	Coding Disk Online
0x448	Coding Disk Offline

Value	Description
0x449	Keypad Offline
0x44a	Keypad Online
0x44b	5G Module Online
0x44c	5G Module Offline
0x44d	Extension Module (Modules Externally Accessed via USB and Supporting Hot Swapping: E.g., ID Card Reader, Fingerprint Sensor, Bluetooth, QR Code) Online
0x44e	Extension Module (Modules Externally Accessed via USB and Supporting Hot Swapping: E.g., ID Card Reader, Fingerprint Sensor, Bluetooth, QR Code) Offline
0x44f	Disconnect from Multi-Door Interlocking Server
0x450	Restore Communication with Multi-Door Interlocking Server
0x451	QR Code Reader Offline
0x452	QR Code Reader Online
0x453	Lock Health Information Exception
0x454	Unlock Health Information Exception
0x455	Optional Board Offline
0x456	Restore Optional Board Offline
0x457	Lock Offline
0x458	Restore Lock Offline
0x459	Doorbell Offline
0x45a	Restore Doorbell Offline
0x45b	Exit Button Offline
0x45c	Restore Exit Button Offline
0x45d	Lock Low Battery
0x45e	Lock Low Battery Restored
0x45f	Lock Battery to Be Depleted
0x460	Card Reader Low Battery
0x461	Card Reader Low Battery Restored
0x462	Exit Button Low Battery
0x463	Exit Button Low Battery Restored
0x464	Unlocking Stops Unexpectedly
0x465	Locking Stops Unexpectedly
0x466	Relay Offline
0x467	Restore Relay Offline
0x468	Relay Low Battery
0x469	Relay Low Battery Restored
0x46a	Lock Extremely Low Battery
0x900 to 0x93f	Access Control: Custom Exception Event 1 to Custom Exception Event 64

Value	Description
0x950	Switch to Wired Network
0x951	Switch to Wireless Network
0x952	Restore Smart Lock Offline
0x953	USB Camera Online
0x954	USB Camera Offline
0x955	Communication Exception Occurred During Distributed Controller Backup
0x956	Social Security Card Reader Online
0x957	Social Security Card Reader Offline
0x958	Turnstile Infrared Component Exception
0x959	Turnstile Infrared Running Exception
0x95a	Turnstile Infrared Detection Exception
0x95b	No Calibration Target in Turnstile Infrared Detection
0x95c	Incorrect Calibration Distance from Turnstile Infrared Target
0x95d	Channel Width Not Applied to Turnstile Infrared Detector
0x95e	Lock Control Board Online
0x95f	Lock Control Board Offline

Operation Events (0x3)

Value	Description
0x41	Startup
0x42	Shutdown
0x43	Shutdown Exception
0x44	Local: Device Restart
0x50	Local Login
0x51	Local Logout
0x52	Local: Configuration
0x53	Local: Playback/Download by File
0x54	Local: Playback/Download by Time
0x55	Local: Start Recording
0x56	Local: Stop Recording
0x59	Local: Edit Time
0x5a	Local Upgrade
0x5b	Local: Back Up Recording File(s)
0x5c	Local: Initialize HDD
0x5d	Local: Export Configuration File
0x5e	Local: Import Configuration File

Value	Description
0x5f	Local: Back Up Files
0x60	Local: Lock Recording Files
0x61	Local: Unlock Recording Files
0x62	Local: Manually Clear and Trigger Alarms
0x66	Local: Start Backup
0x67	Local: Stop Backup
0x68	Local: Start Time of Backup
0x69	Local: End Time of Backup
0x6d	Local: Restore Admin's Default Password
0x70	Remote Login
0x71	Remote Logout
0x72	Remote: Start Recording
0x73	Remote: Stop Recording
0x74	Start Transparent Transmission
0x75	Stop Transparent Transmission
0x76	Remote: Get Parameters
0x77	Remote: Configure Parameters
0x78	Remote: Get Status
0x79	Remote Arming
0x7a	Remote Disarming
0x7b	Remote Reboot
0x7c	Start Two-Way Audio
0x7d	Stop Two-Way Audio
0x7e	Remote Upgrade
0x7f	Remote: Playback/Download by File
0x80	Remote: Playback/Download by Time
0x83	Remote: Shutdown
0x84	Remote: Lock File
0x85	Remote: Unlock File
0x86	Remote Operation: Export Configuration File
0x87	Remote Operation: Import Configuration File
0x88	Remote: Export Recording Files
0x89	Remote: Manually Clear and Trigger Alarms
0x8a	Remote: Add Network Camera
0x8b	Remote: Delete Network Camera
0x8c	Remote: Set Network Camera

Value	Description
0x9a	Remote: Delete Exceptional HDD
0x9b	Remote: Load HDD
0x9c	Remote: Uninstall HDD
0x9d	Local: Lock
0x9e	Local: Unlock
0xd6	Remote Operation: Enable Alarm Output Manually
0xd7	Remote Operation: Disable Alarm Output Manually
0x137	Remote: Lock Login
0x138	Remote: Unlock Login
0x200	Other Operations
0x400	Door Remotely Open
0x401	Door Remotely Closed
0x402	Remain Open Remotely
0x403	Remain Closed Remotely
0x404	Remote: Manual Time Sync
0x405	Network Time Protocol Synchronization
0x406	Remote Operation: Clear All Card No.
0x407	Remote Operation: Restore Defaults
0x408	Zone Arming
0x409	Zone Disarming
0x40a	Local Operation: Restore Defaults
0x40b	Remote Operation: Capture
0x40c	Edit Network Parameters
0x40d	Edit GPRS Parameters
0x40e	Edit Control Center Parameters
0x40f	Enter Dismiss Code
0x410	Auto Renumber
0x411	Auto Supplement Number
0x412	Import Configuration File
0x413	Export Configuration File

Value	Description
0x414	Import Card Permission Parameters
0x415	Export Card Permission Parameters
0x416	Upgrade Device via USB Flash Drive
0x417	Visitor Calling Elevator
0x418	Resident Calling Elevator
0x419	Remotely Arming
0x41a	Remotely Disarming
0x41b	Operation Failed: Keyfob Not Pairing
0x41c	Keyfob Operation: Close Door
0x41d	Keyfob Operation: Open Door
0x41e	Keyfob Operation: Remain Door Open
0x41f	M1 Card Encryption Verification Enabled
0x420	M1 Card Encryption Verification Disabled
0x421	Opening Door with NFC Card Enabled
0x422	Opening Door with NFC Card Disabled
0x423	Export Offline Collected Data
0x42d	Establish SSH Connection
0x42e	Disconnect SSH Connection
0x42f	Local: Import Person Data
0x430	Local: Export Person Data
0x431	Create Certificate
0x432	Upload Certificate
0x433	Delete Certificate
0x434	Consumption Armed
0x435	Consumption Disarmed
0x436	Change QR Code Secret Key
0x437	Remote: Upgrade Lock
0x438	Remote: Upgrade Card Reader
0x439	Remote: Upgrade Exit Button
0x43a	Remote: Upgrade Doorbell
0x43b	AP Mode Switch
0x43c	Enable Registration Mode
0x43d	Card Reader Added
0x43e	Lock Added

Value	Description
0x43f	Doorbell Added
0x440	Exit Button Added
0x441	Delete Card Reader (Unbound from Security Control Panel)
0x442	Delete Door Lock (Unbound from Security Control Panel)
0x443	Delete Doorbell (Unbound from Security Control Panel)
0x444	Delete Exit Button (Unbound from Security Control Panel)
0x445	Enable Card Swiping on Card Reader
0x446	Disable Swiping Card on Card Reader
0x447	Enable Card Reader Button
0x448	Disable Card Reader Button
0x449	Enable Card Reader Proximity Sensor
0x44a	Disable Card Reader Proximity Sensor
0x44b	Enable Card Reader Buzzer
0x44c	Disable Card Reader Buzzer
0x44d	Enable Card Reader Bluetooth
0x44e	Disable Card Reader Bluetooth
0x44f	Remote: Upgrade Relay
0x450	Relay Added
0x451	Delete Relay
0x900-0x93f	Access Control: Custom Operation Event 1 to Custom Operation Event 64
0x940	Live Broadcast
0x941	Scheduled Broadcast
0x942	Local: Import Cuisine Data
0x943	Local: Export Cuisine Data
0x950	Set Wi-Fi Parameters
0x951	Log In to Cloud Service
0x952	Log Out from Cloud Service
0x953	Add Smart Lock
0x954	Delete Smart Lock
0x955	Get Smart Lock Status
0x956	Apply Temporary Password of Smart Lock
0x957	Set Smart Lock Mute Parameters
0x958	Set Smart Lock Late-Return Notifications
0x959	Link Smart Lock with Network Camera
0x95a	Unlink Smart Lock with Network Camera
0x95b	Link Smart Lock with Detector
0x95c	Unlink Smart Lock with Detector
0x95d	Enable Smart Lock Message Notification
0x95e	Disable Smart Lock Message Notification
0x95f	Set Smart Lock Heartbeat

Value	Description
0x960	Reboot Smart Lock
0x961	Clear Users of Smart Lock
0x962	Format Smart Lock
0x963	Change Smart Lock Fingerprint
0x964	Change Smart Lock Password
0x965	Change Smart Lock Card Information
0x966	Change Smart Lock User Information
0x967	Change Smart Lock System Information
0x968	Add User to Smart Lock
0x969	Delete User from Smart Lock
0x96a	Change Username of Smart Lock's Custom User
0x96b	Change Smart Lock Keyfob Information
0x96c	Add Fingerprint to Smart Lock
0x96d	Delete Fingerprint from Smart Lock
0x96e	Add Password to Smart Lock
0x96f	Delete Password from Smart Lock
0x970	Add Card to Smart Lock
0x971	Delete Card from Smart Lock
0x972	Change Smart Lock Network Status
0x973	Clear Smart Lock Network Data
0x974	Clear Smart Lock Hosts
0x975	Clear Smart Lock Guests
0x976	Clear Keyfob User Information
0x977	Clear Normal Users' Fingerprints on Smart Lock
0x978	Clear All Cards on Smart Lock
0x979	Clear All Smart Lock Passwords
0x97a	Enable Device Hotspot
0x97b	Disable Device Hotspot
0x97c	Authorize Panic Management Card to Normal Card
0x97d	Change Channel Mode
0x97e	Doorbell Event (Triggered by Lock Operation)
0x97f	Access Module Restarts
0x980	Restore Access Module Parameters
0x981	Local: Restore Default Parameters of AP Password
0xf0	Local: Activate Device
0xf1	Remote: Activate Device
0xf2	Local: Restore Default Settings
0xf3	Remote: Restore Default Settings
0x2600	Local: Reset Admin Login Password
0x2601	Remote: Reset Admin Login Password

Additional Information (0x4)

Value	Description
0xa1	HDD information
0xaa	System Running Status Information
0xbd	Global Error Information
0xbe	Buffer Status Log
0xbf	HDD Error Detailed Information
0xc0	Cloud Storage Data Expired
0xc1	Platform Information
0xc2	Dial-Up Status
0xc3	Unlocking Log
0xc4	Zone Alarm
0xc5	Call Log
0xc6	Accessory Board Information
0xc9	Smart Board Status
0xcb	Auto Time Sync
0xcc	Cloud Service Running Status
0xd8	Formatting HDD Starts
0xd9	Formatting HDD Stops
0x400	Enable Live Facial Detection
0x401	Disable Live Facial Detection
0x402	Clear Collected Data
0x403	Delete Collected Data
0x404	Export Collected Data
0x405	Set Card Length
0x406	Initializing Database Failed
0x407	Upgrade Database Patch
0x408	Insert Psam Card
0x409	Pull out Psam Card
0x40a	Hardware Restarts Unexpectedly (hardFault)
0x40b	Psam Card Overcurrent Protection
0x40c	Stack Overflow
0x40d	Configure Parameters
0x40e	Clear All Users
0x40f	Clear All Cards
0x410	Clear All Fingerprints by Card Reader
0x411	Clear All Fingerprints by Card No.
0x412	Clear All Fingerprints by Employee ID
0x413	Delete a Fingerprint
0x414	Clear All Weekly Permission Schedules
0x415	Set Weekly Permission Schedule

0x416	Set Holiday Permission Schedule
0x417	Clear All Holiday Permission Schedules
0x418	Set Holiday Group Permission Schedule
0x419	Clear All Holiday Group Permission Schedules
0x41a	Clear All Permission Schedules
0x41b	Set Permission Schedule
0x41c	Add Card
0x41d	Edit Card
0x41e	Add Fingerprint by Card No.
0x41f	Add Fingerprint by Employee ID
0x420	Edit Fingerprint by card No.
0x421	Edit Fingerprint by Employee ID
0x422	Import User List (Collected Offline)
0x423	USB Login
0x424	USB Logout
0x425	ISAPI and HTTP Login
0x426	ISAPI and HTTP Logout
0x427	ISAPI and HTTPS Login
0x428	ISAPI and HTTPS Logout
0x429	ISUP Online
0x42a	ISUP Offline
0x42b	Fingerprint Card Issuing Records
0x42c	Face Picture Card Issuing Records
0x42d	Add Iris
0x42e	Edit Iris
0x42f	Delete Users' Irises (By Employee ID)
0x430	Delete All Irises
0x431	Edit Iris Parameters
0x432	Add Person Information
0x433	Edit Person Information
0x434	Delete Person Information (by Employee ID)
0x435	Delete Card by Card No. or Employee ID
0x436	Delete All Cards
0x437	SIM Card Inserted
0x438	SIM Card Unplugged
0x439	Enable Fingerprint Recognition
0x43a	Disable Fingerprint Recognition
0x43b	Enable Face Capture
0x43c	Disable Face Capture
0x43d	Reset Online Card Reader
0x43e	Clear Registered Iris Pictures
0x43f	Add Voiceprint

0x440	Edit Voiceprint
0x441	Delete Voiceprint
0x442	Delete All Voiceprints
0x443	Face Picture Data Library Upgrade Log Records

Other Events (0x5)

Value	Description
0x01	Valid Card Authentication Completed
0x02	Card and Password Authentication Completed
0x03	Card and Password Authentication Failed
0x04	Card and Password Authentication Timed Out
0x05	Card and Password Authentication Timed Out
0x06	No Permission
0x07	Invalid Card Swiping Time Period
0x08	Expired Card
0x09	Card No. Not Exist
0x0a	Anti-passing Back Authentication Failed
0x0b	Interlocking Door Not Closed
0x0c	Card Not in Multiple Authentication Group
0x0d	Card Not in Multiple Authentication Duration
0x0e	Multiple Authentications: Super Password Authentication Failed
0x0f	Multiple Authentication Completed
0x10	Multiple Authenticated
0x11	Open Door with First Card Started
0x12	Open Door with First Card Stopped
0x13	Remain Open Started
0x14	Remain Open Stopped
0x15	Door Unlocked
0x16	Door Locked
0x17	Exit Button Pressed
0x18	Exit Button Released

0x19	Door Open (Contact)
0x1a	Door Closed (Contact)
0x1b	Door Abnormally Open (Contact)
0x1c	Door Open Timed Out (Contact)
0x1d	Alarm Output Enabled
0x1e	Alarm Output Disabled
0x1f	Remain Closed Started
0x20	Remain Closed Stopped
0x21	Multiple Authentications: Remotely Open Door
0x22	Multiple Authentications: Super Password Authentication Completed
0x23	Multiple Authentications: Repeated Authentication
0x24	Multiple Authentications Timed Out
0x25	Doorbell Ring
0x26	Fingerprint Matched
0x27	Fingerprint Mismatched
0x28	Card and Fingerprint Authentication Completed
0x29	Card and Fingerprint Authentication Failed
0x2a	Card and Fingerprint Authentication Timed Out
0x2b	Card and Fingerprint and Password Authentication Completed
0x2c	Card and Fingerprint and Password Authentication Failed
0x2d	Card and Fingerprint and Password Authentication Timed Out
0x2e	Fingerprint and Password Authentication Completed
0x2f	Fingerprint and Password Authentication Failed
0x30	Fingerprint and Password Authentication Timed Out
0x31	Fingerprint Not Exists
0x32	Card Platform Authentication
0x33	Call Center
0x34	Fire Relay Closed: Door Remains Open
0x35	Fire Relay Opened: Door Remains Closed
0x36	Access Granted by Face and Fingerprint

0x37	Access Denied by Face and Fingerprint
0x38	Access Timed Out by Face and Fingerprint
0x39	Access Granted by Face and PIN
0x3a	Access Denied by Face and PIN
0x3b	Access Timed Out by Face and PIN
0x3c	Access Granted by Face and Card
0x3d	Access Denied by Face and Card
0x3e	Access Timed Out by Face and Card
0x3f	Access Granted by Face, PIN, and Fingerprint
0x40	Access Denied by Face, PIN, and Fingerprint
0x41	Access Timed Out by Face, PIN, and Fingerprint
0x42	Access Granted by Face, Card, and Fingerprint
0x43	Access Denied by Face, Card, and Fingerprint
0x44	Access Timed Out by Face, Card, and Fingerprint
0x45	Employee ID and Fingerprint Authentication Completed
0x46	Employee ID and Fingerprint Authentication Failed
0x47	Employee ID and Fingerprint Authentication Timed Out
0x48	Employee ID and Fingerprint and Password Authentication Completed
0x49	Employee ID and Fingerprint and Password Authentication Failed
0x4a	Employee ID and Fingerprint and Password Authentication Timed Out
0x4b	Face Authentication Completed
0x4c	Face Authentication Failed
0x4d	Employee ID and Face Authentication Completed
0x4e	Employee ID and Face Authentication Failed
0x4f	Employee ID and Face Authentication Timed Out
0x50	Face Recognition Failed
0x51	First Card Authorization Started
0x52	First Card Authorization Ended
0x53	Lock Input Short Circuit Attempts Alarm
0x54	Lock Input Open Circuit Attempts Alarm
0x55	Lock Input Exception Alarm
0x56	Contact Input Short Circuit Attempts Alarm
0x57	Contact Input Open Circuit Attempts Alarm

0x58	Contact Input Exception Alarm
0x59	Exit Button Input Short Circuit Attempts Alarm
0x5a	Exit Button Input Open Circuit Attempts Alarm
0x5b	Exit Button Input Exception Alarm
0x5c	Unlocking Exception
0x5d	Unlocking Timed Out
0x5e	Unauthorized First Card Opening Failed
0x5f	Call Elevator Relay Open
0x60	Call Elevator Relay Closed
0x61	Auto Button Relay Open
0x62	Auto Button Relay Closed
0x63	Button Relay Open
0x64	Button Relay Closed
0x65	Employee ID and Password Authentication Completed
0x66	Employee ID and Password Authentication Failed
0x67	Employee ID and Password Authentication Timed Out
0x68	Human Detection Failed
0x69	Person and ID Card Matched
0x70	Person and ID Card Mismatched
0x71	Blocklist Event
0x72	Valid Message
0x73	Invalid Message
0x75	Authentication Failed: Door Remain Closed or Door in Sleeping Mode
0x76	Authentication Failed: Authentication Schedule in Sleeping Mode
0x77	Card Encryption Verification Failed
0x78	Anti-passing Back Server Response Failed
0x82	Open Door via Exit Button Failed When Door Remain Closed or in Sleeping Mode
0x84	Door Linkage Open Failed During Door Remain Close or Sleeping
0x85	Tailgating

0x86	Reverse Passing
0x87	Force Accessing
0x88	Climb Over
0x89	Passing Timed Out
0x8a	Intrusion Alarm
0x8b	Authentication Failed When Free Passing
0x8c	Barrier Obstructed
0x8d	Barrier Restored
0x8e	Failed to Update Local Face Modeling by Device
0x8f	Overstay
0x90	Allowlist Authentication Succeeded
0x91	Authenticating Allowlist Failed
0x92	Face Picture Collecting Event (No Authentication, Uploaded during Remote Verification)
0x93	Card Collecting Event (No Authentication, Uploaded during Remote Verification)
0x94	Failed Attempts of Authentication via Password Reached Limit
0x95	ID Card Collecting Event (No Authentication, Uploaded during Remote Verification)
0x96	Authentication via Password Failed
0x97	Passwords Mismatched
0x98	Employee ID Not Exists
0x99	Combined Authentication Completed
0x9a	Combined Authentication Timed Out
0x9b	Authentication Type Mismatched
0x9c	Authenticated via QR Code
0x9d	Authentication via QR Code Failed
0x9e	Authenticated via Householder
0x9f	Authenticated via Bluetooth
0xa0	Authentication via Bluetooth Failed
0xa1	Verifying Passport Failed
0xa2	Authentication Failed: Invalid M1 Card
0xa3	Verifying CPU Card Encryption Failed
0xa4	Disabling NFC Verification Failed
0xa5	LoRa Module Online

0xa6	LoRa Module Offline
0xa7	MQTT Connection Status
0xa8	EM Card Recognition Disabled
0xa9	M1 Card Recognition Disabled
0xaa	CPU Card Recognition Disabled
0xab	ID Card Recognition Disabled
0xac	Importing Key to Card Failed
0xad	Local Upgrade Failed
0xae	Remote Upgrade Failed
0xaf	Extension Module is Remotely Upgraded
0xb0	Upgrading Extension Module Remotely Failed
0xb1	Fingerprint Module is Remotely Upgraded
0xb2	Upgrading Fingerprint Module Remotely Failed
0xb3	Dynamic Verification Code Authenticated
0xb4	Authentication with Verification Code Failed
0xb5	Password Authenticated
0xb6	Consumption Timed Out
0xb7	Refund Timed Out
0xb8	Consumption Amount Exceeded Limit
0xb9	Consumption Times Reached Limit
0xba	Consumption Confirmation Timed Out
0xbb	Number of Blocklists Reached Limit
0xbc	Verifying Desfire Card Encryption Failed
0xbd	Desfire Card Reading Disabled
0xbe	Access Granted by Iris
0xbf	Access Denied via Iris
0xc0	Iris Anti-Spoofing Detection Failed
0xc1	Number of People Exceeds 90% of Capacity
0xc2	Local Attendance Records Exceeded Limit
0xc3	Authentication of Dynamic Authentication Code Expired
0xc4	Meeting Not Checked In
0xc5	Meeting Check-In
0xc6	Meeting Late
0xc9	Deleting Multi-Door Interlocking Failed
0xca	Authentication Failed: Fingerprint Recognition Not Enabled
0xcb	Authentication Failed: Face Capture Disabled

0xcc	Open Door During Live View
0xcd	Restore Card Reader to Factory Settings
0xce	Card Reader ID Conflict
0xcf	FeliCa Card Recognition Disabled
0xd0	Authentication Failed Due to Abnormal Features (e.g., Not Wearing Mask or Hard Hat, Abnormal Temperature)
0xd1	Non Meeting Participant Check-In
0xd2	Meeting Participant Check-In In Vacant Status
0xd3	Duplicate Check-In by Meeting Participant
0xd4	Person Authentication Times Reached Limit
0xd5	Upgrading Face Modeling Failed Due to Incompatible Version
0xd6	Upload Device Unlocking Record Event
0xd7	Door Not-Opened Alarm
0xd8	Door Not-Closed Alarm
0xd9	Verifying QR Code Secret Key Failed
0xda	Passing Event
0xdb	Person and Social Security Card Matched
0xdc	Person and Social Security Card Mismatched
0xdd	Wearing Mask
0xdf	Captured Picture Too Small
0xe0	Access Module Upgraded
0xe1	Upgrading Access Module Failed
0xe2	Access Granted by Employee ID
0xe3	Access Granted by NFC
0xe4	Access Denied by NFC
0xe5	Unlock by Public Password Event
0xe6	Card Reader Upgraded
0xe7	Upgrading Card Reader Failed
0x500 to 0x53f	Access Control: Custom Event 1 to Custom Event 64
0x540	Electrostatic Discharge Testing Passed
0x541	Electrostatic Discharge Testing Not Passed (Door Not Opened)
0x542	Electrostatic Discharge Testing Not Passed (Door Opened)
0x543	Electrostatic Discharge Testing Timed Out
0x544	Remotely Import Person Data
0x545	Remotely Export Person Data
0x600	Smart Lock: Open Door with Fingerprint
0x601	Smart Lock: Open Door with Password
0x602	Smart Lock: Open Door by Card Swiping
0x603	Smart Lock: Open Door by Center
0x604	Smart Lock: Open Door with App
0x605	Smart Lock: Open Door with Key
0x606	Smart Lock: Open Door with Keyfob

0x607	Smart Lock: Open Door with Temporary Password
0x608	Smart Lock: Open Door by Bluetooth
0x609	Smart Lock: Open Door by Multi-Factor Authentication
0x700	Voiceprint Anti-Spoofing Detection Failed
0x701	Voiceprint Authentication Failed
0x702	Channel Upgrading
0x703	Channel Learning
0x704	Device Self-Testing
0x705	Motor Self-Testing
0x706	Barrier Angle Adjusting
0x707	Access Granted by Palmprint and Palm Veins
0x708	Access Denied by Palmprint and Palm Veins
0x709	Palmprint and Palm Veins Anti-Spoofing Detection Failed
0x800	Security Area Is Not Clear
0x801	Anti-Pinch area Is Not Clear
0x802	Motor Brake Is Operating
0x803	Infrared Self-Test Failed
0x804	Motor Studying Failed
0x805	Do Not Open Barrier When Lane Is Not Clear
0x806	Exception Occurred In Motor Drive Board
0x807	Exception Occurred In Motor Encoder
0x808	Motor Is Over Current
0x809	Motor Is Over Voltage
0x80a	Motor Is Under Voltage
0x80b	Exception Occurred In Motor
0x80c	Permission Authentication Is Intercepted
0x80d	Access Granted by Keyfob
0x80e	Access Denied via Keyfob
0x80f	Invalid Face Recognition Angle
0x810	Secondary Authentication of Large Consumption Failed
0x811	Secondary Authentication of Similar Consumer Failed
0x812	Door Offline
0x813	Door Interlocking Delaying
0x814	Passing Allowed (Door Not Used)
0x815	Lock When Failed Attempts to Authenticate via Card No. Exceed Limit
0x816	Secure Door Control Unit Not Matched
0x817	Exceptional IR Auto Shield
0x818	Auto-Restore Exceptional IR
0x819	Incorrect Cabinet User Type for Article Deposit

Event Linkage Types

For event card linkages, if the linkage type is event, four major event linkage types are available: 0-device event linkage, 1-alarm input event linkage, 2-access control point (e.g., doors, elevators, etc.) event linkage, and 3-authentication unit (e.g., card reader, fingerprint module, etc.) event linkage. Each major event linkage type corresponds multiple minor types of event linkage, see details in the following content.

Device Event Linkage

Value	Description
0	Access Controller Tampering Alarm
1	No Memory Alarm
2	Network Disconnected
3	Network Connected
4	Low Battery Voltage
5	Battery Fully Charged
6	AC Power Off
7	AC Power On
8	SD Card Full Alarm
9	Capture Linkage Event Alarm
10	Low Face Picture Quality
11	Low Fingerprint Picture Quality
12	Low Battery Voltage
13	Battery Fully Charged
14	Fire Input Short Circuit Attempts Alarm
15	Fire Input Open Circuit Attempts Alarm
16	Fire Input Alarm Restored
17	RS485 Loop of Main Access Controller Disconnected
18	RS485 Loop of Main Access Controller Connected
19	Distributed Access Controller Offline
20	Distributed Access Controller Online

Value	Description
21	Downstream RS485 Loop of Distributed Access Control Disconnected
22	Downstream RS485 Loop of Distributed Access Control Connected
23	Distributed Elevator Controller Online
24	Distributed Elevator Controller Offline
25	Fire Button Pressed
26	Fire Button Released
27	Maintenance Button Pressed
28	Maintenance Button Released
29	Panic Button Pressed
30	Panic Button Released
32	Communication with Anti-passing Back Server Failed
33	Communication with Anti-passing Back Server Restored
34	Remotely Armed
35	Remotely Disarmed
36	Motor or Sensor Exception
37	CAN Bus Exception
38	CAN Bus Restored
39	Too High Pedestal Temperature
40	Active Infrared Intrusion Detector Exception
41	Active Infrared Intrusion Detector Restored
42	Communication with Light Board Failed
43	Communication with Light Board Restored
44	Communication with IR Adaptor Failed
45	Communication with IR Adaptor Restored
46	Lane Controller Tampering Alarm
47	Lane Controller Tampering Alarm Restored
48	Lane Controller Fire Input Alarm
49	Lane Controller Fire Input Alarm Restored
50	Staying Event

Value	Description
51	No Memory for Unreported and Access Granted Events
52	Fire Input Alarm
53	No-Mask Alarm
54	Upload Fire Alarm Matrix
55	Lock Health Information Exception
56	Unlock Health Information Exception
57	Upload Network Camera Event
58	Optional Board Offline
59	Restore Optional Board
60	Access Module Fire Input Short Circuit Alarm
61	Restore Access Module Fire Input
62	Access Module Tempering Alarm
63	Restore Access Module Tempering Alarm
64	Panic Alarm
65	Consultation Calling
66	Main Station Calling
67	VoIP Calling
68	Terminal Zone Alarm
69	Terminal Tempering Alarm
70	Terminal: Sudden Increase/Decrease of Sound Intensity Alarm

Alarm Input Event Linkage

Value	Description
0	Zone Short Circuit Attempts Alarm
1	Zone Open Circuit Attempts Alarm
2	Zone Exception Alarm
3	Zone Alarm Restored
4	Alarm Input Alarm
5	Alarm Input Alarm Restored
6	I/O Port Short Circuit Alarm

Access Control Point Event Linkage

Value	Description
0	Open Door with First Card Started

Value	Description
1	Open Door with First Card Ended
2	Remain Open Started
3	Remain Open Ended
4	Remain Closed Started
5	Remain Closed Ended
6	Door Unlocked
7	Door Locked
8	Exit Button Pressed
9	Exit Button Released
10	Door Open (Contact)
11	Door Closed (Contact)
12	Door Abnormally Open (Contact)
13	Door Open Timed Out (Contact)
14	Door Remotely Open
15	Door Remotely Closed
16	Remain Open Remotely
17	Remain Closed Remotely
18	Card Not in Multiple Authentication Group
19	Card Not in Multiple Authentication Duration
20	Multiple Authentication Mode: Super Password Authentication Failed
21	Multiple Authentication Mode: Remote Authentication Failed
22	Multiple Authentication Completed
23	Multiple Authentication: Remotely Open Door
24	Multiple Authentication: Super Password Authentication Completed
25	Multiple Authentication: Repeated Authentication Failed
26	Multiple Authentication Timed Out
27	Remote Capture
28	Doorbell Ring
29	Secure Door Control Unit Tampering Alarm

Value	Description
30	Center Event
31	First Card Authentication Started
32	First Card Authentication End
33	Lock Input Short Circuit Attempts Alarm
34	Lock Input Open Circuit Attempts Alarm
35	Lock Input Exception Alarm
36	Contact Input Short Circuit Attempts Alarm
37	Contact Input Open Circuit Attempts Alarm
38	Contact Input Exception Alarm
39	Exit Button Input Short Circuit Attempts Alarm
40	Exit Button Input Open Circuit Attempts Alarm
41	Exit Button Input Exception Alarm
42	Unlocking Exception
43	Unlocking Timed Out
44	Unauthorized First Card Opening Failed
45	Call Elevator Relay Open
46	Call Elevator Relay Closed
47	Auto Button Relay Open
48	Auto Button Relay Closed
49	Button Relay Open
50	Button Relay Closed
51	Visitor Calling Elevator
52	Resident Calling Elevator
53	Valid Message
54	Invalid Message
55	Tailgating
56	Reverse Passing
57	Force Collision
58	Climbing Over

Value	Description
59	Passing Timed Out
60	Intrusion Alarm
61	Authentication Failed When Free Passing
62	Barrier Obstructed
63	Barrier Restored
64	Door Closed via Keyfob
65	Door Opened via Keyfob
66	Remain Open via Keyfob

Authentication Unit Event Linkage

Value	Description
0	Duress Alarm
1	Card Reader Tampering Alarm
2	Valid Card Authentication Completed
3	Card and Password Authentication Completed
4	Card and Password Authentication Failed
5	Card and Password Authentication Timed Out
6	Card Authentication Attempts Reach Limit
7	No Permission for Card
8	Invalid Card Swiping Time Period
9	Expired Card
10	Card No. Not Exist
11	Anti-passing Back Authentication Failed
12	Interlocking Door Not Closed
13	Fingerprint Matched
14	Fingerprint Mismatched
15	Card and Fingerprint Authentication Completed
16	Card and Fingerprint Authentication Failed
17	Card and Fingerprint Authentication Timed Out

Value	Description
18	Card, Fingerprint, and Password Authentication Completed
19	Card and Fingerprint Authentication Failed
20	Card and Fingerprint Authentication Timed Out
21	Fingerprint and Password Authentication Completed
22	Fingerprint and Password Authentication Failed
23	Fingerprint and Password Authentication Timed Out
24	Fingerprint Not Exist
42	Employee ID and Fingerprint Authentication Completed
43	Employee ID and Fingerprint Authentication Failed
44	Employee ID and Fingerprint Authentication Timed Out
45	Employee ID, Fingerprint, and Password Authentication Completed
46	Employee ID, Fingerprint, and Password Authentication Failed
47	Employee ID, Fingerprint, and Password Authentication Timed Out
52	Employee ID and Password Authentication Completed
52	Employee ID and Password Authentication Failed
53	Employee ID and Password Authentication Timed Out
57	Authentication Failed When Door Remain Closed or Door in Sleeping Mode
58	Authentication Failed When Authentication Schedule in Sleeping Mode
59	Card Encryption Verification Failed
60	Anti-passing Back Server Response Failed
61	Password Mismatched
62	Employee ID Not Exist
63	Combined Authentication Completed
64	Combined Authentication Timed Out
65	Authentication Type Mismatched
67	Maximum Password Authentication Failure Attempts
68	Password Authenticated
69	Password Authentication Failed

Value	Description
70	QR Code Authenticated
71	QR Code Authentication Failed
72	Resident Authorization Authenticated
73	Bluetooth Authenticated
74	Bluetooth Authentication Failed
75	Authentication Failed: Invalid M1 Card
76	Verifying CPU Card Encryption Failed
77	Disabling NFC Verification Failed
78	EM Card Recognition Disabled
7	M1 Card Recognition Disabled
80	CPU Card Recognition Disabled
81	ID Card Recognition Disabled
82	Importing Key to Card Failed
83	Verifying Desfire Card Encryption Failed
84	Desfire Card Reading Disabled
85	Access Granted by Iris
86	Access Denied by Iris
87	Iris Anti-Spoofing Detection Failed
88	FeliCa Card Recognition Disabled
89	QR Code Recognized
90	Voiceprint Anti-Spoofing Detection Failed
91	Voiceprint Authentication Failed
92	Electrostatic Discharge Testing Passed
93	Electrostatic Discharge Testing Not Passed (Door Opened)
94	Electrostatic Discharge Testing Not Passed (Door Not Opened)
95	Electrostatic Discharge Testing Timed Out
96	Person and Social Security Card Matched
97	Person and Social Security Card Mismatched
98	Access Granted by Palmprint and Palm Veins
99	Access Denied by Palmprint and Palm Veins
100	Blocklist Event