



Feature Description Document

Understanding Access Rules



Purpose

This document explains the various access rules available on the IXM WEB.

Applies to

TITAN	TFACE	TOUCH 2	SENSE 2	MERGE 2	MYCRO
All Devices	All Devices	All Devices	All Devices	All Devices	All Devices

Description

Understanding Access Rules

- Access rules are the types of access control methods that can be used with Invixium devices. Depending on the IXM Device and the model, administrators can assign the following access rules individually or in combination:
 - Biometric access i.e. fingerprints, finger vein, or face recognition
 - Card access i.e. access cards
 - PIN access i.e. a 4-digit code
 - ID access i.e. the user ID
- Administrators can assign access rules to the user during user registration.
- Administrators can assign any access rule from the ones listed above. However, the device needs to support the selected access rule. For example – if the user is assigned “Card + Biometric Strict” and the device model is FP1 (biometric only); access to the user will be denied.



- The “Private Authentication” feature (found under the **Devices** tab >> **General Settings** navigation tab >> **Biometric** section) describes which access rule will be used during authentication. If this status is ‘ACTIVE’ then the User Access rule will be applied. If the administrator wants to mandate all users to follow the same access rules, then toggle this feature to ‘INACTIVE’. Depending on the source of Identification/Verification, the Device (Global) access rule will be applied during authentication.
- The user access rule is the access rule assigned to individual users during registration.
- The device access rule is the access rule that applies to the installed device and is independent of the user access rule. If the “Private Authentication” feature is INACTIVE, then the device access rules will apply to all users, regardless of the access rules assigned to the user.

Biometric

SECURITY LEVEL

FINGERPRINT

Low Medium High Very High Maximum

1:1 Security

Low Medium High Very High Maximum

1: N Security

DEVICE MODE

Device Type: Identification

Time Out (sec): 10

ACCESS RULE

Biometric Access: Biometric Only

Card Access: Card + Biometrics

ID Access: ID + Biometrics

SECURITY SETTINGS

Private Authentication

Disable Identification

Disable Biometric in Verification

Access Schedule in Duress

Disable PIN

APPLY **RESET**



Device Modes (Authentication Modes)

All IXM biometric devices support identification (1: N) and verification (1: 1) modes. These modes are used to specify the operating mode of the device.

- When the device is in identification mode, it will allow verification from a card or ID.
- When the device is in verification mode, identification will not work.

Biometric Access: The biometric access rule will be applied when authentication is initiated by placing a finger on the sensor (identification).

Card Access: The card access rule will be applied only when authentication is initiated by card (verification).

ID Access: The ID access rule will be applied only when authentication is initiated by the touchscreen keypad (verification).

Face Access: The face access rule will be applied when authentication is initiated by the enrolled face (identification).

NOTE: The face access rule will be applicable only for the TITAN Devices.



Applicable Access Rules for each IXM Device Model

Each IXM device and model supports different access rules. Moreover, different models support different access cards. Please refer to the brochure for the cards supported by each model. The table below describes the access rules supported by each device.

#	Device	Sensor	Model	Access Rules Applicable
1	MYCRO	FP	1	Biometric Only, Biometric Only Strict
2			2	Biometric Only, Biometric Only Strict, Card + Biometric, Card + Biometric Strict
3			3	Biometric Only, Biometric Only Strict, Card + Biometric, Card + Biometric Strict
4			4	Biometric Only, Biometric Only Strict, Card + Biometric, Card + Biometric Strict
5			5	Biometric Only, Biometric Only Strict, Card + Biometric, Card + Biometric Strict
6	TFACE	FP	1	Biometric Only, Biometric Only Strict
7			2	Biometric Only, Biometric Only Strict, Card + Biometric, Card + Biometric Strict
8			3	Biometric Only, Biometric Only Strict, Card + Biometric, Card + Biometric Strict
9			4	Biometric Only, Biometric Only Strict, Card + Biometric, Card + Biometric Strict
10			5	Biometric Only, Biometric Only Strict, Card + Biometric, Card + Biometric Strict
11	SENSE 2	FPL/FP	1	Biometric Only, Biometric Only Strict
12			2	Biometric Only, Biometric Only Strict, Card + Biometric, Card + Biometric Strict
13			3	Biometric Only, Biometric Only Strict, Card + Biometric, Card + Biometric Strict
14			4	Biometric Only, Biometric Only Strict, Card + Biometric, Card + Biometric Strict
15			5	Biometric Only, Biometric Only Strict, Card + Biometric, Card + Biometric Strict
16	TOUCH 2	FP/FPL	1	Biometric Only, Biometric Only Strict, Biometric + PIN, Biometric + PIN Strict, ID Only, ID Only Strict, ID + Biometric, ID + Biometric Strict, ID + PIN, ID + PIN Strict, ID + Biometric + PIN, ID + Biometric + PIN Strict
17			2	Biometric Only, Biometric Only Strict, Biometric +



				PIN, Biometric + PIN Strict, ID Only, ID Only Strict, ID + Biometric, ID + Biometric Strict, ID + PIN, ID + PIN Strict, ID + Biometric + PIN, ID + Biometric + PIN Strict
18			3	Biometric Only, Biometric Only Strict, Biometric + PIN, Biometric + PIN Strict, ID Only, ID Only Strict, ID + Biometric, ID + Biometric Strict, ID + PIN, ID + PIN Strict, ID + Biometric + PIN, ID + Biometric + PIN Strict
19			4	Biometric Only, Biometric Only Strict, Biometric + PIN, Biometric + PIN Strict, ID Only, ID Only Strict, ID + Biometric, ID + Biometric Strict, ID + PIN, ID + PIN Strict, ID + Biometric + PIN, ID + Biometric + PIN Strict
20			5	Biometric Only, Biometric Only Strict, Biometric + PIN, Biometric + PIN Strict, ID Only, ID Only Strict, ID + Biometric, ID + Biometric Strict, ID + PIN, ID + PIN Strict, ID + Biometric + PIN, ID + Biometric + PIN Strict
21	MERGE 2	FP	22	Biometric Only, Biometric Only Strict, Biometric + PIN, Biometric + PIN Strict, ID Only, ID Only Strict, ID + Biometric, ID + Biometric Strict, ID + PIN, ID + PIN Strict, ID + Biometric + PIN, ID + Biometric + PIN Strict
22			4	Biometric Only, Biometric Only Strict, Biometric + PIN, Biometric + PIN Strict, ID Only, ID Only Strict, ID + Biometric, ID + Biometric Strict, ID + PIN, ID + PIN Strict, ID + Biometric + PIN, ID + Biometric + PIN Strict
23	MERGE CR	CR	NA	Card Only, Card Only Strict
24	TITAN	FPU	1	Biometric Only, Biometric + PIN, Biometric Only Strict, Biometric + PIN Strict, Face Only, Face + Finger, Face + Finger + PIN, Face Only Strict, , Face + Finger Strict, Face + PIN Strict, Face + Finger + PIN Strict, ID Only, ID + Biometric, ID + PIN, ID + Biometric + PIN, ID Only Strict, ID + Biometric Strict, ID + PIN Strict, ID + Biometric + PIN Strict, ID + Face, ID + Face + Finger, ID + Face + Finger + PIN, ID + Face Strict, ID + Face + Finger Strict, ID + Face + Finger + PIN Strict
			2	Biometric Only, Biometric + PIN, Biometric Only Strict, Biometric + PIN Strict, Face Only, Face + Finger, Face + Finger + PIN, Face Only Strict, , Face + Finger Strict, Face + PIN Strict, Face + Finger + PIN Strict, ID Only, ID + Biometric, ID +



				<p>PIN, ID + Biometric + PIN, ID Only Strict, ID + Biometric Strict, ID + PIN Strict, ID + Biometric + PIN Strict, ID + Face, ID + Face + Finger, ID + Face + Finger + PIN, ID + Face Strict, ID + Face + Finger Strict, ID + Face + Finger + PIN Strict</p>
			5	<p>Biometric Only, Biometric + PIN, Biometric Only Strict, Biometric + PIN Strict, Face Only, Face + Finger, Face + Finger + PIN, Face Only Strict, , Face + Finger Strict, Face + PIN Strict, Face + Finger + PIN Strict, ID Only, ID + Biometric, ID + PIN, ID + Biometric + PIN, ID Only Strict, ID + Biometric Strict, ID + PIN Strict, ID + Biometric + PIN Strict, ID + Face, ID + Face + Finger, ID + Face + Finger + PIN, ID + Face Strict, ID + Face + Finger Strict, ID + Face + Finger + PIN Strict</p>
20	TITAN	FPLV	1	<p>Biometric Only, Biometric + PIN, Biometric Only Strict, Biometric + PIN Strict, Face Only, Face + Finger, Face + Finger + PIN, Face Only Strict, , Face + Finger Strict, Face + PIN Strict, Face + Finger + PIN Strict, ID Only, ID + Biometric, ID + PIN, ID + Biometric + PIN, ID Only Strict, ID + Biometric Strict, ID + PIN Strict, ID + Biometric + PIN Strict, ID + Face, ID + Face + Finger, ID + Face + Finger + PIN, ID + Face Strict, ID + Face + Finger Strict, ID + Face + Finger + PIN Strict</p>
			2	<p>Biometric Only, Biometric + PIN, Biometric Only Strict, Biometric + PIN Strict, Face Only, Face + Finger, Face + Finger + PIN, Face Only Strict, , Face + Finger Strict, Face + PIN Strict, Face + Finger + PIN Strict, ID Only, ID + Biometric, ID + PIN, ID + Biometric + PIN, ID Only Strict, ID + Biometric Strict, ID + PIN Strict, ID + Biometric + PIN Strict, ID + Face, ID + Face + Finger, ID + Face + Finger + PIN, ID + Face Strict, ID + Face + Finger Strict, ID + Face + Finger + PIN Strict</p>
			5	<p>Biometric Only, Biometric + PIN, Biometric Only Strict, Biometric + PIN Strict, Face Only, Face + Finger, Face + Finger + PIN, Face Only Strict, , Face + Finger Strict, Face + PIN Strict, Face + Finger + PIN Strict, ID Only, ID + Biometric, ID + PIN, ID + Biometric + PIN, ID Only Strict, ID + Biometric Strict, ID + PIN Strict, ID + Biometric + PIN Strict, ID + Face, ID + Face + Finger, ID + Face + Finger + PIN, ID + Face Strict, ID + Face + Finger Strict, ID + Face + Finger + PIN Strict</p>

21	TITAN	FV	1	Biometric Only, Biometric + PIN, Biometric Only Strict, Biometric + PIN Strict, Face Only, Face + Finger, Face + Finger + PIN, Face Only Strict, , Face + Finger Strict, Face + PIN Strict, Face + Finger + PIN Strict, ID Only, ID + Biometric, ID + PIN, ID + Biometric + PIN, ID Only Strict, ID + Biometric Strict, ID + PIN Strict, ID + Biometric + PIN Strict, ID + Face, ID + Face + Finger, ID + Face + Finger + PIN, ID + Face Strict, ID + Face + Finger Strict, ID + Face + Finger + PIN Strict
			2	Biometric Only, Biometric + PIN, Biometric Only Strict, Biometric + PIN Strict, Face Only, Face + Finger, Face + Finger + PIN, Face Only Strict, , Face + Finger Strict, Face + PIN Strict, Face + Finger + PIN Strict, ID Only, ID + Biometric, ID + PIN, ID + Biometric + PIN, ID Only Strict, ID + Biometric Strict, ID + PIN Strict, ID + Biometric + PIN Strict, ID + Face, ID + Face + Finger, ID + Face + Finger + PIN, ID + Face Strict, ID + Face + Finger Strict, ID + Face + Finger + PIN Strict
			5	Biometric Only, Biometric + PIN, Biometric Only Strict, Biometric + PIN Strict, Face Only, Face + Finger, Face + Finger + PIN, Face Only Strict, , Face + Finger Strict, Face + PIN Strict, Face + Finger + PIN Strict, ID Only, ID + Biometric, ID + PIN, ID + Biometric + PIN, ID Only Strict, ID + Biometric Strict, ID + PIN Strict, ID + Biometric + PIN Strict, ID + Face, ID + Face + Finger, ID + Face + Finger + PIN, ID + Face Strict, ID + Face + Finger Strict, ID + Face + Finger + PIN Strict



Understanding of Access Rules based on the first credential

#	Access Rules	1st Credential		
		Biometric Access (For Identification)	Card Access (For Verification)	ID Access (For Verification)
1.	Biometric Only	<ul style="list-style-type: none"> Place finger on the sensor Access Granted or Denied 	<ul style="list-style-type: none"> Show card Place finger on the sensor Access Granted or Denied 	<ul style="list-style-type: none"> Enter the ID on the touchscreen LCD Place finger on the sensor Access Granted or Denied
2.	Biometric Only Strict	<ul style="list-style-type: none"> Place finger on the sensor Access Granted or Denied 	<ul style="list-style-type: none"> Invalid Access if you show the card 	<ul style="list-style-type: none"> Invalid Access if you enter the ID on the device LCD
3.	Biometric + PIN	<ul style="list-style-type: none"> Place finger on the sensor Enter the PIN (if the device has LCD, else skip) Access Granted or Denied 	<ul style="list-style-type: none"> Invalid Access if you show the card 	<ul style="list-style-type: none"> Invalid Access if you enter the ID on device LCD first
4.	Biometric + PIN Strict (both credentials are required)	<ul style="list-style-type: none"> Place finger on the sensor Enter the PIN on-device LCD Access Granted or Denied 	<ul style="list-style-type: none"> Invalid Access if you show the card 	<ul style="list-style-type: none"> Invalid Access if you enter the ID on device LCD first
5.	Biometric + Card	<ul style="list-style-type: none"> Place finger on the sensor Access Granted or Denied 	<ul style="list-style-type: none"> Show card Place finger on the sensor Access Granted or Denied 	<ul style="list-style-type: none"> Invalid Access if you enter the ID on the device LCD
6.	Card + Biometric Strict (both credentials are required)	<ul style="list-style-type: none"> Invalid Access if you place the finger first 	<ul style="list-style-type: none"> Show card Place finger on the sensor Access Granted or Denied 	<ul style="list-style-type: none"> Invalid Access if you enter the ID on the device LCD



7.	Biometric + Card + PIN	<ul style="list-style-type: none"> Place finger on the sensor Enter PIN on-device LCD Access Granted or Denied 	<ul style="list-style-type: none"> Show card Place finger on the sensor Enter PIN on-device LCD Access Granted or Denied 	<ul style="list-style-type: none"> Invalid Access if you enter the ID on device LCD first
8.	Card + Biometric + PIN Strict (all 3 credentials are required)	<ul style="list-style-type: none"> Invalid Access if you place the finger first 	<ul style="list-style-type: none"> Show card Place finger on the sensor Enter PIN Access Granted or Denied 	<ul style="list-style-type: none"> Invalid Access if you enter the ID on device LCD first
9.	Card + PIN	<ul style="list-style-type: none"> Place finger on the sensor Enter PIN on the device LCD Access Granted or Denied 	<ul style="list-style-type: none"> Show card Enter PIN on the device LCD Access Granted or Denied 	<ul style="list-style-type: none"> If you enter the ID first on the device LCD Invalid Access
10.	Card + PIN Strict (both credentials are required)	<ul style="list-style-type: none"> If you place finger on the sensor Invalid Access 	<ul style="list-style-type: none"> Show card Enter the PIN User gets Access Granted or Denied 	<ul style="list-style-type: none"> If you enter the ID first on the device LCD Invalid Access
11.	Card Only	<ul style="list-style-type: none"> Place finger on the sensor User gets Access Granted or Denied 	<ul style="list-style-type: none"> Show card User gets Access Granted or Denied 	<ul style="list-style-type: none"> If you enter the ID first on the device LCD Invalid Access
12.	Card Only Strict	<ul style="list-style-type: none"> If you place finger on the sensor Invalid Access 	<ul style="list-style-type: none"> Show card User gets Access Granted or Denied 	<ul style="list-style-type: none"> If you enter the ID first on the device LCD Invalid Access
13.	ID Only	<ul style="list-style-type: none"> Place finger on the sensor User gets Access Granted or Denied 	<ul style="list-style-type: none"> If you show the card Invalid Access 	<ul style="list-style-type: none"> Enter the ID on the device LCD User gets Access Granted or Denied
14.	ID Only Strict	<ul style="list-style-type: none"> If you place the finger on the sensor User gets Access Granted or Denied 	<ul style="list-style-type: none"> If you show the card Invalid Access 	<ul style="list-style-type: none"> Enter the ID on the device LCD User gets Access Granted or Denied



15.	ID + Biometric	<ul style="list-style-type: none"> Place finger on the sensor User gets Access Granted or Denied 	<ul style="list-style-type: none"> If you show the card Invalid Access 	<ul style="list-style-type: none"> Enter the ID on the device LCD Place finger on the sensor User gets Access Granted or Denied
16.	ID + Biometric Strict (both credentials are required)	<ul style="list-style-type: none"> If you place finger on the sensor User gets Access Granted or Denied 	<ul style="list-style-type: none"> If you show card Invalid Access 	<ul style="list-style-type: none"> Enter the ID on the device LCD Place finger on the Sensor User gets Access Granted or Denied
17.	ID + PIN	<ul style="list-style-type: none"> Place finger on the Sensor Enter PIN on the device LCD User gets Access Granted or Denied 	<ul style="list-style-type: none"> If you show card Invalid Access 	<ul style="list-style-type: none"> Enter the ID on the device LCD <ul style="list-style-type: none"> Enter PIN User gets Access Granted or Denied
18.	ID + PIN Strict (both credentials are required)	<ul style="list-style-type: none"> If you place finger on the sensor User gets Access Granted or Denied 	<ul style="list-style-type: none"> If you show the card Invalid Access 	<ul style="list-style-type: none"> Enter the ID on the device LCD <ul style="list-style-type: none"> Enter PIN User gets Access Granted or Denied
19.	ID + Biometric + PIN	<ul style="list-style-type: none"> Place finger on the sensor Enter PIN on the device LCD User gets Access Granted or Denied 	<ul style="list-style-type: none"> If you show the card Invalid Access 	<ul style="list-style-type: none"> Enter the ID on the device LCD Place finger on the Sensor Enter PIN User gets Access Granted or Denied
20.	ID + Biometric + PIN Strict (all 3 credentials are required)	<ul style="list-style-type: none"> If you place finger on the sensor <ul style="list-style-type: none"> Invalid Access 	<ul style="list-style-type: none"> If you show the card Invalid Access 	<ul style="list-style-type: none"> Enter the ID on the device LCD Place finger on the sensor Enter the PIN User gets Access Granted or Denied

Note – If a “Strict” Access Rule (Example – Card + PIN Strict) is selected and the device does not support one of the access rules (Example – MYCRO FP1 does not support card access) then access will not be granted.



Support

For more information relating to this Feature Description document, please contact us at support@invixium.com

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