(a) Input Text	(b) Level 1	(c) Level 2	(d) Level 3	(e) Level 4
				25.LEVEL 1 End.
log analysis.		21.LEVEL 1 End.	23.LEVEL 1 End.	24}
results, for subsequent security review and		<pre>20.record details}</pre>	22}	23. LEVEL 2 End.
including time, authentication method, and		<b>19</b> .authentication succeed→	21. LEVEL 2 End.	$22. \dots \rightarrow LEVEL \ 3[\dots]\}$
information about the authentication event,	1	18. LEVEL 2 End.	20 →LEVEL 3[ ]}	21. LEVEL 3 End.
the device should record detailed	15.LEVEL 1 End.	17. →LEVEL 3[]}	19LEVEL_3 End	20. }
notification. After successful authentication,	<pre>14.record details}</pre>	16. →authentications fail	<b>1</b> 18. }	19. →LEVEL 4[ ]}
user account and issue a warning	13.authentication succeed→	15. LEVEL 3 End.	17.  → LEVEL 4[ ]}	18. Branch III: facial
than 3 times), the device should lock the	12. LEVEL 2 End.	14. }	16. Branch III: facial	17.
multiple authentications fail (such as more	11. }	yet to decompose	15. ⇒LEVEL 4[]	16. Branch II: fingerprint
timeout and error handling mechanism. If		'yet to decompose'	14. Branch II: fingerprint	15 LEVEL 4 End
lauthentication step should include a	yet to decompose	IS. [FOIK] §	13. LEVEL 4 End.	14. timeout & error}
security level set by the user. Each	'yet to decompose'	13. [Fork]{	12.	112. Branch I: Branch II:
methods must be passed according to the	T 1	11. Loop start→→ 12. <i>LEVEL 3 Begin:</i>	[Condition] {	
recognition), and at least two authentication	[10. [Loop]{	10. [Loop]{	10. LEVEL 4 Begin:	10. LEVEL 4 Begin: [Condition]
(such as password, fingerprint, facial	9. LEVEL 2 Begin:	9. LEVEL 2 Begin:	9. Branch I: password→	9. Branch I: password→
start the multi-factor authentication process	8. →	8	8. [Fork]{	8. [Fork]{
authentication is passed, the device should	<ol> <li>multi-factor authentication</li> </ol>	7. multi-factor authentication	7. LEVEL 3 Begin:	7. LEVEL 3 Begin:
operations will be blocked. After the	· •	6. Branch II:	6. Loop start $\rightarrow \rightarrow$	6. Loop start $\rightarrow \rightarrow$
the user will be prompted and subsequent	<b>1</b> 5. →block operation	5. $→$ block operation	5. [Loop]{	5. [Loop]{
If the SIM card is invalid or not recognized,	4. prompt user	<ol><li>prompt user</li></ol>	4. LEVEL 2 Begin:	4. LEVEL 2 Begin:
the validity and legitimacy of the SIM card.	3. Branch I:	3. Branch I:	3	3
perform SIM card authentication to verify	<pre>[2. [Condition]{</pre>	<pre>2. [Condition]{</pre>	<pre>2. [Condition]{</pre>	<pre>2. [Condition]{</pre>
When the device is started, it should first	1. LEVEL 1 Begin:	1. LEVEL 1 Begin:	1. LEVEL 1 Begin:	1. LEVEL 1 Begin: