## ATOM SOP

The following procedure outlines the steps Fraud Investigations BPO agents should follow when reviewing an account flagged for the ATOM model. The ATOM Login model is designed to detect potential Account Takeover (ATO) when a device logs in. This model provides early detection opportunities to mitigate ATO risks. Accounts with confirmed ATO should go through the Step Up Authorization (SUA) process.

Step	Action		
1.	<ul> <li>In Unit 21:</li> <li>Open Unit 21 alert.</li> <li>Identify the flagged device (dsml_device_id) and flagged device timestamp (dsml_session_timestamp) from the Custom Data section.</li> </ul> Go to the next step.		
1a.	In Penny: Check out the email associated with the Chime account. If the domain includes "chime.com" then this is a Chime employee email.  Is the email address domain associated with Chime?		
	lf If	Then	
	The email is a Chime employee email.	Go to step 18.	
	The email is not a Chime employee email.	Go to the next step.	
1b.	In Penny: Look at the Enrollment Date on the account.  • Enter Member ID into the search bar • Click Search • Open the member profile • Click into the Details tab • Find the Enrolled at date		
	Is the dsml_session_timestamp less than 3	30 days from the enrollment date?  Then	
	The dsml_session_timestamp is less than 30 days from the enrollment date	Go to step 16.	
	The dsml_session_timestamp is more	Go to the next step.	

	than 30 days from the e	nrollment date		
		<b>'</b>		
2.	In Penny: You need to locate the flagged device ID along with the flagged timestamp.			
	<ul> <li>Navigate to Risk Events</li> <li>Using the Search bar, enter the dsml_device_id and hit Enter</li> </ul>			
	Are you able to locate the flagged Device ID (dsml_device_id) and flagged timestamp (dsml_session_timestamp) in the Risk Events Timeline section of Penny?			
	If	Then		
	Yes	Go to the next step.		
	No	Go to step 12.		
3.		line (Penny) OR the BPO Dashboard (Looker): within 48 hours of the flagged event?		
3.	Using Risk Events Time			
3.	Using Risk Events Time	within 48 hours of the flagged event?  Then		
3.	Using <b>Risk Events Time</b> Was the device first seen	within 48 hours of the flagged event?		
3.	Using Risk Events Time Was the device first seen	within 48 hours of the flagged event?  Then		
	Using Risk Events Time Was the device first seen v  If  Yes  No	Then  Go to step 4.		
	Using Risk Events Time Was the device first seen v  If  Yes  No  (Established device)	Then  Go to step 4.		
	Using Risk Events Time Was the device first seen v  If  Yes  No  (Established device)  Was the device first seen a	Then  Go to step 4.  Go to the next step.		
3. 3a.	Using Risk Events Time Was the device first seen v  If  Yes  No  (Established device)  Was the device first seen a flagged event?	Then  Go to step 4.  Go to the next step.  after account enrollment but more than 48 hours before the		
	Using Risk Events Time Was the device first seen v  If  Yes  No  (Established device)  Was the device first seen a flagged event?  If	Then Go to step 4. Go to the next step.  after account enrollment but more than 48 hours before the  Then		
	Using Risk Events Time Was the device first seen v  If  Yes  No  (Established device)  Was the device first seen a flagged event?  If  Yes	Then Go to step 4. Go to the next step.  after account enrollment but more than 48 hours before the  Then Go to step 4.		

If	Then
Yes	Go to step 16.
No	Go to step 3.

4. Next, you need to determine if the device was able to successfully login to the Chime account.



In the screenshot above, the flagged device failed ScanID, but then was able to successfully login a few seconds later by passing the MFA Challenge. This would be a successful device login.

Action	$\uparrow \downarrow$	Decision Outcome $\uparrow\downarrow$ Step Up Result $\uparrow\downarrow$	Result ↑↓	Device ID ↑↓	IP Address ↑↓	GeoIP Location ↑↓	Date & Time
Login with Password		MFA Required	Failure	4C975016- EAEA-42E8- A9DA- 4839E8ABDB21	107.127.32.69	Atlanta, US	March 24, 2025 09:21:24 PDT
Login with Password		MFA Required	Failure	4C975016- EAEA-42E8- A9DA- 4839E8ABDB21	107.127.32.69	Atlanta, US	March 24, 2025 09:20:55 PDT
Login with Password		MFA Required	Failure	4C975016- EAEA-42E8- A9DA- 4839E8ABDB21	107.127.32.69	Atlanta, US	March 24, 2025 09:19:59 PDT
Login with Password		MFA Required	Failure	4C975016- EAEA-42E8- A9DA- 4839E8ABDB21	107.127.32.69	Atlanta, US	March 24, 2025 09:19:41 PDT
Login with Password		MFA Required	Failure	4C975016- EAEA-42E8- A9DA- 4839E8ABDB21	107.127.32.69	Atlanta, US	March 24, 2025 09:18:06 PDT

In the screenshot above, the flagged device failed every login attempt. This would be a failed login.

Was the flagged device able to successfully login within 15 minutes of the flagged timestamp?

SOP Adherence Checkpoint (Flagged Device Login Status): Was the flagged device able to successfully login to the account? (Yes/No) If yes, insert the timestamp of the successful login if it differs from the flagged timestamp.

If	Then
Failure	Go to step 6 (attempted ATO flow)

Success	Go to the next step.
No Result	Go to step 16.

5. Now you need to look to see what kind of successful login was done.

**One Time Passcode:** The owner of the device gets a temporary code sent to their phone. They enter this code to log in.

**Scan ID:** The device owner shows a photo ID (like a driver's license or passport) and takes a selfie to prove who they are.

**Biometric:** The owner of the device uses their phone's security features, like fingerprint or face scan. This helps them unlock their phone or log in to the Chime app without typing a password.

Password: The owner of the device used a password to login.

**Post-Enrollment Automatic Login:** This login happens right after a member first creates an account.

**Password with MFA Challenge:** The member attempted to login with their password, however it was incorrect. Chime gave the member an option to login via MagicLink and OTP.

What kind of successful login was it?

If	Then
OTP	Go to step 8.
Scan ID	Go to step 16
Biometric	Go to step 16.
Password Login	Go to step 8.
Post-Enrollment Automatic Login	Go to step 16.
Password with MFA Challenge	Go to step 8.

### 6. [Attempted ATO IP Check]

Using **Risk Events Timeline (Penny)** OR the **BPO Dashboard (Looker)**: Look for any of the following red flags about the flagged device IP address:

- Being outside the U.S.
- Being from a state that doesn't match the member's current or previous address on file
- Being from a state where the member does not have prior device IP activity

- check carefully for past IPs in that state within the last 6 months
- Device Location does not match any of the member's physical card transaction locations within the past 6 months

SOP Adherence Checkpoint (Flagged Device (CARRIER-1PARTIAL1)): What red flags/suspicious signals were found in relation to the flagged device(If applicable)?

Were any of the above **true** about the flagged device?

If	Then
Yes	Go to step 17.
No	Go to the next step.

### 7. [Attempted ATO Timezone Check]

Using **Risk Events Timeline (Penny)** OR the **BPO Dashboard (Looker)**: Look for any of the following red flags about the flagged device timezone:

- Timezone is associated with an international location
- Timezone is associated with fraudulent activity
  - Common Suspicious Timezones:
    - Africa/Lagos
    - Africa/ Accra
    - Asia/Dubai
    - Asia/Jakarta
    - Asia/Sangai
    - Asia/Karachi
    - Asia/ Dhaka
    - Asia/ HO\_CHI\_MINH
    - Asia/Kolkata
    - Australia /Perth
    - Asia/ Kathmandu
    - Europe/ London
    - America/Shiprock

SOP Adherence Checkpoint (Flagged Device (CARRIER-1PARTIAL1)): What red flags/suspicious signals were found in relation to the flagged device(If applicable)?

Were any of the above true about the flagged device?

If	Then
Yes	Go to Step 17.
No	Go to the next step.

# 7a. [Attempted ATO Linked Device Check] Using Risk Events Timeline (Penny) OR the BPO Dashboard (Looker): Look to see if there are multiple users associated with the flagged device. Are there multiple other users associated with the flagged device? SOP Adherence Checkpoint (Flagged Device Linked Accounts): Is the flagged device linked to other accounts? (Yes/No). If yes, notate whether the linked accounts are suspicious and provide details/signals to support the decision. lf Then Yes Go to the next step No Go to step 16. 7b. [Attempted ATO Linked Device Check] Open up the linked users in **Penny** to look to see if any are linked to the member you are investigating. Linked members would **not** appear suspicious if they: Currently live or previously lived at the same address as the member Share the same last name as the member. • Are linked to more than one of the member's devices Have a previous undisputed p2p transaction with the member SOP Adherence Checkpoint (Flagged Device Linked Accounts): Is the flagged device linked to other accounts? (Yes/No). If yes, notate whether the linked accounts are suspicious and provide details/signals to support the decision. Do any members linked to the flagged device meet the above criteria? lf Then Yes Go to step 16.

8. Using **Risk Events Timeline (Penny)** OR the **BPO Dashboard (Looker)**: Look for any of the following red flags about the flagged device IP address:

Go to step 13.

No

	<ul> <li>Being outside the U.S.</li> <li>Being from a state that doesn't match the member's current or previous address on file</li> <li>Being from a state where the member does not have prior device IP activity — check carefully for past IPs in that state within the last 6 months</li> <li>Device Location does not match any of the member's physical card transaction locations within the past 6 months</li> <li>SOP Adherence Checkpoint (Flagged Device (CARRIER-1PARTIAL1)): What red flags/suspicious signals were found in relation to the flagged device(If applicable)?</li> <li>Were any of the above true about the flagged device?</li> </ul>	
	If	Then
	Yes	Go to step 13.
	No	Go to the next step.
9.	Using Risk Events Timeline (Penny) OR the BPO Dashboard (Looker): Look for any of the following red flags about the flagged device timezone:  • Timezone is associated with an international location • Timezone is associated with fraudulent activity • Common Suspicious Foreign Time Zones:  • Africa/Lagos • Africa/Lagos • Africa/ Accra • Asia/Dubai • Asia/Jakarta • Asia/Sangai • Asia/Karachi • Asia/Karachi • Asia/HO_CHI_MINH • Asia/Kolkata • Australia /Perth • Asia/ Forth • Asia/ Kathmandu • Europe/ London • America/Shiprock  • SOP Adherence Checkpoint (Flagged Device (CARRIER-1PARTIAL1)): What red flags/suspicious signals were found in relation to the flagged device((If applicable)?	
	Were any of the above <b>true</b> about the flagged device?	
	If	Then

Yes	Go to step 13.	
No or N/A	Go to the next step.	
Using Risk Events Timeline (Penny) OR the BPO Dashboard (Looker): Look to see if there are multiple users associated with the flagged device.  Are there multiple other users associated with the flagged device?  SOP Adherence Checkpoint (Flagged Device Linked Accounts): Is the flagged device		
linked to other accounts? (Yes/No). If yes, notate whether the linked accounts are suspicio and provide details/signals to support the decision.		
If	Then	
	Go to the next step.	
Yes	GG to the Hoxt Gtop!	
No	Go to step 16.  Do look to see if any are linked to the member	er y
Open up the linked users in Penny to are investigating. Linked members were investigating. Linked members were investigating. Linked members were share the same last name as a Are linked to more than one of the Have a previous undisputed.  SOP Adherence Checkpoint (Flaggle linked to other accounts? (Yes/No). If ye and provide details/signals to support the Do any members linked to the flagger.	Go to step 16.  Do look to see if any are linked to the member ould <b>not</b> appear suspicious if they:  ed at the same address as the member the member of the member's devices of the member's devices of the member of the member.  ged Device Linked Accounts): Is the flagged of s, notate whether the linked accounts are suspine decision.  d device meet the above criteria?	dev
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Open up the linked users in Penny to are investigating. Linked members were investigating. Linked members were investigating. Linked members were share the same last name as a Are linked to more than one of the Have a previous undisputed.  SOP Adherence Checkpoint (Flaggle linked to other accounts? (Yes/No). If ye and provide details/signals to support the Do any members linked to the flagger.	Go to step 16.  Do look to see if any are linked to the member ould <b>not</b> appear suspicious if they:  ed at the same address as the member the member of the member's devices of the member's devices of the member of the member.  ged Device Linked Accounts): Is the flagged of s, notate whether the linked accounts are suspine decision.  d device meet the above criteria?	devi

12. In Looker: Search the Member ID and locate the flagged device ID in either the Device Linkage section, the Amplitude Events section or the ATO Login section. Are you able to locate the flagged Device ID (dsml device id) and flagged timestamp (dsml session timestamp) from the Unit 21 Custom Data section? lf Then Yes Go to step 3. No Go to step 16. 13. **In Penny:** Navigate to the member's Penny profile > Details > History tab to look for PI changes within 24 hours of the flagged device login. Are there PI changes within 24 hours of the flagged device login? SOP Adherence Checkpoint (Account Updates): Notate any relevant PI Changes (if applicable) - What changes were made? What device made the change? Why is the change(s) suspicious or not? lf Then Yes Go to the next step. No Go to step 14a. 14 **Using Looker or Risk Events Timeline:** Determine what device made the PI changes. SOP Adherence Checkpoint (Account Updates): Notate any relevant PI Changes (if applicable) - What changes were made? What device made the change? Why is the change(s) suspicious or not? What device made the PI changes? Go to the next step. 14a. Navigate to the member's Zendesk page. Is there any recent outreach from the member with ATO language regarding: Unauthorized PI changes Unauthorized transactions or the need to file a dispute Member giving their login credentials to a Chime impersonator • Member claiming they won a Chime sweepstakes and they let someone into

their account

- Member was kicked out of account/unable to login with their password
- Unauthorized device is accessing the account

SOP Adherence Checkpoint (Zendesk Activity): Call out any member outreach regarding ATO in Zendesk (if applicable) - include the ZD Ticket # and a brief summary of the member communication

Go to step 15.

15 True Positive (ATO) Steps:

Proceed based on the following:

If	Then
The account is not in Step Up Auth.	<ul> <li>In Penny:         <ul> <li>Trigger Step Up Auth.</li> <li>Leave Account Notation:</li></ul></li></ul>
The account has already been actioned and has Step Up Auth triggered, is suspended or is closed.	<ul> <li>In Penny:         <ul> <li>Leave Account Notation:</li></ul></li></ul>

		the Genpact Device Block List Prep.  In Unit 21: Submit your narrative Select True Positive Workflow Select ATO label: unauthorized_account_a ccess_ato Close case.
16.	False Positive Steps:  In Penny:  Leave Account Notation:  //ML_Model//RISK-FC//DSM  In Unit 21:  Submit your narrative  Select False Positive Workf  Select Not ATO label: autho  Submit case.	
17.	True Positive ( <b>Password Compromised</b> ) Steps:  Proceed based on the following:	
	The account is not in Step Up Auth.	<ul> <li>In Penny:         <ul> <li>Trigger Step Up Auth.</li> <li>Leave Account Notation:</li></ul></li></ul>

		<ul> <li>Select True Positive Workflow</li> <li>Select Password Compromised label: unauthorized_account_a ccess_password_compro mised</li> <li>Close case.</li> </ul>
	The account has already been actioned and has SUA triggered, is suspended or is closed.	<ul> <li>In Penny:         <ul> <li>Leave Account Notation:</li></ul></li></ul>
18.	Chime employee account:  In Unit 21: Assign this alert to Lizzy Powers  Let your lead know that you were assigned an alert for an account belonging to a Chime employee.	

### **SOP Adherence Checkpoint Steps:**

- SOP Adherence Checkpoint (Flagged Device (CARRIER-1PARTIAL1)): What red flags/suspicious signals were found in relation to the flagged device(If applicable)?
- SOP Adherence Checkpoint (Flagged Device Linked Accounts): Is the flagged device linked to other accounts? (Yes/No). If yes, notate whether the linked accounts are suspicious and provide details/signals to support the decision.
- SOP Adherence Checkpoint (Flagged Device Login Status): Was the flagged device able to successfully login to the account? (Yes/No) If yes, insert the timestamp of the successful login if it differs from the flagged timestamp.

SOP Adherence Checkpoint (Zendesk Activity): Call out any member outreach regarding ATO in Zendesk (if applicable) - include the ZD Ticket # and a brief summary of the member communication
 SOP Adherence Checkpoint (Account Updates): Notate any relevant PI Changes (if applicable) - What changes were made? What device made the change? Why is the change(s) suspicious or not?

#### Reference:

Attempted ATO True Positive case: <a href="https://chime.unit21.com/alerts/4701962/custom-data">https://chime.unit21.com/alerts/4701962/custom-data</a> False Positive case:

True Positive ATO: <a href="https://chime.unit21.com/alerts/4700133/prior-activity">https://chime.unit21.com/alerts/4700133/prior-activity</a>