



# Monetize Credential Sharing

A Data Driven Approach

## Adobe Primetime Account IQ

Measure. Manage. Monetize



# 01. The Context

Credential Sharing – A quick status for the Media and Entertainment Industry



# How big is the problem?

What makes Credential Sharing a true problem across the M&E industry?

Credential sharing is at record levels and there is no end in sight for the trend. A broad study conducted in Feb 2022 by Leichtman Research Group (LRG) found that **29% of all D2C streaming video accounts are being shared** with others outside the household. Younger viewers are more apt to share: 34% of those 18 to 34, compared to 14% of those ages 35+, have at least one D2C service that's fully paid for by someone else

**No service is unaffected, from the largest premium content providers to niche distributors.**



# Credential Sharing is now COMMON and EXTENSIVE

At least 22% of US residents – 46 million people – are using credentials “borrowed”, purchased or stolen from outside their household to access video content without paying for it – according to a Cartesian 2020 study

**Nearly 4 in 10 Americans are mooching off someone else's streaming account, about a third do so without permission from the account holder**

LendingTree Survey, 2021

Between 22% to 45% of the users said that they share their credentials

**22-40%**



# Credential Sharing is becoming ACCEPTED

Credential sharing has long been tolerated, at times encouraged, because it helped grow brand awareness and provided a reliable conduit of new subscribers

The assumption is being challenged by both new market realities and the sheer magnitude of revenue lost to the behaviour

**Credential sharing, app-based sharing, and illegal live streaming have ushered in a new age of digital pirates and attitudes among consumers regarding fair use.**

Parks Associates, Video Piracy: Ecosystem, Risks, and Impact

Then



Now



# Credential Sharing is becoming NORMAL

A 2021 Aluma Insights study found 50% of Gen Zs and 40% of Millennials share video streaming credentials with others living outside their home.



...since the barriers to using shared credentials are low, many individuals engage in this behaviour without hesitation, often for multiple services

The Threat of Credential Sharing & Theft, Cartesian study, 2021

## Perceptions towards sharing online entertainment services or using unlicensed content

US Broadband Households

● Agree ● Highly Agree

Because movies/music should be available to everyone for free



Because the movie/music companies still make lots of money



As long as somebody else is paying for the service



If you never would have otherwise watched/listened to them



If you can't afford to pay for them yourself



If you only do it occasionally



Because no one ever gets in trouble for it



0%

25%

## 02. What is the impact?

Revenue Loss? Bad Advertising? Customer Churn?

All of them and much more ...

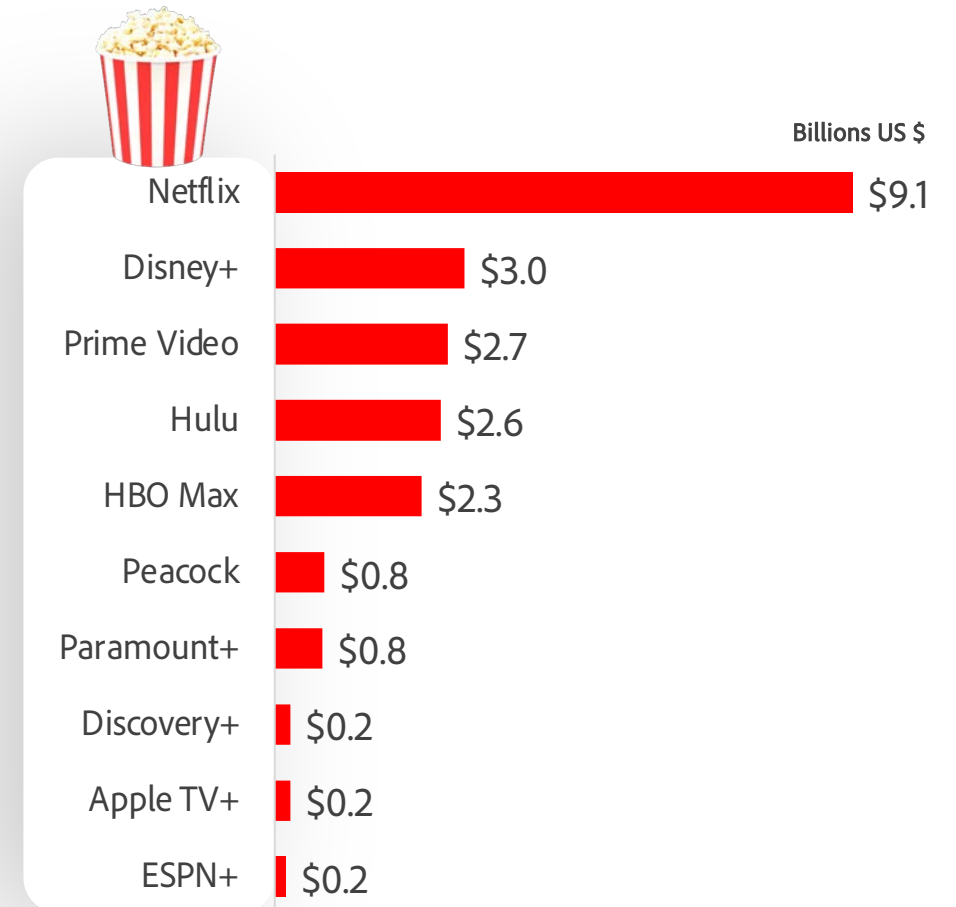


# Credential Sharing is costing streaming service companies

**BILLIONS**  
**US\$ 25B**

Estimated credential sharing revenue loss to U.S. streaming companies according to Citi analyst Jason Bazinet.

- In 2021, the US SVOD industry lost more than \$25B in revenue to credential sharing
- New players lose less revenue from credential sharing, but they also have significantly fewer subscribers than the top five providers. As their services grow, so will the number of borrowers and their impact





## Credential Sharing – Impact

# Limited Business Growth and Brand Impact

- Failing to act allows the problem to grow. Unless action is taken, streaming video will follow the path of streaming music where free content is expected.
- Ill-conceived strategies, poor execution and missteps make for great headlines and social media posts.



# Credential Sharing – Impact

## Poor End User Experience

Lacking Intelligence: Solutions today fall short of managing credential sharing and penalize legitimate subscribers

### Repetitive authentication

forces users to repeatedly remember and enter credentials, often awkwardly through connect device interfaces



**Device limits** require time-consuming registration processes to activate new devices and deactivate old devices, often right at kick-off



**Multi-factor authentication** adds additional steps and points of failure



**Concurrency limits** don't distinguish between household members

# Credential Sharing – Impact

## Unrealized Monetization



### Conversions

Turn borrowers into subscribers and drive incremental revenue opportunities



### Advertising

If ad dollars are important to your business, target borrowers with a higher ad load



### Audience insights

Lack of insights deters targeting, personalized recommendations and managing churn

## 03. Challenges and Strategies

Understanding the Credential Sharing challenge is important. Whatever the size and maturity of your organization, an iterative approach is ideal to profitably managing credential sharing

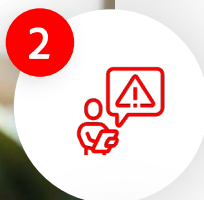


# Credential Sharing Challenges



## Is Credential Sharing actionable?

Yes, but there are no easy answers. Detailed data and sophisticated models are required to understand and assess the impact



## Aggressive action might risk customer retention

Acting aggressively and indiscriminately on credential sharing risks offending good customers and is unlikely to convert the borrowers



## Detecting Credential Sharing is difficult

Legitimate and illegitimate behaviour can look similar. Without deep analysis it's easy to misclassify. Processing vast amount of data requires resources



## Actionability requires robust data and insights

Segmentation and targeted action on shared accounts requires enhanced data and sophisticated analytic tools

# Managing Credential Sharing with data driven iterative strategies

Given the Industry content and challenges, what's needed is a data driven iterative strategy which leverages subscriber activity modeling to measure, manage and monetize credential sharing



# Credential Sharing – Actionability Strategies

## Targeted Actions

Below are examples of actions that could be applied as part of the iterative strategies to improve viewing experience and optimize monetization:



Adjust how often users need to log in



Charge the account to share outside the household



Send customizable onscreen messages



Export a list of top offenders for offline communication



Change the number of concurrent streams allowed



Change the ad load for an account



Require multi-factor authentication



Deny authorization and/or logout the user or device



Deny playback to the viewer

## 04. Adobe Solution

The Adobe approach is based on an iterative strategy which leverages our big data expertise and proprietary AI/ML enriched subscriber activity modelling to help service providers measure, manage and monetize credential sharing.





# Primetime Account IQ



## Measure. Manage. Monetize

Account IQ enables video streaming services to **identify** and **understand** credential sharing activity, **measure** the impact of applying actions, and effectively **monetize** subscriber behavior.

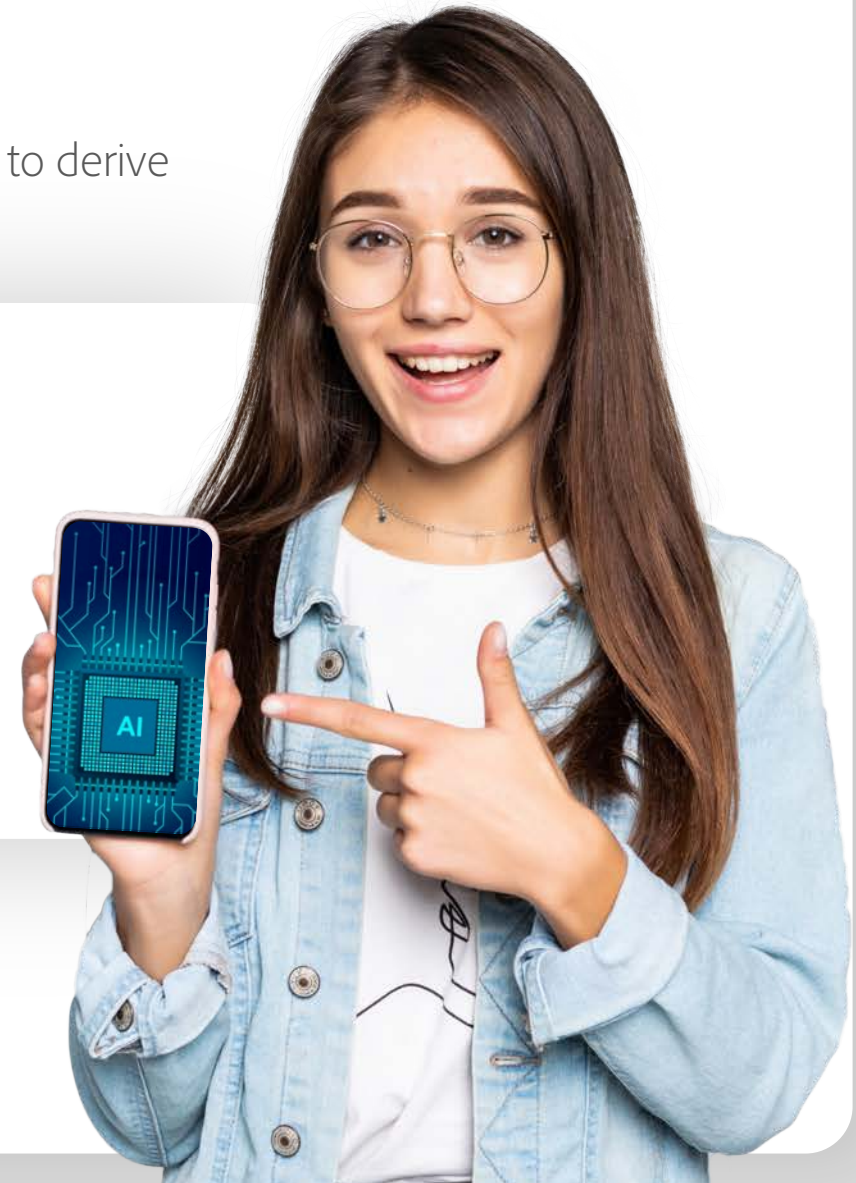
# Account IQ

## Sophisticated ML based approach

Account IQ data analysis powered by Adobe Sensei uses multiple ML-based models to derive critical elements not directly present in terabytes of raw streaming data

- ❑ **Velocity analysis** between streams reveals distinct individuals
- ❑ Connecting overlapping devices and locations identify **independent clusters** of activity
- ❑ Well-defined usage categories facilitate **behaviour** interpretation
- ❑ An expertly trained model quickly identifies patterns at **scale**

The resulting system identifies individual accounts with specific usage patterns that delivers a complete picture and **high confidence** in identifying password sharing





# Account IQ

## Insightful Dashboards and Reports



### Informative graphs and charts

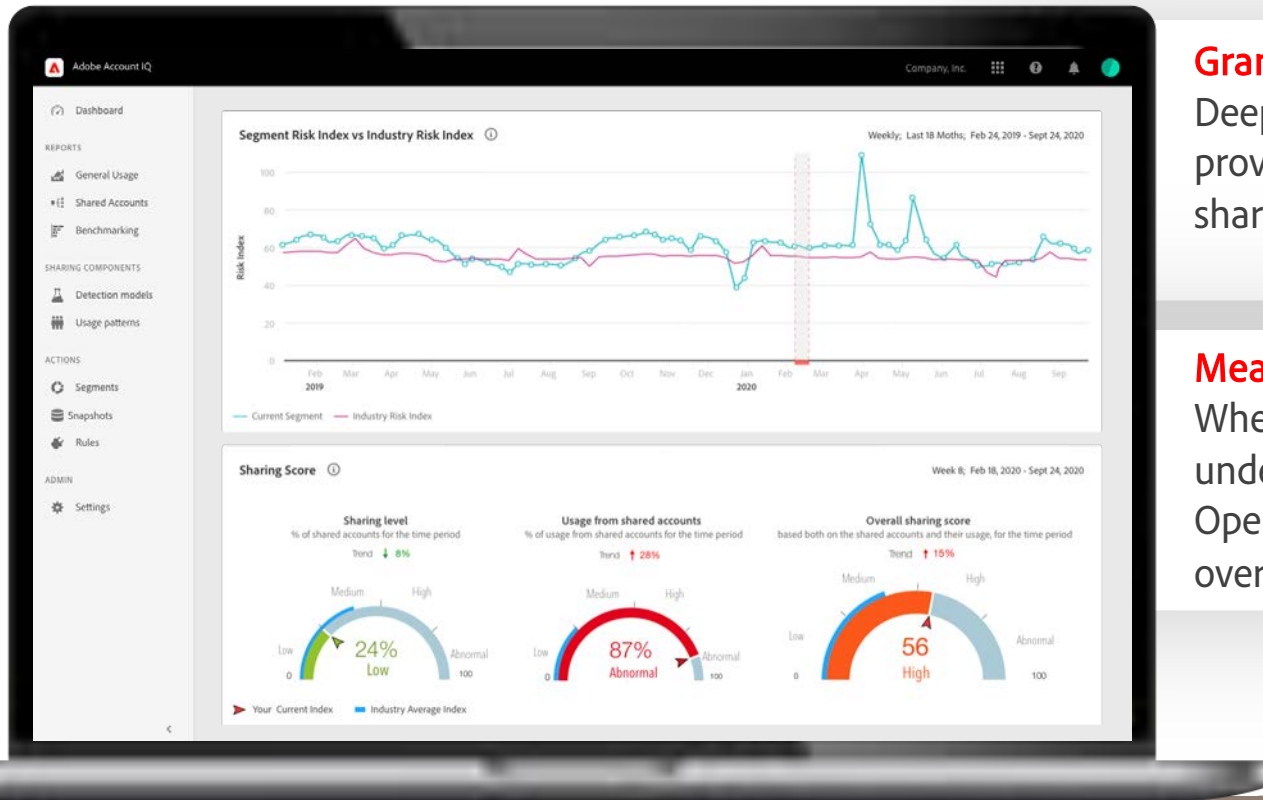
Get a quick understanding of the scope and impact of sharing behaviors.

### Detailed data reporting

Account IQ provides a wide variety of reports on user data tailored to meet the specific needs of customers. For example, reports that compare user data across partners and content categories to highlight shared risk, and reports on password-sharing behaviors that can help businesses see the impact of sharing on revenue and user experience.

# Account IQ

## Powerful Analytics and Tracking Tools



### Granular analytical tools and reporting

Deeper reports on user behavior metrics and viewer segmentation provide more detailed insights into cohorts and patterns of password sharing.

### Measure the effect of actions and initiatives

Whether rolling out a limited test or a large-scale program, understanding the effect of your actions is key to optimizing results. Operation impact reports allow you to measure and visualize results over an extended period.

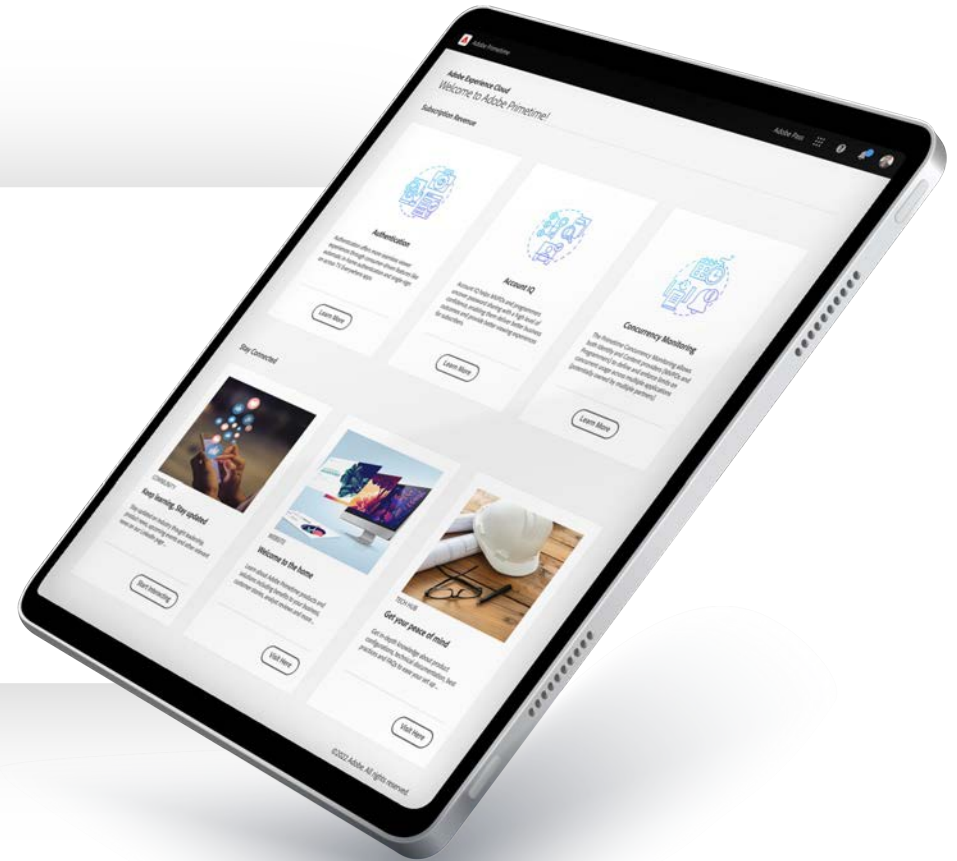


# Account IQ

## Integrates with Adobe and 3<sup>rd</sup> Party Solutions

### Flexibility and Integrations to power business growth

Account IQ can be integrated with Primetime Concurrency Monitoring, Customer Journey Analytics, other Adobe Digital Experience products and 3rd party solutions, which enables customers to leverage their preferred tools to optimize actions on credential sharing and maximize business growth.



# 05. Benefits & Use Cases

Summary of how your business benefits from Account IQ, real life use cases and recommended strategies



# Account IQ – Unrivalled Benefits

## Key Customer Benefits



### Generate Incremental Revenues

Generate incremental revenue opportunities from casual sharers and excessive borrowers by promoting upgrade offers and enforcing strict controls



### Improve End User Viewing Experience

Make your systems easy to access by eliminating unnecessary security checks for legitimate subscribers, improving overall viewing experience, and creating a positive brand impact



### Develop Deeper Audience Understanding

Develop a deeper understanding of your subscribers and their usage patterns for better targeting, personalized recommendations and managing churn



# Credential Sharing – User Scenarios

## Use Case: Excessive Sharing



Viewer's credentials are shared with a large group of people

Viewers may receive an in-app offers or have their access restricted

Viewer reacts to in-app messages or restrictions

Excessive sharing

In-app message on screen

Understanding



Isolate segment



Set the action



Run operation



Iterate



Goal



1.

System is detecting **excessive** sharing and displaying it in the app dashboard

2.

Use analytics and reports to identify shared accounts and define segment characteristics

3.

Prepare new account offers. Force logout, password change, MFA, etc. Restrict devices, geo, concurrent streams, etc.

4.

Schedule operation on full segment or test on subset (e.g., limited geo, 10% of audience, etc.)

5.

Track operation impact on segment and adjust based on goal effectiveness

6.

Monetize by converting borrowers to subscribers. Return free-loaders to available market.

# Credential Sharing – User Scenarios

## Use Case: Casual Sharing



Viewer's credentials are shared with his family members

Viewers may receive an in-app message

Viewer reacts to in-app message

Excessive sharing

In-app message on screen

Understanding



Isolate segment



Set the action



Run operation



Iterate



Goal



1.

System is detecting **moderate** sharing and displaying it in the app dashboard

2.

Use analytics and reports to identify shared accounts and define segment characteristics

3.

Prepare friendly in-app message to segment such as: upsell offer, activity alert, policy reminder, etc.

4.

Schedule operation on full segment or test on subset (e.g., limited geo, 10% of audience, etc.)

5.

Track operation impact on segment and adjust based on goal effectiveness

6.

Monetize by upselling shared accounts & converting borrowers to subscribers

# Credential Sharing – User Scenarios

## Use Case: Rewarding Good Behavior



Viewer is watching content only at home location

Viewer will have streamlined experience

Viewer has good viewing experience

Excessive sharing

In-app message on screen

Understanding



Isolate segment



Set the action



Run operation



Iterate



Goal



1.

System identifies the good usage pattern and it shows it in a visual way in the app dashboard.

2.

Use analytics and reports to isolate the accounts with very good behaviour and define segment characteristics.

3.

Reduce friction by eliminating: authentication requirements, concurrent stream limits, device registration, etc

4.

Schedule operation on full segment or test on subset (e.g., limited geo, 10% of audience, etc.)

5.

Track operation impact on segment and adjust based on goal effectiveness

6.

Retain good subscribers. Eliminate reasons to churn.



## Want to know more?

Contact the Adobe Pass team ([adobepass@adobe.com](mailto:adobepass@adobe.com)) for a customized demo or to inquire about an Account IQ pilot.

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