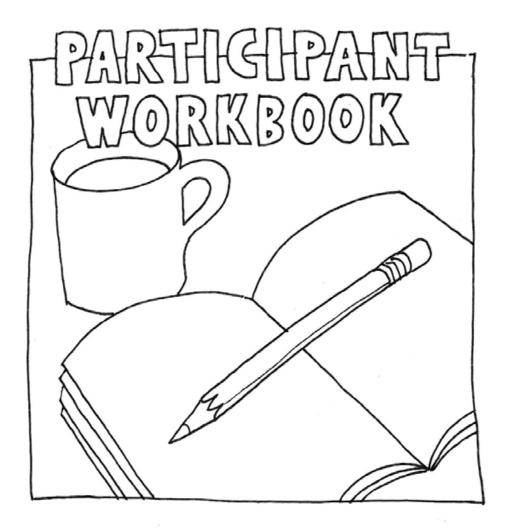


IT Boot Camp



Impact of Mobile Gaming



What do you think when we say Mobile Gaming or Mobile Technologies?

NOTES

Training Overview



- Types of Mobile Gaming Technology
- Basics of How Each Operates
- Considerations
 - Operational
 - Security
 - Regulatory
- Alternate Technical Standards
- Auditing and Regulatory Tips and Practices

| NOTES | | |
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Some Basic History of Technological Aids Think Portable Bingo Tablets referred to as Handhelds

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Casino Owned Tablets Casino Owned Device Safer Connection to Network Impractical

Some casino's offered tablet based games around 2012 era.

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Casino & Vendor Applications



- Casino Branded Application
- Promotional Marketing Apps
- Social Media Based Gaming



Different Types of Casino Branded Applications and vendor owned application i.e. Social Media based gaming not playing for real money

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As phone power increased and mobile developers improved the possibility of mobile phone or tablet based games, it finally became more economical and feasible to offer.

In the US, sports betting in New Jersey and online poker in Pennsylvania. However, it is complicated.

Legislation exists allowing versions of this in various states, but rules vary, are limited, and vary from state to state.

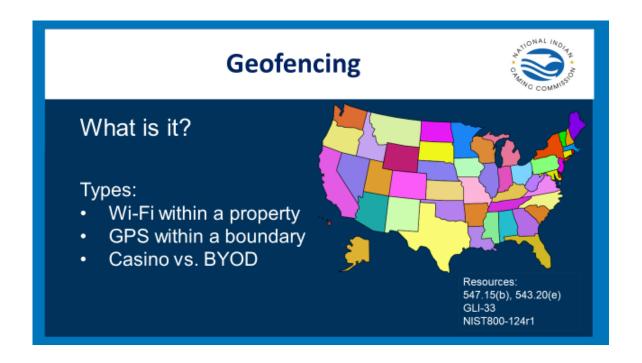
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Various areas to consider when thinking about Sports Betting.

- Mainstream and traditional sports betting.
- Fantasy sports betting.
- ESports betting.
- Non-sport related betting.
- Parlay bets.
- In-game and in-play bets.
- Mobile betting
- CFR 502.4(c)

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Resources for creating new regulations:

- 547.15(b)
- GLI-33 (regulatory)
- NIST800-124r1 (operations / IT Security)

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Geofencing



Issues:



- Inexperienced Developers
- · Link to phone PII
- Link to casino networks (SQL injection, MitM attacks)
- IP / GPS spoofing (VPNs, Pokémon)

With inexperienced developers, authentication issues are sure to crop up along with possible cyber attacks

| NOTES | | |
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Gaming with Cellular Phones





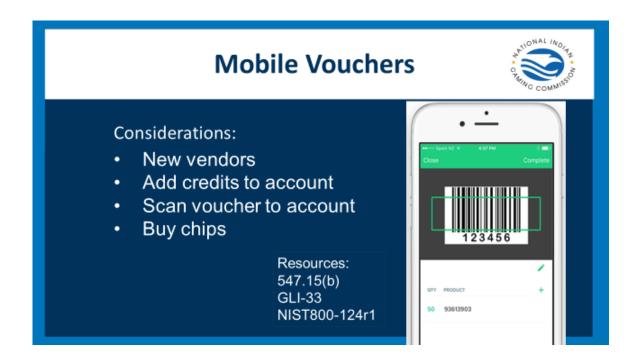
- Few Vendors
- · Class II vs Class III
- Technological & Regulatory Hurdles

Considerations:

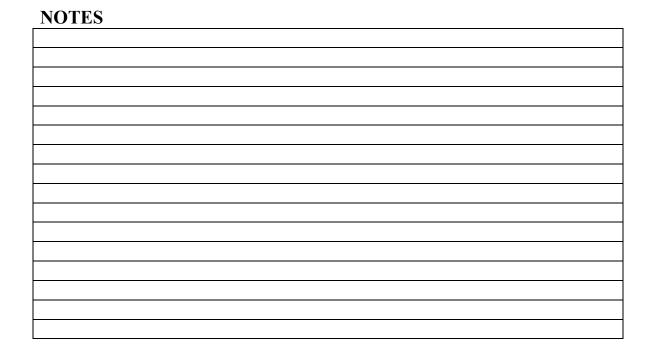
- Proper Configuration
- Jurisdictional Approval
- Connection to CMS 543.20(h) Remote access
- Variances
- Expiration of Bingo Cards
- New TICS/SICS?

Different Mobile gambling types. Mainly casino specific BYOD phones.

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Keep in mind MICS 543.20(h) Remote Access



Mobile Vouchers (Continued)



Considerations:

- Stand Alone vs Integrated with Casino App
- · Connection to CMS
- 543.20(h) Remote Access
- · Cash Only Accounts vs Identity Verification
- · Possible ACH Deposits?
- · Money Laundering Controls?
- · Training Surveillance

Alternative Standards allow your operations to have tighter controls in place

| NOTES | | | |
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Alternative Technical Standards





- Why?
- Outside of scope of original 547
- ie. 547.4(b) "Prototype"
- ie. 547.16(b) Disclaimers

More details to be found using the links below:

HTTPS://WWW.NIGC.GOV/NEWS/DETAIL/NIGC-AND-AGUA-CALIENTE-BAND-OF-CAHUILLA-INDIANS-ANNOUNCE-APPROVAL-OF-AL

HTTPS://WWW.NIGC.GOV/GENERAL-COUNSEL/ALTERNATE-TECHNICAL-STANDARDS

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Alternative Technical Standards



547.2 -

"Not limited to terminals, player stations, handhelds, fixed units, etc."



Alternative Standard -

"Not limited to terminals, player stations, handhelds such as Class II mobile devices, fixed units, etc."

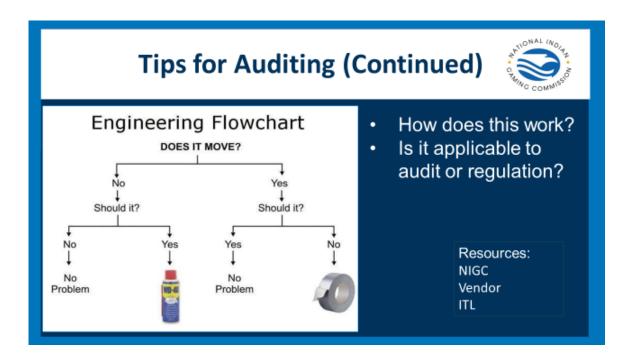
The Alternative Standards need not be overly complicated to be effective.

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Tips for Auditing • What does this interact with? Resources: 543.20 Physical & Logical NIST800-171r1 ISO/IEC 27001

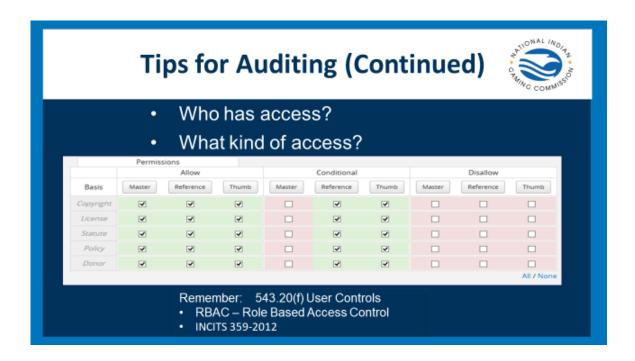
Think Network Diagrams, and ask yourself, what other systems and applications will this interact with?

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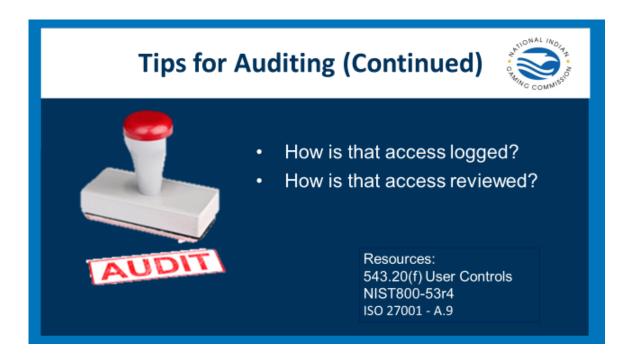
If it is a new vendor, a new product, or a totally new technology, as a regulator one has to have some basic understanding of how this technology works. (See flowchart)

| NOTES | | |
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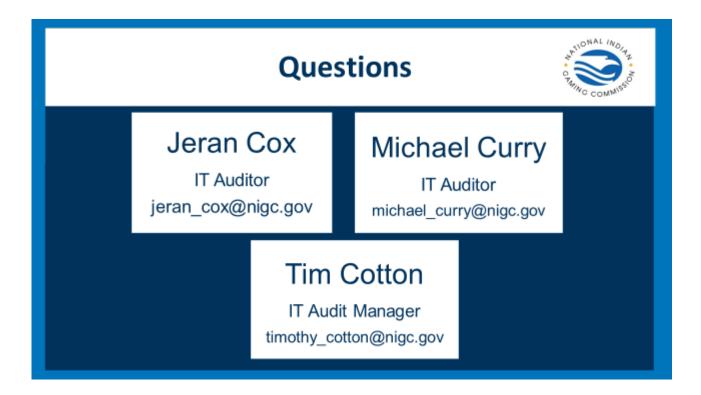
- Who has access?
- 543.20(f) User Controls
- RBAC Role Based Access Control
- INCITS 359-2012 NIST access control standards.

| NOTES | | | |
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- What procedures are in place to log and review access?
- 543.20(f) User Controls
- NIST 800-53 rev 4
- ISO 27001 Annex A.9

| NOTES | |
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Thank you for your participation and attending this session of the Information Technology Boot Camp!

After you log out you will receive a Survey. We ask that you complete the survey as the feedback helps us to get better at what we do!

We hope that you will join us for the next session.

NIGC Training can be reached at <u>traininginfo@nigc.gov</u>