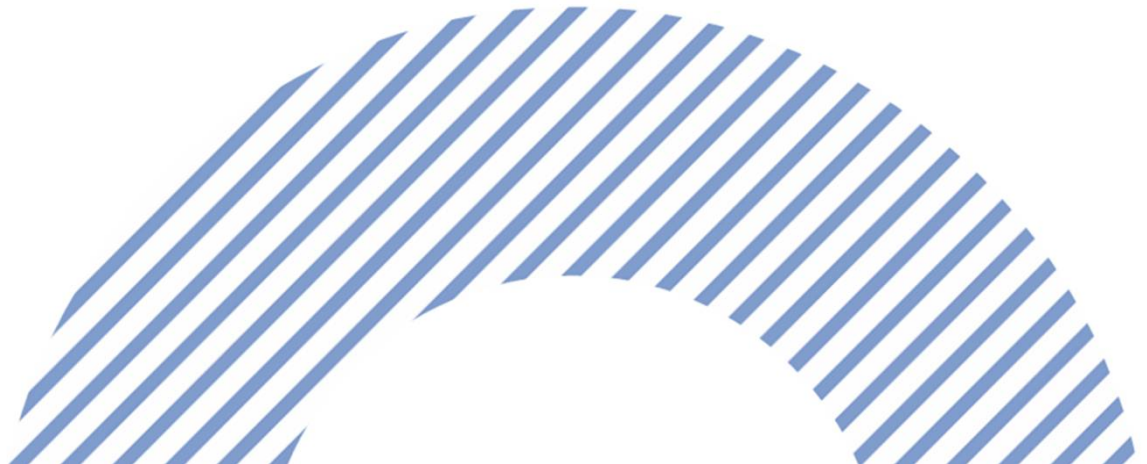


Personal Learning Device (PLD) Initiative

Briefing for Parents

A PRESENTATION BY
MINISTRY OF EDUCATION, SINGAPORE



The National Digital Literacy Programme and the PLD Initiative

An Overview

The National Digital Literacy Programme (NDLP)

1. The NDLP was launched in March 2020 to **make digital learning inclusive** by **equipping students with the digital skills** to be future-ready.
2. Under the NDLP, every secondary school student will **own a school-prescribed personal learning device (PLD)**. Students may use funds from their Edusave Account to pay for the PLD.

Intended Outcomes of the PLD Initiative

The use of the PLD for teaching and learning aims to:



**Support the Development
of Digital Literacy**



**Support Self-Directed and
Collaborative Learning**



**Enhance Teaching and
Learning**

Students' Experiences



Learning with a PLD

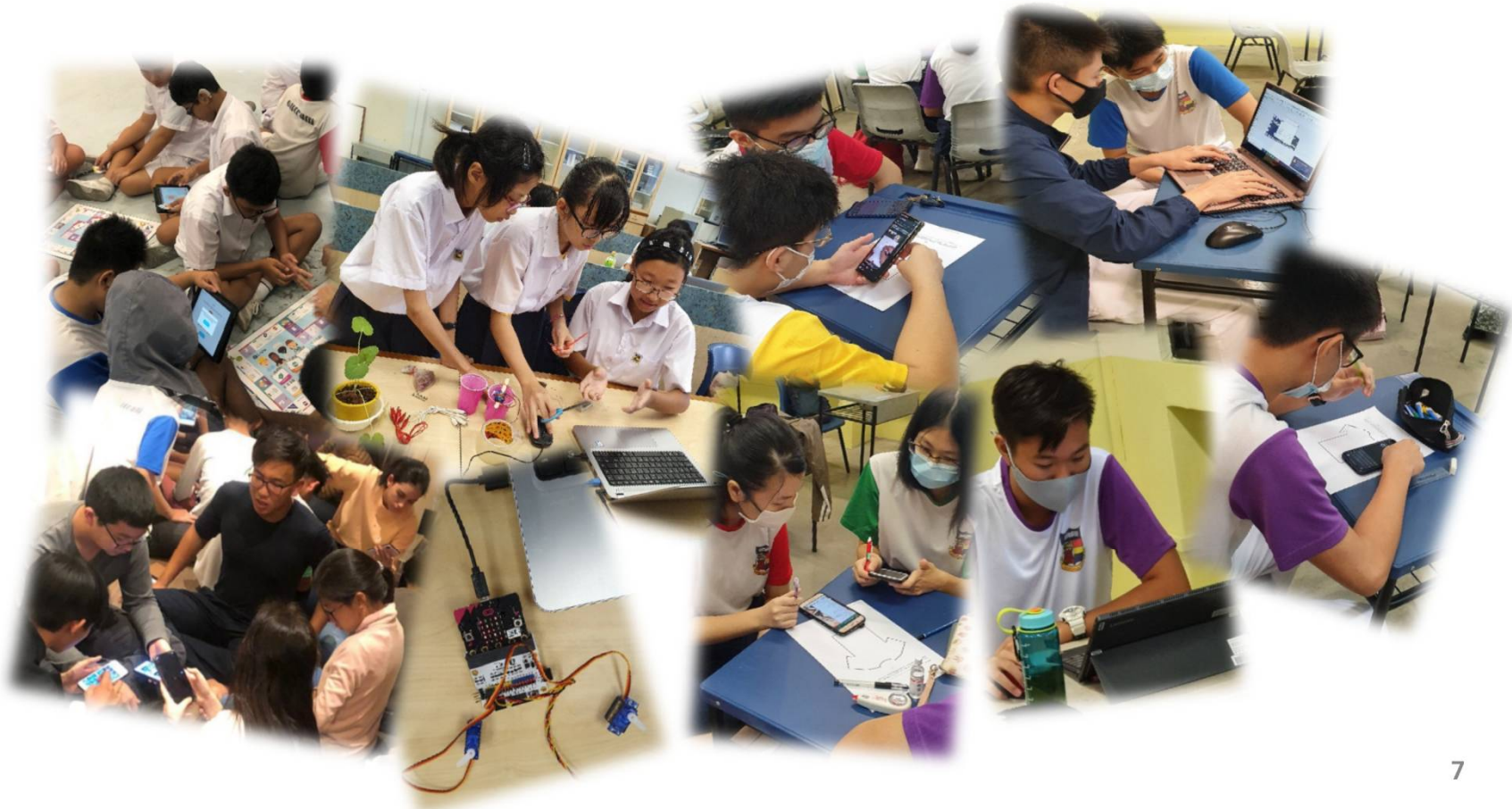
Outram Secondary School

Note: The information contained in this deck of slides is customised according to our school's context and the device selected.

LEARNING WITH A PLD

How will your child/ward use the PLD?

At Outram Secondary School, your child/ward will be using the PLDs for...



Supporting Students in the Safe and Effective Use of the Devices

Supporting Students in the Safe and Effective Use of the Devices

The school has measures in place to enable a safer digital environment for learning with the use of PLDs, e.g.

- Classroom management and routines
- Educating students on Cyber Wellness
- Partnering parents/guardians to ensure that students are well-supported in their use of technology for learning
- Device Management Application (DMA)

Classroom Management and Routines

- Need to have the laptops charged before bringing to school
- To place their laptops in the cabinets provided in the classrooms if they are not using it

Cyber Wellness Education

Educating students on Cyber Wellness

MOE has made significant changes to the Character and Citizenship Education. Cyber Wellness lessons will feature significantly in the CCE2021 lessons.

Topics covered in the Cyber Wellness lessons include:

- Cyber Use
- Cyber Identity
- Cyber Relationships
- Cyber Citizenship
- Cyber Ethics

Cyber Wellness Education

The school also has strategies to enable school-wide implementation of CCE. These include:

- Promoting a Peer Support Culture
- FT-led CCE Programme
- In addition, through various programmes in school, students will continue to learn to be **respectful, safe, and responsible users of technology.**

Parents'/Guardians' Role

- We would like to partner parents/guardians to ensure that students are well supported in their use of technology for learning.
- As parents/guardians, you can help in the following ways:
 - Model good digital habits for your child/ward e.g. parents/guardians not using devices during family meals.
 - Know your child/ward well, and have conversations with your child/ward about safe and responsible use of technology.
 - Set ground rules for internet/device usage.
 - Guide your child/ward to use productivity tools using his/her PLD, to organise information and simplify tasks for efficiency.

Parents' Voices: In Conversation on Students' Use of PLDs for Learning



Role of the DMA in Providing a Safer Digital Environment for Learning

Device Management Application Installation

- Your child's/ward's PLD will be installed with a Device Management Application (DMA) to provide a safer digital environment for learning.
- Installation of the DMA will be performed after the collection of the device. Students will be guided on the installation.
- This applies to both devices purchased through the school and pre-existing student-owned devices.
- The DMA will be **funded by MOE** and will be **uninstalled** from the device **when your child/ward graduates/leaves the school**.

In-School DMA Settings (Default)

Schools will determine DMA settings for **in-school use**. As a default, these settings will continue to be in place after school as well:

- MOE and the school will set the level of web content filtering, including filtering out objectionable content or content that may not be conducive to teaching and learning (e.g. social media, pornography, gambling, or websites containing extremist content)
- Students will be able to use the device from **7a.m. to 11p.m.** daily
- The school will determine the apps and programs to be installed to support teaching and learning

Providing Parents/Guardians with Greater Choice for After-School PLD Use

The school will provide parents/guardians with more information on exercising the options.

Default	Option A	Option B
In-school DMA settings will continue after school hours	Parents/Guardians can modify the DMA settings after school hours	Parents/Guardians can choose to disable DMA after school hours
For parents/guardians who want their child's/ward's use of the devices to be restricted only to teaching and learning, and prefer to leave it to the school to decide on DMA settings after school hours.	For parents/guardians who want more leeway over the use of the device, and prefer to take charge of the level of restrictions for their child's/ward's use of the device after school hours.	For parents/guardians who do not want their child's/ward's use of the device to be regulated by DMA after school.

- Having default school settings continue after school hours is the best option for parents/guardians who prefer not to, or do not feel ready to manage their child's/ward's device use on their own.
- Parents/guardians can request to change their choice of DMA settings at any time.

Providing Parents/Guardians with Greater Choice for After-School PLD Use

	Default	Option A	Option B
Protecting students from objectionable content	MOE/school sets level of web content filtering	Parents/Guardians can apply additional content filtering	No content filtering
Reduce distractions from learning through control of applications	Parents/Guardians and students <u>unable</u> to install additional applications	Parents/Guardians and/or students can install applications after school hours, but these applications are disabled during school hours	
Limit screen time	School sets hours during which students are able to use the device online	Parents/Guardians can modify the amount of screen time*	No control over screen time

*Screen time limits set by the school will override parents'/guardians' settings during school hours.

Deciding on the Choice of After-School DMA Option

Parents/guardians may wish to consider the following questions before deciding on the choice of after-school DMA option which is best for your child's/ward's learning.

1. Child's/ward's current device usage habits

- How much time does my child/ward spend on their device?
- How well is my child/ward able to regulate their device usage on their own?
- Does my child/ward get easily distracted while doing online learning?

2. Parents'/Guardians' involvement

- How confident and familiar am I with managing my child's/ward's cyber wellness?
- Are there existing routines and open conversations on the use of the Internet at home?
- Am I aware of how to prevent different types of cyber threats that my child/ward might face?



Have a conversation with your child/ward to talk about which setting is best for your child's/ward's learning.

Data Collected by the DMA

The DMA does **NOT** collect any of the following data:

- Login IDs and passwords entered into websites or into any applications
- Actions performed (e.g. posts, online comments, items added to a shopping cart, etc.) when visiting websites and using apps
- Documents and photos stored in the PLDs
- PLD location
- Webcam videos and microphone recordings

Additional Resources for Parents

To support you in keeping your child/ward safe online, you may refer to these additional resources:

- Parent Handbooks (I) and (II) on Learning with a Personal Learning Device (shared by the school)
- Parent Kit on Cyber Wellness for Your Child (<https://go.gov.sg/moe-cyber-wellness>)
- Schoolbag article 'Keeping our teens safe online' (<https://www.schoolbag.edu.sg/story/keeping-our-teens-safe-online>)
- MOE Cyber Wellness Programme (<https://www.moe.gov.sg/programmes/cyber-wellness/>)
- Media Literacy Council (<https://go.gov.sg/better-internet-sg>)
- National Library's Learning & Information Literacy Resources (<https://sure.nlb.gov.sg/>)
- TOUCH Community Services (<https://help123.sg>)

Device and Funding Information

Outram Secondary School's PLD



**Intel N4120
processor, 8GB RAM,
64GB Storage,
11.6" Screen Size**

The school will be using the
Acer R752TN for teaching
and learning.

Total cost with GST: **\$490**

Outram Secondary School's PLD



Acer R752TN

The school chose the device because of:

- Portability
- Durability
- T&L Affordances
- Cost

PLD Bundle

Device Bundle includes
<ul style="list-style-type: none">• Device model : Acer R752TN• Power Adaptor, Mouse, Carrying Case and Stylus• Insurance and Warranty

Your child's/ward's PLD will come with the **Enhanced Device Bundle** which includes:

- 3-year warranty and 3-year insurance
- 2 repairs or 1 replacement claim

Funding Support for Singapore Citizen (SC) Students

- **The cost of the device bundle can be paid using your child's/ward's Edusave account**, after setting aside provision for payment of second-tier miscellaneous fees.
- To ensure the affordability of devices, MOE has provided Edusave top-ups of \$200 in 2020 and \$200 in May 2021 (as part of the Household Support Package announced in Budget 2021), to all eligible SC students in primary and secondary schools.
- This is on top of the annual \$290 credited into the Edusave account for Secondary School students and \$230 for Primary School students.

Funding Support for Singapore Citizen (SC) Students

- For SC students who are on MOE Financial Assistance Scheme or whose family's monthly income meets the following criteria:

Gross Household Income (GHI) \leq \$2,750, or

Per Capita Income (PCI) \leq \$690

the school will subsidise 50% of device bundle cost or \$350, whichever is lower.

- The remaining amount will be payable from the students' Edusave account. If there is insufficient balance in the students' Edusave account for the remaining amount, school will provide additional subsidy so that the cash out-of-pocket (OOP) is \$0.

Funding Scenario: Student A (SC)



**11.6" Acer
Chromebook R752TN
\$490***

Student A (SC on MOE FAS) GHI \leq \$2,750 or PCI \leq \$690	
Device Bundle Cost	\$490
Student Subsidy	\$245
Available Edusave Balance <i>(After setting aside for 2nd-tier misc fees)</i>	\$200.00 before deduction \$200.00 will be deducted
Additional Subsidy	\$45.00
Cash Out-of-pocket	\$0.00

For more details on financial assistance, please approach the school.
Each student would receive a personalised bill subsequently.

Funding Support for Singapore Citizen (SC) Students

- For SC students whose family's monthly income is:

$\$2,750 < \text{Gross Household Income (GHI)} \leq \$4,000$, or

$\$690 < \text{Per Capita Income (PCI)} \leq \$1,000$

the school will subsidise 30% of device bundle cost or \$200, whichever is lower.

- The remaining amount will be payable from the students' Edusave account. If there is insufficient balance in the students' Edusave account for the remaining amount, school will provide additional subsidy so that the cash out-of-pocket (OOP) is not more than \$50.

Funding Scenario: Student B (SC)



**11.6" Acer
Chromebook R752TN
\$490***

Student B (Non MOE-FAS SC from lower income family) \$2,750 < GHI ≤ \$4,000 or \$690 < PCI ≤ \$1,000	
Device Bundle Cost	\$490
Student Subsidy	\$147
Available Edusave Balance <i>(After setting aside for 2nd-tier misc fees)</i>	\$200.00 before deduction \$200.00 will be deducted
Additional Subsidy	\$93
Cash Out-of-pocket	\$50.00

For more details on financial assistance, please approach the school.
Each student would receive a personalised bill subsequently.

Funding Support for Singapore Citizen (SC) Students

- SC students whose family's monthly Gross Household Income (GHI) > \$4,000 or monthly Per Capita Income (PCI) > \$1,000, no subsidy will be provided. Parents/Guardians can use their child's/ward's Edusave or cash to defray the device bundle cost.

Funding Scenario: Student C (SC)



**11.6" Acer
Chromebook R752TN
\$490***

Student C (Not Eligible for Subsidy) GHI > \$4,000 or PCI > \$1,000	
Device Bundle Cost	\$490
Available Edusave Balance <i>(After setting aside for 2nd-tier misc fees)</i>	\$200.00 before deduction \$200.00 will be deducted
Cash Out-of-pocket	\$290

For more details on financial assistance, please approach the school.
Each student would receive a personalised bill subsequently.

What's Next?

WHAT'S NEXT?

For Singapore Citizens (SC) Students

Time Frame	Activity
6 Jan 2022	<p>Submit Letter to Parents for Procurement which includes the following annexes:</p> <ul style="list-style-type: none">• Intent to purchase• Use of Edusave <p>Please fill in the online form at this link: https://go.gov.sg/pdipadmin by 6 Jan 2022. If you are unable to submit the form online, please contact the school for a hardcopy version.</p>
End of Feb 2022	Collection of devices by students

WHAT'S NEXT?

For Permanent Residents / International Students

Time Frame	Activity
6 Jan 2022	<p>Submit Letter to Parents for Procurement which includes the following annex:</p> <ul style="list-style-type: none">• Intent to purchase <p>Please fill in the online form at this link: https://go.gov.sg/pdlpadmin by 6 Jan 2022. If you are unable to submit the form online, please contact the school for a hardcopy version.</p>
17 Jan 2022	Parent/Guardian to make payment via Giro/PayNow/Cheque/etc.
End of Feb 2022	Collection of devices by students

WHAT'S NEXT?

Letter to Parents for Procurement



Parents with Singpass can access the Letter to Parents for Procurement to indicate your consent via the following link:

<https://go.gov.sg/pdlpadmin> *

* Parents/Guardians without Singpass can request for the hardcopy letter via your child's/ward's form teacher.

Collection of Devices

Your child/ward will be collecting his/her device in school **from End of Feb 2022.**

If you would like to verify the condition of the device during collection with your child/ward:

- You may arrange to collect the device **at the contractor's service / collection centre*** or appoint an adult proxy to do so.
- Your child/ward would need to bring the device to school and arrange for the school's IT department to install the DMA.

Please approach the school for further advice or clarification if you would like to make this arrangement.

* Parents/Guardians (or adult proxy) will **not** be able to collect the PLD from the school.

WHAT'S NEXT?

Important Contacts / Helplines

To access / find out more about...	Contact / Helpline
This deck of slides	<u>Outram Secondary School</u>
Edusave balance	6260 0777
Financial assistance	67334077
ICT/Technical Support	67334077 (143) * Miss Zahira

Thank you



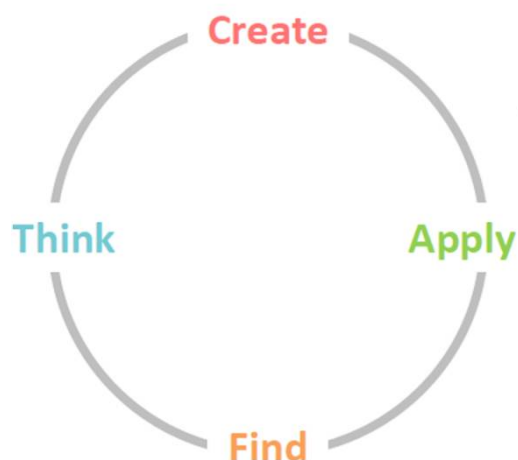


Ministry of Education
SINGAPORE

Drawer

The National Digital Literacy Programme (NDLP)

The 'Find, Think, Apply and Create' framework:



Find	Critically gather and evaluate information from, and use digital resources in a safe, secure, responsible and ethical manner
Think	Interpret and analyse data, and solve problems
Apply	Use software and devices to facilitate the use of knowledge and skills in new contexts; keep up with technological developments
Create	Produce content and artefacts, and engage and collaborate with others digitally

Components of DMA

The Device Management Application (DMA) software consists of the following three components:

- **Mobile Device Management Service**
- **Classroom Management Service**
- **Usage Management Service**

DMA Components and their Functions

1. Mobile Device Management Service (MDM)¹

This facilitates the **updating and management of the PLDs, protects PLDs from malicious software, and protects students from objectionable internet content, or content that may not be conducive to teaching and learning during school hours.**

- Facilitates automatic installation of apps required for teaching and learning
- Filters objectionable content or content that may not be conducive to teaching and learning (e.g. social media, pornography, gambling, or websites containing extremist content)
- Protects your child's/ward's PLD from security vulnerabilities through the automatic updating and patching of apps and device Operating System (OS)

¹ MDM is a **core service** that is required to deliver Classroom Management Service and Usage Management Service (which includes the Parental Control app).

DMA Components and their Functions

2. Classroom Management Service (CMS)

This enables teachers to **manage the students' use of the PLD** during lesson time to improve classroom management and support effective teaching and learning. Teachers will only monitor students' activities during lessons.

During lessons, teachers will be able to:

- Manage and control devices (e.g. using the "Eyes Up" function)
- Launch specific applications and/or websites for teaching and learning on students' devices
- Facilitate sharing of content
- Monitor students' usage and activities during lessons (e.g. screen sharing, monitoring students' browsing history)

DMA Components and their Functions

3. Usage Management Service (UMS)

This enables the school and/or parents/guardians to **better supervise and set helpful limits for students' use of PLDs after school.**

- Screen time control ensures that students do not use the PLDs excessively
- School and/or parents/guardian control installation of applications to ensure that the device is used optimally for teaching and learning
- Safe search and additional web content filtering protects students from harmful content
- Parents/Guardian can monitor usage and activities by students

Types and Purpose of Data Collected by DMA



**Data for DMA
Administrative
Purposes**



**Data for
Application
Management**



**Data for Web
Content Filtering**



**Data for Sharing
Students' Screen**



Data for DMA Administrative Purposes

Essential for DMA and lesson set up and management of devices through DMA

Examples:

- Students' and parents'/guardians' information (Name, school name, email addresses, and class)
- Apps installed in your child's/ward's PLD
- Device and hardware information (e.g. device model, storage space)

Accessible by:

- Teachers
- Parents/Guardians (for activities after school hours)
- DMA Administrators in school and at MOE
- DMA Vendors



Data for Web Content Filtering

Filtering of harmful content to ensure students' cyber safety

Examples:

- URLs accessed on the PLDs (*Actions performed on websites are **NOT** captured*)
- Date and time of the access
- Student profile (Name, School name)

Accessible by:

- Teachers (for activities during lessons)
- Parents/Guardians (for activities after school hours)
- DMA Administrators in school and at MOE
- DMA Vendors



Data for Application Management

To ensure that the installed apps are updated and functioning properly

Examples:

- Installed apps and programs
- Date and time that the apps and programs were last updated
- Application error data

Accessible by:

- Teachers (for activities during lessons)
- Parents/Guardians (for activities after school hours)
- DMA Administrators in school and at MOE
- DMA Vendors



Data for Sharing Students' Screen

To allow teachers to check that students are on task, and address possible questions in class

Examples:

- Only the streaming of 'live' screen view (*The screen view will **NOT** be stored*)

Accessible by:

- Teachers during lessons only

Data Collected and Access Rights

- All user data collected through the DMA will be stored in secure servers managed by appointed DMA Vendors with stringent access controls and audit trails implemented. The DMA solutions used are cloud-based Software-as-a-Service (SaaS) solutions and are trusted solutions that have been operating for many years. They have also been subject to regular security review and assessment by independent reviewers.
- MOE has assessed and concluded that the DMA solutions have sufficient security robustness to ensure data collected are properly stored and protected. MOE will also subject the DMA Vendors to regular audit on the security of the system based on tender requirements.

Data Collected and Access Rights

To prevent unauthorised access, DMA Administrators and DMA Vendors will be required to access their accounts using 2-factor authentication or the equivalent to ensure proper accountability for information access and other activities performed. There will be regular account reviews and audits for DMA Administrators' and DMA Vendors' accounts.