Deploying & Managing LearnPads
Central management system

Overview

To effectively deploy, manage, update and administer any number of mobile devices in a controlled environment, it is essential to have a robust, scalable, easy to use yet powerful centralised management and content delivery system.

The LearnPad web based central management system has been designed so that managing, updating, controlling and deploying content, applications and profiles to multiple mobile devices is a quick, simple and efficient process.

The LearnPad management system comprises a secure, cloud hosted web portal into which a school, managed service provider or Local Authority can login and perform a number of device management functions. No expensive hardware or software is required to use the management system and access is configured within minutes. Data is stored on secure datacenter servers and utilises salt hash encryption, SSL certificates and secure SQL databases to store and manage content delivery.

As with any device management system there are a number of separate functional areas that need to be addressed, these include:

- **Device management, updates & control**

- **Content management & delivery**

- **Application management & installation**

- **Device profiling, grouping and interface customisation**

In addition to these requirements, the system has been designed so that no specialised knowledge of mobile devices or device manage is required to successfully utilise the system. The interface has been designed in a simplified way to ensure it can be used by a range of personnel with varying levels of ICT skills. Moreover, the solution has been customised to best fit an educational institution and its unique requirements, including network share access and individual profiling.

LearnPad
Management Portal
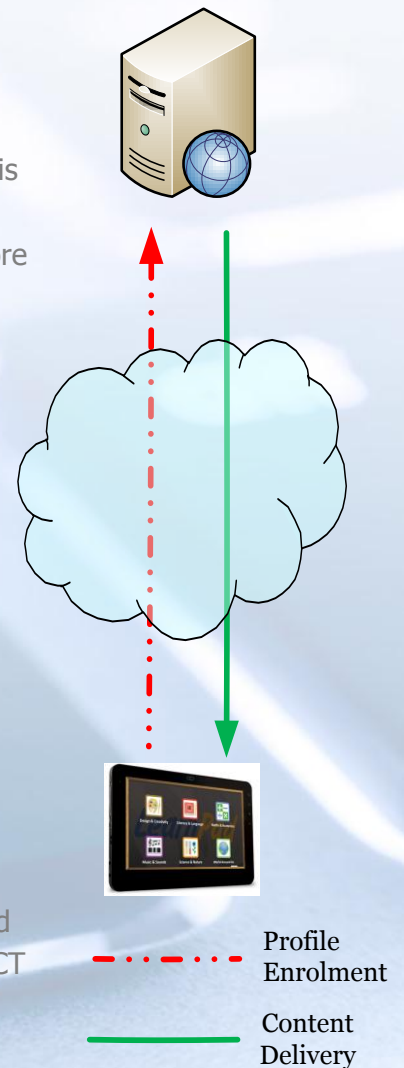
Profile
Enrolment

Content
Delivery

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LearnPad...
Device management & control

One of the key aspects of device management is to provide a simplified yet powerful range of features to remotely manage devices. This can range from a simple 'inventory' of connected devices, to a more detailed range of parameters and functions such as device status and systems configurations. The LearnPad management system provides the following key functionality:

Device Reporting

Each device that enrols into the management system will automatically report a range of device parameters and information such as its unique ID, device type and OS version. It will also report important statistical information, such as enrolment date, last check in time and current profile. This is presented in the management system in an audit style list, from which it is possible to drill down to each device to gather further device information or make individual device changes.

Profile Changes

Profile changes can be initiated from the portal to any of the individual devices. When the device calls in to the management system it will check to see if there are any changes to its profile and download any new content or configuration as required.

Device Settings

The management system can also collect and edit certain device system settings, including proxy server configuration and wi-fi access points. System settings available to the management system will vary depending on the device that is being managed.

Remote Device Actions

In addition to collecting device information, profile and system setting changes, the LearnPad management system also facilitates the removal and expiration of device content as well as removal of the device from the management system itself. All previously installed applications and content can be remotely removed from the device prior to its removal from the system.

Reporting parameters:

· **Device ID**

· **MAC Address**

· **Device Type**

· **Model**

· **Manufacturer**

· **OS Version**

· **Enrolment Date**

· **Last access time**

· **Wi-fi profile**

· **Proxy Settings**

· **Current IP**

· **Current Profile**

· **Storage capacity**

· **Free space**

· **IMEI (if available)**

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LearnPad...
Content management & control

Content Management & Control

The LearnPad management system provides both cloud based storage of supported content files as well as content management and delivery of files and content to individual or grouped devices.

Content Storage & Management

Using the secure portal, users can upload and store documents, media or application files to the secure cloud storage portal. This builds a repository of 'content files' that can then be assigned and delivered to individual or grouped devices. All files are stored in unique, private secure locations on the server.

Content Delivery

Files that have been uploaded and stored within the portal can be selected for deployment to individual or grouped devices. Files are delivered on a scheduled basis and saved locally on each devices' internal storage , thus facilitating 'offline' access. Files can be disabled or removed from devices automatically during the scheduled content update, thus facilitating dynamic device content management. Files that are 'disabled' remain on the device but cannot be accessed from the LearnPad interface.

Profile Based Content Management

Device content management is facilitated by the use of custom profiles. Each profile defines which applications and content are delivered to the device. When devices connect, the server deploys the relevant content for their current profile.

Supported files types:

· **Android apps (.apk)**

· **Adobe (.pdf, .swf)**

· **Office (.doc/x, .xls/x, .ppt/x)**

· **Video (H264, H263, .mpg2, .mp4, .avi, .wmv, .divx)**

· **Audio (.mp3, .wma, .aac, .ogg)**

· **Web (.html, .xml)**

· **Text (.txt)**

· **Compressed (.zip)**

· **Images (.jpg, .png)**
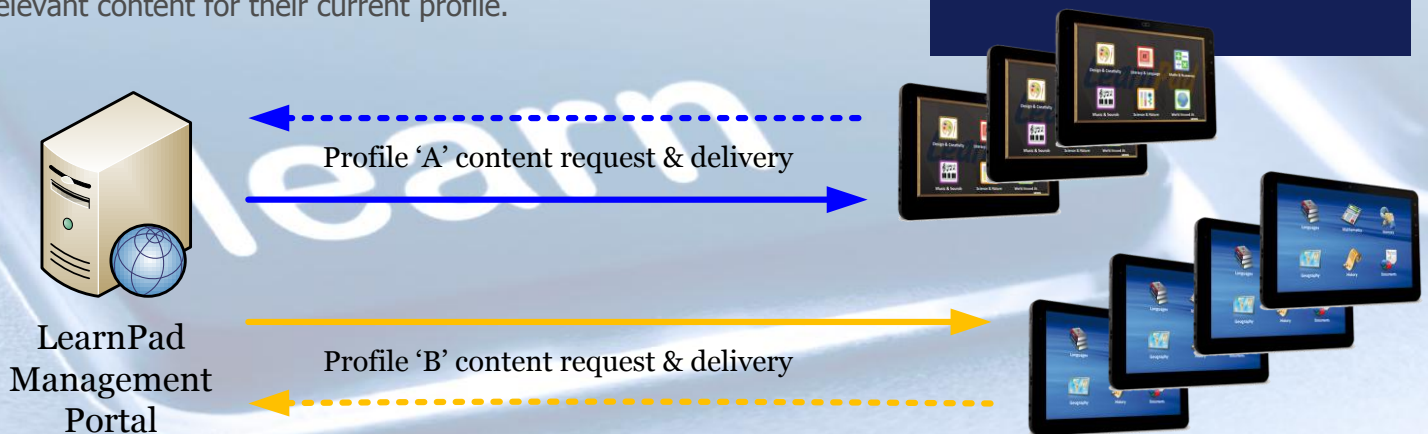
Profile 'A' content request & delivery

Profile 'B' content request & delivery

LearnPad Management Portal

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LearnPad...
Application Management & Installation

Current 'app' stores do not facilitate the silent roll out and installation of new applications to multiple devices.

The LearnPad management system, combined with the LearnPad educational content store, provides a turnkey solution to sourcing, purchasing, deploying and installing new applications to multiple devices.

Application Purchase

Schools can search for age appropriate, curriculum aligned content categorised by subject area and key stage. Content can be purchased simply by using a school Purchase Order number.

Volume license discounts are available as are site wide licenses for many applications. Additionally, there is a large range of free content and applications that can be downloaded at no cost. Once purchased, applications are instantly delivered to the LearnPad management system rather than to each device. Application roll out can then be defined and controlled by the management system via group profiles.

Application Deployment

Using the management system, applications previously purchased in the content store can be applied to individual devices or groups of devices. Once an application has been assigned to a group profile, it will be automatically downloaded and silently installed on each device in that group.

Applications can be 'removed' from the device in two ways, either by uninstalling the application, or by simply disabling access to it via the locked interface.

Additionally, the management system can be used to upload and distribute 'in house' applications, such as those created by students. Upload and store the relevant Android application .apk file and this can be deployed and installed silently on devices.

Application Deployment

Send applications to multiple devices and carry out unattended, silent installations concurrently.

Application Purchase

The curriculum aligned content store allows for volume license purchase via school purchase order.

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LearnPad...
Device profiling, grouping & customisation

The LearnPad client application, once installed on the target device, provides a secure and controlled interface from which users can access and run only approved applications, websites or content.

Using the LearnPad management system, this interface can be fully customised, allowing the administrator to create multiple device profiles and group devices together with a common custom layout.

Device Profiles

Within the management system there is the facility to create unique device profiles. These profiles contain the background images, icons, applications, website links and content to be delivered to each device. Unique profiles can be created for individual users, a group of users (e.g a class or year group) or even generically for every device in the management system. Profiles can be changed remotely by the management system or locally on each device by use of the QrKey barcodes.

Device Grouping

Once profiles have been configured, any number of devices can be enrolled into one of the profiles, thus creating a profile group. Any changes to that profile will be automatically sent to each of the devices within the profile group. Adding a new content item or application to the profile group will cause the new content to be delivered and silently installed on any device in that group profile.

Interface customisation

The management system allows administrator to upload and store their own device backgrounds and category icons. Custom categories can be created that are relevant to the devices intended use.

Applying these backgrounds, icons and custom categories to a group profile allows the administrator to have complete control over the look and feel of the user interface, as well as the content that is available to the user.

Custom Profiling

Using your own backgrounds, icons and categories you can create unique, custom profiles that can be deployed to any device within the management system

Help your budget...

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