EuroSmartz Ltd.

Mobile Device Management
-
App Configuration Guide

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http://eurosmartz.com

Introduction

This document describes the Mobile Device Management configuration structure for the following EuroSmartz Apps:

AltaMail
http://esz.us/am
App Store
http://esz.us/ami

PrintCentral Pro
http://esz.us/pclp

App Store
iPhone: http://esz.us/pclpai
iPad: http://esz.us/pclpbi

Notes:

After the MDM App Configuration is applied, the processing summary can be accessed using the feedback command. The status of the last app configuration process is stored in the key "StatusLog". This status log also shows unused keys from the app configuration as a warning about key name syntax errors or unused values.

To see the result of the last configuration process, open the "i" button in the left side panel and do a long tap (2 seconds) on the Contact Us button. This is a detailed app configuration summary, with several MDM fields included.

When using values in any of the password fields, make sure the app configuration is encrypted by the MDM server.

App Configuration Keys

Key Name	Description
ConfigurationVersion	The version of the configuration format. Currently the only allowed value is "1" integer: Required
AppVersionMinimum	The minimum app version required to use this configuration. Older app versions will not load the configuration. string: Optional
Variables	A group of key values to be used throughout this configuration. dict: Optional
allowAppBackup	Allow the user to do a full app backup to a backup file from inside the App Preferences – Application. boolean: Optional default: true
allowSyncDevices	Allow the user to enable sharing of settings data between their devices over iCloud: App Settings – Files - "Sync local files between devices via iCloud" App Settings – Email Management - "Synchronise Settings" (AltaMail only) boolean: Optional default: true
deleteAllContent	Delete all print servers, cloud servers, files and email accounts. This is done before processing other modules. boolean: Optional default: false
deleteEmailAccounts	Delete all email accounts. boolean: Optional default: false
deletePrintServers	Delete all printers and print servers. boolean: Optional default: false
deleteCloudServers	Delete all cloud servers. boolean: Optional default: false
deleteLocalFiles	Delete all local files and folders. boolean: Optional default: false

Example:

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE plist PUBLIC "-//Apple//DTD PLIST 1.0//EN"
"http://www.apple.com/DTDs/PropertyList-1.0.dtd">
<plist version="1.0">
<dict>
    <key>ConfigurationVersion</key>
    <integer>1</integer>
    <key>AppVersionMinimum</key>
    <string>2.3.3</string>

    <key>allowAppBackup</key>
    <false/>
    <key>allowSyncDevices</key>
    <false/>
</dict>
</plist>
```

Variables

You can add custom variables for commonly used values throughout the configuration file.
eg. If a variable key is "USER", any other fields containing "$USER$" will have that text replaced with the value of the USER variable.

The variable names can be upper or lower case, but are shown in uppercase here to distinguish them from normal values. Variables can also contain other variables.

Variables are defined using this format below.

```
<key>Variables</key>
<dict>
    <key>USER</key>
    <string>testuser</string>
    <key>DOMAIN</key>
    <string>example.com</string>
    <key>USERNAME</key>
    <string>$USER$@$DOMAIN$</string>
    <key>PASSWORD</key>
    <string>mypassword</string>
</dict>
```

Using an example extract of an email configuration

```
...
<key>IncomingMailServerHostName</key>
<string>mail.$DOMAIN$</string>
<key>EmailAddress</key>
<string>$USERNAME$</string>
<key>IncomingPassword</key>
<string>$PASSWORD$</string>
…
```

After applying the variables above, the result would be:

```
…
<key>IncomingMailServerHostName</key>
<string>mail.example.com</string>
<key>EmailAddress</key>
<string>testuser@example.com</string>
<key>IncomingPassword</key>
<string>mypassword</string>
…
```

Printing

Key	Description
Print	Configuration container for printing settings dict: Optional
allowPrint Print	Allow printing boolean: Optional default: true
allowPrintServerAdd Print	Allow the user to add their own printer servers, or for the app to add servers when searching. boolean: Optional default: true

allowPrintServerTypes
Print
	Allowed types of printers that the user can add, or that the app adds automatically in a printer search. AirPrint and Convert to PDF will be automatically added by the app if available and if allowed. Print servers included in this configuration file are not restricted by this list.
	array of string: Optional
	values:
	    PrintServerTypeGCP
	    PrintServerTypeWePrint
	    PrintServerTypeWePrintMobileData
	    PrintServerTypeDirect
	    PrintServerTypeAirPrint
	    PrintServerTypeCUPS
	    PrintServerTypePDF

PrintServers Print	A list of printer servers that will be added to the app. These printers will be added if no matching printer server is found. ie. matching printer type and host. array of dict: Optional

PrintServerType
Print/PrintServers
	The type of the printer to be added.
	string: Required
	values:
	    PrintServerTypeGCP
	    PrintServerTypeWePrint
	    PrintServerTypeWePrintMobileData

Username Print/PrintServers	The username for a printer server. string: Required for PrintServerTypeGCP and PrintServerTypeWePrintMobileData
ServerHostName Print/PrintServers	The host name of the server to connect to. string: Required for PrintServerTypeWePrint
ServerPortNumber Print/PrintServers	The server network port number. integer: Optional default: 8080 for PrintServerTypeWePrint

Example:

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE plist PUBLIC "-//Apple//DTD PLIST 1.0//EN"
"http://www.apple.com/DTDs/PropertyList-1.0.dtd">
<plist version="1.0">
<dict>
    <key>ConfigurationVersion</key>
    <integer>1</integer>

    <key>Print</key>
    <dict>
        <key>allowPrintServerAdd</key>
        <true/>

        <key>allowPrintServerTypes</key>
        <array>
            <string>PrintServerTypeWePrint</string>
            <string>PrintServerTypeWePrintMobileData</string>
        </array>

        <key>PrintServers</key>
        <array>
            <dict>
                <key>PrintServerType</key>
                <string>PrintServerTypeGCP</string>
                <key>Username</key>
                <string>user@gmail.com</string>
            </dict>

            <dict>
                <key>PrintServerType</key>
                <string>PrintServerTypeWePrintMobileData</string>
                <key>Username</key>
                <string>mobileuser@gmail.com</string>
            </dict>
        </array>
    </dict>
</dict>
</plist>
```

Files

Key	Description
File	Configuration container for file and file server settings dict: Optional
allowFileServers File	Allow access to any file servers. boolean: Optional default: true
allowFileServerAdd File	Allow the user to add file servers and also for the app to add WePrint servers in searches. boolean: Optional default: true

allowFileServerTypes
File
	The list of file server types that can be added automatically by the app, or added by the user. "FileServerTypeITunes" is the shared folder populated by iTunes.
	array of string: Optional
	values:
	    FileServerTypeWePrint
	    FileServerTypeGoogleDrive
	    FileServerTypeFTP
	    FileServerTypeWebDav
	    FileServerTypeITunes
	    FileServerTypeBox
	    FileServerTypeDropbox
	    FileServerTypeICloud
	    FileServerTypeICloudDrive
	    FileServerTypeCloudMe
	    FileServerTypeShareFile
	    FileServerTypeSugarSync
	    FileServerTypeOneDrive
	    FileServerTypeEvernote

allowOpenInOutgoing File	Allow access to the "Open with app" action to share file with other apps. boolean: Optional default: true
allowOpenInIncoming File	Allow other apps to send files to this app using "Open In". boolean: Optional default: true
allowClipTransferOutgoing File	Allow the user to send clipboard content and files to other devices over WiFi or Bluetooth. boolean: Optional default: true

allowClipTransferIncoming File	Allow other devices to send clipboard content and files to this app. boolean: Optional default: true
FileServers File	A list of file servers that are added to the app. array of dict: Optional

FileServerType
File/FileServer
	The type of the file server to be added.
	string: Required
	values:
	      FileServerTypeWePrint
	      FileServerTypeGoogleDrive
	      FileServerTypeFTP
	      FileServerTypeWebDav
	      FileServerTypeITunes
	      FileServerTypeBox
	      FileServerTypeDropbox
	      FileServerTypeICloud
	      FileServerTypeICloudDrive
	      FileServerTypeCloudMe
	      FileServerTypeShareFile
	      FileServerTypeSugarSync
	      FileServerTypeOneDrive
	      FileServerTypeEvernote

Username File/FileServer	The server username for authentication. string: Optional
Password File/FileServer	The server password for authentication. string: Optional
ServerHostName File/FileServer	The network host address for the server. string: Optional
ServerPortNumber File/FileServer	The network port number for the server. integer: Optional
ServerUseSSL File/FileServer	Enable SSL for the server connection. Only used by FileServerTypeFTP boolean: Optional default: false
ServerUseTLS File/FileServer	Use TLS for the server connection. Only used by FileServerTypeFTP boolean: Optional default: false

Example

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE plist PUBLIC "-//Apple//DTD PLIST 1.0//EN"
"http://www.apple.com/DTDs/PropertyList-1.0.dtd">
<plist version="1.0">
<dict>
    <key>ConfigurationVersion</key>
    <integer>1</integer>

    <key>File</key>
    <dict>
        <key>allowFileServerAdd</key>
        <true/>
        <key>allowOpenInOutgoing</key>
        <false/>
        <key>allowOpenInIncoming</key>
        <false/>
        <key>allowClipTransferIncoming</key>
        <false/>
        <key>allowClipTransferOutgoing</key>
        <false/>

        <key>allowFileServerTypes</key>
        <array>
            <string>FileServerTypeDropbox</string>
            <string>FileServerTypeBox</string>
            <string>FileServerTypeSugarSync</string>
            <string>FileServerTypeWePrint</string>
        </array>

        <key>FileServers</key>
        <array>
            <dict>
                <key>FileServerType</key>
                <string>FileServerTypeDropbox</string>
            </dict>

            <dict>
                <key>FileServerType</key>
                <string>FileServerTypeFTP</string>
                <key>Username</key>
                <string>user@example.com</string>
                <key>Password</key>
                <string>mypassword</string>
                <key>ServerHostName</key>
                <string>192.168.1.20</string>
            </dict>

            <dict>
                <key>FileServerType</key>
                <string>FileServerTypeGCP</string>
            </dict>
        </array>
    </dict>
</dict>
</plist>
```

Web Browser Keys

Key Name	Description
WebBrowser	Configuration container for web browser settings dict: Optional
allowWebBrowser WebBrowser	Allow access to the web browser boolean: Optional default: true
allowWebBrowserOpenExternal WebBrowser	Allow URLs to opened outside of the app, eg Safari boolean: Optional default: true
allowDeniedDomainOpenExternal WebBrowser	If a URL is denied by the domain rules then it can be opened externally instead. boolean: Optional default: true
allowWebBrowserDownload WebBrowser	Allow the user to download web page content as files. boolean: Optional default: true
allowDomains WebBrowser	A list of domains that will be allowed. All other domains will be blocked. Wildcards[1] are allowed. "denyDomains" must be empty when "allowDomains" is used. array of strings: Optional
denyDomains WebBrowser	A list of domains that will be blocked. All other domains will be allowed. Wildcards[1] are allowed. "allowDomains" must be empty when "denyDomains" is used. array of string: Optional
WebBookmarks WebBrowser	A list of bookmarks that will be added to the bookmarks list. If the bookmark's URL is not in the bookmark list, it will be added. array of dict: Optional
URL WebBrowser/WebBookmarks	The URL of the bookmark to add. string: Required
Name WebBrowser/WebBookmarks	The name of the bookmark. The URL will be used as the name if the name is empty. string: Optional

[1] Wildcards are values starting and/or ending with "*". eg.
 "*eurosmartz.com" would match all domains ending with "eurosmartz.com".
"*eurosmartz*" would match all domains containing "eurosmartz".

Example:

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE plist PUBLIC "-//Apple//DTD PLIST 1.0//EN"
"http://www.apple.com/DTDs/PropertyList-1.0.dtd">
<plist version="1.0">
<dict>
    <key>ConfigurationVersion</key>
    <integer>1</integer>

    <key>WebBrowser</key>
    <dict>
        <key>allowWebBrowser</key>
        <true/>
        <key>allowWebBrowserOpenExternal</key>
        <false/>

        <key>allowDomains</key>
        <array>
            <string>*eurosmartz.com</string>
            <string>*apple.com</string>
        </array>

        <key>WebBookmarks</key>
        <array>
            <dict>
                <key>URL</key>
                <string>https://eurosmartz.com</string>
                <key>Name</key>
                <string>EuroSmartz</string>
            </dict>

            <dict>
                <key>URL</key>
                <string>https://apple.com</string>
                <key>Name</key>
                <string>Apple</string>
            </dict>
        </array>
    </dict>
</dict>
</plist>
```

Email Keys

Key Name	Description
Email	Configuration container for email settings dict: Optional
allowEmail Email	Allow access to any email functionality boolean: Optional default: true
allowEmailSend Email	Allow email to be sent boolean: Optional default: true
allowEmailAccountAdd Email	Allow a user to add additional email accounts of their own. boolean: Optional default: true
allowEmailAccountEdit Email	Allow a user to edit additional attributes of an account, such as colour. This will not allow them to edit server configuration settings. boolean: Optional default: true
EmailAccounts Email	An array of dictionary objects representing multiple email account configurations. array: Optional
allowEmailAccountAdvancedEdit Email/EmailAccounts	Allow the user to edit the "Advanced" section in the edit email account screen. boolean: Optional default: true
EmailAccountName Email/EmailAccounts	The name of the email account displayed to the user. string: Optional
EmailAddress Email/EmailAccounts	The email address of the user's account. string: Required

EmailAccountType
Email/EmailAccounts
	The type of the email account. EmailTypeEWS is Exchange EWS.
	string: Required
	values:
	`    EmailTypeIMAP`
	`    EmailTypePOP`
	`    EmailTypeEWS`
	`    EmailTypeGmail`

IncomingMailServerHostName Email/EmailAccounts	The host name of the incoming email server. This is the "Server" field, or the "Login URL" field in the app for Exchange accounts. string: Required (Except Gmail, Exchange)

IncomingMailServerPortNumber Email/EmailAccounts	The network port for the incoming email server integer: Required (Except Gmail, Exchange)
IncomingMailServerUseSSL Email/EmailAccounts	Use SSL for the incoming email server connection. boolean: Optional default: false
IncomingMailServerUsername Email/EmailAccounts	The domain username for Exchange accounts. string: Optional
IncomingPassword Email/EmailAccounts	The password for the incoming mail server connection if required. string: Optional
OutgoingMailServerHostName Email/EmailAccounts	The host name of the outgoing email server. string: Required (Except for Gmail, Exchange)
OutgoingMailServerPortNumber Email/EmailAccounts	The network port for the outgoing email server. integer: Required (Except for Gmail, Exchange)
OutgoingMailServerUseSSL Email/EmailAccounts	Use SSL for the outgoing email server connection. boolean: Optional default: false
OutgoingMailServerUsername Email/EmailAccounts	The username for the outgoing mail server connection if authentication is required. string: Optional
OutgoingPassword Email/EmailAccounts	The password for the outgoing mail server connection if authentication is required. string: Optional
SyncIncoming Email/EmailAccounts	Turn on the "Sync incoming mail" option in the Advanced settings panel. Changes to the inbox emails by other devices are reflected in the app. boolean: Optional default: true
SyncOutgoing Email/EmailAccounts	Turns on the "Sync sent mail" option in the Advanced settings panel. boolean: Optional default: true
SyncDrafts Email/EmailAccounts	Email drafts are saved to the email server after editing. boolean: Optional (N/A for POP) default: true
SyncReadStatus Email/EmailAccounts	Syncs the Read/Unread status of emails with the email server. boolean: Optional (N/A for POP)

	default: true
SyncFlagsStatus Email/EmailAccounts	Syncs email flags for emails with the email server. boolean: Optional (N/A for POP) default: true
SaveSent Email/EmailAccounts	Save sent emails back to the email server. This is usually required for email servers that do not save sent emails automatically. boolean: Optional (N/A for POP) default: true
FolderPathTrash Email/EmailAccounts	Manually define the path to the trash folder for holding deleted emails. string: Optional (N/A for POP) default: detected by app
FolderPathSent Email/EmailAccounts	Manually define the path to the folder holding sent emails. string: Optional (N/A for POP) default: detected by app
FolderPathDrafts Email/EmailAccounts	Manually define the path to the folder holding synced draft emails. string: Optional (N/A for POP) default: detected by app
FolderPathSpam Email/EmailAccounts	Manually define the path to the folder holding spam emails. Only applies to AltaMail. string: Optional (N/A for POP) default: detected by app
DeleteAfter Email/EmailAccounts	Sets the time when emails are deleted from the server after deleting inside the app. This applies to POP accounts and also accounts with "SyncIncoming" turned off. string: Optional values: "Never", "1 week", "Instant"
SignatureHTML Email/EmailAccounts	An HTML formatted signature that is used for this account. The signature can be selected for use by other non MDM accounts but can not be edited by the user. The account can not select a different signature if this field is used. string: Optional
FilterAgeDays Email/EmailAccounts	The age filter for incoming emails. Emails older than this age will not be loaded. This does not apply to POP accounts. integer: Optional
FilterMaxCount Email/EmailAccounts	The maximum number of emails to be read from the server. Only applies to POP accounts. integer: Optional

When defining email folder paths. Include the "Inbox" prefix if folders are contained in the Inbox eg. Inbox/Sent Messages

Gmail email account types do not require the server connection details.

Examples:

Simple gmail account configuration

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE plist PUBLIC "-//Apple//DTD PLIST 1.0//EN"
"http://www.apple.com/DTDs/PropertyList-1.0.dtd">
<plist version="1.0">
<dict>
    <key>ConfigurationVersion</key>
    <integer>1</integer>

    <key>Email</key>
    <dict>
        <key>EmailAccounts</key>
        <array>
            <dict>
                <key>EmailAccountName</key>
                <string>Gmail</string>

                <key>EmailAccountType</key>
                <string>EmailTypeGmail</string>

                <key>EmailAddress</key>
                <string>some.user@gmail.com</string>
            </dict>
        </array>
    </dict>
</dict>
</plist>
```

A more complex configuration with multiple accounts

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE plist PUBLIC "-//Apple//DTD PLIST 1.0//EN"
"http://www.apple.com/DTDs/PropertyList-1.0.dtd">
<plist version="1.0">
<dict>
    <key>ConfigurationVersion</key>
    <integer>1</integer>

    <key>Variables</key>
    <dict>
        <key>USER</key>
        <string>testuser</string>
        <key>DOMAIN</key>
        <string>example.com</string>
        <key>USERNAME</key>
        <string>$USER$@$DOMAIN$</string>
        <key>PASSWORD</key>
        <string>mypassword</string>
        <key>FULLNAME</key>
        <string>Johnny Appleseed</string>
    </dict>

    <key>allowAppBackup</key>
    <false/>
    <key>allowSyncDevices</key>
    <true/>

    <key>Email</key>
    <dict>
        <key>allowEmailAccountAdd</key>
        <false/>
        <key>allowEmailAccountEdit</key>
        <true/>

        <key>EmailAccounts</key>
        <array>
            <dict>
                <key>EmailAccountName</key>
                <string>Gmail</string>

                <key>EmailAccountType</key>
                <string>EmailTypeGmail</string>
                <key>EmailAddress</key>
                <string>some.user@gmail.com</string>
            </dict>

            <dict>
                <key>allowAdvancedEdit</key>
                <false/>

                <key>EmailAccountName</key>
                <string>Test IMAP</string>
```

```
<key>EmailAccountType</key>
<string>EmailTypeIMAP</string>
<key>IncomingMailServerHostName</key>
<string>mail.$DOMAIN$</string>
<key>IncomingMailServerPortNumber</key>
<integer>993</integer>
<key>IncomingMailServerUseSSL</key>
<true/>
<key>EmailAddress</key>
<string>$USER$@$DOMAIN$</string>

<key>OutgoingMailServerHostName</key>
<string>mail.$DOMAIN$</string>
<key>OutgoingMailServerPortNumber</key>
<integer>465</integer>
<key>OutgoingMailServerUseSSL</key>
<true/>
<key>OutgoingMailServerUsername</key>
<string>$USER$@$DOMAIN$</string>
<key>OutgoingPassword</key>
<string>$PASSWORD$</string>
<key>OutgoingPersonName</key>
<string>Freddy</string>

<key>SignatureHTML</key>

    <string>&lt;html&gt;&lt;body&gt;&lt;p&gt;Regards,&lt;br&gt;
$FULLNAME$&lt;p&gt;EuroSmartz Ltd.&lt;br&gt;&lt;a
href=&quot;http://eurosmartz.com&quot;&gt;http://eurosmartz.com&lt
;/a&gt;&lt;/body&gt;&lt;/html&gt;</string>

<key>FolderPathSent</key>
<string>Inbox/Sent Messages</string>
<key>FilterAgeDays</key>
<integer>17</integer>
</dict>

<dict>
<key>EmailAccountName</key>
<string>Test POP</string>

<key>EmailAccountType</key>
<string>EmailTypePOP</string>
<key>IncomingMailServerHostName</key>
<string>$DOMAIN$</string>
<key>IncomingMailServerPortNumber</key>
<integer>995</integer>
<key>IncomingMailServerUseSSL</key>
<true/>
<key>EmailAddress</key>
<string>$USERNAME$</string>
<key>IncomingPassword</key>
<string>$PASSWORD$</string>

<key>OutgoingPassword</key>
<string>$PASSWORD$</string>
<key>OutgoingMailServerHostName</key>
<string>mail.$DOMAIN$</string>
```

```
                <key>OutgoingMailServerPortNumber</key>
                <integer>465</integer>
                <key>OutgoingMailServerUseSSL</key>
                <true/>
                <key>OutgoingMailServerUsername</key>
                <string>someuser</string>
            </dict>

        </array>
    </dict>
</dict>
</plist>
```