

Customising VistaKiosk V3

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Installation

Prerequisites

The Kiosk must have MDAC 2.7 or greater, VISTA MSOFT COMPONENTS, and VISTA 3RD Party components installed.

The packages for all these files will exist on the server, under the following directory.
//<server name>/VISTAINSTALL/APPLIB/SETUP/CLIENT.

Files are named :

- Mdac_typ.exe
- Vista3rdPartyControls.msi
- VistaMSOFTComponets.msi

This machine will need the .NET Framework. The most up to date framework can be gathered from the Microsoft site.

You will also need to make sure you apply SP3 Hotfix 1. This provides the payments module file you will need called visTendRetail.dll.



NOTE ** If using an OPOS Printer you will need NCRPOSPrinter11.ocx. Latest file version at time of release is 1.6.2.0 and is included in the package. It is named "NCROPOSPrinter11.zip" and can be found in "C:\Vista\VistaKiosk\Config\OPOS Drivers". Please extract to the SYSTEM32 folder on the Kiosk. (NOT the server).

Installing a new base version over an existing version

If you are installing a new base version, you MUST erase the following folders.
You may want to back up your config files from C:\Vista\VistaKiosk\Config.

- C:\Vista\VistaKiosk (from the client)
- D:\VISTAINSTALL\APPLIB\VISTAKIOSK (from the server)



Tender Retail Prerequisites

Make sure Multi is running.

Edit MSRTendRetail.ini in the C:\Vista\VistaKiosk directory to match the TERMINALID, Server Port, and IP address of the Kiosk.

You will also need to check your settings are correct in tblPaymentModuleConfig for this kiosk.

Sales Server

Sales Server needs to be installed on the Kiosk. To do this, run the Sales Server setup package on the file server. Then follow the standard Sales Server installation procedure, but also copy the SalesSrvr folder under VISTAINSTALL\APPLIB\SALESERVER\SALESSRVR onto the kiosk into the following location : C:\VISTA\SALESSRVR. Double click on the VistaSalesSrvr.exe inside this folder.

PrintTemplates for your printer will need to be setup and placed inside the SALESSRVR\PRINTTEMPLATES\<printer name>\ folder, wherever Sales Server is running. For example, if Sales Server was running on the cinema server, and we had an NCR printer using OPOS, we would place our ticket template (ticket.txt) in the following folder on the file server : D:\VISTA\SALESSRVR\PRINTTEMPLATES\NCRK580\ticket.txt

Payments Module Structure Setup

On your server move the file visTendRetail.dll from the folder D:\VISTAINSTALL\APPLIB_INSTALL_CUSTOMISATION\3.00.03\PAYMENT CONNECTORS\TenderRetail\visTendRetail.dll to the folder D:\VISTAINSTALL\PAYMENTS\3.00\PAYMENTSMODULE.

This file must be version 30.4.0.0 or greater.

Setup Server

Make sure to run the SetupServer package on the file server. Instructions are included in the documentation "Installing Vista Version 3".

Setup Client

Make sure to run the SetupClient program on the Kiosk. Instructions are included in the documentation "Installing Vista Version 3".



Vista Kiosk Setup Shortcut

Install and run the Vista Kiosk Setup shortcut. This will download all the necessary files to startup the configuration utility.

For information on how to run the Kiosk Setup Wizard please follow on to the next page. A step by step guide is given.

Vista Kiosk Shortcut

Run the Vista Kiosk shortcut. This will download all the necessary files for your Vista Kiosk.

If you are presented with a Green startup screen that stops on error you will need to remedy the problem.

You can push 'ESC' to exit the screen and edit your config files. (Don't forget to customise the visual appearance as stated below in 'Customising Visual Appearance' Section).



Kiosk Setup Wizard Step By Step

Vista Kiosk Setup – Welcome

Production Kiosk ?

Choose Yes if you are setting this Kiosk up to run in a live environment with Sales Server and live Hardware. Choose NO if this machine is for demonstration purposes only

Install the provided attraction film?

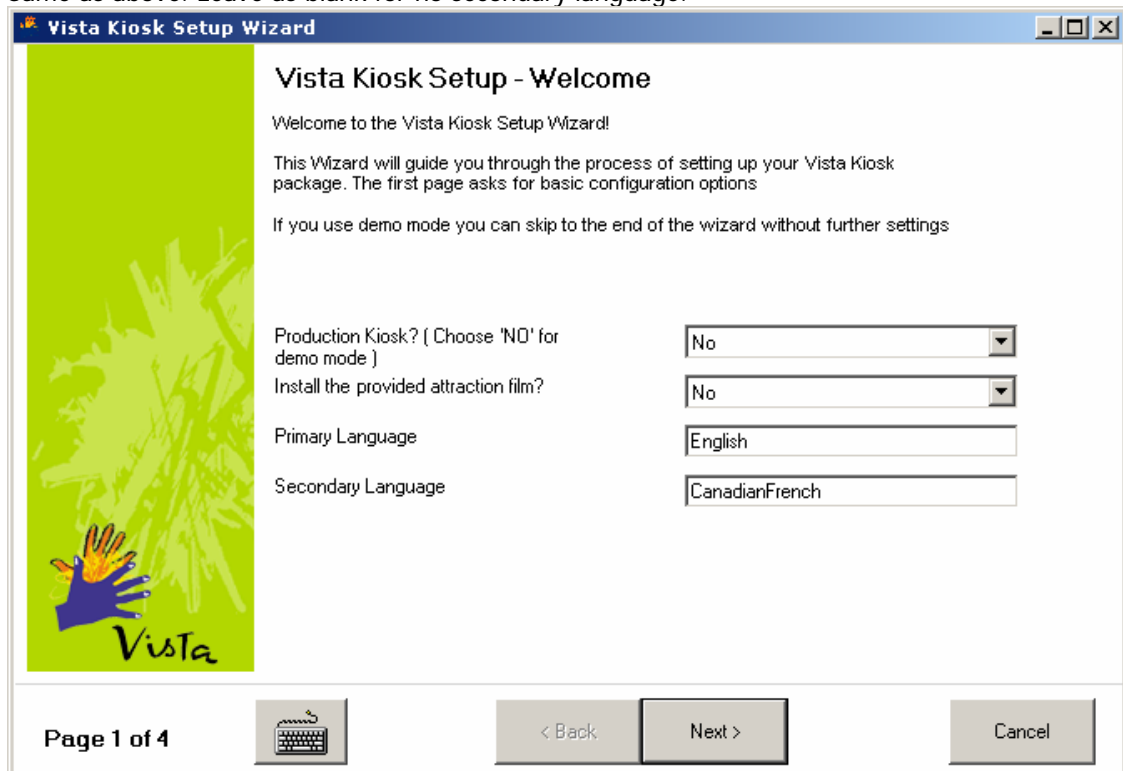
Choose Yes to copy over the default attraction film that will play when your kiosk is idle. If you wish to setup your own attraction film choose NO and copy the .mpg file into VISTA\VISTAKIOSK\CONFIG\VIDEO

Primary Language

Enter the primary language. Note ** this is free-form text because you can customise the language and call it whatever you like. See Kiosk.ini – language section of this document.

Seconday Language

Same as above. Leave as blank for no secondary language.



Vista Kiosk Setup - Welcome

Welcome to the Vista Kiosk Setup Wizard!

This Wizard will guide you through the process of setting up your Vista Kiosk package. The first page asks for basic configuration options


If you use demo mode you can skip to the end of the wizard without further settings

Production Kiosk? (Choose 'NO' for demo mode)

Install the provided attraction film?

Primary Language

Secondary Language

Page 1 of 4  < Back Next > Cancel



Vista Kiosk Setup – Network

Enter your server name

The server at which you are using sales server. (The server you call sales server on, can be the local machine).

Enter your display name

The display name of your kiosk when it is starting up

Enter your client ID

The client ID to register sales server with. Must be unique on this network, and of the IP address format. Recommend using this machines network IP address.

Enter your workstation ID

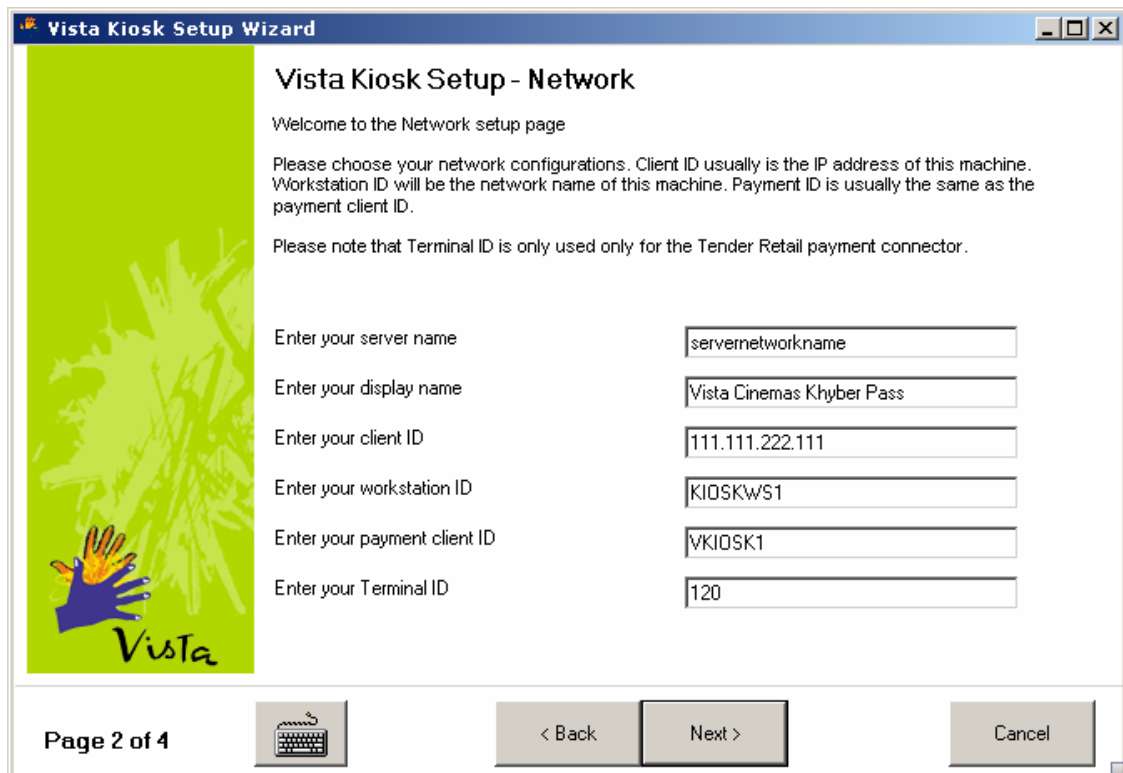
The machine name of this kiosk. EG: VISTAKIOSK01.

Enter your payment client ID

The payment client ID used to process payments. Usually the same as your workstation ID. This is used when gathering payment module information from tblPaymentModuleConfig, and which payment connector to use. Please check this table for your payment client ID.

Enter your terminal ID

Only used for Tender Retail Payment Connector. Leave blank otherwise.



Vista Kiosk Setup Wizard

Vista Kiosk Setup - Network

Welcome to the Network setup page

Please choose your network configurations. Client ID usually is the IP address of this machine. Workstation ID will be the network name of this machine. Payment ID is usually the same as the payment client ID.

Please note that Terminal ID is only used only for the Tender Retail payment connector.

Enter your server name	<input type="text" value="servernetworkname"/>
Enter your display name	<input type="text" value="Vista Cinemas Khyber Pass"/>
Enter your client ID	<input type="text" value="111.111.222.111"/>
Enter your workstation ID	<input type="text" value="KIOSKWS1"/>
Enter your payment client ID	<input type="text" value="VKIOSK1"/>
Enter your Terminal ID	<input type="text" value="120"/>

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< Back Next > Cancel



Vista Kiosk Setup – Hardware

Select your printer

Choose your printer model. Or choose "Test Printer" to use a dummy printer and print to a file.

Select your printer port

Choose the COM port for your printer. Note ** has no effect on NCR/OPOS printers.

Enter printer timeout (in seconds)

Enter the printer timeout. Generally set to zero.

Select your card reader

Enter your card reader. Choose "Test Reader" to use a dummy reader. In this case, there is an visCardReaderTest.ini in the VISTA\VISTAKIOSK\ directory. Here you can specify the Track1 and Track2 data for your dummy card. An example is given, but commented out. It will not work unless you change this file.

Select your card reader port

Enter the COM port of your card reader. Has no effect for Tender Retail connector.

Enter Card Reader timeout (in seconds)

Select the card reader timeout. Generally set to zero, but must be higher for some card readers (I.E Tender Retail should be set to around 30, above the configured timeout in Multi.exe).

Note ** for any insert reader you must choose a value for timeout. We recommend 30 seconds.

Vista Kiosk Setup Wizard

Vista Kiosk Setup - Hardware

Welcome to the Hardware Setup Page

Please select the Hardware you will be using with this Kiosk

Select your printer: KTX - Practical Automation

Select your printer port: COM4

Enter printer timeout (in seconds): 11

Select your card reader: OPOS/NCR Swipe

Select your card reader port: COM1

Enter card reader timeout (in seconds): 99

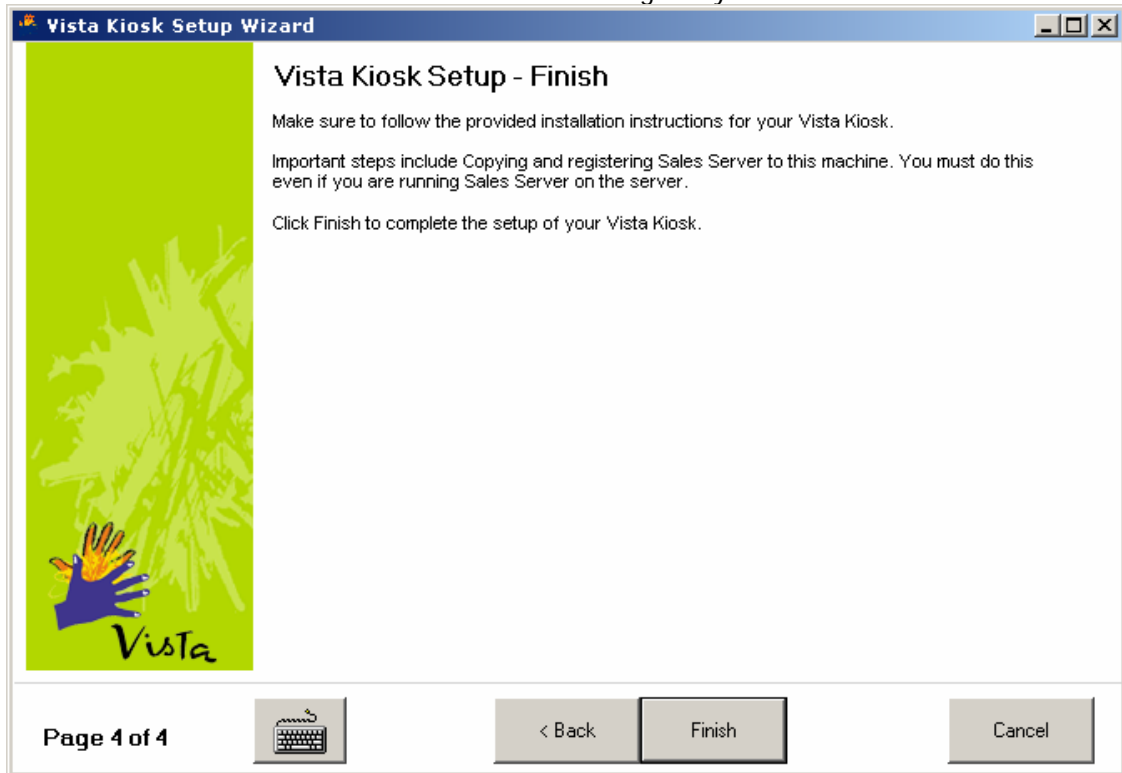
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< Back Next > Cancel



Vista Kiosk Setup – Finish

Click Finish to save all your settings. Please make sure to follow the rest of the installation documentation as the Wizard does not set all the settings for you.



Kiosk.ini (holds UI configuration details)

General note about customizing Kiosk.ini.

Settings where a folder or file name is entered:

- Vista will overwrite the released folders and files on subsequent upgrades... the intention is that the kiosk can run with reasonable configurations "out of the box".
- If the release configurations are not suitable and you wish to customize images etc you should create a new folder (as a copy of the Vista folder) with a new name and specify that the system should use that folder
- Language text has an override system where you don't have to make a new folder – rather you need to make a new file

[GENERAL]

[Mode]

Production=N

Change to 'Y' if you wish to run in the live environment, using SalesServer to get the real VISTA database and use attached hardware. Leave this as 'N' if you want to run the VistaKiosk in "demo" mode (with a dummy database and no hardware).

MODE BUYTICKETS=Y

Whether this Kiosk will allow purchase of tickets mode.

MODE PICKUP=Y

Whether this Kiosk can be used for the picking up of bookings.

MODE BUYCONCESSIONSONLY=Y

Whether this Kiosk allows a 'Concession only' Purchase mode.

MODE CONCESSIONSWITHTICKETS=Y

Whether or not this Kiosk asks if you wish to buy Concessions in the normal ticket flow.

MODE CONCESSIONSWITHPICKUP=Y

Whether this Kiosk allows purchase of concessions during Ticket pickup

MODE LOYALTY=N

If you have a loyalty system, this setting allows you to specify the loyalty card system you have is VSSClientLoaylty.xml.

MODE DISPLAYSEATINGAPPLET=N

Whether the Kiosk will show a seating applet if seat selection is enabled for a session.

MODE CVVINPUT=N

Whether CVV numbers are required to process payments through your payment provider.

MODE MULTICINEMA=N

If Multi Cinema Kiosk is installed, this allows you to choose which cinema to work with.

MODE FORCECINEMACHOICE=N

If MultiCinema Kiosk is installed, this setting always asks for a cinema choice as part of the process flow. It is envisioned this setting will be used in mall type environments.

MODE LOYALTYSWIPEONPICKUP=N

If LOYALTY= Y when they pickup, bookings will also be checked against their loyalty card.



[Language]

Note: Language1 applies to the left hand button on the language select screen, language2 settings apply to the right-hand button

Language1=English(NZ)

Specify the folder (located below the .\language folder) where TEXT and AUDIO are obtained from. Example, for English settings you would choose English

Language1 UseDBLang=1

Set to use the primary language in the database (usually English/Western European). If you wish to use the alternate data language (usually Unicode) for films, tickets etc, change this setting to 2.

Language1_ConcTextFile=ConcText1.ini

Set to what file you wish to use for Concession Settings. For example, if set to ConcText1.ini Kiosk will look in C:\Vista\VistaKiosk\Config\Images\System\ConcText1.ini. It will overwrite this file with user defined settings from the folder

C:\Vista\VistaKiosk\Config\Images\User\ConcText1.ini

Language1_RatingTextFile=RatingText1.ini

Specify what Rating File to use. The intention is that these files contain the official censor rating text for different countries. If you want to extend these phrases you should not edit the RatingText1.ini file but instead create a new file and alter this configuration to use the new file.

Language2=Custom1

Language2 UseDBLang=2

Language2_ConcTextFile=ConcText2.ini

Language2_RatingTextFile=RatingText2.ini

The above settings are all similar to what is described for Language 1. If the Language2 setting is not blank then the "language selection screen" will be shown in the kiosk.

[CensorRatings]

RatingsFolder=Sample

Specify the folder below config\ratings which should be used for censor rating images and text. A selection of folders exists for different countries – enter the appropriate folder name. If the images and/or texts are incorrect a new folder can be created and the corrections made there. Do not change images and text in the existing folders as they will be overwritten on the next upgrade.

[Images]

ImagesFolder=Vista

Specify the folder below config\images which should be used for customizable images. Do not change images in the Vista folder as they will be overwritten on the next upgrade (the Vista folder holds the standard Vista image set). If changes are required make a new folder (starting from a copy of the Vista folder) and change this setting to refer to the new folder.

Note: The Customer logo image should be named "CustomerLogo.bmp/gif/png" and placed in the folder called .config\images\Logo.

[DataFormats]

SessionDateFormat=dd



SessionTimeFormat=h:mm tt

Please leave these as they are. They control the formatting of dates and times presented to the user. If you require a different setup, please contact Vista.

CurrencySymbol=\$

Which currency unit to prefix prices when showing the user.

CurrencyFormat=###0.00

The format to display currency in. Above is the default, 2d.p.

[Payment]

Specify details for the various payment method(s) the system can use – from type of card, to images to display to the user. If more than one payment method is enabled the different methods are presented to the user at payment time for them to choose. If just one method is enabled, the user won't be given a choice and the system will automatically use the single enabled method. (In this latter case, the single active payment method should be described in the Pay1_ settings and Pay2_Enabled should be set to N).

Several paymethod examples have been included – just disable the ones that are not relevant. Possible payment methods include: Credit card, debit card, Octopus, SVS stored value card.

There are also 2 settings relating to the MSR (Magnetic Stripe reader) system that affect all paymethods.

General settings relating to payment

MSR_RetryPrompt=Y

If the credit card swipe produced a read error or could not be read within a "reasonable" time, this determines whether the system should prompt the customer to try again. If set to Y, if one of the above conditions occurs, the system will display a message explaining the problem, and give the customer the choice to try the swipe again or to cancel the purchase. If set to N, the system will cancel the order and return to the start screen if one of the above conditions occurs. Experiment to see what feels right, but typically you would set this to Y if a pinpad system is operating where Vista cannot control the card reader directly (eg debit card system), and set it to N if Vista controls the card reader hardware directly (eg Serial port card readers such as Magtek)

MSR_TypePinpad=Y

If cards are swiped via a PINPAD (ie debit card system in use), set this to Y. If you are using a simple swipe reader for credit card only, which can be controlled directly by Vista, change this to N. This primarily affects what happens when a customer presses the "cancel" button on the kiosk when the system is asking the user to swipe their card. If the setting is N the kiosk will return to the start screen immediately. If the setting is Y the kiosk will put a message to the customer to explain that the kiosk is unable to cancel the card read - they have to use the cancel button on the pinpad to cancel the card read process.

Paymethod 1

Pay1_Enabled=Y



Present this paymethod option to the customer

Pay1_ListSeq=1

The sequence at which this payment method appears on the scroll list. 1 is top.

Pay1_TextCode=PAY_DEBIT

The code to lookup in the language file to get the text of what is displayed to the user for this payment method (required for multi-lingual operation).

Pay1_Image_Filename=PayImage_DEBIT

The filename (in the Images area, see earlier setting) of the image to display to the right of the payment method text. (The filename extension should not be included here – the system works it out automatically)

Pay1_MSRIgnore_PMControlNo=

Used only for payment systems which do NOT use magnetic stripe card technology (eg Octopus hover/smart cards). Must leave this blank if this payment method uses magnetic stripe cards. Set to a special number to allow the system to bypass the MSR read process and go straight to payment via some other payment card technology. (That number is interpreted within Vista payment module as a virtual card type, which ultimately determine the payment gateway system to use for non-MSR cards)

Pay1_PaymentModuleTenderCategory=DEBIT

Required particularly for pinpad debit/credit card systems where the ONE card can be used by the customer in either debit or credit mode. This setting tells the bank system the mode the customer wants to use for this payment. If blank, Vista assumes CREDIT.

Pay1_Anim_Swipe_Filename=Anim_Swipe_Pinpad

The name of the animated image file that the kiosk should display to the customer prior to and during MSR card swipe (prior to entering payment processing). The intention is that the animation should look appropriate for the kind of card reader hardware that the kiosk uses. The animations are intended to indicate to the customer whether to swipe vertically, insert the card, or use a pinpad reader. In an Octopus scenario there is no card swipe required so this should be left blank.

Pay1_Anim_PaymentModule_Filename=Anim_Swipe_Pinpad

The name of the animated image file that the kiosk should display to the customer during payment processing (after the cardread stage has been completed). For a credit card typically one would choose the "10-9-8..." countdown animation. For a debit card scenario one would choose the picture of the pinpad as a reminder to the user that they need to enter more details or that they can cancel at the pinpad (as in this example). For an Octopus card scenario one would choose to display the octopus swipe animation as the swipe process itself happens as part of payment module processing.

Other paymethod details follow the same pattern



Examples:

```
; PayMethod1          ' debit
Pay1_Enabled=Y
Pay1_ListSeq=1
Pay1_TextCode=PAY_DEBIT
Pay1_Image_Filename=PayImage_DEBIT
Pay1_MSRIgnore_PMControlNo=
Pay1_PaymentModuleTenderCategory=DEBIT
Pay1_Anim_Swipe_Filename=Anim_Swipe_Pinpad
Pay1_Anim_PaymentModule_Filename=Anim_Swipe_Pinpad
Pay1_MsgCode=8003

; PayMethod2          ' credit
Pay2_Enabled=Y
Pay2_ListSeq=2
Pay2_TextCode=PAY_CREDIT
Pay2_Image_Filename=PayImage_CREDIT
Pay2_MSRIgnore_PMControlNo=
Pay2_PaymentModuleTenderCategory=CREDIT
Pay2_Anim_Swipe_Filename=Anim_Swipe_Vertical
Pay2_Anim_PaymentModule_Filename=Anim_PaymentCountdown
Pay2_MsgCode=

; PayMethod3          ' Octopus
Pay3_Enabled=Y
Pay3_ListSeq=3
Pay3_TextCode=PAY_OCTO
Pay3_Image_Filename=PayImage_OCTO
Pay3_MSRIgnore_PMControlNo=1111222233334444
Pay3_PaymentModuleTenderCategory=OCTOPUS
Pay3_Anim_Swipe_Filename=
Pay3_Anim_PaymentModule_Filename=Anim_Swipe_Octopus
Pay3_MsgCode=

; PayMethod4          ' SVS
Pay4_Enabled=Y
Pay4_ListSeq=4
Pay4_TextCode=PAY_SVS
Pay4_Image_Filename=
Pay4_MSRIgnore_PMControlNo=
Pay4_PaymentModuleTenderCategory=SVS
Pay4_Anim_Swipe_Filename=Anim_Swipe_Insert
Pay4_Anim_PaymentModule_Filename=Anim_PaymentCountdown
Pay4_MsgCode=
```



[Timing]

Timeout_NoUserActivity=30

Specifies a timeout time in seconds. If no user activity is detected within this time interval the kiosk goes back to the start screen or enters the attract loop.

Timeout_PrinterStatusCheckOnError=30 . Time in seconds of how often the kiosk does a printer status check to determine if the printer error is finished.

[Limits]

sold_out_seats=5

If the number of seats remaining to a session is below this number the kiosk will say "sold out" alongside the session, and the session cannot be selected.

filling_fast_seats=20

If the number of seats remaining to a session is below this number the kiosk will say "sold out" alongside the session. The session can still be selected and tickets purchased.

max_tickets=10

Maximum number of tickets that can be purchased in one transaction on this kiosk

minutes_showmovie_afterstart=30

Number of minutes after a session starts that it will be available for purchase. EXAMPLE : current setting would allow the kiosk to sell tickets to sessions that have already started, but less than half an hour ago.

[Seat Allocation]

SingleSeatGap_BetweenChosenSeats=N

If the seating application is enabled, then this specifies whether or not someone can put a gap between seats they chose.

SingleSeatGap_BetweenChosenAndSoldSeats=N

If seating applet is enabled, can someone put a 1 seat gap between themselves and a sold seat.

[Pickup]

AllowSelectionIfMultipleBookings=Y

If there are multiple bookings in the system, do we wish to allow selection of one or do we wish to direct them to POS?

[UnpaidPickup]

AutoPayUnpaidBookings=Y

When picking up unpaid bookings, do we always want to use the card they booked against as a default payment?

[Appearance]

Technical – recommended not to change any of these values

SkinType = 1

The only option currently available is 1

SkinSubtype = Vista



subfolder to use below the chosen skintype. It contains mainly images. Allows the possibility to change some of the “look” of the kiosk program. Do not alter any files in the Vista folder – they are overwritten on each upgrade, instead modify the User folder.

Display_TaxBreakdown=Y

Do we wish to show subtotal and breakdown information to the user?

Display_PricesExclTax_Tickets=N

Do we wish to show tickets in the display list Tax Exclusive?

Display_PricesExclTax_Conc=Y

Do we wish to show concessions in the display list Tax Exclusive?

Button_QtyPlus_ShowOnRight=Y

For screens that display quantity buttons, for example the Tickets screen and the Concessions screen, do we wish to display the Plus button on the right and the Minus button on the left? If so put “Y” for this setting. Otherwise put “N” to display the Minus button on the right and the Plus button on the left.

[AttractLoop]

The Attract loop video/still image trailer runs over top of the kiosk UI when the kiosk is inactive. It can play MPEG videos or display still images and gifs. It requires Microsoft Media Player v9+ if it is required to play MPEG.

The AttractLoop plays files it finds in the .\Video folder

AttractLoopExeName=TrailerShow.exe ImageDelay=30 Lang1Text=%TSLANG1TEXT

Lang2Text=%TSLANG2TEXT ;Standard track exe name with a 30 sec image rotation.

Name of program to call to show the attract loop. Do not change the name TrailerShow.exe.

You may change:

ImageDelay – if the video folder contains just still images, this is the length of time in seconds to display each image before moving on to the next image in the folder

AttractLoopExeProcessName=TrailerShow

Technical – do not change

AttractLoopExeShow=Y

Whether the Attract Loop is operational.

AttractLoopExeShutdown=30

Minutes that the AttractLoop video should run for before exiting (and re-exposing the kiosk display)

[Security]

PinNumber=xxxx

If the kiosk is at the “out of order” screen, it can be restarted from that screen by pressing on the screen in some hidden locations to bring up a pinpad, and then entering a pin number to activate the “restart” and “reboot” buttons. This specifies the pin number to use. (If an engineer needs to get to the windows desktop, and they have access to a keyboard, they can press the ESC key at the “out of order” screen to exit the program)



Configuration of VSS Client.

The 4 files that we need to modify are as follows: (Located in the Config Directory of Kiosk)

RemoteServerConfig.xml
VSSClientHardwareConfig.xml
VSSClientConfig.xml
VSSClientIdentity.xml

Please note that when you first run the KIOSK, these files will be pulled down with Sample_ in front of the filename, they must be renamed to match the filenames above.

To edit one of these files, open it with notepad, note that only the values between the double quotes should be edited. For example, if I wanted to change the Value of the ServerName in RemoteServerConfig.xml I would go to the following line.

displayname =" Vista Cinemas Khyber Pass"

If I want the Kiosk to display "Vista Cinemas Dondonald Street" I write:

displayname = "Vista Cinemas Dondonald Street"



RemoteServerConfig.xml

This is for the purpose of specifying which server we are communicating with.

Defaults:

id="localhostserver "
displayname="Vista Cinemas Khyber Pass"
networkname="servernetworkname"
usewebservice="N"
dboverridename=""
default="Y"
webdatacacheid="10002"
enabled="Y"

Setting	Description
ID	The servername calling apps will use to identify the remote server. For single cinema operations, leave as localhostserver.
displayname	The server name you want to show while starting the KIOSK.
networkName	The DNS resolution name for the server.
usewebservice	Whether or not we wish to use a webservice as a transport medium. If set to N we will create Sales server using DCOM.
dboverridename	Generally unused (empty string)
default	If Multi Cinema Kiosk mode, this specifies the 'local' cinema. If there is no 'local' cinema, then no default is specified.
webdatacacheid	This value maps the server to the VISTAIT database tblCinema.Cinema_strID field for the server
enabled	This allows you to turn off the ability to choose a cinema



VSSClientConfig.xml

This is a file that lays out the general settings used in setting up the Kiosk.

Defaults:

```
refreshdataminutes="30"
refreshchangesonly="Y"
selectsessiondays="7"
userremotepayment="Y"
defaultserverid="MyServer"
usewebdatacache="N"
webdatacacheurl="http://webcacheservernetworkname/WSVistaWeb/UtilityService.asmx"
webdatacachetimeoutsecs="30"
printorderreceipt="N"
printvouchers="N"
```

Setting	Description
refreshdataminutes	Number of minutes at which a refresh of all cached data should occur - default = 30
refreshchangesonly	Only retrieve data during a refresh if the source reference data has changed since last retrieval
selectsessiondays	Number of days into the future cinema sessions should be retrieved for
userremotepayment	Set to "Y" if payment authorisations are to occur via Vista Sales Server (ie on each cinema server)
defaultserverid	Maps to a server id contained in RemoteServerConfig.xml
usewebdatacache	Use the VISTAIT data distribution service (WSVistaWeb) - requires that each server in RemoteServerConfig.xml includes a webcacheid
webdatacacheurl	url for connecting to the WSVistaWeb service
webdatacachetimeoutsecs	timeout (seconds) when requesting data from the VISTAIT web data cache
printorderreceipt	When making a purchase, include a customer receipt or not
printvouchers	When making a purchase/pickup only print a voucher for the tickets/concessions. Used in completely remote mode where we do not want ticket stock outside the cinema.



VSSClientIdentity.xml

This is a file that lays out the workstation identification of an application.

Defaults:

```
clientid="111.111.222.111"  
workstationid="KIOSKWS1"  
clientclass="KIOSK1"  
paymentclientid="VKIOSK1"  
paymentappid="VISTA_KIOSK"  
uniqueworkstationid=""  
bizpartner=""
```

Setting	Description
clientid	As represented in db: VISTA.tblKiosk.ClientId - the id of this kiosk, often a static IP of the device, must conform to IP format
workstationid	Vista workstation ID to be used when registering
clientclass	First 5 chrs must map to a valid Vista Sales Channel, for KIOSK apps use KIOSK*
paymentclientid	As configured in VISTA.tblPaymentModuleConfig.Pay_strClientId
paymentappid	As configured in VISTA.tblPaymentModuleConfig.Pay_strApplicationId
uniqueworkstationid	If a circuit wide unique 10 chr Id exists for this Kiosk enter it here. If supplied this will be used as the actual WorkstationCode in every cinema database the kiosk connects to.
bizpartner	If this kiosk is operating from a business partner, this value is to record all sales transactions at each cinema to that business partners records.



VSSClientHardwareConfig.xml

This file is split up into two sections. The cardreader section specifies to attributes required to read a card by the system. The printer section specifies the attributes required to print a valid ticket & receipt. Please note that the extended section for both the card reader and the printer are dependent on the type you specify.

Cardreader section:

Test Card Reader Example:

```
type="STD"
progid="visCardReaderTest.Reader"
timeoutsecs="0"
<extendedcardreadersettings
    port="COM2"
/>
```

Tender Retail Example:

```
type="FILEX"
progid="MSRXTendRetail "
timeoutsecs="0"
<extendedcardreadersettings
    inittimeout ="30"
/>
```

Std Magtek example:

```
type="STD"
progid=" visMSRSerial.Serial "
timeoutsecs="30"
<extendedcardreadersettings
    port="COM2"
/>
```

OPOS example:

```
type="OPOS"
progid=" visHWReadOPOS.reader "
timeoutsecs="30"
```

OPOSGENERIC example:

```
type="OPOSGENERIC"
progid="visGenericOPOSMSR.reader"
timeoutsecs="30">
<extendedcardreadersettings oposmsrname="PARMagCard"
/>
```

Setting	Description
type	The type of card reader to use. Most of the time we will be using STD, short for Standard. OPOS is also a valid option, but is not used at the time of this documents creation. FILEX is used for the tender retail reader (it uses files to cross process domains).
progid	The name of the card reader to use. Valid values include: visCardReaderTest.Reader: This is a test class used for test machines without a card reader. STD type.



	visMSRSerial.Serial: This is for most standard card readers. STD type. visMSRXTendRetail: This is a FileX interface for tender retail
timeoutsecs	The reader timeout period.

Extended Settings

port	Used with STD type: The com port to use when reading.
inittimeout	Used with FILEX type: Default to 30 secs.

Printer section:

KTX Example:

```
type = "PRINTDIRECT"
templatetype="KTX"
progid=" visHWPrintDirect.Print"
timeoutsecs="10"
requireprinter="Y">
<extendedprintersettings
    port="COM1"
    printersettings="9600,n,8,1"
/>
```

BOCA Example:

```
type = "PRINTDIRECT"
templatetype="BOCA"
progid=" visHWPrintDirect.Print"
timeoutsecs="10"
requireprinter="Y">
<extendedprintersettings
    port="COM1"
    printersettings="9600,n,8,1"
/>
```

OPOS Example:

```
type = "OPOS"
templatetype="OPOS"
progid=" visHWPrintOPOS.Printer"
timeoutsecs="10"
requireprinter="Y">
<extendedprintersettings
    station ="2"
    waitbetweentickets ="2"
/>
```

Setting	Description
type	The type of printer to use. Valid values include: OPOS: This is used for an OPOS printer PRINTDIRECT: This is used for all other printers, including KTX.
templatetype	The name of the template to use. This is the directory on the server that sales



	server gets its print template from.
progid	This is the printer class to use. visHWPrintDirect.Print: The standard program ID for PRINTDIRECT type printers. visHWPrintOPOS.Printer: The standard printer program ID for OPOS type printers. visPrintTest.Print: A special type of PrintDirect, which prints its output to a file rather than a physical device. Useful for test environments with no printer.
timeoutsecs	Timeout to wait for a ticket to be printed
requireprinter	When n, If the printer cannot be initialized, carry on regardless, and use it as a booking only Kiosk.

Extended Settings

station	Used with OPOS type: Station ID specification for
waitbetweentickets	Used with OPOS type: Use 2 in this setting, specifies a pause between each ticket printed to stop overflows.
port	Used with PrintDirect type. Specifies which port a printer is on. Usually COM1 or COM2.
printersettings	Used with PrintDirect type. Specifies the Baud, parity, start bits and stop bits for a serial printer. Normally 9600, n , 8 , 1

VSSClientLoyalty.xml

This is a file that specifies the connection details to your Loyalty system (if applicable).

Defaults:

type="PLM"

progid=" visPLM.LoyaltyRequest"

useexternalswipe="N"

servicesettings="LMC_strConnectorProgId=visLoyalVista.LoyaltyRequest;LMC_strUseLoyalLink=Y; LMC_strConnectorServer=visapphub;LMC_strCinemaID=CIN01;LMC_intLoggingLevel=2;LMC_strServiceSettings1=|ServiceURL=http://aklvis100/Loyalty/VistaLoyalty.aspx|ServiceTimeoutSecs=30 |DemoMode=N|LOGLEVEL=2|"

Setting	Description
type	Currently only "PLM" to be used
progid	Currently only "visPLM.LoyaltyRequest" applicable
useexternalswipe	Y or N... Is swipe of the loyalty card controlled by an external component?
servicesettings	Specifies the connector settings for this workstation. See your own loyalty documentation or contact Vista for information on setting this up.



Customising Visual Appearance

Cinema Logo

The Logo image for your cinema can be placed in C:\Vista\VistaKiosk\Config\Images\Logo. It will then display at the top right corner of your Kiosk. If you want to use a generic Vista logo, or a logo to use as a template, browse to C:\Vista\VistaKiosk\Config\Images\Vista\CustomerLogo(Placeinlogofolder).png.



Ratings (R18, R16 etc)

The ratings bitmaps can be found in c:\Vista\VistaKiosk\Config\Ratings\<country name>\. Place all your ratings bitmaps in here (some may already be here). Customise the RatingText1.ini to include the messages you desire for your ratings. Examples may have already been included for your country.

DEFAULT=

This is the default setting if no rating for the session is set. You may like to set it to a default message. If nothing is specified here, then no warning will be displayed for sessions with no warning set in the database.

Modifying up and down images on ticket and concession screen

A common request for visualization customization in Kiosk is to change the Up and Down arrows in the Ticket/Concession Selection screens to instead be + and – symbols. Vista has included some default images for this purpose. If you navigate within the Kiosk directory to the \Config\Skins\Type1\OtherSamples you will find the following files.

- ScrollItemMinus_Up(PlusSymbol)
- ScrollItemMinus_Down(PlusSymbol)
- ScrollItemMinus_Up(MinusSymbol)
- ScrollItemMinus_Down(MinusSymbol)

Rename these files to:

- ScrollItemMinus_Up
- ScrollItemMinus_Down
- ScrollItemMinus_Up
- ScrollItemMinus_Down

Copy these files into the Kiosk folder:
\Config\Skins\Type1\User

By copying these files into the User folder, we are making sure no further upgrades overwrite our new configuration.

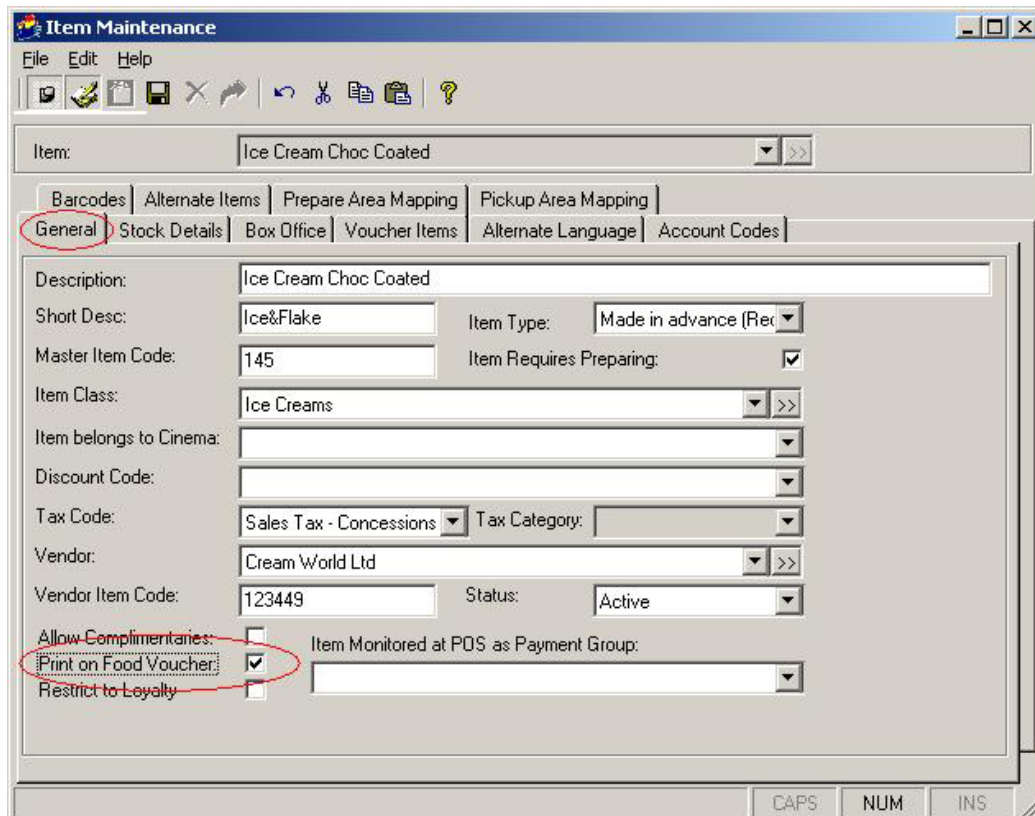


Customising Concession Images

Concession Item setup (Item Maintenance)

First, you will need to setup your item to be available to remote selling devices AND be able to print them on a food voucher. Only after it has these settings will it be available at the kiosk.

Item Maintenance – Print On Food Voucher Screenshot



The screenshot shows the 'Item Maintenance' window with the 'General' tab selected. The 'Item' field is set to 'Ice Cream Choc Coated'. The 'Description' field also contains 'Ice Cream Choc Coated'. The 'Short Desc' is 'Ice&Flake'. The 'Master Item Code' is '145'. The 'Item Class' is 'Ice Creams'. The 'Item Type' is 'Made in advance (Rec)'. The 'Item Requires Preparing' checkbox is checked. The 'Vendor' is 'Cream World Ltd'. The 'Vendor Item Code' is '123449'. The 'Status' is 'Active'. The 'Print on Food Voucher' checkbox is checked. The 'Restrict to Loyalty' checkbox is unchecked. The 'Allow Complimentaries' checkbox is unchecked. The 'Item Monitored at POS as Payment Group' dropdown is empty. The 'Tax Code' is 'Sales Tax - Concessions'. The 'Tax Category' is empty. The 'Discount Code' is empty. The 'Item belongs to Cinema' dropdown is empty. The 'Barcode' field is empty. The 'Alternate Items' field is empty. The 'Prepare Area Mapping' field is empty. The 'Pickup Area Mapping' field is empty. The 'Alternate Language' field is empty. The 'Account Codes' field is empty. The 'CAPS', 'NUM', and 'INS' buttons are visible at the bottom right.

File	Edit	Help
Item:	Ice Cream Choc Coated	
Barcodes	Alternate Items	Prepare Area Mapping
Pickup Area Mapping	General	Stock Details
Box Office	Voucher Items	Alternate Language
Account Codes		
Description:	Ice Cream Choc Coated	
Short Desc:	Ice&Flake	Item Type: Made in advance (Rec)
Master Item Code:	145	Item Requires Preparing: <input checked="" type="checkbox"/>
Item Class:	Ice Creams	
Item belongs to Cinema:		
Discount Code:		
Tax Code:	Sales Tax - Concessions	Tax Category:
Vendor:	Cream World Ltd	
Vendor Item Code:	123449	Status: Active
Allow Complimentaries:	<input type="checkbox"/>	Item Monitored at POS as Payment Group:
Print on Food Voucher:	<input checked="" type="checkbox"/>	
Restrict to Loyalty:	<input type="checkbox"/>	



Item Maintenance – Available To Remote Selling Devices Screenshot

The screenshot shows the 'Item Maintenance' window with the 'Item' field set to 'Ice Cream Choc Coated'. The 'Box Office' tab is selected, and the 'Available To The Public, Kiosks And Remote Sales Devices' checkbox is checked. The 'Box Office Sundry Item' checkbox is unchecked, and the 'Position In Box Office Reports' is set to 0. The 'Booking Fee Item' and 'Surcharge' checkboxes are also unchecked. The 'CAPS', 'NUM', and 'INS' buttons are visible at the bottom right.

Item: Ice Cream Choc Coated

Barcodes | Alternate Items | **Box Office** | Pickup Area Mapping | Voucher Items | Alternate Language | Account Codes

Box Office Reports

☐ Box Office Sundry Item

0 Position In Box Office Reports

Kiosks And Remote Sales Devices

☒ Available To The Public, Kiosks And Remote Sales Devices

☐ Booking Fee Item

☐ Surcharge

CAPS NUM INS



Item Maintenance – Item Master Code Screenshot

You will need to use the item master code to map to the concessions image filename. This will be explained later.

The screenshot shows the 'Item Maintenance' application window. The 'Item' field at the top is set to 'Ice Cream Choc Coated'. The 'General' tab is selected, and the 'Master Item Code' field is highlighted with a red circle and contains the value '145'. Other fields include 'Description' (Ice Cream Choc Coated), 'Short Desc' (Ice&Flake), 'Item Type' (Made in advance (Rec)), 'Item Class' (Ice Creams), 'Item Requires Preparing' (checked), 'Item belongs to Cinema' (empty), 'Discount Code' (empty), 'Tax Code' (Sales Tax - Concessions), 'Tax Category' (empty), 'Vendor' (Cream World Ltd), 'Vendor Item Code' (123449), 'Status' (Active), 'Allow Complimentaries' (unchecked), 'Print on Food Voucher' (checked), 'Restrict to Loyalty' (unchecked), and 'Item Monitored at POS as Payment Group' (empty). The bottom of the window has buttons for 'CAPS', 'NUM', and 'INS'.

Item:	Ice Cream Choc Coated		
Barcodes Alternate Items Prepare Area Mapping Pickup Area Mapping			
General Stock Details Box Office Voucher Items Alternate Language Account Codes			
Description:	Ice Cream Choc Coated		
Short Desc:	Ice&Flake	Item Type:	Made in advance (Rec)
Master Item Code:	145	Item Requires Preparing:	<input checked="" type="checkbox"/>
Item Class:	Ice Creams		>>
Item belongs to Cinema:			
Discount Code:			
Tax Code:	Sales Tax - Concessions	Tax Category:	
Vendor:	Cream World Ltd		>>
Vendor Item Code:	123449	Status:	Active
Allow Complimentaries:	<input type="checkbox"/>	Item Monitored at POS as Payment Group:	
Print on Food Voucher:	<input checked="" type="checkbox"/>		
Restrict to Loyalty:	<input type="checkbox"/>		
CAPS NUM INS			



Concession Item Image Setup – At the kiosk

Setting up the images

At the kiosk you would like to display an image for your choc coated icecream. The name of this image maps to the Item Master Code (screenshot above).

For Example:

You have an Item 'Ice Cream Choc Coated' at the cinema. It's master code is '145'. The image you would like to use for the Ice Cream Choc Coated is called 'ICECREAMCHOCOATED.JPG'. You will need to rename this file to be '145.JPG'.

At the kiosk, you now need to place this image inside the folder
C:\VISTA\VISTAKIOSK\CONFIG\IMAGES\USER.

Note, the user folder overrides settings in the system folder automatically. There is no need to touch the system folder, or any of the other folders in this directory structure. Always use the 'USER' Folder.

Setting up the text that appears next to the image (for a more in depth description).

For each concession that appears on the kiosk, there are two descriptions. One is pulled from the Item Maintenance description, and the other from an .ini file on the kiosk. The description that is pulled from Item Maintenance is always displayed. This is the message that appears next to the value of the concession. As shown below :



In some cases there is not enough space here to display the full description you would like. In this case, you can specify your own text to occupy two lines. I have given an example first, then I will explain how to achieve this.



Under the USER folder there are some sample images, and sample concession text. The sample concession text file is named Sample_concontext1.ini. The structure of this file is outlined below.



ConcText1.ini

This file name is specified in your Kiosk.ini, default is context1.ini. (Setting explained in the Kiosk.ini section).

[General]

To continue our image mapping example, where the master code maps to the image file name, the same occurs for our ConcText1.ini.

788=Men In Black Combo! Will Smith is back!

This will display the text, for Item Master code 788, as shown in the image below.



Please either make a new file or rename the Sample_ConcText1.ini to ConcText1.ini. There is an example in here of the layout.

ConcText2.ini

This file is identical to ConcText1.ini, except that it is used for language 2. (For example, in a dual language system where you are using English and French, it would apply to the French language, assuming French is language 2)



Customising Audio

Recording Standards

Vista's audio has been recorded using the following standards.

Level: Normalize RMS to -10db
Format: Wav format, Stereo PCM, 48 kHz 16bit.

Kiosk Audio

The spreadsheet below indicates all the audio phrases used in the Kiosk, the moment when they are played, and the name of the wave-file containing the audio.

When audio is played	Vista's default audio phrase	Wav Filename
Welcome phrase Language	Welcome to this automatic ticket machine	visWelcome
Options	Please make a selection	visSelect
Cinemas	Please select a cinema	visSelectCinema
Movies	Please select a movie	visSelectMovie
Sessions	When do you want to see the movie? Just touch a day and a time.	visSelectDayTime
<i>Sessions -- User clicks on sold out session</i>	I'm sorry, this session is sold out on this kiosk. There may be seats available at the ticket counter.	visMsgSoldOutSession
<i>Sessions -- User clicks on sold out session (public mall or X-cinema selling)</i>	I'm sorry, this session is sold out on this kiosk. There may be seats available at the cinema.	visMsgSoldOutSession1
Tickets	Touch these buttons to select the type and number of tickets you want.	visSelectTickets
<i>Tickets__ : User clicks on sold out ticket type</i>	I'm sorry, this ticket type is sold out for this session. Please choose another ticket type.	visSoldOutTicket
<i>Tickets__ : When user attempts to purchase more than the maximum amount of ticket TYPES</i>	I'm sorry, no more ticket types can be added to this order. You can increase the quantity of tickets already selected.	visMaxTicketTypes
<i>Tickets__ : User attempts to buy more than the max tickets allowed</i>	I'm sorry, you have reached the maximum number of tickets allowed	visMaxTickets
Concessions	Touch these buttons to select the type and number of concessions you want.	visSelectConcessions
<i>Concessions__ : When user attempts to purchase more than the maximum amount of concessions TYPES</i>	I'm sorry, no more items can be added to this order. You can increase the quantity of items already selected.	visMaxItemTypes



<i>Concessions__</i> : User attempts to buy more than the max concessions allowed	I'm sorry, You have reached the maximum number of concessions allowed	visMaxConcessions
Card Types Swipe Card Purchase Swipe Card Purchase Swipe Card Purchase Printing Complete / Candy Bar Select a booking	Please select a payment method Swipe your card through the card reader, like this. Insert your card, like this. Hold your card in front of the reader, like this printing your tickets now Don't forget to visit the candy bar Please select the booking you wish to pickup.	visSelectPayMethod visSwipe visSwipeInsert visSwipeHold visPrinting visCandyBar visSelectBooking
Select Seats	Please select your seats.	visSelectSeats
Swipe Card Pickup <i>Swipe Card Pickup__</i> : After user has successfully swiped their card at pickup	welcome to the booking pickup service. Thank you. Checking for your tickets now.	visWelcomePickup visCheckingTickets
Messages		
MSG_ERR_SOLDOUT	I'm sorry, this session is sold out on this kiosk. There may be seats available at the cinema.	visMsgSoldOutSession
MSG_ERR_CANTALLOCATE	I'm sorry, we cannot seat all of your tickets together. Please check at the ticket counter.	visMsgSeatsTogether
MSG_PRINT_ERROR	I'm sorry, we have a printer problem. We cannot print tickets or receipts.	visMsgPrintProblem
MSG_CENSOR	Please note the censors warning. You may be asked for ID. Touch Ok to continue.	visMsgCensor
MSG_ERR_CARDREAD	I'm sorry, we haven't read your card.	visMsgCardNotRead
MSG_BK_NOTFOUND	I'm sorry there are no tickets reserved against your card number. To try again with a different card, touch 'retry'.	visMsgNoTicketsReserved
MSG_PAY_DECLINED	I'm sorry, we are unable to process your payment. Please try again or go to the counter for assistance.	visMsgPayProblem
MSG_GENERAL_ERROR	I'm sorry, we have encountered a technical problem.	visMsgProblem
MSG_PRINT_DECLINE_ERROR		visMsgProblem
MSG_ORDER_ERROR		visMsgProblem
MSG_ERR_CARDREAD_AUTO		visMsgProblem
MSG_ERR_CARDREAD_TECH		visMsgProblem
MSG_BK_ISSUE		visMsgProblem



MSG_SWIPE_CARD MSG_PICKUP_ERROR MSG_ERROR_NOCHARGE MSG_CURRENTLY_BUSY MSG_CANNOT_PICKUP	I'm sorry; you cannot pick this order up on a Kiosk. Please proceed to the ticket counter.	visWelcomePickup visMsgProblem visMsgProblem visMsgCannotPickup
MSG_NO_MEMBER	I'm sorry; no member could be found for your card.	visMsgNoMemberFound
MSG_ENTER_CVV	Please enter the CVV number located on your card.	visMsgEnterCVV
MSG_SELECT_CINEMA Out of Order	Please select the cinema you wish to work with. I'm sorry, this kiosk is out of order. Please try again later.	visMsgSelectCinema visMsgOutOfOrder

Recording Audio for Languages Other than English

Vista does not provide audio for non-English languages (Spanish, Chinese etc). Instead Vista expects the customer to create their own audio using the language(s) they would like to use on the kiosk.

Steps

Record the phrases listed in the table above and then save the wav files using the names indicated (with the ".wav" file extension). Once the wav files have been recorded and verified, they need to be placed into the following folder of the kiosk:

(where <language> is the name of the language you have recorded)

C:\Vista\VistaKiosk\bin\Config\Language\Audio\<language>\User\

Customizing English Audio

Same as above, except instead put the wav files in the following folder of the kiosk:

C:\Vista\VistaKiosk\bin\Config\Language\Audio\English(NZ)\User\



Troubleshooting

General Troubleshooting

Several Logs are created by the Vista Kiosk. They reside in C:\Vista\Log. Please check them all to try and resolve your issue.

Most likely your issue will be either a problem with Sales Server, a problem with the Card Reader / Printer, or a general problem with incorrectly entered information. (example : my cinema name is 'VISTACINEMA' but I accidentally put 'VISTACIMENA').

If the Kiosk starts up and produces an error, it will remain on the login screen with the description of the error.

The error is usually self explanatory, it may tell there is a problem with loading data for "Vista Cinema X", this means you have incorrectly setup one of your configuration files. Check VistaVSSClient.config and Kiosk.ini in the config folder.



Start Up Errors

Active X Error – Can't create component

Usually a problem with creating the Sales Server object. Run the Sales Server test program on the Kiosk. (TestClient21vb6.exe, located in ...SALESSRVR\TEST PROGRAM.).

1. Push "Create Object" entering in the location as to where you are running Sales Server.
2. Push "Send Command with above Parameters".
3. Push "Execute". If you get back anything other than a "0" please check the Sales Server log. If you are running Sales Server on the server, this will be in D:\Vista\Log on the server. Else, it will be local in C:\Vista\Log
4. Push "GetData". You will be presented with a message saying "Large chunk of data has been returned...". This is fine.

TestSrvr

CLIENT SIDE TEST SCREEN vb6

to TEST VistaSalesSrvr SERVER COMPONENT during DEVELOPMENT ONLY

KioskId: 127.1.250.12 Server Name:

TransId: 00027

Cmdname: GetMDB_FilmSessPrice

Param1: Param4:

Param2: Param5:

Param3: Param6:

ReplyId string: 1014477917500000001 ReturnCode Integer: 0

Filename to hold data: RETURNDATA.tmp

ReturnData Header: 127.1.250.12
1014477917500000001
GETMDB_FILMSESSPRICE 0 503808

If this comes back as expected, there may be a problem with other .dlls. I would recommend re-running the package. Make sure you have high enough permissions to register active x components or else you will continue to get this message. After installing the kiosk you may run it as a locked-down user. This is only required for installation.



Error with Payments / PinPad / Card Reader

Check that the Reader is plugged in and switched on.

Check your VistaVSSClient.config settings to make sure you have the correct COM port set for your hardware.

If you are using Tender Retail hardware make sure you have your tblPaymentModuleConfig entry entered correctly, and that your MSRTendRetail.ini file is set correctly. This file is located in your C:\Vista\VistaKiosk directory.

Make sure the Multi.exe server program is running and that the bank is setup correctly.

Error with Printer

Check the printer is plugged in and powered on, and runs successfully through any test harnesses supplied by the vendor.

Check your VistaVSSClient.config to make sure you have the correct COM port settings for your hardware. NOTE ** OPOS does not require any Com port settings, only a stationid which should in general be 2. OPOS works out the rest.

Payments appear to be acting strangely, when I exit the kiosk software a message box is up saying “Error with pinpad – please press ok before continuing”.

Make sure the version of visTendRetail.dll is 30.4.0.0. This file can be located on your kiosk in the C:\Vista\PaymentsModule folder. It should also be found on the server under D:\Vistainstall\applib\PaymentsModule\3.00. Check the version is the same here also.

I can pickup my order more than once? What’s going on?

You need to set a default stock location for Kiosk. This can be achieved by going in to Back Office -> Concessions -> Concession Maintenance -> Stock Location. Then set a location to be the 'Kiosk Default'.

NCRPOSPrinter11.ocx cannot be found

Please copy this file to your SYSTEM32 folder on the Kiosk. Re-run the Kiosk and see if you get the same error. It can be found in “C:\Vista\VistaKiosk\Config\OPOS Drivers”.

If so, try registering the .ocx file using regsvr32. This should solve the issue without a problem.

Start -> Run ... type the following

REGSVR32 “C:\Windows\System32\NCRPOSPrinter11.ocx”



Appendix A – OPOS Drivers for Star Printers

If you are using the Star TSP700,800,900 with OPOS you will need to install the IBM OPOS PRINTER drivers. They are included in the package, in the base directory.

The package is named **opos_win32_20041116.exe**

You must follow the instructions below :

- Install the drivers
- Run the 'OPOS POS PRINTER Register program'
- Select from the left TSP847D if using the gate model insert reader.
- Click Reg ->
- Change the Device Name to **STARPRINTER**
- The Kiosk will NOT function without the above setting
- Choose the correct COM port
- Leave other settings as are, and click OK

Appendix B – OCX for KDM insert readers

you will get a prompt in the setup wizard to install a special .ocx package for insert readers. You must install this .ocx package.

