

January 17, 2011

Evaluation Report for Oxypite Wagering and Record Keeping Software – Market Manager Betting System Release 5450

Manufacturer:	Oxypite (Pty)LTD
Product Name:	Oxypite
ATF Report Number:	SAB.OXY.1005.01
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BMM Compliance Africa (Pty) Ltd

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Evaluation Report

Manufacturer:	Oxypite (Pty) LTD
Manufacturer Address:	135 Daisy Street, Sandown, Sandton 2196
Manufacturer Reference Number:	Manufacturer Submission Letter Dated 26 May 2010
Product Name:	Oxypite Market Manager Wagering and Record Keeping Software
Testing dates:	Start date: 27 May 2010 End date: 22 December 2010
Product Style:	Wagering and record keeping software
Product Description:	Wagering and record keeping software for sport betting, Horse Racing, Numbers Betting and any public events. See section 2 of this report for more details.
Jurisdictions Recommended:	Eastern Cape, Free State, Gauteng, Kwa-Zulu Natal, Mpumalanga, Limpopo, Northern Cape, Western Cape and North West
Location where test was performed:	135 Daisy Street, Sandown, Sandton 2196
Technical Standard used for Evaluation:	SANS1718-4:2008 Edition 2 Wagering and record keeping Software Testing
BMM Ref Number:	OXY.1005
Test Engineer:	Jack Motjelele Alpheus Matsebula
Certifying Engineer: Name Position	Alpheus Matsebula Technical Services Manager

1. PURPOSE

Oxypite requested BMM to evaluate its Wagering and Record Keeping software for satisfactory operation in South African bookmaker markets.

2. PRODUCT CHARACTERISTICS

The Oxypite Wagering and Record keeping software allows for placement of deposit account and Cash Betting. The Oxypite Wagering and record keeping software allows betting on Sports, Horse Racing and Lottery betting (Fixed Odds Lottery and Non Fixed Odds Lottery).

The Oxypite Wagering and Record Keeping software consist of the "Market Manager Application", the "Back Office Application" and the "Sports bet Fair Application"

Market Manger Application

Responsible for Books and Events management.

Sports Bet Fair Application

Responsible for the creation of Books and Events.

Back Office Application

Responsible for Customers and Users Accounts Management, Responsible for Security, Responsible for Telephone betting and Point of sale Cash Betting. "Back Office Application" give access to all Wagering Reports. Responsible for the Cash Betting site (Shops) Management.

The software features the following stages when a new event is created.

New state

New state allows creation of books as match play, championship, tournament or any offering type based on the nature of the event.

Events may be created manually by creating all required fields or by importing an xml file with predefined participants/competitors, venue and book type specified event(s). The functions available for defining the new events are for example: Event venue, description of the event, number of participant in every specific event, date of the events and odds allocated for every participant. The event may be modified for any error corrections and updates while is in new state.

Active state

Once an event is finalized with all required field parameters and ready to take place in the near future, then it will be moved to active state. Active state allows for betting to take place on any event that is made available as active by the system operator. Modifications allowed at this state to change odds offering, date and time of the event(s). All modifications during this state are logged on a significant events report with date and time includes the operator who made the changes and nature of the change made. An event can automatically close when the starting time has passed. In other words, no more bets are allowed command. Once an event has is closed, punters using the web interface will not be able to see the event. It is possible to have some events not being closed on event start time due to the configuration setup during definition of the event with "in running bets allowed" option and end betting time set to later than event start time. It should be noted that "in running" is only available on Event Types as defined during the event new state.

Markets Management

FREEZE MARKET

This option is available on Market manager application for use by the operator to control market or events. The freezing market is based on the risk assessment as may be stipulated by the bookmakers' operational requirements. This option changes availability for betting on an event on the web interface to no bets allowed and therefore punters will not be able to place bets on the specific event.

UNFREEZE MARKETS

This option is available on Market manager application for use by the operator to change the status of a market or event from "disallowing betting" or "allowing betting" on specific events.

Hide all

This option is available on Market manager application for use by the operator to change the status of a market or event from visible to invisible.

Show all

This option is available on Market manager application for use by the operator to change the status of a market or event from invisible to visible.

End all books

This option is available on Market manager application for use by the operator to force the status of all offerings on a market or event to event closed state, invisible and no betting allowed.

AUTOMATIC CLOSING OF EVENTS OR MARKETS

Events or markets will be automatically closed under the following circumstances:

- The starting and end betting time of the events have passed.
- The venue rules for that event allow it to be closed.
- The event has not been brought back from closed state by changing the starting time and the date.

CLEAN UP OF CLOSED EVENTS

Clean up process:

- All events or markets in a 'Closed' state that have no bets against them and are not used by other bets must be "resulted" first before they may be move to closed state.
- All events or markets that are in a resulted and refunded state can be manually moved to closed state.

Once all the events are closed and the results are known, then this state is also used for entering the events results and scratching if they are available using the relevant field sheet for updating the respective information including dead heats.

Payout state

On resulting an event or market then the payout to all winning and losing bets will be made automatically by updating the punter accounts as market manager software support account betting only.

Bet types

The bet types supported by the software are given below:

1. Sport tournament
 - Fixed Win & Place
2. Match play and Correct Score
 - Fixed Win
3. Fixed odd and match play can be extended as Multiple bets described below:

BET TYPE	DESCRIPTION
Single	A single bet on 1 selection
Double	A single bet on 2 selections
Treble	A single bet on 3 selections
Accumulator	A single bet on the outcome of all selections
Doubles	All the combinations of double outcome bets
Trebles	All the combinations of treble outcome bets
Fourfolds	All the combinations of fourfold outcome bets
Fivefolds	All the combinations of fivefold outcome bets
Sixfolds	All the combinations of sixfold outcome bets
Sevenfolds	All the combinations of sevenfold outcome bets
Eightfolds	All the combinations of eightfold outcome bets

BET TYPE	DESCRIPTION
Ninefolds	All the combinations of ninefold outcome bets
Tenfolds	All the combinations of tenfold outcome bets
Trixie	All the combinations of double and treble outcome bets from 3 selections
Patent	All the combinations of single, double and treble outcome bets from 3 selections
Yankee	All the combinations of double, treble and fourfold outcome bets from 4 selections
Lucky 15	All the combinations of single, double, treble and fourfold outcome bets from 4 selections
Canadian	All the combinations of double, treble, fourfold, fivefold and sixfold outcome bets from 5 selections
Lucky 31	All the combinations of single, double, treble, fourfold and fivefold outcome bets from 5 selections
Heinz	All the combinations of double, treble, fourfold and fivefold outcome bets from 6 selections
Lucky 63	All the combinations of single, double, treble, fourfold, fivefold and sixfold outcome bets from 6 selections
Super Heinz	All the combinations of double, treble, fourfold, fivefold, sixfold, sevenfold outcome bets from 7 selections
Goliath	All the combinations of double, treble, fourfold, fivefold, sixfold, sevenfold, eighthfold outcome bets from 8 selections

Punters Betting Medium

The Oxypite Wagering and Record keeping software allows placement of bets using the web interface or mobile web interface, the Oxypite Wagering and record keeping software also allows placement of bets through telephone and Point of Sale Cash Betting.

Web Interface Betting or Mobile Betting

The punters may logon to the betting Website using credentials created during registration. The punter may lay bets respective to their account. Registered users can be able to deposit money into an account, place a bet or manage an account and view their betting slips.

Telephone Betting

Punters may phone bookmaker Operators. The punters will be identified by their respective User Names, the User Names will be validated by a "Personal Identification Number (PIN)" selected by the punter during registration. The wagering operator will assist the punters in laying bets respective to their account.

Cash Betting (Point of Sale Betting)

Punters may lay bets at any bookmaker Point of Sale site by means of cash exchange. A bet slip will be given to punters as proof of betting. The bet slip will include a unique ticket number, Event details including the punters choice and randomly generated username and password.

3. BMM EVALUATION PERFORMED

BMM has tested and confirmed compliance of the software against the relevant requirements specified in SANS 1718-4 for operation in South African markets. BMM performed the following tests to confirm compliance to the relevant regulatory specifications:

3.1 Software evaluation

Ensure that software meets all the relevant requirements specified in SANS 1718-4. BMM performed this by evaluating the source code as submitted and compiled the source in order to verify that the image files tested are the same as the compiled source files.

3.2 Regression testing

BMM conducted a complete range of functional tests of this software. Testing was conducted in accordance with the test plans using relevant checklists to confirm the software performance to a wide range of functions, failures, as detail in the software design documentation and source code. These checklists are designed to confirm compliance to relevant sections of SANS 1718-4.

3.3 Data validation testing

BMM has conducted data processing, statistical verification on processed data, software configurable parameters, transactions handling and reporting of the software to verify proper communication and processing of data during various state of the software. In addition, BMM has verified that all relevant report format and reported data is as specified in SANS 1718-4, and is reported in format detailed in the relevant annex A of the standard.

3.4 Significant event testing

The following significant events are detailed in the standard where simulated and reported by the software:

- User logon and user log off;
- Logon Failures;
- Time & Date Inconsistency;
- Results Cancelled or Changed;
- Take back bet in Excess;
- Account Limits changed;
- Event Carded & starting times & relevant changes;
- Event reopening;
- Password Changes;
- Table, Rules & parameter changes;
- Manual & Automatic Time sync;
- Duplicate Ticket number;
- Ticket Sequence Problems;
- Event data file changes;
- Cancelled / Reversed Wagers;

4. RECOMMENDATION

BMM has tested and confirmed compliance of the Oxypite Wagering and Record Keeping software against SANS 1718-4:2008 Edition 2: Wagering Record - keeping Software Testing. Details of the software used for this evaluation are given below:

SOFTWARE DETAILS (SAMPLE UNDER TEST)

DESCRIPTION	IDENTIFIER	TYPE	Release Version Number	MD5
Back Office WebService WCFService (Services\ClientWS\bin)				
Services - ClientWS	Habanero.CacheHelper.dll	DLL	5450	2c2d7d7881b9133e0bc7ec966e2ae479

DESCRIPTION	IDENTIFIER	TYPE	Release Version Number	MD5
Services - ClientWS	Habanero.ClientDTO.dll	DLL	5450	c7caac6e64e767cb758d33cb4d447363
Services - ClientWS	Habanero.CMS.Data.dll	DLL	5450	2270641bacc8597122991dfc41936499
Services - ClientWS	Habanero.CMS.DataDBSpecific.dll	DLL	5450	3a94ed3fb0a31780b17a0d9e951e57d6
Services - ClientWS	Habanero.Constants.dll	DLL	5450	13b50655a91ec9a0e2accb17b07bdbdd
Services - ClientWS	Habanero.Data.dll	DLL	5450	f66246cc18a9ad880d33b1f4fec2cb5d
Services - ClientWS	Habanero.DataDBSpecific.dll	DLL	5450	985011c21cff8d923c73750aa9f09427
Services - ClientWS	Habanero.DTO.Cache.dll	DLL	5450	5a20a97b5c12f7c241ebb3812313209a
Services - ClientWS	Habanero.DTO.Error.dll	DLL	5450	5114e84f779e2dce7414b36e48f20af4
Services - ClientWS	Habanero.DTO.Game.Card.dll	DLL	5450	e43e62136d6a1a7a697eae11d7b8cd8d
Services - ClientWS	Habanero.DTO.Game.dll	DLL	5450	dcd64a2cbef1bbff7e42cb215eb2cae7
Services - ClientWS	Habanero.DTO.GeneralInfo.dll	DLL	5450	3dd03be58e00af21b0a6ad438b9e58c0
Services - ClientWS	Habanero.DTO.IntegratUSSD.dll	DLL	5450	e6cb0c4e182843c50f84b6ba2e94f757
Services - ClientWS	Habanero.DTO.Jackpot.dll	DLL	5450	65acb68e088d67f204197302553cec5f
Services - ClientWS	Habanero.DTO.Profile.Message.dll	DLL	5450	579936699bc8eab81aa83fb9f5dc7d60
Services - ClientWS	Habanero.DTO.SportBet.dll	DLL	5450	d9aa7efbc0cc ef5b835f873919b65969
Services - ClientWS	Habanero.DTO.SSODTO.dll	DLL	5450	8b5daf7a543ce30f9d9bf2a9fedea904
Services - ClientWS	Habanero.DTO.Transaction.dll	DLL	5450	eda5bd6e62885c88f17a21233204a2c0
Services - ClientWS	Habanero.DTO.Transaction.Message.dll	DLL	5450	3f7f461d12e7b28b034389dc37de2684
Services - ClientWS	Habanero.DTO.User.dll	DLL	5450	dd314324cc33f9dd290009f858a9e26d
Services - ClientWS	Habanero.Email.dll	DLL	5450	3cd25a77a1322bfd3b92794

DESCRIPTION	IDENTIFIER	TYPE	Release Version Number	MD5
				a5069c5ed
Services - ClientWS	Habanero.Extensions.dll	DLL	5450	2560c65af59a5c58882f90f638ef9f4d
Services - ClientWS	Habanero.PaymentProcessing.dll	DLL	5450	846769f1b52b687e2c21f3a2e27b4e51
Services - ClientWS	Habanero.PaymentProcessing.XmlSerializers.dll	DLL	5450	93a7215f33d64105853b3fe4b82ce263
Services - ClientWS	Habanero.POSFunctions.dll	DLL	5450	ce8fd792a26ffa567385e8feb3c573
Services - ClientWS	Habanero.POSFunctions.XmlSerializers.dll	DLL	5450	1b9aa156368b5be28d3745b39ddc917b
Services - ClientWS	Habanero.RNG.dll	DLL	5450	b61535609179dc6eadc0e6268d579998
Services - ClientWS	Habanero.Security.dll	DLL	5450	5da73d4e9fe28799b5f07fb458b7af84
Services - ClientWS	Habanero.Service.Client.WS.dll	DLL	5450	633b320cf7960373cb175d7dc737c8a6
Services - ClientWS	Habanero.Service.Client.WS.XmlSerializers.dll	DLL	5450	f1985157442427d06825c3691d7d875e
Services - ClientWS	Habanero.Service.Helper.Account.dll	DLL	5450	f920df5e8b8f049ba72c4d3b88cc5eb8
Services - ClientWS	Habanero.Service.Helper.IntegratUSSD.dll	DLL	5450	98929351f49b4ff984018f8c4e1e2595
Services - ClientWS	Habanero.Service.Helper.Profile.dll	DLL	5450	b34e0fea1fca2565b689b07fe2d00d7
Services - ClientWS	Habanero.Service.Helper.User.dll	DLL	5450	68938f432c89e9d665650f071f762745
Services - ClientWS	Habanero.Service.Helper.Util.dll	DLL	5450	768f12b4ee2632f5b18d057e7ef4ec8f
Services - ClientWS	Habanero.Shared.dll	DLL	5450	3facd568fab2e995c9f33f82a2fb93c7
Services - ClientWS	Habanero.SharedHelpers.dll	DLL	5450	8af4cf9111669870deb668b348ef735
Services - ClientWS	Habanero.SportsBet.Entities.dll	DLL	5450	49ae65f2a1bf7ea2a99466f11e11bf02
Services - ClientWS	Habanero.Util.dll	DLL	5450	91195d9af36240bfb14e783043c9dc14
Web BackOffice Service	Habanero.CacheHelper.dll	DLL	5450	2c2d7d7881b9133e0bc7ec966e2ae479

DESCRIPTION	IDENTIFIER	TYPE	Release Version Number	MD5
Web BackOffice Service	Habanero.Constants.dll	DLL	5450	13b50655a91ec9a0e2accb17b07bdbdd
Web BackOffice Service	Habanero.Data.dll	DLL	5450	f66246cc18a9ad880d33b1f4fec2cb5d
Web BackOffice Service	Habanero.DataDBSpecific.dll	DLL	5450	985011c21cff8d923c73750aa9f09427
Web BackOffice Service	Habanero.DTO.Cache.dll	DLL	5450	5a20a97b5c12f7c241ebb3812313209a
Web BackOffice Service	Habanero.DTO.Error.dll	DLL	5450	5114e84f779e2dce7414b36e48f20af4
Web BackOffice Service	Habanero.DTO.Game.Card.dll	DLL	5450	e43e62136d6a1a7a697eae11d7b8cd8d
Web BackOffice Service	Habanero.DTO.Game.dll	DLL	5450	dcd64a2cbef1bbff7e42cb215eb2cae7
Web BackOffice Service	Habanero.DTO.GeneralInfo.dll	DLL	5450	3dd03be58e00af21b0a6ad438b9e58c0
Web BackOffice Service	Habanero.DTO.IntegratUSSD.dll	DLL	5450	e6cb0c4e182843c50f84b6ba2e94f757
Web BackOffice Service	Habanero.DTO.Jackpot.dll	DLL	5450	65acb68e088d67f204197302553cec5f
Web BackOffice Service	Habanero.DTO.SportBet.dll	DLL	5450	d9aa7efbc0cc ef5b835f873919b65969
Web BackOffice Service	Habanero.DTO.SSODTO.dll	DLL	5450	8b5daf7a543ce30f9d9bf2a9f edea904
Web BackOffice Service	Habanero.DTO.Transaction.dll	DLL	5450	eda5bd6e62885c88f17a21233204a2c0
Web BackOffice Service	Habanero.DTO.Transaction.Message.dll	DLL	5450	3f7f461d12e7b28b034389dc37de2684
Web BackOffice Service	Habanero.DTO.User.dll	DLL	5450	dd314324cc33f9dd290009f858a9e26d
Web BackOffice Service	Habanero.Email.dll	DLL	5450	3cd25a77a1322bfd3b92794a5069c5ed
Web BackOffice Service	Habanero.Extensions.dll	DLL	5450	2560c65af59a5c58882f90f638ef9f4d
Web BackOffice Service	Habanero.Game.GameHelper.dll	DLL	5450	b47d10c1faeb94c746bd8297302f6f2f
Web BackOffice Service	Habanero.Game.Jackpot.dll	DLL	5450	244021fbd97ed20eebf3a19654409f73
Web BackOffice Service	Habanero.GeoIP.dll	DLL	5450	a42920d54402aff83c85eaa

DESCRIPTION	IDENTIFIER	TYPE	Release Version Number	MD5
				53b84b6a0
Web BackOffice Service	Habanero.PaymentProcessing.dll	DLL	5450	846769f1b52b687e2c21f3a2e27b4e51
Web BackOffice Service	Habanero.PaymentProcessing.XmlSerializers.dll	DLL	5450	93a7215f33d64105853b3fe4b82ce263
Web BackOffice Service	Habanero.POSFunctions.dll	DLL	5450	ce8fd792a26ffafb567385e8feb3c573
Web BackOffice Service	Habanero.POSFunctions.XmlSerializers.dll	DLL	5450	1b9aa156368b5be28d3745b39ddc917b
Web BackOffice Service	Habanero.RNG.dll	DLL	5450	b61535609179dc6eadc0e6268d579998
Web BackOffice Service	Habanero.Security.dll	DLL	5450	5da73d4e9fe28799b5f07fb458b7af84
Web BackOffice Service	Habanero.Service.Helper.Account.dll	DLL	5450	f920df5e8b8f049ba72c4d3b88cc5eb8
Web BackOffice Service	Habanero.Service.Helper.IntegratUSSD.dll	DLL	5450	98929351f49b4ff984018f8c4e1e2595
Web BackOffice Service	Habanero.Service.Helper.User.dll	DLL	5450	68938f432c89e9d665650f071f762745
Web BackOffice Service	Habanero.Service.Helper.Util.dll	DLL	5450	768f12b4ee2632f5b18d057e7ef4ec8f
Web BackOffice Service	Habanero.Shared.dll	DLL	5450	3facd568fab2e995c9f33f82a2fb93c7
Web BackOffice Service	Habanero.SharedHelpers.dll	DLL	5450	8af4cf9111669870deb6f668b348ef735
Web BackOffice Service	Habanero.SportsBet.Entities.dll	DLL	5450	49ae65f2a1bf7ea2a99466f11e11bf02
Web BackOffice Service	Habanero.Util.dll	DLL	5450	91195d9af36240bfb14e783043c9dc14
Web BackOffice Service	Habanero.Web.BackOffice.Security.dll	DLL	5450	5ab9ba3dd08c536eb23e990844e467f0
Web BackOffice Service	Habanero.Web.BackOffice.UI.dll	DLL	5450	dd4c47bcae5282568436151ab8faf7b1
Web BackOffice Service	Habanero.Web.BackOffice.UI.XmlSerializers.dll	DLL	5450	ff57c6901ffc8126bbc708a7ad92546f
Web BackOffice Service	Habanero.Web.Extensions.dll	DLL	5450	89b6e652bb195b6ac802cb423652090a
Services - WCFHosted	Habanero.Constants.dll	DLL	5450	13b50655a91ec9a0e2accb17b07bdbdd

DESCRIPTION	IDENTIFIER	TYPE	Release Version Number	MD5
Services - WCFHosted	Habanero.Data.dll	DLL	5450	f66246cc18a9ad880d33b1f4fec2cb5d
Services - WCFHosted	Habanero.DataDBSpecific.dll	DLL	5450	985011c21cff8d923c73750aa9f09427
Services - WCFHosted	Habanero.DTO.Error.dll	DLL	5450	5114e84f779e2dce7414b36e48f20af4
Services - WCFHosted	Habanero.DTO.Game.dll	DLL	5450	dcd64a2cbef1bbff7e42cb215eb2cae7
Services - WCFHosted	Habanero.DTO.Jackpot.dll	DLL	5450	65acb68e088d67f204197302553cec5f
Services - WCFHosted	Habanero.DTO.SportBet.dll	DLL	5450	d9aa7efbc0cce5b835f873919b65969
Services - WCFHosted	Habanero.DTO.SSODTO.dll	DLL	5450	8b5daf7a543ce30f9d9bf2a9fedea904
Services - WCFHosted	Habanero.DTO.Transaction.dll	DLL	5450	eda5bd6e62885c88f17a21233204a2c0
Services - WCFHosted	Habanero.DTO.Transaction.Message.dll	DLL	5450	3f7f461d12e7b28b034389dc37de2684
Services - WCFHosted	Habanero.Email.dll	DLL	5450	3cd25a77a1322bfd3b92794a5069c5ed
Services - WCFHosted	Habanero.Extensions.dll	DLL	5450	2560c65af59a5c58882f90f638ef9f4d
Services - WCFHosted	Habanero.Security.dll	DLL	5450	5da73d4e9fe28799b5f07fb458b7af84
Services - WCFHosted	Habanero.Service.Helper.Account.dll	DLL	5450	f920df5e8b8f049ba72c4d3b88cc5eb8
Services - WCFHosted	Habanero.Service.Helper.Util.dll	DLL	5450	768f12b4ee2632f5b18d057e7ef4ec8f
Services - WCFHosted	Habanero.Shared.dll	DLL	5450	3facd568fab2e995c9f33f82a2fb93c7
Services - WCFHosted	Habanero.SportsBet.Entities.dll	DLL	5450	49ae65f2a1bf7ea2a99466f11e11bf02
Services - WCFHosted	Habanero.SportsBet.Service.dll	DLL	5450	810f93ce7a3f882e014d0cc3a0ba2c40
Services - WCFHosted	Habanero.Util.dll	DLL	5450	91195d9af36240bfb14e783043c9dc14
Services - WCFHosted	Habanero.Web.WCFHosted.dll	DLL	5450	7bded8f9d7219026874eb4ee3a89e09c
MM and Betfair (\Program Files\Oxypite\Habanero\MarketManager)				

DESCRIPTION	IDENTIFIER	TYPE	Release Version Number	MD5
BetfairImport	Habanero.Constants.dll	DLL	5450	13b50655a91ec9a0e2accb17b07bdbdd
BetfairImport	Habanero.DTO.SportBet.dll	DLL	5450	d9aa7efbc0cce5b835f873919b65969
BetfairImport	Habanero.Shared.dll	DLL	5450	3facd568fab2e995c9f33f82a2fb93c7
BetfairImport	Habanero.SportsBet.BetFair.exe	EXE	5450	a98bbaf572ecc683e4c9222462adaf62
BetfairImport	Habanero.SportsBet.ServiceProxy.Common.dll	DLL	5450	4559105886758a037304e7379f992d4c
BetfairImport	Habanero.SportsBet.ServiceProxy.dll	DLL	5450	00654e5c6cc7c5bfe0aecfb153ecccec
BetfairImport	Habanero.SportsBet.UI.Common.dll	DLL	5450	aa851b9f9c549669848cd32c16c9168d
BetfairImport	Habanero.Util.dll	DLL	5450	91195d9af36240bfb14e783043c9dc14
BetfairImport	ServiceModelEx.dll	DLL	5450	0b7205248440155323fb1d07117f72fe
Market Manager	Habanero.Constants.dll	DLL	5450	13b50655a91ec9a0e2accb17b07bdbdd
Market Manager	Habanero.Shared.dll	DLL	5450	3facd568fab2e995c9f33f82a2fb93c7
Market Manager	Habanero.SportsBet.MarketManager.exe	DLL	5450	bf8880644b82ad2c78e6030ec35f4d11
Market Manager	Habanero.SportsBet.ServiceProxy.Common.dll	DLL	5450	4559105886758a037304e7379f992d4c
Market Manager	Habanero.SportsBet.ServiceProxy.dll	DLL	5450	00654e5c6cc7c5bfe0aecfb153ecccec
Market Manager	Habanero.SportsBet.UI.Common.dll	DLL	5450	aa851b9f9c549669848cd32c16c9168d
Market Manager	Habanero.SportsBet.VerifyCheckSum.exe	EXE	5450	9efb22f098706767a56c7fc9ad2c5005
Market Manager	Habanero.Util.dll	DLL	5450	91195d9af36240bfb14e783043c9dc14
Market Manager	ServiceModelEx.dll	DLL	5450	0b7205248440155323fb1d07117f72fe
Result and Time Services				
Resulting Service	Habanero.Constants.dll	DLL	5450	13b50655a91ec9a0e2accb17b07bdbdd

DESCRIPTION	IDENTIFIER	TYPE	Release Version Number	MD5
Resulting Service	Habanero.Data.dll	DLL	5450	f66246cc18a9ad880d33b1f4fec2cb5d
Resulting Service	Habanero.DataDBSpecific.dll	DLL	5450	985011c21cff8d923c73750aa9f09427
Resulting Service	Habanero.DTO.Error.dll	DLL	5450	5114e84f779e2dce7414b36e48f20af4
Resulting Service	Habanero.DTO.Game.dll	DLL	5450	dcd64a2cbef1bbff7e42cb215eb2cae7
Resulting Service	Habanero.DTO.Jackpot.dll	DLL	5450	65acb68e088d67f204197302553cec5f
Resulting Service	Habanero.DTO.SportBet.dll	DLL	5450	d9aa7efbc0cce5b835f873919b65969
Resulting Service	Habanero.DTO.SSODTO.dll	DLL	5450	8b5daf7a543ce30f9d9bf2a9fedea904
Resulting Service	Habanero.DTO.Transaction.dll	DLL	5450	eda5bd6e62885c88f17a21233204a2c0
Resulting Service	Habanero.DTO.Transaction.Message.dll	DLL	5450	3f7f461d12e7b28b034389dc37de2684
Resulting Service	Habanero.Email.dll	DLL	5450	3cd25a77a1322bfd3b92794a5069c5ed
Resulting Service	Habanero.Extensions.dll	DLL	5450	2560c65af59a5c58882f90f638ef9f4d
Resulting Service	Habanero.Security.dll	DLL	5450	5da73d4e9fe28799b5f07fb458b7af84
Resulting Service	Habanero.Service.Helper.Account.dll	DLL	5450	f920df5e8b8f049ba72c4d3b88cc5eb8
Resulting Service	Habanero.Service.Helper.Util.dll	DLL	5450	768f12b4ee2632f5b18d057e7ef4ec8f
Resulting Service	Habanero.Shared.dll	DLL	5450	3facd568fab2e995c9f33f82a2fb93c7
Resulting Service	Habanero.SportsBet.Entities.dll	DLL	5450	49ae65f2a1bf7ea2a99466f11e11bf02
Resulting Service	Habanero.SportsBet.ResultingService.exe	EXE	5450	86e4976afcf250e4fa33037940d6a320
Resulting Service	Habanero.Util.dll	DLL	5450	91195d9af36240bfb14e783043c9dc14
Time Service	Habanero.Constants.dll	DLL	5450	13b50655a91ec9a0e2accb17b07bdbdd
Time Service	Habanero.Data.dll	DLL	5450	f66246cc18a9ad880d33b1f4

DESCRIPTION	IDENTIFIER	TYPE	Release Version Number	MD5
				fec2cb5d
Time Service	Habanero.DataDBSpecific.dll	DLL	5450	985011c21cff 8d923c73750 aa9f09427
Time Service	Habanero.Service.Windows.TimeService.exe	EXE	5450	380425c5900 3873fbaad619 5db028a23
Time Service	Habanero.Shared.dll	DLL	5450	3facd568fab2 e995c9f33f82 a2fb93c7
Time Service	Habanero.Util.dll	DLL	5450	91195d9af362 40bfb14e7830 43c9dc14

NOTE: The MD5 given is calculated on the binary files or executables submitted with the source code.

5. ADDITIONAL INFORMATION/OBSERVATIONS

- 5.1** All reports are based on Microsoft SQL Server Reporting Services and must be published to the relevant report service server. The reports may be branded to a specific bookmaker operator and therefore new signatures will need to be calculated. Branding of the report must be conducted under the supervision of the testing laboratory to ensure that the SQL queries are correct as they were tested during the initial certification.
- 5.2** The hosted environment and the website for betting purpose will need to be verified for all rules of betting, instructions, responsible gambling, complaint procedures, punter registration requirements for Gambling boards, punter registration requirements for FICA and gambling board branding during the installation of the licensed bookmaker operator.
- 5.3** The Mobile website betting was verified using standard mobile browsers, the verification of compatibility with various mobile handsets was not part of the scope and it is not covered by SANS 1718-4 standard.

6. COMMENTS

BMM has conducted a level of testing/evaluation which has historically been adequate for a submission of this type. Accordingly from the testing performed, BMM confirms that the item under test (unless otherwise stated) conforms to all the relevant South African Technical Requirements.

SANS1718-4:2008

Reference	Description	Pass / Fail / N/A	Exclusions of clauses (where applicable list clause number & Reason)
SANS1718-4:2008, Clause 4.1, 4.2, 4.3	General Requirements	Pass	Clause 4.1, 4.2, 4.3 Previously approved - ZT6487
SANS1718-4:2008, Clause 5	Operational Requirements	Pass	Clause 5.2 Previously approved - ZT6487

Reference	Description	Pass / Fail / N/A	Exclusions of clauses (where applicable list clause number & Reason)
SANS1718-4:2008, Clause 6.1, 6.2, 6.3, 6.4, 6.5, 6.6, 6.7, 6.8, 6.9, 6.10, 6.11, 6.12, 6.13, 6.14, 6.15, 6.16	Software Requirements	Pass	Clause 6.1.1, 6.1.2, 6.1.3, 6.1.7, 6.4, 6.6, 6.7, 6.8.1, 6.8.2, 6.8.3, 6.8.5, 6.8.6, 6.9, 6.10, 6.11, 6.12, 6.13, 6.14, 6.15, 6.16 Previously approved - ZT6487
SANS1718-4:2008, Clause 7.1, 7.2, 7.3, 7.4, 7.5	Significant Events	Pass	Clause 7.1, 7.2, 7.3, 7.4, 7.5 Previously approved - ZT6487
SANS1718-4:2008 Annex A	PLA Reports	Pass	Clause A.1a, A.1b, A.1e to A.1u Previously approved - ZT6487
SANS1718-4:2008 Annex B	Additional Requirements for Systems that include extended communication	N/A	Annex B Not applicable
SANS1718-4:2008 Annex C	Change Control & Upgrade Management	N/A	Annex C Not applicable

Yours sincerely,



Alpheus Matsebula
Technical Services Manager

Annexure A – significant events codes

Significant Event code	Significant Description
7501	Operator Log-on
7502	Operator Log-off
7503	Operator Log-on Failure - 3 Attempts
7504	Player Log-on
7505	Player Log-off
7506	Player Log-on Failure - 3 Attempts
7507	Ticket Number Duplication
7508	Irregular Ticket Number Sequence

7509	Time and Date Inconsistency
7510	Cancelled Bet
7511	Event Start Time Changed
7512	Late Bet
7513	No More Bets Command
7514	Event Deleted
7515	Book Re-opened
7516	Operator Changed Password
7517	Player Changed Password
7518	Provisional Result Changed
7519	Time Synchronized
7520	File Check Failed on Application Start Up
7521	Event Comment Changed
7522	Bet Type Parameter Changed
7523	Increase Decrease Limits
8001	Editing mandatory ticket or voucher fields

Annexure B – Web reports signatures

Report File Name	MD5
SANS 1718 A.1 a) Multiple Bets.rdl.rss	278fe4506955de499f9dbdfa4a5c180e
SANS 1718 A.1 b) Cancelled Bets.rdl.rss	0e711ce402ff17d1a7cbe2841b9f66fd
SANS 1718 A.1 c) Field Sheet.rdl.rss	0a64f944a75d3997f499dbbb819084dc
SANS 1718 A.1 e) Reconciliation.rdl.rss	14b7976327ef8faf70836fff95f6c520
SANS 1718 A.1 f) and g) Period Balance.rdl.rss	e8b3442d00e2b600158e5d77c44d6ee1
SANS 1718 A.1 h) Customer Bet History.rdl.rss	fc868921db42c24fc1c1a286ac0c5942
SANS 1718 A.1 h) Customer Statement.rdl.rss	8432a53395160d1bb75f201bb8a3dbe5
SANS 1718 A.1 i) Bookmaker Bets.rdl.rss	a148b5dc72bd71c5986566e35fbbdc26
SANS 1718 A.1 j) Tax Report - Horse Racing.rdl.rss	7b21c8c956fcd6ef375edb4aa3575e06
SANS 1718 A.1 j) Tax Report - Sports.rdl.rss	c02d2b4bf2e7f291c0723cf98b7a751d
SANS 1718 A.1 k) Journal Entries.rdl.rss	32f9bff6385b3b9821367616b2716a00
SANS 1718 A.1 m) Event Report.rdl.rss	49f8079f52d6e2b70b1b7791412388df
SANS 1718 A.1 n) All Bets.rdl.rss	b57e42d633f3cbae013e9e2d3c07f62f
SANS 1718 A.1 o) User Transactions.rdl.rss	7dd9e842f2af0b0d8d91037c61c818a6
SANS 1718 A.1 p) Late Bets.rdl.rss	90b29793a8dbb5da50771a3b8ef54369
SANS 1718 A.1 q) Unclaimed Tickets Report.rdl.rss	fbb11f71cbb2253d9a3e126d18c15432
SANS 1718 A.1 r) FICA Report.rdl.rss	c17cafd01512769086380abd5f21367c
SANS 1718 A.1 s) Age Analysis.rdl.rss	d5da4c55ee8c607310f22ae4e33b7f52
SANS 1718 A.1 t) Customer Strike Rate.rdl.rss	bffdccf18df13868b9eda307007d7f58
SANS 1718 A.1 u) Stake Variance.rdl.rss	56f55852e018151c8eb7278ea8cb2b20
SANS 1718 A1 a) Multiple Bets.rdl	67fb3abef390964fc790e36e1e3ec160
SANS 1718 A1 b) Cancelled Bets.rdl	bbb8787cf80bcc3c480aca2f2e9a529c
SANS 1718 A1 c) Field Sheet.rdl	17bf33111282bd1e3371eba9e3545451
SANS 1718 A1 e) Reconciliation.rdl	ee8682ba8f0a0d5a801c85ffe303ba01
SANS 1718 A1 f) and g) Period Balance.rdl	1743d80f65fac6468f2c03cf0252a83b

Report File Name	MD5
SANS 1718 A1 h) Customer Bet History.rdl	a5b0b266ce0cde2902d5769960390dad
SANS 1718 A1 h) Customer Statement.rdl	a77ee4511a7aa0ee274cd9ac5158d8d4
SANS 1718 A1 i) Bookmaker Bets.rdl	d912ae91c86a22be60f7edbb464f5c34
SANS 1718 A1 j) Tax Report - Horse Racing.rdl	c060c8e00e71fddec035b02e790da910
SANS 1718 A1 j) Tax Report - Sports.rdl	676e9a86a121d884b8ceee769438cb73
SANS 1718 A1 k) Journal Entries.rdl	c336ceb7d059b1146b9d7e1465059c55
SANS 1718 A1 m) Event Report.rdl	3c919641a4d72c2f7a3c941e070a3195
SANS 1718 A1 n) All Bets.rdl	bc32f7577bcd9032507d685f18054267
SANS 1718 A1 o) User Transactions.rdl	b439114febeaf7dab7df4d3753a4dc38
SANS 1718 A1 p) Late Bets.rdl	53d43213008afcfde9b248d713f4a4bb
SANS 1718 A1 q) Unclaimed Tickets Report.rdl	4b9387157c8d5e550f3ad2e8f2ebd3b4
SANS 1718 A1 r) FICA Report.rdl	d26646caf8bec7291ab1428dfc363b20
SANS 1718 A1 s) Age Analysis.rdl	58005eafd8c6d526e0f595b8a5f3e404
SANS 1718 A1 t) Customer Strike Rate.rdl	3c77e130ee571ea7d4a90b84850aa76f
SANS 1718 A1 u) Stake Variance.rdl	566177cf567de5e66781189b3f42f404
SportsBet.fldr.rss	561320968abe81ca7725dfdee2b54897
SANS - Other/Daily Period Balance Punter.rdl	a9d5a960248a266069737d196b4ed40b
SANS - Other/Daily Period Balance Punter.rdl.rss	d878b03a1be5ba62108f0604c09bf414
SANS - Other/Open Bets.rdl	0e5124f1a44e15e6a20e0c807e689e5e
SANS - Other/Open Bets.rdl.rss	a79c1c8277d59261d315316d0476759b
SANS - Other/Operator Login and Logout.rdl	7708e22f97561892233e3712bb007bce
SANS - Other/Operator Login and Logout.rdl.rss	f1233cada85bb441f55d7205c4fc15f4
SANS - Other/Operator Permission Changes.rdl	d6d2c3ffa0e7113853a68f93db3b93e7
SANS - Other/Operator Permission Changes.rdl.rss	8fec53c758ec8a09267fa2d4902f671a
SANS - Other/Operators and Permissions.rdl	c5fdda95839546d88a71d40394bed387
SANS - Other/Operators and Permissions.rdl.rss	3ebba0535f89ad8ce79913aced802d3c
SANS - Other/Operators List.rdl	3950c7ce554a9188ec8ae5c6e589ddc3
SANS - Other/Operators List.rdl.rss	85d870f82cc65287f44a89b664911ffe
SANS - Other/Role Permissions.rdl	6463114b7d447716898ef349c0e42e20
SANS - Other/Role Permissions.rdl.rss	d66039ef17f5d4ffcf225aec6b353bd9
SANS - Other/SANS - Other.fldr.rss	2ae07b246906c2e039a933a74a1ee94e
SANS - Other/Significant Events.rdl	a06116e79029b0a4a97c0a0d6ed9d672
SANS - Other/Significant Events.rdl.rss	e034ee7ce64e9e6734446f44efb21748
Custom/Custom.fldr.rss	0b4d34e5d4843efd6cda0b5e7caf69e8
Custom/Kingo Stats.rdl	4b692debd0e155325ac2d2af54e88b03
Custom/Kingo Stats.rdl.rss	9e0efff724697eb2f7e6e658cd20c1ac