Bed Management Solution (BMS)

Technical Manual



January 2020

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1 Introduction

1.1 Purpose

This document is designed to provide sufficient technical information about the Bed Management Solution (BMS) application to the developers and Information Resources Management (IRM) technical personnel to operate and maintain the software.

1.2 BMS Overview

BMS is a real-time, user-friendly Web-based Veterans Health Information Systems and Technology Architecture (VistA) interface for tracking patient movement, bed status and bed availability. It provides performance information that can be used to improve patient flow within, and between, VA Medical Centers (VAMCs).

BMS allows administrative and clinical staff to record, manage and report on the planning, patientmovement, patient occupancy, and other activities related to management of beds. All patient admission, discharge, and transfer movements are sent directly from VistA to BMS.

BMS offers the following features:

- Tracks patient movement through the system;
- Displays patient and bed occupancy status for all beds in the facility and/or Veterans Integrated ٠ Service Networks (VISN):
- Provides visibility of bed availability within VAMC's to support emergency management;
- Automates request and assignment of beds;
- Displays and facilitates timely discharge appointments; •
- Supports and facilitates efficient flow operations and is a catalyst to process improvement and best practices;
- Provides reports on performance measures associated with bed management and patient flow. ٠

BMS provides answers to the following questions:

- How many beds do we have?
- How many empty beds do we have?
- How many available female beds do we have? •
- How many beds are out of service and why? •
- How long does it take to clean a bed? •
- How many patients are waiting for beds in community hospitals? •
- How many admissions, transfers, and discharges did my unit have yesterday?
- How many discharges will we have tomorrow?
- How many scheduled admissions do we have for today?

1.3 References

Requirements Specification Document (CLIN: 0002AA; title: Requirements Specification Document; file: Bed Management Solution (BMS) Technical Manual 11 January 2020 Init8_BMS_RSD)

System Design Document; file: BMS_SDD)

2 Implementation and Maintenance

2.1 BMS Infrastructure Diagram

The BMS application has a list of physical components that can be divided on more physical servers according with their roles.

The following diagram represents a possible schema of physical deployment.



Figure 1-BMS Infrastructure Diagram

BMS is divided into specific components:

- 1. Persistence layer: SQL Server 2016 Enterprise database
- 2. Application server layer: Windows Communication Foundation (WCF) Web Services installed as Windows Services
- 3. Web server layer: Active Server Pages (ASP) .NET Model-View-Controller (MVC) Web application hosted in Internet Information Services (IIS)
- 4. Data Exchange Servers:
 - a. National Utilization Management Integration (NUMI) SQL Server Database
 - b. VistA integration servers (servers that have access to VistA)

Bed Management Solution (BMS) Technical Manual 5. Client Layer: Web Application client launched from browsers

2.2 System Requirements (Hardware and Software)

BMS requires the creation of a Master Windows Service Account User and numerous facility/Site Service Account Users for execution and operations.

All the BMS Application Services run under a service account.

- AITC has created the Windows User (acc\VAAACBMSPrd) as the master service account that the four BMS Services runs under. This can be referred to as the Master BMS Service Account.
- The <SERVERADDRESS>210 server hosts the three application services:
 - BMS.BedManagerService
 - BMS.SecurityHost
 - BMS.ServiceHost
- The <ServerAddress>211 server hosts the two application services:
 - BMS.VI.ServiceHost.
 - BMS.ServiceHost

All BMS Facilities/Sites require at least one service account for certain site functionality.

- This service account will run the EMS Mobile Page and Whiteboard Kiosk Page functions.
- Under BMS version 1.xx a single service account can be used for both functions.
- The service account that runs the EMS Mobile Page and Whiteboard Kiosk Page functions must not have any Policies assigned that restrict its use to specific computers.

BMS minimum hardware and software requirements are presented below:

Table 1-Server for Web Applications

Basic software:	Microsoft Windows Server 2012 64 bit R2 Standard Microsoft Clustering Services 2008 IIS 7.5 ASP.NET MVC5 .NET Framework 4.6.1
Application software:	Dashboards web application
Processor(s):	16 x Intel Xeon E5520 or equivalent
Memory:	32 GB
Hard disks:	190 GB
Network controller:	Broadcom NetXtreme Gigabit Ethernet, or equivalent

Table 2-Application Server

Server 1		
Basic software:	Microsoft Windows Server 2012 64 bit R2 Standard .NET Framework 4.6.1	
Application software:	EIS, EVS, DS, BMS InFlow	

Processor(s):	14 x Intel Xeon E5520 or equivalent	
Memory:	65 GB	
Hard disks:	190 GB	
Network controller:	Broadcom NetXtreme Gigabit Ethernet, or equivalent	
Server 2		
Basic software:	Microsoft Windows Server 2012 64 bit R2 Standard .NET Framework 4.6.1	
Application software:	EIS, EVS, DS, BMS InFlow	
Processor(s):	12 x Intel Xeon E5520 or equivalent	
Memory:	65 GB	
Hard disks:	210 GB	
Network controller:	Broadcom NetXtreme Gigabit Ethernet, or equivalent	

Table 3-Database Server

Basic software:	Microsoft Windows Server 2012 64 bit R2 Standard Microsoft SQL Server 2016 Enterprise .NET Framework 4.6.1
Application software:	Databases used by the services installed on APP
Processor(s):	32 x Intel Xeon E5520 or equivalent
Memory:	136 GB
Hard disks:	1500 GB
Network controller:	Broadcom NetXtreme Gigabit Ethernet, or equivalent

2.3 Configuration Parameters

This section describes configuration parameters of the BMS application.

Table 4-BMS ServiceHost Configuration Parameters

Section	Configuration Key/Name	Configuration values (ex.)			Des cript ion
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c	BMS.ServiceHost.config	
configSections	mtmodules	type="ePractice.MiddleTier.MTModuleSec	tionHandler, MiddleTier"		
	enterpriselibrary.configurat ionSettings	type="ePractice.Configuration.Configuratic	onManagerSectionHandler, MS.Co	nfiguration"	
	pagingSortGroup	type="BMS.Utils.PagingSortSection, BMS. allowExeDefinition="MachineToApplication	type="BMS.Utils.PagingSortSection, BMS.Utils" allowDefinition="Everywhere" allowExeDefinition="MachineToApplication" restartOnExternalChanges="true"		
	log4net	type="log4net.Config.Log4NetConfiguratio	nSectionHandler,log4net"		
connectionStrin gs	Authorization	connectionString="Data Source= <databaseaddress>;Network Library=DBMSSOCN;Initial Catalog=BMS;Persist Security Info=False;Integrated Security=SSPI;Pooling=true;Min Pool Size=0;Max Pool Size=250;"</databaseaddress>	connectionString="Data Source= <databaseaddress> ;Network Library=DBMSSOCN;Initial Catalog=BMS;Persist Security Info=False;Integrated Security=SSPI;Pooling=true; Min Pool Size=0;Max Pool Size=250;"</databaseaddress>	connectionString="Data Source= <databaseaddres s>;Initial Catalog=BMS;Persist Security Info=False;Integrated Security=SSPI;Pooling=tru e;Min Pool Size=0;Max Pool Size=100;"</databaseaddres 	Con necti on strin g for the conn ectio n to the BMS data base
appSettings	DatasetPath	value="DBRepository"			
	LocalServer	value="yes"			
	UseSecurityContext	value="1"			Secu rity - Auth oriza tion
	ePractice.MiddleTier.Trans action	value="MiddleTier.dll"			
	ConnectionRef	value="1"			

Section	Configuration Key/Name	Configuration values (ex.)			Des cript ion
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config	
	TransactionProvider	value="ePractice.MiddleTier.CustomTransaction	onProvider"		
	VistaWorker.WorkerDelay TimeSpan	value="0:0:0:30"			Dela y time from servi ce start to first proc essin
					g
	VistaWorker.WorkerPeriod TimeSpan	value="0:0:0:15"			Perio d betw een work er proc essin g step s
	VistaWorker.BulkSize	value="100"			Maxi mum ber of proc esse d entiti es in one step
	VistaWorker.Enabled	N/A (No longer used)			Whet her vista

Section	Configuration Key/Name	Configuration values (ex.)			Des cript ion
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config	
					work er is enab led or not (true or false
	VistaIntegration.Enabled	value="false"	value="true"	value="true") Whet her vista integ ratio n is enab led or not (true or false
	VistaIntegration.Scheduler SecondsLate	value="30"		1	The time dela y of sche duler s
	VistaIntegration.UpdateBm sPatients	value="true"			Whet her upda te bms patie nts is enab

Section	Configuration Key/Name	Configuration values (ex.)			Des cript ion	
		Split Service		Combine Service		
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c	BMS.ServiceHost.config		
					led or not (true or false	
	SmtpHost	value="smtp.va.gov"	value="smtp.va.gov"	value="localhost") smtp host	
	VistaWorker.VistASitesFile Path	value="VistASites.xml"			The vista sites confi gurat ion file nam e	
	VistasBedHoldSupported	N/A			List of vista sites that supp ort bed hold.	
	visitorAppPwd	value="UM"			Pass word used by MD WS to conn ect to VistA	

Section	Configuration Key/Name	Name Configuration values (ex.)			Des cript ion
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c	BMS.ServiceHost.config	
	visitorUserSiteCode	value="523"			User Site Cod e used by MD WS to conn ect to VistA
	visitorUserName	< visitorUserName >			User Nam e used by MD WS to conn ect to VistA
	visitorUserDuz	value=" <visitoruserduz>"</visitoruserduz>			User Duz used by MD WS to conn ect to VistA

Section	Configuration Key/Name	Configuration values (ex.)			Des cript ion
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config	
	visitorUserSsn	value=" <visitoruserssn>"</visitoruserssn>			User SSN used by MD WS to conn ect to VistA
	visitorContext	value=" <visitorcontext>"</visitorcontext>			Cont ext used by MD WS to conn ect to VistA
	UsingNewMdwsMethods	value="true"			Whet her use new mdw s meth ods for vista integ ratio n (true or

Section	Configuration Key/Name Configuration values (ex.)			Des cript ion	
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config	
					false)
	BMS_EIS_GET_ENTITY_ FILTR_PAGE_SIZE	value="1000"			Num ber of recor ds queri ed that are brou ght from EIS in one page
	BMS_EVS_GET_CONCE PT_PAGE_SIZE	value="1000"			Num ber of recor ds queri ed that are brou ght from EVS in one page
	Changeset	value="72898"			Cha nges et of

Section	Configuration Key/Name	Configuration Key/Name Configuration values (ex.)			Des cript ion	
		Split Service			Combine Service	
		BMS.ServiceHost.config		BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config	
						the instal led build
	NumiSvcAuthenticationKe y	value=" <numisvcauthenticationke< td=""><td>y > "</td><td></td><td></td><td>NUM I servi ce auth entic ation key.</td></numisvcauthenticationke<>	y > "			NUM I servi ce auth entic ation key.
	NumiMaxNumberOfSitesP erCall	value="5"				Maxi mum num ber of sites that NUM I proc esse s in one call.
	Is_IIS_Single_Instance	value="true"				Whet her use SSL endp oint from confi gurat ion file. (true

Section	Configuration Key/Name	ame Configuration values (ex.)			Des cript ion	
		Split Service		Combine Service		
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe onfig	c BMS.ServiceHost.config		
					or false)	
	UseCacheEndpointFromC onfigWithSsI	value="true"			Whet her use SSL endp oint from confi gurat ion file.	
	ProxyPoolMaxCount	value="1000"	value="50"	value="1000"	The maxi mum num ber of proxi es in the pool	
	VistaIntegrationJobFailed MaxCount	value="25"	<add key="MdwsEndpointUrl_DF T" value="http://vaausbmswef 6:87/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_R7 value="http://vaausbmswef 6:88/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_R2 value="http://vaausbmswef 6:89/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_R3</add </add </add </add 	value="http://localhost:82/ QuerySvc.asmx" value="http://localhost:82/ 2 QuerySvc.asmx"	MD WS insta nce URL addr ess.	

Section Configuration Key/Name		Configuration values (ex.)			Des cript ion	
		Split Service		Combine Service		
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config		
			value="http://vaausbmsweb2 6:90/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_R4" value="http://vaausbmsweb2 6:91/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_V1" value="http://vaausbmsweb2 6:92/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_V2" value="http://vaausbmsweb2 6:93/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_V3" value="http://vaausbmsweb2 6:94/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_V4" value="http://vaausbmsweb2 6:95/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_V5" value="http://vaausbmsweb2 6:96/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_V6" value="http://vaausbmsweb2 6:97/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_V7" value="http://vaausbmsweb2 6:98/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_V7" value="http://vaausbmsweb2 6:98/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_V8" value="http://vaausbmsweb2 6:98/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_V8" value="http://vaausbmsweb2 6:98/QuerySvc.asmx"/> <add< td=""><td></td><td></td></add<></add </add </add </add </add </add </add </add </add </add </add 			

Section	Configuration Key/Name	Configuration values (ex.)			Des cript ion
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config	
			key="MdwsEndpointUrl_V9"value="http://vaausbmsweb26:100/QuerySvc.asmx"/> <add< td="">key="MdwsEndpointUrl_V10"value="http://vaausbmsweb26:101/QuerySvc.asmx"/><add< td="">key="MdwsEndpointUrl_V11"value="http://vaausbmsweb26:102/QuerySvc.asmx"/><add< td="">key="MdwsEndpointUrl_V12"value="http://vaausbmsweb26:103/QuerySvc.asmx"/><add< td="">key="MdwsEndpointUrl_V13"value="http://vaausbmsweb26:103/QuerySvc.asmx"/><add< td="">key="MdwsEndpointUrl_V14"value="http://vaausbmsweb26:104/QuerySvc.asmx"/><add< td="">key="MdwsEndpointUrl_V14"value="http://vaausbmsweb26:105/QuerySvc.asmx"/><add< td="">key="MdwsEndpointUrl_V15"value="http://vaausbmsweb26:106/QuerySvc.asmx"/><add< td="">key="MdwsEndpointUrl_V16"value="http://vaausbmsweb26:107/QuerySvc.asmx"/><add< td="">key="MdwsEndpointUrl_V17"value="http://vaausbmsweb26:107/QuerySvc.asmx"/><add< td="">key="MdwsEndpointUrl_V17"value="http://vaausbmsweb26:108/QuerySvc.asmx"/><add< td="">key="MdwsEndpointUrl_V18"value="http://vaausbmsweb26:108/QuerySvc.asmx"/><add< td="">key="MdwsEndpointUrl_V18"value="http://vaausbmsweb26:109/QuerySvc.asmx"/></add<></add<></add<></add<></add<></add<></add<></add<></add<></add<></add<></add<>		

Section	Configuration Key/Name	Configuration values (ex.)			Des cript ion
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config	
			<pre><add key="MdwsEndpointUrl_V19" value="http://vaausbmsweb2 6:110/QuerySvc.asmx"></add> <add key="MdwsEndpointUrl_V20" value="http://vaausbmsweb2 6:111/QuerySvc.asmx"></add> <add key="MdwsEndpointUrl_V21" value="http://vaausbmsweb2 6:112/QuerySvc.asmx"></add> <add key="MdwsEndpointUrl_V22" value="http://vaausbmsweb2 6:113/QuerySvc.asmx"></add> <add key="MdwsEndpointUrl_V23" value="http://vaausbmsweb2 6:114/QuerySvc.asmx"></add> <add key="MdwsEndpointUrl_V23" value="http://vaausbmsweb2 6:114/QuerySvc.asmx"></add> <add key="MdwsEndpointUrl_L23" value="http://vaausbmsweb2 6:114/QuerySvc.asmx"></add> <add key="MdwsEndpointUrl_L23" value="http://vaausbmsweb2 6:114/QuerySvc.asmx"></add> <add "="" key="MdwsEndpointUrl_LAS" value="http://vaausbmsweb2 6:115/QuerySvc.asmx"></add> <add "="" key="MdwsEndpointUrl_LAS" value="http://vaausbmsweb2 6:116/QuerySvc.asmx"></add> <add "="" key="MdwsEndpointUrl_LOM" value="http://vaausbmsweb2 6:117/QuerySvc.asmx"></add> <add "="" key="MdwsEndpointUrl_LON" value="http://vaausbmsweb2 6:117/QuerySvc.asmx"></add> <td></td><td></td></pre>		

Section	Configuration Key/Name	Configuration values (ex.)			Des cript ion
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config	
			6:118/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_SDC " value="http://vaausbmsweb2 6:119/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_KAN " value="http://vaausbmsweb2 6:120/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_STL " value="http://vaausbmsweb2 6:121/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_NFL " value="http://vaausbmsweb2 6:122/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_WP B" value="http://vaausbmsweb2 6:123/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_MP B" value="http://vaausbmsweb2 6:124/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_BAY " value="http://vaausbmsweb2 6:124/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_MIA" value="http://vaausbmsweb2 6:125/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_ORL</add </add </add </add </add </add </add </add </add 		

Section	Configuration Key/Name	Configuration values (ex.)			Des cript ion
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config	
			6:126/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_SAJ " value="http://vaausbmsweb2 6:127/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_TAM " value="http://vaausbmsweb2 6:128/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_RSV 1" value="http://vaausbmsweb2 7:87/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_RSV 2" value="http://vaausbmsweb2 7:88/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_RSV 3" value="http://vaausbmsweb2 7:89/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_RSV 3" value="http://vaausbmsweb2 7:90/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_RSV 4" value="http://vaausbmsweb2 7:90/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_RSV 5" value="http://vaausbmsweb2 7:91/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_RSV 5"</add </add </add </add </add </add </add </add </add 		

Section	Configuration Key/Name	e Configuration values (ex.)			Des cript ion
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config	
			value="http://vausbmsweb2 7:92/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_RSV 7" value="http://vausbmsweb2 7:93/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_RSV 8" value="http://vausbmsweb2 7:94/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_RSV 9" value="http://vausbmsweb2 7:95/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_RSV 10" value="http://vausbmsweb2 7:96/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_RSV 11" value="http://vausbmsweb2 7:97/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_RSV 11" value="http://vausbmsweb2 7:98/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_RSV 12" value="http://vausbmsweb2 7:98/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_RSV 13" value="http://vausbmsweb2 7:99/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_RSV 13"</add </add </add </add </add </add </add </add </add 		

Section	Configuration Key/Name	Configuration values (ex.)			Des cript ion
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config	
			14" value="http://vaausbmsweb2 7:100/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_RSV 14" value="http://vaausbmsweb2 7:101/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_RSV 15" value="http://vaausbmsweb2 7:102/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_RSV 16" value="http://vaausbmsweb2 7:103/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_RSV 17" value="http://vaausbmsweb2 7:104/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_RSV 18" value="http://vaausbmsweb2 7:105/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_RSV 18" value="http://vaausbmsweb2 7:106/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_RSV 19" value="http://vaausbmsweb2 7:106/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_RSV 20" value="http://vaausbmsweb2 7:107/QuerySvc.asmx"/> <add< td=""><td></td><td></td></add<></add </add </add </add </add </add </add </add 		

Section	Configuration Key/Name	Configuration values (ex.)			Des cript ion
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config	
			key="MdwsEndpointUrl_RSV 21"value="http://vaausbmsweb2 7:108/QuerySvc.asmx"/> <add </add key="MdwsEndpointUrl_RSV 22"value="http://vaausbmsweb2 7:109/QuerySvc.asmx"/> <add </add key="MdwsEndpointUrl_RSV 23"value="http://vaausbmsweb2 7:110/QuerySvc.asmx"/> <add </add key="MdwsEndpointUrl_RSV 		

Section	Configuration Key/Name	Configuration values (ex.)			Des cript ion
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config	
			<add key="MdwsEndpointUrl_LAS 27" value="http://vaausbmsweb2 7:116/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_LOM 27" value="http://vaausbmsweb2 7:117/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_LON 27" value="http://vaausbmsweb2 7:118/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_SDC 27" value="http://vaausbmsweb2 7:119/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_KAN 27" value="http://vaausbmsweb2 7:120/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_STL 27" value="http://vaausbmsweb2 7:121/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_NFL 27" value="http://vaausbmsweb2 7:122/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_NFL 27" value="http://vaausbmsweb2 7:122/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_NFL 27" value="http://vaausbmsweb2 7:122/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_WP B27" value="http://vaausbmsweb2</add </add </add </add </add </add </add </add </add </add 		

Section	Configuration Key/Name	Configuration values (ex.)			Des cript ion
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config	
	VistaIntegration.lobEailed	value="10"	7:123/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_BAY 27" value="http://vaausbmsweb2 7:124/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_MIA 27" value="http://vaausbmsweb2 7:125/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_ORL 27" value="http://vaausbmsweb2 7:126/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_SAJ 27" value="http://vaausbmsweb2 7:127/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_TAM 27" value="http://vaausbmsweb2 7:128/QuerySvc.asmx"/></add </add </add </add </add 		The
	ncrementDateMinutes				maxi mum num ber of job failur es until the syste m

Section	Configuration Key/Name	Configuration values (ex.)			Des cript ion
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c	BMS.ServiceHost.config	
					deci des to retry.
	VistaIntegrationJobFailedN otificationEmailTo				The time span (min utes) that the syste m deci des to incre ment job's start date whe n the thres hold of job failur es is reac
	VistaIntegrationJobFailedN otificationEmailFrom	value="BMSBackgroundProcessorAgent@ va.gov"			Reci pient 's emai I used
					whe n a

Section	Configuration Key/Name	Configuration values (ex.)			Des cript ion
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config	
					job fails. (va_ pers on@ va.g ov)
	BMS_EIS_LongRunningM ethodsMaxConcurrentCall s	value="100"			Send er's emai I used whe n a job fails.
	BMS_EVS_LongRunning MethodsMaxConcurrentCa	value="100"	value="75"	value="75"	
	BMSServiceHostStartType	value="BMS"	value="100"	value="50"	
	VistaIntegration.TaskSche dulerDelayMin	value="0"	value="BMS.VI"	value="ALL"	Ident ifies how BMS is ran and the assc oiate confi gurat ion file. (pos sible yalu

Section	Configuration Key/Name	Configuration values (ex.)			Des cript ion	
		Split Service		Combine Service		
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config		
					es: ALL, BMS ,	
					BMS .VI)	
	VistaIntegration.TaskSche dulerDelayMax	value="10"	value="0"	value="0"	,	
	VistaIntegration.TaskSche dulerDelayStep	value="5"	value="10"	value="10"		
	ThreadPoolMaxWorkerThr eads		value="5"	value="5"		
	VistaIntegration.PatientMo vementIenDays			value="200"		
	ViaEndpointUrl		value="60"	value="60"		
	ViaRequestingApp		value="https://REDACTED.vi a. va.gov/via- webservices/services/Backgr oundProcessService"	value="https://REDACTED .vi a.va.gov/via- webservices/services/Back groundProcessService"	URL for VIA	
	ViaAppToken		value="BMSBatch"	value="BMSBatch"		
	ViaAppPassword		value="BMSB_ID577"	value="BMSB_ID577"		
	MinimumFilemanDate		value="****"	Value="****"		
			Value="01/01/1992"	Value="01/01/1992"		
	sortColumnCode="entered	sortColumnName="[A].[CREATION_DATE]				
pagingSortGrou	sortColumnCode="patient"	sortColumnName="[PAT].[LAST_NAME], [PA	AT].[FIRST_NAME]"			
p\pagingSort	sortColumnCode="facility"	sortColumnName="[F].[NAME]"				
	sortColumnCode="request dt"	sortColumnName="[A].[CREATION_DATE]"				
	sortColumnCode="specialt y"	sortColumnName="[REQSP].[DISPLAY_NAM	ME]"			
	sortColumnCode="visn"	sortColumnName="[TR].[FACILITY_VISN]				
	sortColumnCode="region"	sortColumnName="[TR].[FACILITY_REGION	٧]"			
	sortColumnCode="eventdt	sortColumnName="[AEVN].[CREATION_DATE]"				
Section	Configuration Key/Name	Configuration values (ex.)			Des cript ion	
---	---	--	--	--	---------------------	--
		Split Service		Combine Service		
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config		
	"			•		
	sortColumnCode="Vacate dDate"	sortColumnCode="VacatedDate"	sortColumnCode="VacatedDate"			
	sortColumnCode="transfer eventdt"	ortColumnName="[A].[CREATION_DATE]"				
	sortColumnCode="transfer requestdt"	sortColumnName="[TR].[REQUESTED_DATE	prtColumnName="[TR].[REQUESTED_DATE]"			
	assembly="General.MT.dll "	servername=""				
mtmodules [defaultserver="	assembly="BMS.MT.dll"	ervername=""				
1	configurationSections\confi gurationSection xsi:type="ReadOnlyConfig urationSectionData" name="securityConfigurati on" encrypt="false"	storageProvider xsi:type="XmlFileStorageProviderData" name="XML File Storage Provider" path="securityConfiguration.config"				
enterpriselibrar y.configuration Settings xmlns:xsd="htt p://www.w3.org/ 2001/XMLSche ma" xmlns:xsi="http ://www.w3.org/2 001/XMLSchem a-instance" applicationNam e="HMSI" xmlns="http://w ww.microsoft.c om/practices/en terpriselibrary/0	configurationSections\confi gurationSection xsi:type="ReadOnlyConfig urationSectionData" name="securityConfigurati on" encrypt="false" configurationSections\confi gurationSection xsi:type="ReadOnlyConfig urationSectionData" name="cachingConfigurati on" encrypt="false"	<pre><datatransformer hmuseraccessa<br="" xsi:type="XmlSerialized
<includeTypes>
<includeType name=">type="ePractice.Security.HMUserAccess.Confi Security.HMUserAccess"/> <includetype epractice.security.hmuseraccess.confi<br="" name="HMUserAccessA
type=">Security.HMUserAccess"/> <includetype epractice.security.hmuseraccessr<br="" name="HMUserAccessR
type=">type="ePractice.Security.HMUserAccess.Confi Security.HMUserAccess"/> <includetype epractice.security.null.configuration.nu<br="" name="NullAuthentication
type="><includetype epractice.security.null.configuration.nu<br="" name="NullAuthorization
type="></includetype></includetype></includetype></includetype></datatransformer></pre>	rTransformerData" name="Xm authenticationProviderData" guration.HMUserAccessAuther authorizationProviderData" guration.HMUserAccessAuthor RolesProviderData" guration.HMUserAccessRolesF onProviderData" ullAuthenticationProviderData, iProviderData" ullAuthorizationProviderData, S	I Serializer Transformer"> hticationProviderData, rizationProviderData, ProviderData, Security.Null"/>		

Section	Configuration Key/Name	Configuration values (ex.)			Des cript ion
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config	
8-31- 2004/configurati on"		storageProvider xsi:type="XmlFileStorageProviderData" name="XML File Storage path="cachingConfiguration.config"		brage Provider"	
	configurationSections\confi gurationSection xsi:type="ReadOnlyConfig urationSectionData" name="cachingConfigurati on" encrypt="false" configurationSections\confi gurationSection xsi:type="ReadOnlyConfig urationSectionData" name="connectionConfigu ration" encrypt="false"	<pre><datatransformer name="XML File Sto</th><th>I Serializer Transformer" xsi:type="XmlSerialized</th><th>rTransformerData"> prage Provider"</datatransformer></pre>	Cach ing confi gurat ion is for CLIE NT		

Section	Configuration Key/Name	Configuration values (ex.)			Des cript ion
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config	
	configurationSections\confi gurationSection xsi:type="ReadOnlyConfig urationSectionData" name="connectionConfigu ration" encrypt="false" keyAlgorithmStorageProvi der	\confi <datatransformer name="Xml Serialize</td> onfig <includeTypes> onfig <includeType name=" servicesdatabaseconnectionproviderdata"<="" td="" xsi:type="XmlSerializerTransformerData"> type="ePractice.Connection.SingleDatabase.Configuration.ServicesDatabaseConnection nfigu Connections.SingleDatabase, Version=1.0.0.0, Culture=neutral, PublicKeyToken=null". ?rovi</datatransformer>		Serializer Transformer"> eConnectionProviderData, ken=null"/>	Con necti on confi gurat ion is for SER VER
		xsi:nil="true"			
	application\channels\chan nel	type="System.Runtime.Remoting.Channels. Version=1.0.5000.0. Culture=neutral. Publick	Cp.TcpChannel, System.Runtim KevToken=b77a5c561934e089"	ne.Remoting, name="RegularChannel"	
system.runtime. remoting	connectionManagement\a dd	address="*" maxconnection="1000"			
system.net	service	name="BMS.ServiceImplementation.BedMar behaviorConfiguration="ServiceBehavior"	nagerOperationsCore"		
system.service Model\services	host\base\baseAddresses\ add	baseAddress="http:// <serveraddress>25:160</serveraddress>	050/BMSOperations"		
	endpoint	address="" bindingConfiguration="ServiceBinding" binding="wsFederationHttpBinding" contract="BMS.ServiceContracts.IBedMan agerOperations"	baseAddress="http:// <server Address>211:16050/BMSOp erations"</server 	baseAddress="http://localh ost:16050/BMSOperations"	
	endpoint	address="win" bindingConfiguration="WinBir contract="BMS.ServiceContracts.IBedManac	ding" binding="wsFederationHtt perOperations"	pBinding"	
	endpoint	contract="IMetadataExchange" binding="me	kHttpBinding" address="mex"		
	endpoint	address="unsec" binding="basicHttpBinding"	contract="BMS.ServiceContrac	ts.IBedManagerOperations"	
	service	name="BMS.ServiceImplementation.BedMar	nagerQueryCore" behaviorConfig	guration="ServiceBehavior"	

Section	Configuration Key/Name	Configuration values (ex.) Split Service			Des cript ion
				Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config	
	host\base\baseAddresses\ add	baseAddress="http:// <serveraddress>210:16050/BMSQuery"</serveraddress>			
	endpoint	address="" bindingConfiguration="ServiceBinding" binding="wsFederationHttpBinding" contract="BMS.ServiceContracts.IBedMan agerQuery"	baseAddress="http:// <server Address>211:16050/BMSQu ery"</server 	baseAddress="http://localh ost:16050/BMSQuery"	
	endpoint	address="win" bindingConfiguration="WinBin contract="BMS.ServiceContracts.IBedManage	ddress="win" bindingConfiguration="WinBinding" binding="wsFederationHttpBir ontract="BMS.ServiceContracts.IBedManagerQuerv"		
	endpoint	contract="IMetadataExchange" binding="mexHttpBinding" address="mex" address="unsec" binding="basicHttpBinding" contract="BMS.ServiceContracts. name="BMS.ServiceImplementation.BedManagerCacheCore" behaviorConfigu			
	endpoint			acts.IBedManagerQuery"	
	service			guration="ServiceBehavior"	
	host\base\baseAddresses\ add		_	-	
	endpoint		baseAddress="http:// <server Address>211:16050/BMSCa che"</server 	baseAddress="http://localh ost:16050/BMSCache"	
	endpoint		address="" bindingConfiguration="Servic eBinding" binding="wsFederationHttpBi nding" contract="BMS.ServiceContr acts.IBedManagerCache"	address="" bindingConfiguration="Serv iceBinding" binding="wsFederationHttp Binding" contract="BMS.ServiceCon tracts.IBedManagerCache"	
	endpoint		address="win" bindingConfiguration="WinBi nding" binding="wsFederationHttpBi nding" contract="BMS.ServiceContr acts.IBedManagerCache"	address="win" bindingConfiguration="Win Binding" binding="wsFederationHttp Binding" contract="BMS.ServiceCon tracts.IBedManagerCache"	

Section	Configuration Key/Name	Configuration values (ex.)			Des cript ion
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config	
	endpoint		contract="IMetadataExchang e" binding="mexHttpBinding" address="mex"	contract="IMetadataExcha nge" binding="mexHttpBinding" address="mex"	
	service	name="BMS.ServiceImplementation.Config urationOperationsCore" behaviorConfiguration="ServiceBehavior"	address="unsec" binding="basicHttpBinding" contract="BMS.ServiceContr acts.IBedManagerCache"	address="unsec" binding="basicHttpBinding" contract="BMS.ServiceCon tracts.IBedManagerCache"	
	host\base\baseAddresses\ add	baseAddress="http:// <serveraddress>210: 16050/BMSConfigurationOperations"</serveraddress>		name="BMS.ServiceImple mentation.ConfigurationOp erationsCore" behaviorConfiguration="Se rviceBehavior"	
	endpoint	address="" bindingConfiguration="ServiceBinding" binding="wsFederationHttpBinding" contract="BMS.ServiceContracts.IConfigur ationOperations"		baseAddress="http://localh ost:16050/BMSConfigurati onOperations"	
	endpoint	address="win" bindingConfiguration="WinBinding" binding="wsFederationHttpBinding" contract="BMS.ServiceContracts.IConfigur ationOperations"		address="" bindingConfiguration="Serv iceBinding" binding="wsFederationHttp Binding" contract="BMS.ServiceCon tracts.IConfigurationOperat ions"	

Section	ection Configuration Key/Name Configuration values (ex.)				Des cript ion	
		Split Service		Combine Service		
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config		
	endpoint	contract="IMetadataExchange" binding="mexHttpBinding" address="mex"		address="win" bindingConfiguration="Win Binding" binding="wsFederationHttp Binding" contract="BMS.ServiceCon tracts.IConfigurationOperat ions"		
	endpoint	address="unsec" binding="basicHttpBinding" contract="BMS.ServiceContracts.IConfigur ationOperations"		contract="IMetadataExcha nge" binding="mexHttpBinding" address="mex"		
	service	name="InfoWorld.Security.Authorization.Au thorizationSubscriber.AuthorizationSubscri ber" behaviorConfiguration="ServiceBehavior"		address="unsec" binding="basicHttpBinding" contract="BMS.ServiceCon tracts.IConfigurationOperat ions"		
	host\base\baseAddresses\ add	baseAddress="http:// <serveraddress>210: 16050/BMS/AuthorizationSubscriber"</serveraddress>		name="InfoWorld.Security. Authorization.Authorization Subscriber.AuthorizationSu bscriber" behaviorConfiguration="Se rviceBehavior"		
	endpoint	address="" binding="wsFederationHttpBinding" bindingConfiguration="WinBinding" contract="InfoWorld.Security.Authorization. AuthorizationSubscriber.IAuthorizationSub scriber"		baseAddress="http://localh ost:16050/BMS/Authorizati onSubscriber"		

Section	Configuration Key/Name	Configuration values (ex.)			Des cript ion
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config	
	service			address="" binding="wsFederationHttp Binding" bindingConfiguration="Win Binding" contract="InfoWorld.Securit y.Authorization.Authorizati onSubscriber.IAuthorizatio nSubscriber"	
	host\base\baseAddresses\ add		name="TransferFlow" behaviorConfiguration="Work flowService"	name="TransferFlow" behaviorConfiguration="W orkflowService"	
	endpoint		baseAddress="http:// <server Address>211:16050/Transfer WF"</server 	baseAddress="http://localh ost:16050/TransferWF"	
	endpoint		address="" bindingConfiguration="Servic eBinding" binding="wsFederationHttpBi nding" contract="BMS.Workflows.W F.ITransferFlow"	address="" bindingConfiguration="Serv iceBinding" binding="wsFederationHttp Binding" contract="BMS.Workflows. WF.ITransferFlow"	
	endpoint		address="win" bindingConfiguration="WinBi nding" binding="wsFederationHttpBi nding" contract="BMS.Workflows.W F.ITransferFlow"	address="win" bindingConfiguration="Win Binding" binding="wsFederationHttp Binding" contract="BMS.Workflows. WF.ITransferFlow"	
	endpoint		contract="IMetadataExchang e" binding="mexHttpBinding" address="mex"	contract="IMetadataExcha nge" binding="mexHttpBinding" address="mex"	

Section	Configuration Key/Name	Configuration values (ex.)			Des cript ion
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config	
	service		address="unsec" binding="basicHttpBinding" contract="BMS.Workflows.W F.ITransferFlow"	address="unsec" binding="basicHttpBinding" contract="BMS.Workflows. WF.ITransferFlow"	
	host\base\baseAddresses\ add		name="WaitingListFlow" behaviorConfiguration="Work flowService"	name="WaitingListFlow" behaviorConfiguration="W orkflowService"	
	endpoint		baseAddress="http:// <server Address>211:16050/Waiting ListWF"</server 	baseAddress="http://localh ost:16050/WaitingListWF"	
	endpoint		address="" bindingConfiguration="Servic eBinding" binding="wsFederationHttpBi nding" contract="BMS.Workflows.W F.IWaitingListFlow"	address="" bindingConfiguration="Serv iceBinding" binding="wsFederationHttp Binding" contract="BMS.Workflows. WF.IWaitingListFlow"	
	endpoint		address="win" bindingConfiguration="WinBi nding" binding="wsFederationHttpBi nding" contract="BMS.Workflows.W F.IWaitingListFlow"	address="win" bindingConfiguration="Win Binding" binding="wsFederationHttp Binding" contract="BMS.Workflows. WF.IWaitingListFlow"	
	endpoint		contract="IMetadataExchang e" binding="mexHttpBinding" address="mex"	contract="IMetadataExcha nge" binding="mexHttpBinding" address="mex"	

Section	Configuration Key/Name	Name Configuration values (ex.)			Des cript ion	
		Split Service		Combine Service		
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config		
	service		address="unsec" binding="basicHttpBinding" contract="BMS.Workflows.W F.IWaitingListFlow"	address="unsec" binding="basicHttpBinding" contract="BMS.Workflows. WF.IWaitingListFlow"		
	host\base\baseAddresses\ add		name="BedUnavailableFlow" behaviorConfiguration="Work flowService"	name="BedUnavailableFlo w" behaviorConfiguration="W orkflowService"		
	endpoint		baseAddress="http:// <server Address>211:16050/BedUna vailableWF"</server 	name="BedUnavailableFlo w" behaviorConfiguration="W orkflowService"		
	endpoint		address="" bindingConfiguration="Servic eBinding" binding="wsFederationHttpBi nding" contract="BMS.Workflows.W F.IBedUnavailableFlow"	address="" bindingConfiguration="Serv iceBinding" binding="wsFederationHttp Binding" contract="BMS.Workflows. WF.IBedUnavailableFlow"		
	endpoint		address="win" bindingConfiguration="WinBi nding" binding="wsFederationHttpBi nding" contract="BMS.Workflows.W F.IBedUnavailableFlow"	address="win" bindingConfiguration="Win Binding" binding="wsFederationHttp Binding" contract="BMS.Workflows. WF.IBedUnavailableFlow"		
	endpoint		contract="IMetadataExchang e" binding="mexHttpBinding" address="mex"	contract="IMetadataExcha nge" binding="mexHttpBinding" address="mex"		

Section	Configuration Key/Name	Configuration values (ex.) Split Service			Des cript ion
				Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config	
	service		address="unsec" binding="basicHttpBinding" contract="BMS.Workflows.W F.IBedUnavailableFlow"	address="unsec" binding="basicHttpBinding" contract="BMS.Workflows. WF.IBedUnavailableFlow"	
	host\base\baseAddresses\ add		name="BMS.ServiceImpleme ntation.VistaQueryCore" behaviorConfiguration="Serv ceBehavior"	e name="BMS.ServiceImple mentation.VistaQueryCore" i behaviorConfiguration="Se rviceBehavior"	
	endpoint		baseAddress="http:// <server Address>211:16050/VistaQu ery"</server 	baseAddress="http://localh ost:16050/VistaQuery"	
	endpoint		address="" bindingConfiguration="Servic eBinding" binding="wsFederationHttpB nding" contract="BMS.ServiceContr acts.IVistaWorkerQuery"	address="" bindingConfiguration="Serv iceBinding" binding="wsFederationHttp Binding" contract="BMS.ServiceCon tracts.IVistaWorkerQuery"	
	endpoint		address="win" bindingConfiguration="WinBi nding" binding="wsFederationHttpB nding" contract="BMS.ServiceContr acts.IVistaWorkerQuery"	address="win" bindingConfiguration="Win Binding" binding="wsFederationHttp Binding" contract="BMS.ServiceCon tracts.IVistaWorkerQuery"	
	endpoint		contract="IMetadataExchang e" binding="mexHttpBinding" address="mex"	contract="IMetadataExcha nge" binding="mexHttpBinding" address="mex"	

Section	Configuration Key/Name	Configuration values (ex.)			Des cript ion
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config	
	service		address="unsec" binding="basicHttpBinding" contract="BMS.ServiceContr acts.IVistaWorkerQuery"	address="unsec" binding="basicHttpBinding" contract="BMS.ServiceCon tracts.IVistaWorkerQuery"	
	host\base\baseAddresses\ add		name="BMS.VistaIntegration .HL7.ServiceImplementation. HL7OperationsCore" behaviorConfiguration="Basi cBindingBehavior"	name="BMS.VistaIntegrati on.HL7.ServiceImplementa tion.HL7OperationsCore" behaviorConfiguration="Ba sicBindingBehavior"	
	endpoint		baseAddress="http:// <server Address>211:16050/HL7Ope rations"</server 	baseAddress="http://localh ost:16050/HL7Operations"	
	bindings\basicHttpBinding		address="" bindingConfiguration="messa gingBinding" binding="basicHttpBinding" contract="BMS.VistaIntegrati on.HL7.ServiceContracts.IHL 7Operations"	address="" bindingConfiguration="mes sagingBinding" binding="basicHttpBinding" contract="BMS.VistaIntegr ation.HL7.ServiceContract s.IHL7Operations"	
	binding				
	binding		name="EVSBinding" maxReceivedMessageSize=" 2147483647" closeTimeout="00:10:00" openTimeout="00:10:00" receiveTimeout="00:15:00" sendTimeout="00:10:00"	name="EVSBinding" maxReceivedMessageSize ="2147483647" closeTimeout="00:10:00" openTimeout="00:10:00" receiveTimeout="00:15:00" sendTimeout="00:10:00"	

Section	Configuration Key/Name	Configuration values (ex.)		Configuration values (ex.)		ne Configuration values (ex.)			Des cript ion
		Split Service		Combine Service					
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config					
	readerQuotas		name="subscriptionBinding" maxBufferSize="2147483647 " maxReceivedMessageSize=" 2147483647" closeTimeout="00:10:00" openTimeout="00:15:00" sendTimeout="00:15:00" sendTimeout="00:10:00" name="messagingBinding" maxBufferSize="2147483647 " maxReceivedMessageSize="	name="subscriptionBinding " maxBufferSize="21474836 47" maxReceivedMessageSize ="2147483647" closeTimeout="00:10:00" openTimeout="00:10:00" receiveTimeout="00:15:00" sendTimeout="00:10:00" name="messagingBinding" maxBufferSize="21474836 47" maxReceivedMessageSize					
			2147483647" closeTimeout="00:10:00" openTimeout="00:10:00" receiveTimeout="00:15:00" sendTimeout="00:10:00"	="2147483647" closeTimeout="00:10:00" openTimeout="00:10:00" receiveTimeout="00:15:00" sendTimeout="00:10:00"					
	binding		maxDepth="2147483647" maxStringContentLength="2 147483647" maxArrayLength="21474836 47" maxBytesPerRead="214748 3647" maxNameTableCharCount=" 2147483647"	maxDepth="2147483647" maxStringContentLength=" 2147483647" maxArrayLength="2147483 647" maxBytesPerRead="21474 83647" maxNameTableCharCount ="2147483647"					

Section	Configuration Key/Name	Configuration values (ex.)			Des cript ion
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config	
	readerQuotas		name="QuerySvcSoap" closeTimeout="00:10:00" openTimeout="00:10:00" receiveTimeout="00:15:00" sendTimeout="00:15:00" allowCookies="false" bypassProxyOnLocal="false" hostNameComparisonMode= "StrongWildcard" maxBufferSize="2147483647 " maxReceivedMessageSize=" 2147483647" messageEncoding="Text" textEncoding="Utf-8" transferMode="Buffered" useDefaultWebProxy="true"	name="QuerySvcSoap" closeTimeout="00:10:00" openTimeout="00:10:00" receiveTimeout="00:15:00" sendTimeout="00:15:00" allowCookies="false" bypassProxyOnLocal="fals e" hostNameComparisonMod e="StrongWildcard" maxBufferSize="21474836 47" maxReceivedMessageSize ="2147483647" messageEncoding="Text" textEncoding="Utf-8" transferMode="Buffered" useDefaultWebProxy="true	
	security mode="None"		maxDepth="32" maxStringContentLength="2 147483647" maxArrayLength="21474836 47" maxBytesPerRead="214748 3647" maxNameTableCharCount=" 2147483647"	maxDepth="32" maxStringContentLength=" 2147483647" maxArrayLength="2147483 647" maxBytesPerRead="21474 83647" maxNameTableCharCount ="2147483647"	
	transport				
	message		clientCredentialType="None" proxyCredentialType="None" realm=""	clientCredentialType="Non e" proxyCredentialType="Non e"	

Section	Configuration Key/Name	Configuration values (ex.)			Des cript ion
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config	
				realm=""	
	binding		clientCredentialType="UserN ame" algorithmSuite="Default"	clientCredentialType="User Name" algorithmSuite="Default"	
	readerQuotas		name="QuerySvcSoapHttps" closeTimeout="00:10:00" openTimeout="00:10:00" receiveTimeout="00:15:00" sendTimeout="00:10:00" allowCookies="false" bypassProxyOnLocal="false" hostNameComparisonMode= "StrongWildcard" maxBufferSize="2147483647" " maxReceivedMessageSize=" 2147483647" messageEncoding="Text" textEncoding="utf-8" transferMode="Buffered" useDefaultWebProxy="true"	name="QuerySvcSoapHttp s" closeTimeout="00:10:00" openTimeout="00:10:00" receiveTimeout="00:15:00" sendTimeout="00:10:00" allowCookies="false" bypassProxyOnLocal="fals e" hostNameComparisonMod e="StrongWildcard" maxBufferSize="21474836 47" maxReceivedMessageSize ="2147483647" messageEncoding="Text" textEncoding="Utf-8" transferMode="Buffered" useDefaultWebProxy="true"	
	security mode="Transport"		maxDepth="32" maxStringContentLength="2 147483647" maxArrayLength="21474836 47" maxBytesPerRead="214748	maxDepth="32" maxStringContentLength=" 2147483647" maxArrayLength="2147483 647" maxBytesPerRead="21474	
			364/" maxNameTableCharCount=" 2147483647"	83647" maxNameTableCharCount ="2147483647"	

Section	Configuration Key/Name	Configuration values (ex.)			Des cript ion
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config	_
	transport				
	wsFederationHttpBinding		clientCredentialType="None" proxyCredentialType="None" realm=""	clientCredentialType="Non e" proxyCredentialType="Non e" realm=""	
	binding				
	readerQuotas		name="WSFederationHttpBi nding_AuthenticatedService" maxReceivedMessageSize=" 2147483647" closeTimeout="00:10:00" openTimeout="00:10:00" receiveTimeout="00:15:00" sendTimeout="00:10:00"	name="WSFederationHttp Binding_AuthenticatedServ ice" maxReceivedMessageSize ="2147483647" closeTimeout="00:10:00" openTimeout="00:10:00" receiveTimeout="00:15:00" sendTimeout="00:10:00"	
	security mode="Message"		maxDepth="32" maxStringContentLength="2 147483647" maxArrayLength="21474836 47" maxBytesPerRead="4096" maxNameTableCharCount=" 16384"	maxDepth="32" maxStringContentLength=" 2147483647" maxArrayLength="2147483 647" maxBytesPerRead="4096" maxNameTableCharCount ="16384"	
	message				
	issuer	address="http:// <serveraddress>210:1605 0/STS/mex"</serveraddress>	algorithmSuite="Default" issuedKeyType="Symmetric Key" issuedTokenType="http://doc s.oasis-open.org/wss/oasis- wss-saml-token-profile- 1.1#SAMLV2.0" negotiateServiceCredential=" false" establishSecurityContext="tr ue"	algorithmSuite="Default" issuedKeyType="Symmetri cKey" issuedTokenType="http://d ocs.oasis- open.org/wss/oasis-wss- saml-token-profile- 1.1#SAMLV2.0" negotiateServiceCredential ="false" establishSecurityContext=" true"	

Section	Configuration Key/Name	Configuration values (ex.)			Des cript ion
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config	
	identity\dns		address="http:// <serveraddr ess>210:16050/STS/" binding="wsHttpBinding" bindingConfiguration="wsUs erName"</serveraddr 	address="http://localhost:1 6050/STS/" binding="wsHttpBinding" bindingConfiguration="wsU serName"	
	binding	name="ServiceBinding" maxBufferPoolSize="2147483647" maxReceivedMessageSize="2147483647" closeTimeout="00:10:00" openTimeout="00:10:00" receiveTimeout="00:15:00" sendTimeout="00:10:00"	value="IWHM3STS"	value="IWHM3STS"	
	readerQuotas	maxDepth="32" maxStringContentLength="2147483647" maxArrayLength="2147483647" maxBytesPerRead="4096" maxNameTableCharCount="16384"	name="ServiceBinding" maxBufferPoolSize="214748 3647" maxReceivedMessageSize=" 2147483647" closeTimeout="00:10:00" openTimeout="00:10:00" receiveTimeout="00:15:00" sendTimeout="00:10:00"	name="ServiceBinding" maxBufferPoolSize="2147 483647" maxReceivedMessageSize ="2147483647" closeTimeout="00:10:00" openTimeout="00:10:00" receiveTimeout="00:15:00" sendTimeout="00:10:00"	
	security mode="Message"		maxDepth="32" maxStringContentLength="2 147483647" maxArrayLength="21474836 47" maxBytesPerRead="4096" maxNameTableCharCount=" 16384"	maxDepth="32" maxStringContentLength=" 2147483647" maxArrayLength="2147483 647" maxBytesPerRead="4096" maxNameTableCharCount ="16384"	
	message issuedTokenType="http://d ocs.oasis- open.org/wss/oasis-wss- saml-token-profile- 1.1#SAMLV2.0" negotiateServiceCredential ="false"	issuerMetadata address="http:// <serveraddress>210:1605 0/STS/mex"</serveraddress>			

Section	Configuration Key/Name	Configuration values (ex.)			Des cript ion
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config	
	establishSecurityContext=" true"				
	binding	name="WinBinding" maxBufferPoolSize="2147483647" maxReceivedMessageSize="2147483647" closeTimeout="00:10:00" openTimeout="00:10:00" receiveTimeout="00:15:00" sendTimeout="00:10:00"	issuerMetadata address="http:// <serveraddr ess>210:16050/STS/mex"</serveraddr 	issuerMetadata address="http://localhost:1 6050/STS/mex"	
	readerQuotas	maxDepth="32" maxStringContentLength="2147483647" maxArrayLength="2147483647" maxBytesPerRead="4096" maxNameTableCharCount="16384"	name="WinBinding" maxBufferPoolSize="214748 3647" maxReceivedMessageSize=" 2147483647" closeTimeout="00:10:00" openTimeout="00:10:00" receiveTimeout="00:10:00"	name="WinBinding" maxBufferPoolSize="2147 483647" maxReceivedMessageSize ="2147483647" closeTimeout="00:10:00" openTimeout="00:10:00" receiveTimeout="00:15:00" sendTimeout="00:10:00"	
	security mode="Message"		maxDepth="32" maxStringContentLength="2 147483647" maxArrayLength="21474836 47" maxBytesPerRead="4096" maxNameTableCharCount=" 16384"	maxDepth="32" maxStringContentLength=" 2147483647" maxArrayLength="2147483 647" maxBytesPerRead="4096" maxNameTableCharCount ="16384"	
	message	issuedTokenType="http://docs.oasis- open.org/wss/oasis-wss-saml-token-profile- 1.1#SAMLV2.0" negotiateServiceCredential="false" establishSecurityContext="true"			

Section	Configuration Key/Name	Configuration values (ex.)			Des cript ion
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config	
	issuer	address="http:// <serveraddress>210:1605 0/STS/Windows" binding="wsHttpBinding" bindingConfiguration="StsWinBinding"</serveraddress>	issuedTokenType="http://doc s.oasis-open.org/wss/oasis- wss-saml-token-profile- 1.1#SAMLV2.0" negotiateServiceCredential=" false" establishSecurityContext="tr ue"	issuedTokenType="http://d ocs.oasis- open.org/wss/oasis-wss- saml-token-profile- 1.1#SAMLV2.0" negotiateServiceCredential ="false" establishSecurityContext=" true"	
	identity\servicePrincipalNa me	value="host/localhost"	address="http:// <serveraddr ess>210:16050/STS/Window s" binding="wsHttpBinding" bindingConfiguration="StsWi nBinding"</serveraddr 	address="http://localhost:1 6050/STS/Windows" binding="wsHttpBinding" bindingConfiguration="Sts WinBinding"	
	binding	name="WinBindingHttps" maxBufferPoolSize="2147483647" maxReceivedMessageSize="2147483647" closeTimeout="00:10:00" openTimeout="00:10:00" receiveTimeout="00:15:00" sendTimeout="00:10:00"	value="host/localhost"	value="host/localhost"	
	readerQuotas	maxDepth="32" maxStringContentLength="2147483647" maxArrayLength="2147483647" maxBytesPerRead="4096" maxNameTableCharCount="16384"	name="WinBindingHttps" maxBufferPoolSize="214748 3647" maxReceivedMessageSize=" 2147483647" closeTimeout="00:10:00" openTimeout="00:10:00" receiveTimeout="00:15:00" sendTimeout="00:10:00"	name="WinBindingHttps" maxBufferPoolSize="2147 483647" maxReceivedMessageSize ="2147483647" closeTimeout="00:10:00" openTimeout="00:10:00" receiveTimeout="00:15:00" sendTimeout="00:10:00"	

Section	Configuration Key/Name	Configuration values (ex.)			Des cript ion
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config	
	security mode="TransportWithMes sageCredential"		maxDepth="32" maxStringContentLength="2 147483647" maxArrayLength="21474836 47" maxBytesPerRead="4096" maxNameTableCharCount=" 16384"	maxDepth="32" maxStringContentLength=" 2147483647" maxArrayLength="2147483 647" maxBytesPerRead="4096" maxNameTableCharCount ="16384"	
	message	issuedTokenType="http://docs.oasis- open.org/wss/oasis-wss-saml-token-profile- 1.1#SAMLV2.0" negotiateServiceCredential="false" establishSecurityContext="true"			
	issuer	address="http:// <serveraddress>210:1605 0/STS/Windows" binding="wsHttpBinding" bindingConfiguration="StsWinBinding"</serveraddress>	issuedTokenType="http://doc s.oasis-open.org/wss/oasis- wss-saml-token-profile- 1.1#SAMLV2.0" negotiateServiceCredential=" false" establishSecurityContext="tr ue"	issuedTokenType="http://d ocs.oasis- open.org/wss/oasis-wss- saml-token-profile- 1.1#SAMLV2.0" negotiateServiceCredential ="false" establishSecurityContext=" true"	
	identity\servicePrincipalNa me	value="host/localhost"	address="http:// <serveraddr ess>210:16050/STS/Window s" binding="wsHttpBinding" bindingConfiguration="StsWi nBinding"</serveraddr 	address="http://localhost:1 6050/STS/Windows" binding="wsHttpBinding" bindingConfiguration="Sts WinBinding"	
	wsHttpBinding		value="host/localhost"	value="host/localhost"	
	binding	name="wsUserName" maxReceivedMessageSize="2147483647" closeTimeout="00:10:00" openTimeout="00:10:00" receiveTimeout="00:15:00" sendTimeout="00:10:00"			

Section	Configuration Key/Name	Configuration values (ex.)			Des cript ion
		Split Service C		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config	
	security mode="Message"				
	message	clientCredentialType="UserName" negotiateServiceCredential="false" algorithmSuite="Default" establishSecurityContext="true"			
	binding	name="StsWinBinding" closeTimeout="00:10 sendTimeout="00:10:00"	0:00" openTimeout="00:10:00" re	ceiveTimeout="00:15:00"	
	security mode="Message"				Kerb eros/ NTL M
	message	clientCredentialType="UserName" negotiateServiceCredential="false" algorithmSuite="Default" establishSecurityContext="true"			
	binding	name="StsWinBinding" closeTimeout="00:10:00" openTimeout="00:10:00" receiveTimeout="00:15:00" sendTimeout="00:10:00"	clientCredentialType="UserN ame" negotiateServiceCredential=" false" algorithmSuite="Default" establishSecurityContext="tr ue"	clientCredentialType="User Name" negotiateServiceCredential ="false" algorithmSuite="Default" establishSecurityContext=" true"	
	security mode="Message"	name="StsWinBinding" closeTimeout="00:10:00" openTimeout="00:10:00" receiveTimeout="00:15:00" sendTimeout="00:10:00"	name="StsWinBinding" closeTimeout="00:10:00" openTimeout="00:10:00" receiveTimeout="00:15:00" sendTimeout="00:10:00"	name="StsWinBinding" closeTimeout="00:10:00" openTimeout="00:10:00" receiveTimeout="00:15:00" sendTimeout="00:10:00"	
	message	clientCredentialType="Windows" negotiateSet	erviceCredential="true" establish	SecurityContext="true"	+
	binding	name="wsBindConf" maxReceivedMessages openTimeout="00:10:00" receiveTimeout="0	Size="2147483647" closeTimeou 0:15:00" sendTimeout="00:10:00	ut="00:10:00")"	
	client				1
	endpoint				1

Section	Configuration Key/Name	Configuration values (ex.)			Des cript ion
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config	
	endpoint		address="http://vaausbms web26:87/QuerySvc.asmx" binding="basicHttpBinding" bindingConfiguration="Que rySvcSoap" contract="QuerySvcServic e.QuerySvcSoap" name="QuerySvcSoap"	address="http://vaausbms web76/mdws2/QuerySvc.a smx" binding="basicHttpBinding" bindingConfiguration="Que rySvcSoap" contract="QuerySvcServic e.QuerySvcSoap" name="QuerySvcSoap"	MD WS2
	endpoint		address="https://vaausnum web22.aac.dva.va.gov/Inp atient.asmx" binding="basicHttpBinding" bindingConfiguration="Que rySvcSoapHttps" contract="BMS.ServicesWr apper.Proxy.InpatientSoap" "name="InpatientSoap"	address="https://hceveah0 3:100/Inpatient.asmx" binding="basicHttpBinding" bindingConfiguration="Que rySvcSoapHttps" contract="BMS.ServicesWr apper.Proxy.InpatientSoap" "name="InpatientSoap"	NUM

Section	Configuration Key/Name	Configuration values (ex.)			Des cript ion
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config	
	identity\dns		address="http:// <serverad dress>210:16050/PAP"</serverad 	address="http://localhost:1 6050/PAP"	PAP
			behaviorConfiguration="Cli entCredentialsBehavior"	behaviorConfiguration="Cli entCredentialsBehavior"	
			binding="wsFederationHttp Binding"	binding="wsFederationHttp Binding"	
			bindingConfiguration="WS FederationHttpBinding_Aut henticatedService"	bindingConfiguration="WS FederationHttpBinding_Aut henticatedService"	
			contract="InfoWorld.Securit y.Authorization.PolicyAdmi nistrationPoint.IAdministrati veFunctions"	contract="InfoWorld.Securit y.Authorization.PolicyAdmi nistrationPoint.IAdministrati veFunctions"	
			name="PAP.Administrative Functions"	name="PAP.Administrative Functions"	
	endpoint		value="IWHM3Services"	value="IWHM3Services"	

Section	Configuration Key/Name	Configuration values (ex.)			Des cript ion
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config	
	identity\dns		endpoint address="http:// <serverad dress>210:16050/PDP" behaviorConfiguration="Cli entCredentialsBehavior" binding="wsFederationHttp Binding" bindingConfiguration="WS FederationHttpBinding_Aut henticatedService" contract="InfoWorld.Securit y.PolicyDecisionPoint.IAut horizationService" name="PDP.Authorization Service"</serverad 	address="http://localhost:1 6050/PDP" behaviorConfiguration="Cli entCredentialsBehavior" binding="wsFederationHttp Binding" bindingConfiguration="WS FederationHttpBinding_Aut henticatedService" contract="InfoWorld.Securit y.PolicyDecisionPoint.IAut horizationService" name="PDP.Authorization Service"	PDP
	endpoint		value="IWHM3Services"	value="IWHM3Services"	

Section	Configuration Key/Name	Configuration values (ex.)			Des cript ion
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config	
	identity\dns		address="http:// <serverad dress>210:16050/PAP" behaviorConfiguration="Wi ndowsClientCredentials"</serverad 	address="http://localhost:1 6050/PAP" behaviorConfiguration="Wi ndowsClientCredentials"	PAP: Wind ows auth entic
			binding="wsFederationHttp Binding"	binding="wsFederationHttp Binding"	ation
			bindingConfiguration="Win Binding"	bindingConfiguration="Win Binding"	
			contract="InfoWorld.Securit y.Authorization.PolicyAdmi nistrationPoint.IAdministrati veFunctions"	contract="InfoWorld.Securit y.Authorization.PolicyAdmi nistrationPoint.IAdministrati veFunctions"	
			name="PAP.Administrative Functions.Windows"	name="PAP.Administrative Functions.Windows"	
	endpoint		value="IWHM3Services"	value="IWHM3Services"	1

Section	Configuration Key/Name	Configuration values (ex.)			Des cript ion
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config	
	identity\dns		address="http:// <serverad dress>210:16050/PDP" behaviorConfiguration="Wi ndowsClientCredentials" binding="wsFederationHttp Binding" bindingConfiguration="Win Binding" contract="InfoWorld.Securit y.PolicyDecisionPoint.IAut horizationService" name="PDP.Authorization Service.Windows"</serverad 	address="http://localhost:1 6050/PDP" behaviorConfiguration="Wi ndowsClientCredentials" binding="wsFederationHttp Binding" bindingConfiguration="Win Binding" contract="InfoWorld.Securit y.PolicyDecisionPoint.IAut horizationService" name="PDP.Authorization Service.Windows"	PDP: Wind ows auth entic ation
	endpoint		value="IWHM3Services"	value="IWHM3Services"	-

Section	Configuration Key/Name	Configuration values (ex.)			Des cript ion
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config	
	identity∖dns		address="http:// <serverad dress>211:16050/QueryFu nctions" behaviorConfiguration="Cli entCredentialsBehavior" binding="wsFederationHttp Binding" bindingConfiguration="WS FederationHttpBinding_Aut henticatedService" name="EIS.QueryFunction s" contract="InfoWorld.EIS.IQ ueryFunctions"</serverad 	address="http://localhost:1 6050/QueryFunctions" behaviorConfiguration="Cli entCredentialsBehavior" binding="wsFederationHttp Binding" bindingConfiguration="WS FederationHttpBinding_Aut henticatedService" name="EIS.QueryFunction s" contract="InfoWorld.EIS.IQ ueryFunctions"	EIS: Quer yFun ction s
	endpoint		value="IWHM3Services"	value="IWHM3Services"	1

Section	Configuration Key/Name	Configuration values (ex.)			Des cript ion
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config	
	identity\dns		address="http:// <serverad dress>211:16050/QueryFu nctions" behaviorConfiguration="Wi ndowsClientCredentials" binding="wsFederationHttp Binding" bindingConfiguration="Win Binding" contract="InfoWorld.EIS.IQ ueryFunctions" name="EIS.QueryFunction s.Windows"</serverad 	address="http://localhost:1 6050/QueryFunctions" behaviorConfiguration="Wi ndowsClientCredentials" binding="wsFederationHttp Binding" bindingConfiguration="Win Binding" contract="InfoWorld.EIS.IQ ueryFunctions" name="EIS.QueryFunction s.Windows"	EIS: Wind ows auth entic ation
	endpoint		value="IWHM3Services"	value="IWHM3Services"	

Section	Configuration Key/Name	Configuration values (ex.)			Des cript ion
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config	
	identity∖dns		address="http:// <serverad dress>211:16050/EntityMa nagement" behaviorConfiguration="Cli entCredentialsBehavior" binding="wsFederationHttp Binding" name="EIS.EntityManage ment" bindingConfiguration="WS FederationHttpBinding_Aut henticatedService" contract="InfoWorld.EIS.IE ntityManagement"</serverad 	address="http://localhost:1 6050/EntityManagement" behaviorConfiguration="Cli entCredentialsBehavior" binding="wsFederationHttp Binding" name="EIS.EntityManage ment" bindingConfiguration="WS FederationHttpBinding_Aut henticatedService" contract="InfoWorld.EIS.IE ntityManagement"	EIS: Entit yMa nage ment
	endpoint		value="IWHM3Services"	value="IWHM3Services"	1

Section	Configuration Key/Name	Configuration values (ex.)			Des cript ion
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config	
	identity\dns		address="http:// <serverad dress>211:16050/EntityMa nagement" behaviorConfiguration="Wi ndowsClientCredentials" binding="wsFederationHttp Binding" name="EIS.EntityManage ment.Windows" bindingConfiguration="Win Binding" contract="InfoWorld.EIS.IE ntityManagement"</serverad 	address="http://localhost:1 6050/EntityManagement" behaviorConfiguration="Wi ndowsClientCredentials" binding="wsFederationHttp Binding" name="EIS.EntityManage ment.Windows" bindingConfiguration="Win Binding" contract="InfoWorld.EIS.IE ntityManagement"	EIS: Wind ows auth entic ation
	endpoint		value="IWHM3Services"	value="IWHM3Services"	-
	endpoint		address="http:// <serverad dress>211:16050/CTSVoc abularyRuntime" name="EVS.CTSVocabula ryRuntime" binding="basicHttpBinding" bindingConfiguration="EVS Binding" contract="InfoWorld.EVS.C TSVAPI.RuntimeOperation s" behaviorConfiguration="Da taContractSerializer"</serverad 	address="http://localhost:1 6050/CTSVocabularyRunti me" name="EVS.CTSVocabula ryRuntime" binding="basicHttpBinding" bindingConfiguration="EVS Binding" contract="InfoWorld.EVS.C TSVAPI.RuntimeOperation s" behaviorConfiguration="Da taContractSerializer"	EVS

Section	Configuration Key/Name	Configuration values (ex.)			Des cript ion
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config	
	endpoint		address="http:// <serverad dress>211:16050/CTSVoc abularyBrowse" name="EVS.CTSVocabula ryBrowse" binding="basicHttpBinding" bindingConfiguration="EVS Binding" contract="InfoWorld.EVS.C TSVAPI.BrowserOperation s" behaviorConfiguration="Da taContractSerializer"</serverad 	address="http://localhost:1 6050/CTSVocabularyBrow se" name="EVS.CTSVocabula ryBrowse" binding="basicHttpBinding" bindingConfiguration="EVS Binding" contract="InfoWorld.EVS.C TSVAPI.BrowserOperation s" behaviorConfiguration="Da taContractSerializer"	
	endpoint		address="http:// <serverad dress>211:16050/CTSMes sageBrowse" name="EVS.CTSMessage Browse" binding="basicHttpBinding" bindingConfiguration="EVS Binding" contract="InfoWorld.EVS.C TSMAPI.BrowserOperation s" behaviorConfiguration="Da taContractSerializer"</serverad 	address="http://localhost:1 6050/CTSMessageBrowse " name="EVS.CTSMessage Browse" binding="basicHttpBinding" bindingConfiguration="EVS Binding" contract="InfoWorld.EVS.C TSMAPI.BrowserOperation s" behaviorConfiguration="Da taContractSerializer"	
	endpoint		address="http:// <serverad dress>211:16050/CTSMes sageRuntime" name="EVS.CTSMessage Runtime" binding="basicHttpBinding" bindingConfiguration="EVS Binding" contract="InfoWorld.EVS.C TSMAPI.RuntimeOperation s" behaviorConfiguration="Da taContractSerializer"</serverad 	address="http://localhost:1 6050/CTSMessageRuntim e" name="EVS.CTSMessage Runtime" binding="basicHttpBinding" bindingConfiguration="EVS Binding" contract="InfoWorld.EVS.C TSMAPI.RuntimeOperation s" behaviorConfiguration="Da taContractSerializer"	

Section	Configuration Key/Name	Configuration values (ex.)			Des cript ion
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config	
	endpoint		address="http:// <serverad dress>211:16050/CTSMes sageEdit" name="EVS.CTSMessage Edit" binding="basicHttpBinding" bindingConfiguration="EVS Binding" contract="InfoWorld.EVS.C TSEdit.IMessageEdit" behaviorConfiguration="Da taContractSerializer"</serverad 	address="http://localhost:1 6050/CTSMessageEdit" name="EVS.CTSMessage Edit" binding="basicHttpBinding" bindingConfiguration="EVS Binding" contract="InfoWorld.EVS.C TSEdit.IMessageEdit" behaviorConfiguration="Da taContractSerializer"	
	endpoint		address="http:// <serverad dress>211:16050/CTSVoc abularyEdit" name="EVS.CTSVocabula ryEdit" binding="basicHttpBinding" bindingConfiguration="EVS Binding" contract="ICTSEditVocabul ary"</serverad 	address="http://localhost:1 6050/CTSVocabularyEdit" name="EVS.CTSVocabula ryEdit" binding="basicHttpBinding" bindingConfiguration="EVS Binding" contract="ICTSEditVocabul ary"	

Section	Configuration Key/Name	Configuration values (ex.)			Des cript ion
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config	
	identity∖dns		address="http:// <serverad dress>211:16050/BMSQue ry" behaviorConfiguration="Cli entCredentialsBehavior" binding="wsFederationHttp Binding" bindingConfiguration="WS FederationHttpBinding_Aut henticatedService" name="BMS.BMSQuery" contract="BMS.ServiceCon tracts.IBedManagerQuery"</serverad 	address="http://localhost:1 6050/BMSQuery" behaviorConfiguration="Cli entCredentialsBehavior" binding="wsFederationHttp Binding" bindingConfiguration="WS FederationHttpBinding_Aut henticatedService" name="BMS.BMSQuery" contract="BMS.ServiceCon tracts.IBedManagerQuery"	BMS Quer y
	endpoint		value="IWHM3Services"	value="IWHM3Services"	1

Section	Configuration Key/Name	Configuration values (ex.)			Des cript ion
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config	
	identity∖dns		address="http:// <serverad dress>211:16050/BMSQue ry" behaviorConfiguration="Wi ndowsClientCredentials" binding="wsFederationHttp Binding" bindingConfiguration="Win Binding" name="BMS.BMSQuery.W indows" contract="BMS.ServiceCon tracts.IBedManagerQuery"</serverad 	address="http://localhost:1 6050/BMSQuery" behaviorConfiguration="Wi ndowsClientCredentials" binding="wsFederationHttp Binding" bindingConfiguration="Win Binding" name="BMS.BMSQuery.W indows" contract="BMS.ServiceCon tracts.IBedManagerQuery"	BMS Quer y: Wind ows
	endpoint		value="IWHM3Services"	value="IWHM3Services"	1

Section	Configuration Key/Name	Configuration values (ex.)			Des cript ion
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config	
	identity∖dns		address="http:// <serverad dress>211:16050/BMSOpe rations" behaviorConfiguration="Cli entCredentialsBehavior" binding="wsFederationHttp Binding" bindingConfiguration="WS FederationHttpBinding_Aut henticatedService" name="BMS.BMSOperatio ns" contract="BMS.ServiceCon tracts.IBedManagerOperati ons"</serverad 	address="http://localhost:1 6050/BMSOperations" behaviorConfiguration="Cli entCredentialsBehavior" binding="wsFederationHttp Binding" bindingConfiguration="WS FederationHttpBinding_Aut henticatedService" name="BMS.BMSOperatio ns" contract="BMS.ServiceCon tracts.IBedManagerOperati ons"	BMS Oper ation s
	endpoint		value="IWHM3Services"	value="IWHM3Services"	1

Section	Configuration Key/Name	Configuration values (ex.)			Des cript ion
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config	
	identity∖dns		address="http:// <serverad dress>211:16050/BMSOpe rations" behaviorConfiguration="Wi ndowsClientCredentials" binding="wsFederationHttp Binding" bindingConfiguration="Win Binding" name="BMS.BMSOperatio ns.Windows" contract="BMS.ServiceCon tracts.IBedManagerOperati ons"</serverad 	address="http://localhost:1 6050/BMSOperations" behaviorConfiguration="Wi ndowsClientCredentials" binding="wsFederationHttp Binding" bindingConfiguration="Win Binding" name="BMS.BMSOperatio ns.Windows" contract="BMS.ServiceCon tracts.IBedManagerOperati ons"	BMS Oper ation s: Wind ows
<u> </u>	endpoint		value="IWHM3Services"	value="IWHM3Services"	

Section	Configuration Key/Name	Configuration values (ex.)			Des cript ion
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config	
	identity\dns		address="http:// <serverad dress>210:16050/BMSCon figurationOperations" behaviorConfiguration="Cli entCredentialsBehavior" binding="wsFederationHttp Binding" bindingConfiguration="WS FederationHttpBinding_Aut henticatedService" name ="BMS.BMSConfiguration Operations" contract="BMS.ServiceCon tracts.IConfigurationOperat ions"</serverad 	address="http://localhost:1 6050/BMSConfigurationOp erations" behaviorConfiguration="Cli entCredentialsBehavior" binding="wsFederationHttp Binding" bindingConfiguration="WS FederationHttpBinding_Aut henticatedService" name ="BMS.BMSConfiguration Operations" contract="BMS.ServiceCon tracts.IConfigurationOperat ions"	BMS Confi gurat ion
	endpoint		value="IWHM3Services"	value="IWHM3Services"	-
Section	Configuration Key/Name	Configuration values (ex.)			Des cript ion
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		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config	
	identity\dns		address="http:// <serverad dress>210:16050/BMSCon figurationOperations" behaviorConfiguration="Wi ndowsClientCredentials" binding="wsFederationHttp Binding" bindingConfiguration="Win Binding" name ="BMS.BMSConfiguration Operations.Windows" contract="BMS.ServiceCon tracts.IConfigurationOperat ions"</serverad 	address="http://localhost:1 6050/BMSConfigurationOp erations" behaviorConfiguration="Wi ndowsClientCredentials" binding="wsFederationHttp Binding" bindingConfiguration="Win Binding" name ="BMS.BMSConfiguration Operations.Windows" contract="BMS.ServiceCon tracts.IConfigurationOperat ions"	BMS Confi gurat ion: Wind ows
	endpoint		value="IWHM3Services"	value="IWHM3Services"	-

Section	Configuration Key/Name	Configuration values (ex.)			Des cript ion
		Split Service	Split Service		
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config	
	identity\dns		address="http:// <serverad dress>211:16050/BedUnav ailableWF" behaviorConfiguration="Cli entCredentialsBehavior" binding="wsFederationHttp Binding" bindingConfiguration="WS FederationHttpBinding_Aut henticatedService" name="BMSWF.IBedUnav ailableFlow" contract="BMS.Workflows. WF.IBedUnavailableFlow"</serverad 	address="http://localhost:1 6050/BedUnavailableWF" behaviorConfiguration="Cli entCredentialsBehavior" binding="wsFederationHttp Binding" bindingConfiguration="WS FederationHttpBinding_Aut henticatedService" name="BMSWF.IBedUnav ailableFlow" contract="BMS.Workflows. WF.IBedUnavailableFlow"	Bed Unav ailabl e Work flow
	endpoint		value="IWHM3Services"	value="IWHM3Services"	1

Section	Configuration Key/Name	Configuration values (ex.)			Des cript ion
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config	
	identity∖dns		address="http:// <serverad dress>211:16050/BedUnav ailableWF" behaviorConfiguration="Wi ndowsClientCredentials" binding="wsFederationHttp Binding" bindingConfiguration="Win Binding" name="BMSWF.IBedUnav ailableFlow.Windows" contract="BMS.Workflows. WF.IBedUnavailableFlow"</serverad 	address="http://localhost:1 6050/BedUnavailableWF" behaviorConfiguration="Wi ndowsClientCredentials" binding="wsFederationHttp Binding" bindingConfiguration="Win Binding" name="BMSWF.IBedUnav ailableFlow.Windows" contract="BMS.Workflows. WF.IBedUnavailableFlow"	Bed Unav ailabl e Work flow: Wind ows
	endpoint		value="IWHM3Services"	value="IWHM3Services"	1

Section	Configuration Key/Name	Configuration values (ex.)			Des cript ion
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config	
	identity∖dns		address="http:// <serverad dress>211:16050/WaitingLi stWF" behaviorConfiguration="Cli entCredentialsBehavior" binding="wsFederationHttp Binding" bindingConfiguration="WS FederationHttpBinding_Aut henticatedService" name="BMSWF.IWaitingLi stFlow" contract="BMS.Workflows. WF.IWaitingListFlow"</serverad 	address="http://localhost:1 6050/WaitingListWF" behaviorConfiguration="Cli entCredentialsBehavior" binding="wsFederationHttp Binding" bindingConfiguration="WS FederationHttpBinding_Aut henticatedService" name="BMSWF.IWaitingLi stFlow" contract="BMS.Workflows. WF.IWaitingListFlow"	Waiti ng List Work flow
	endpoint		value="IWHM3Services"	value="IWHM3Services"	1

Section	Configuration Key/Name	Configuration values (ex.)			Des cript ion
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config	
	identity∖dns		address="http:// <serverad dress>211:16050/WaitingLi stWF" behaviorConfiguration="Wi ndowsClientCredentials" binding="wsFederationHttp Binding" bindingConfiguration="Win Binding" name="BMSWF.IWaitingLi stFlow.Windows" contract="BMS.Workflows. WF.IWaitingListFlow"</serverad 	address="http://localhost:1 6050/WaitingListWF" behaviorConfiguration="Cli entCredentialsBehavior" binding="wsFederationHttp Binding" bindingConfiguration="WS FederationHttpBinding_Aut henticatedService" name="BMSWF.IWaitingLi stFlow" contract="BMS.Workflows. WF.IWaitingListFlow"	Waiti ng List Work flow
	endpoint		value="IWHM3Services"	value="IWHM3Services"	

Section	Configuration Key/Name	Configuration values (ex.)			Des cript ion
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config	
	identity∖dns		address="http:// <serverad dress>211:16050/VistaQue ry" behaviorConfiguration="Cli entCredentialsBehavior" binding="wsFederationHttp Binding" bindingConfiguration="WS FederationHttpBinding_Aut henticatedService" contract="BMS.ServiceCon tracts.IVistaWorkerQuery" name ="BMS.VistaQuery"</serverad 	address="http://localhost:1 6050/WaitingListWF" behaviorConfiguration="Wi ndowsClientCredentials" binding="wsFederationHttp Binding" bindingConfiguration="Win Binding" name="BMSWF.IWaitingLi stFlow.Windows" contract="BMS.Workflows. WF.IWaitingListFlow"	Waiti ng List Work flow: Wind ows
	endpoint		value="IWHM3Services"	value="IWHM3Services"	1

Section	Configuration Key/Name	Configuration values (ex.)			Des cript ion
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config	
	identity\dns		address="http:// <serverad dress>211:16050/VistaQue ry" behaviorConfiguration="Wi ndowsClientCredentials" binding="wsFederationHttp Binding" bindingConfiguration="Win Binding" contract="BMS.ServiceCon tracts.IVistaWorkerQuery" name ="BMS.VistaQuery.Window s"</serverad 	address="http://localhost:1 6050/VistaQuery" behaviorConfiguration="Wi ndowsClientCredentials" binding="wsFederationHttp Binding" bindingConfiguration="Win Binding" contract="BMS.ServiceCon tracts.IVistaWorkerQuery" name ="BMS.VistaQuery.Window s"	BMS Vista Quer y - Confi gurat ion Wind ows
	endpoint		value="IWHM3Services"	value="IWHM3Services"	1

Section	Configuration Key/Name	Configuration values (ex.)			Des cript ion
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config	
	identity\dns		address="http://vaww.bms. va.gov:80/CacheService.sv c" behaviorConfiguration="Wi ndowsClientCredentials" binding="wsFederationHttp Binding" bindingConfiguration="Win Binding" name="BMS.Cache.Windo ws" contract="BMS.ServiceCon tracts.ICacheService"	address="http://vaausbms web75.aac.dva.va.gov:80/ CacheService.svc" behaviorConfiguration="Wi ndowsClientCredentials" binding="wsFederationHttp Binding" bindingConfiguration="Win Binding" name="BMS.Cache.Windo ws" contract="BMS.ServiceCon tracts.ICacheService"	BMS Web Cach e - Clien t: Wind ows
	endpoint		value="IWHM3Services"	value="IWHM3Services"	1

Section	Configuration Key/Name	Configuration values (ex.)			Des cript ion
		Split Service	Split Service		
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config	
	identity\dns		address="https://REDACTE D .va.gov:443/CacheService. svc" behaviorConfiguration="Wi ndowsClientCredentials" binding="wsFederationHttp Binding" bindingConfiguration="Win BindingHttps" name="BMS.Cache.Windo ws.Https" contract="BMS.ServiceCon tracts.ICacheService"	address="https://vaausbms web75.aac.dva.va.gov:443 /CacheService.svc" behaviorConfiguration="Wi ndowsClientCredentials" binding="wsFederationHttp Binding" bindingConfiguration="Win BindingHttps" name="BMS.Cache.Windo ws.Https" contract="BMS.ServiceCon tracts.ICacheService"	BMS Web Cach e - Clien t: Wind ows
	endpoint		value="IVVHM3Services"	value="IVVHM3Services"	

Section	Configuration Key/Name	Configuration values (ex.)			Des cript ion
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config	
	identity∖dns		address="http:// <serverad dress>211:16050/BMSCac he" behaviorConfiguration="Cli entCredentialsBehavior" binding="wsFederationHttp Binding" bindingConfiguration="WS FederationHttpBinding_Aut henticatedService" name="BMS.BMSCache" contract="BMS.ServiceCon tracts.IBedManagerCache"</serverad 	address="http://localhost:1 6050/BMSCache" behaviorConfiguration="Cli entCredentialsBehavior" binding="wsFederationHttp Binding" bindingConfiguration="WS FederationHttpBinding_Aut henticatedService" name="BMS.BMSCache" contract="BMS.ServiceCon tracts.IBedManagerCache"	BMS Cach e
	endpoint		value="IWHM3Services"	value="IWHM3Services"	1

Section	Configuration Key/Name	Configuration values (ex.)			Des cript ion
		Split Service	plit Service		
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config	
	identity\dns		address="http:// <serverad dress>211:16050/BMSCac he" behaviorConfiguration="Wi ndowsClientCredentials" binding="wsFederationHttp Binding" bindingConfiguration="Win Binding" contract="BMS.ServiceCon tracts.IBedManagerCache" name="BMS.BMSCache.W indows"</serverad 	address="http://localhost:1 6050/BMSCache" behaviorConfiguration="Wi ndowsClientCredentials" binding="wsFederationHttp Binding" bindingConfiguration="Win Binding" contract="BMS.ServiceCon tracts.IBedManagerCache" name="BMS.BMSCache.W indows"	
	behaviors		value="IWHM3Services"	value="IWHM3Services"	
	serviceBehaviors				
	behavior	name="ServiceBehavior"			
	serviceMetadata	httpGetEnabled="true"		·	
	serviceDebug	includeExceptionDetailInFaults="true"			
	dataContractSerializer	type="InfoWorld.Security.Saml20.Saml20	ServiceCredentials, Saml20"		
	serviceCredentials	type="InfoWorld.Security.Saml20.Saml20ServiceCredentials, Saml20" findValue="IWHM3Services" storeLocation="LocalMachine" storeName="My" x509FindType="FindBySubjectName"			
	serviceCertificate			11	
	issuedTokenAuthentication \knownCertificates\add	findValue="IWHM3STS" storeLocation="L x509FindType="FindBySubjectName"	_ocalMachine" storeName="My"		
	name="WorkflowService"				

Section	Configuration Key/Name	Configuration values (ex.)			Des cript ion	
		Split Service		Combine Service		
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config		
	serviceMetadata httpGetEnabled="true"					
	serviceThrottling					
	serviceDebug		maxConcurrentCalls="150 0" maxConcurrentSessions=" 1500"	maxConcurrentCalls="100 0" maxConcurrentSessions=" 1000"		
	serviceCredentials		includeExceptionDetailInFa ults="true"	includeExceptionDetailInFa ults="true"		
	serviceCertificate		type="InfoWorld.Security.S aml20.Saml20ServiceCred entials, Saml20"	type="InfoWorld.Security.S amI20.SamI20ServiceCred entials, SamI20"		
	issuedTokenAuthentication \knownCertificates\add		findValue="IWHM3Service s" storeLocation="LocalMachi ne" storeName="My" x509FindType="FindBySub jectName"	findValue="IWHM3Service s" storeLocation="LocalMachi ne" storeName="My" x509FindType="FindBySub jectName"		
	sqlWorkflowInstanceStore		findValue="IWHM3STS" storeLocation="LocalMachi ne" storeName="My" x509FindType="FindBySub jectName"	findValue="IWHM3STS" storeLocation="LocalMachi ne" storeName="My" x509FindType="FindBySub jectName"		

Section	Configuration Key/Name	Configuration values (ex.)			Des cript ion	
		Split Service		Combine Service		
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config		
	workflowldle		connectionString="Data Source= <databaseaddres s>;Network Library=DBMSSOCN;Initial Catalog=BMS_InstanceSto re;Integrated Security=True;Asynchrono us Processing=True;Pooling=t rue;Min Pool Size=0;Max Pool Size=250;" instanceEncodingOption=" None" instanceCompletionAction= "DeleteAll" instanceLockedExceptionA ction="BasicRetry" hostLockRenewalPeriod=" 00:00:30" runnableInstancesDetectio nPeriod="00:00:02"</databaseaddres 	connectionString="Data Source= <databaseaddres s>;Initial Catalog=BMS_InstanceSto re;Integrated Security=True;Asynchrono us Processing=True;Pooling=t rue;Min Pool Size=0;Max Pool Size=100;" instanceEncodingOption=" None" instanceCompletionAction= "DeleteAll" instanceLockedExceptionA ction="BasicRetry" hostLockRenewalPeriod=" 00:00:30" runnableInstancesDetectio nPeriod="00:00:02"</databaseaddres 		
	sqlWorkflowInstanceStore Promotion		timeToUnload="00:00:00" timeToPersist="00:00:00"	timeToUnload="0"		
	promotionSets		connectionString="Data Source= <databaseaddres s>;Network Library=DBMSSOCN;Initial Catalog=BMS_InstanceSto re;Integrated Security=True;Pooling=tru e;Min Pool Size=0;Max Pool Size=250;"</databaseaddres 	connectionString="Data Source= <databaseaddres s>;Initial Catalog=BMS_InstanceSto re;Integrated Security=True;Pooling=tru e;Min Pool Size=0;Max Pool Size=100;"</databaseaddres 		
	promotionSet name="AdmissionData"					

Section	Configuration Key/Name	Configuration values (ex.)			Des cript ion
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config	
	promotionSet name="TransferData"		<promotedvalue propertyName="Admissionl d"/> <promotedvalue propertyName="PatientNa me"/> <promotedvalue propertyName="LocationN ame"/></promotedvalue </promotedvalue </promotedvalue 	<promotedvalue propertyName="AdmissionI d"/> <promotedvalue propertyName="PatientNa me"/> <promotedvalue propertyName="LocationN ame"/></promotedvalue </promotedvalue </promotedvalue 	
	behavior name="BasicBindingBeha vior"		promotedValue propertyName="PatientSS N"	promotedValue propertyName="PatientSS N"	
	endpointBehaviors		<datacontractserializer maxItemsInObjectGraph=" 2147483647"/> <servicedebug includeExceptionDetailInFa ults="true"/> <servicemetadata httpGetEnabled="true"/></servicemetadata </servicedebug </datacontractserializer 	<datacontractserializer maxItemsInObjectGraph=" 2147483647"/> <servicedebug includeExceptionDetailInFa ults="true"/> <servicemetadata httpGetEnabled="true"/></servicemetadata </servicedebug </datacontractserializer 	
	behavior				
	dataContractSerializer		name="ClientCredentialsB ehavior"	name="ClientCredentialsB ehavior"	
	durableIssuedTokenClient Credentials\serviceCertific ate		maxItemsInObjectGraph=" 2147483647"	maxItemsInObjectGraph=" 2147483647"	

Section	Configuration Key/Name	e Configuration values (ex.)			Des cript ion	
		Split Service		Combine Service		
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config		
	authentication		x509FindType="FindBySub jectName" findValue="IWHM3Service s" storeName="My" storeLocation="LocalMachi ne"	x509FindType="FindBySub jectName" findValue="IWHM3Service s" storeName="My" storeLocation="LocalMachi ne"		
	scopedCertificates\add		revocationMode="NoCheck "	revocationMode="NoCheck		
	durableIssuedToken		targetUri="http:// <serverad dress>210:16050/STS/" x509FindType="FindBySub jectName" findValue="IWHM3STS" storeName="My" storeLocation="LocalMachi ne"</serverad 	targetUri="http://localhost:1 6050/STS/" x509FindType="FindBySub jectName" findValue="IWHM3STS" storeName="My" storeLocation="LocalMachi ne"		
	behavior		connectionString="Data Source= <databaseaddres s>;Network Library=DBMSSOCN;Initial Catalog=BMS;Integrated Security=True;Pooling=tru e;Min Pool Size=0;Max Pool Size=250;" identifier="SessionID" isolationLevel="ReadCom mitted"</databaseaddres 	connectionString="Data Source= <databaseaddres s>;Initial Catalog=BMS;Integrated Security=True;Pooling=tru e;Min Pool Size=0;Max Pool Size=100;" identifier="SessionID" isolationLevel="ReadCom mitted"</databaseaddres 		
	dataContractSerializer		name="WindowsClientCre	name="WindowsClientCre dentials"		
	clientCredentials		maxItemsInObjectGraph=" 2147483647"	maxItemsInObjectGraph=" 2147483647"		
	windows		type="InfoWorld.Security.A uthentication.CacheClientC redentials, SecurityTokenCache"	type="InfoWorld.Security.A uthentication.CacheClientC redentials, SecurityTokenCache"		
	serviceCertificate		allowNtlm="true"	allowNtlm="true"		

Section	Configuration Key/Name	Configuration values (ex.)			Des cript ion	
		Split Service		Combine Service		
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config		
	defaultCertificate					
	authentication		x509FindType="FindBySub jectName" findValue="IWHM3Service s" storeName="My" storeLocation="LocalMachi ne"	x509FindType="FindBySub jectName" findValue="IWHM3Service s" storeName="My" storeLocation="LocalMachi ne"		
	scopedCertificates\add		revocationMode="NoCheck "	revocationMode="NoCheck		
	behavior		targetUri="http:// <serverad dress>210:16050/STS/Win dows" x509FindType="FindBySub jectName" findValue="IWHM3STS" storeName="My" storeLocation="LocalMachi ne"</serverad 	targetUri="http://localhost:1 6050/STS/Windows" x509FindType="FindBySub jectName" findValue="IWHM3STS" storeName="My" storeLocation="LocalMachi ne"		
	dataContractSerializer		name="DataContractSeriali zer"	name="DataContractSeriali zer"		
	extensions\behaviorExtens ions		maxItemsInObjectGraph=" 2147483647"	maxItemsInObjectGraph=" 2147483647"		
	add					

Section	Configuration Key/Name Configuration values (ex.)			Des cript ion		
		Split Service		Combine Service		
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config		
	add		name="sqlWorkflowInstanc eStorePromotion" type="BMS.Workflows.Pro pertyPromotionActivity.Con figuration.SqlWorkflowInsta nceStorePromotionElemen t, BMS.Workflows.PropertyPr omotionActivity"	name="sqlWorkflowInstanc eStorePromotion" type="BMS.Workflows.Pro pertyPromotionActivity.Con figuration.SqlWorkflowInsta nceStorePromotionElemen t, BMS.Workflows.PropertyPr omotionActivity"		
	add		name="errorHandler" type="BMS.Workflows.Cus tomActivities.Utils.WFError HandlerElement, BMS.Workflows.CustomAc tivities"	name="errorHandler" type="BMS.Workflows.Cus tomActivities.Utils.WFError HandlerElement, BMS.Workflows.CustomAc tivities"		
	log4net		name="durablelssuedToke nClientCredentials" type="BMS.Security.Config uration.DurablelssuedToke nClientCredentialsConfigH andler, BMS.Security"	name="durableIssuedToke nClientCredentials" type="BMS.Security.Config uration.DurableIssuedToke nClientCredentialsConfigH andler, BMS.Security"		
	root	value="OFF"			set the level valu e to ALL or DEB UG in order to trace meth	

Section	Configuration Key/Name	Configuration values (ex.)			Des cript ion
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config	
					od entry and exit time s
	level value	"SQLAppender"			
	appender-ref ref	name="FileAppender" type="log4net.Appender"	ler.FileAppender"		
	appender	name="FileAppender" type="log4net.Append	ler.FileAppender"		
	file	value="log-file.txt"			
	appendToFile	value="true"			
	layout	type="log4net.Layout.PatternLayout"			
	conversionPattern	value="%date [%6thread] -> %message% <-%newline"			
	appender	name="SQLAppender" type="log4netAsync	AsyncAdoNetAppender,log4netA	Async"	
	bufferSize	value="1000"			
	connectionType	value="System.Data.SqlClient.SqlConnectio PublicKeyToken=b77a5c561934e089"	n, System.Data, Version=1.0.330	00.0, Culture=neutral,	
	connectionString	value="data source= <databaseaddress>;Ne catalog=BMS_LOG;integrated security=SSP Size=0;Max Pool Size=250;"</databaseaddress>	twork Library=DBMSSOCN;initia I;persist security info=False;Poo	al ling=true;Min Pool	
	commandText	value="INSERT INTO Log ([Date],[Thread],[Level],[Logger],[Message] ,[Exception]) VALUES (@log_date, @thread, @log_level, @logger, @message, @exception)"	value="data source= <databaseaddress>; Network Library=DBMSSOCN;initial catalog=BMS_LOG;integrate d security=SSPI;persist security info=False;Pooling=true;Min Pool Size=0;Max Pool Size=250;"</databaseaddress>	value="data source= <databaseaddress >;initial catalog=LOG;integrated security=SSPI;persist security info=False;Pooling=true;Mi n Pool Size=0;Max Pool Size=100;"</databaseaddress 	
	parameter				
	parameterName	value="@log_date"			
	dbType	value="DateTime"			

Section	Configuration Key/Name	Configuration values (ex.)			Des cript ion
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config	
	layout	type="log4net.Layout.RawTimeStampLayout"			
	parameter				
	parameterName	value="@thread"			
	dbType	value="String"			
	size	value="255"			
	layout	type="log4net.Layout.PatternLayout"			
	conversionPattern	value="%thread"			
	parameter				
	parameterName	value="@log_level"			
	dbType	value="String"			
	size	value="50"			
	layout	type="log4net.Layout.PatternLayout"			
	conversionPattern	value="%level"			
	parameter				
	parameterName	value="@logger"			
	dbType	value="String"			
	size	value="255"			
	layout	type="log4net.Layout.PatternLayout"			
	conversionPattern	value="%logger"			
	parameter				
	parameterName	value="@message"			
	dbType	value="String"			
	size	value="4000"			
	layout	type="log4net.Layout.PatternLayout"			
	conversionPattern	value="%message"			
	parameter				

Section	Configuration Key/Name	Configuration values (ex.) Split Service			Des cript ion
				Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config	
	parameterName	value="@exception"			
	dbType	value="String"	· · · · · · · · · · · · · · · · · · ·		
	size	value="2000"			
	layout	type="log4net.Layout.ExceptionLayout"			
	filter	type="log4net.Filter.StringMatchFilter"			
	stringToMatch	value="00:00:00.00"			do not log mes sage s with durat ions unde r 00:0 0:00. 00*
	acceptOnMatch	value="false"			
	filter	type="log4net.Filter.StringMatchFilter"			
	stringToMatch	value="Entry"			do not log entry mes sage s as they are not relev ant durat ion- wise

Section	Configuration Key/Name	Configuration values (ex.)			Des cript ion
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.c onfig	BMS.ServiceHost.config	
	acceptOnMatch	value="false"	· ·		
	startup				
	supportedRuntime	version="v4.6" sku=".NETFramework,Version=v4.6.1"			
	runtime\gcServer	enabled="true"			

File	Section	Configuration key	Configuration values (ex.)	Description
	configuration/ connectionStrings/ add	ConnectionString	Workstation id= vadbserver\sql2008r2;packet size=4096;data source= vadbserver \sql2008r2;persist security info=False;Initial Catalog=BMS_EIS;Integrated Security=SSPI;	Connection string for the connection to the BMS_EIS database.
		DatasetPath	DBRepository	Data Adapters (XML mapping files) path.
EISService		OverwriteCreateEntityId	true/false	If set to true, the service generates a new unique identifier on each resource create call, otherwise, it uses the identifier received as parameter. If set to true, the service notifies linked
Implementation.	configuration/ appSettings/ key	NotificationIndicator	true/false	EIS services of changes produced on entities.
amooning		UseSecurityContext	0/1	ePractice security context
		DnsIdentity	IWHM3Services	Certificate which specifies the service's dns identity.
		ReceiveIndicator	true/false	If set to true, the service accepts notification messages from linked EIS services.
		AutomaticLinkIndicator	true/false	If set to true, entities are automatically linked (associated as equivalent) across linked EIS services.
		XEISIndicator	true/false	Specifies whether the cross EIS worker should be started.
		XEISDomain	domain name	Domain of the cross EIS implementation.

Table 5-EIS Service Configuration Parameters

File	Section	Configuration key	Configuration values (ex.)	Description
		SubscriptionTopic	entity	Specifies the topic of the synchronization subscription, meaning what should be synced.
		AuditProtocol	none/udp	Transfer protocol to communicate with the audit service or none if not used.
		AuditServer	auditserver	Server where the audit service resides.
		AuditPort	10000	Port of the audit service on the specified server.
		AuditSynchronIndicator	true/false	Specifies if the Audit Service should be called synchronous or asynchronous.
	configuration/ system.serviceMod el/behaviors/endpoi ntBehaviors/behavi or/clientCredentials/ serviceCertificate/sc opedCertificates/ad d	targetUri	http:// <i>vaserver</i> :17050/STS/ Windows	URI of STS certificate.
	configuration/ system.serviceMod el/bindings/ wsFederationHttpBi nding/binding/mess age/issuerMetadata	address	http:// <i>vaserver</i> :17050/STS/mex	STS metadata exchange URL used by ServiceBinding.
	configuration/ system.serviceMod el/bindings/ wsFederationHttpBi nding/binding/securi ty/message/issuer	address	http:// <i>vaserver</i> :17050/STS/ Windows	STS URL used by WinBinding.
	configuration/ system.serviceMod el/services/service/h ost/baseAddress/ add	baseAddress	http:// <i>vaserver:17050</i> / QueryFunctions	EIS Query Functions service endpoint address.
	configuration/ system.serviceMod el/services/service/h ost/baseAddress/ add	baseAddress	http://vaserver:17050/ Administration	EIS Administration service endpoint address.
	configuration/ system.serviceMod	baseAddress	http:// <i>vaserver</i> :17050/ EntityManagement	EIS EntityManagement service endpoint address.

File	Section	Configuration key	Configuration values (ex.)	Description
	el/services/service/h ost/baseAddress/ add			
	configuration/ system.serviceMod el/services/service/h ost/baseAddress/ add	baseAddress	http:// <i>vaserver</i> : 17050/ ServiceMetadataManagement	EIS ServiceMetadataManagement service endpoint address.
	configuration/ system.serviceMod el/services/service/h ost/baseAddress/ add	baseAddress	http:// <i>vaserver:17050</i> / BulkEntityManagement	EIS Bulk BulkEntityManagement service endpoint address.
	configuration/ system.serviceMod el/services/service/h ost/baseAddress/ add	baseAddress	http:// <i>vaserver:17050</i> / Subscribe	EIS Subscribe service endpoint address.
	configuration/ system.serviceMod el/services/service/h ost/baseAddress/ add	baseAddress	http:// <i>vaserver:17050/</i> LinkAlgorithmAdministration	EIS LinkAlgorithmAdministration service endpoint address.
	configuration/ system.serviceMod el/services/service/h ost/baseAddress/ add	baseAddress	http://vaserver:17050/EIS/ SubscriptionAdministration	EIS SubscriptionAdministration service endpoint address.
	configuration/ system.serviceMod el/services/service/h ost/baseAddress/ add	baseAddress	http://vaserver.17050/Receive	EIS Receive service endpoint address.
	configuration/ system.serviceMod el/services/service/h ost/baseAddress/ add	baseAddress	http://vaserver:17050/EIS/ MessageAdministration	EIS MessageAdministration service endpoint address.
	configuration/ system.serviceMod el/services/service/h ost/baseAddress/	baseAddress	http://vaserver:17050/EIS/ AuthorizationSubscriber	EIS AuthorizationSubscriber service endpoint address.

File	Section	Configuration key	Configuration values (ex.)	Description
	add			
Connections.xml	MyConnections/ connectionString	connectionString	workstation id= vadbserver\sql2008r2;packet size=4096;data source= vadbserver\sql2008r2;persist security info=False;Initial Catalog=BMS_EIS;Integrated Security=SSPI;	Connection string for the connection to the BMS_EIS database.

Table 6-EVS Service Configuration Parameters

File	Section	Configuration key	Configuration values (ex.)	Description
		DatasetPath	DBRepository	Data Adapters (XML mapping files) path.
		ApplicationFolder	D:\CTS\CTSImport	String path to application folder.
		SqlScriptsFolder	SqlScrips	SQL scripts folder name.
		TextFilesFolder	TextFiles	Text files folder name.
		PackageFilesFolder	PackageFiles	Package files folder name.
		CodeMappingTempTable	dbo.TempMapping	The mapping temporary table name.
	configuration/ appSettings/ key			
		TemporaryFolder	Temp	Temporary folder name.
MessageImpl.dll. config		SubscriptionTopic	cts	Specifies the topic of the synchronization subscription, meaning what should be synced.
		NotificationIndicator	true/false	Notification indicator.
		BulkInsertBatchSize	1000	Maximum number of processed records in one step.
		DnsIdentity	IWHM3Services	Certificate which specifies the service's dns identity.
		StartSecurityEndpoints	true/false	Specifies if the secure endpoints are to be started.
		http://localhost:17050/CTSImport	EVS	EVS import from excel key.

File	Section	Configuration key	Configuration values (ex.)	Description
		http://localhost:17050/CTSExport	EVS	EVS export to excel key.
configuration/ system.serviceMod el/services/service/h ost/baseAddresses/	configuration/ system.serviceMod el/services/service/h	baseAddress	http:// <i>vaserver</i> :17050/ CTSVocabularyRuntime	CTS VocabularyRuntime service endpoint address (HTTP Protocol). CTS VocabularyRuntime service endpoint
	baseAddress	https://vaserver:17706/	address (HTTPS Protocol).	

File	Section	Configuration key	Configuration values (ex.)	Description
	add		CTSVocabularyRuntime	
	configuration/ system.serviceMod	baseAddress	http:// <i>vaserver</i> :17050/ CTSMapping	CTS Mapping service endpoint address (HTTP Protocol).
	el/services/service/h ost/baseAddresses/ add	baseAddress	https:// <i>vaserver:17706</i> / CTSMapping	CTS Mapping service endpoint address (HTTPS Protocol).
	configuration/ system.serviceMod	baseAddress	http:// <i>vaserver</i> :17050/ CTSVocabularyBrowse	CTS VocabularyBrowse service endpoint address (HTTP Protocol).
	el/services/service/h ost/baseAddresses/ add	baseAddress	https:// <i>vaserver:17706/</i> CTSVocabularyBrowse	CTS VocabularyBrowse service endpoint address (HTTPS Protocol).
	configuration/ system.serviceMod el/services/service/h ost/baseAddresses/ add	baseAddress	http:// <i>vaserver</i> :17050/ CTSMessageRuntime	CTS MessageRuntime service endpoint address (HTTP Protocol).
		baseAddress	https:// <i>vaserver:17706/</i> CTSMessageRuntime	CTS MessageRuntime service endpoint address (HTTPS Protocol).
	configuration/ system.serviceMod el/services/service/h ost/baseAddresses/ add	baseAddress	http://vaserver:17050/ CTSMessageBrowse	CTS MessageBrowse service endpoint address (HTTP Protocol).
		baseAddress	https:// <i>vaserver:17706/</i> CTSMessageBrowse	CTS MessageBrowse service endpoint address (HTTPS Protocol).
	configuration/ system.serviceMod el/services/service/h ost/baseAddresses/ add	baseAddress	http:// <i>vaserver</i> :17050/ CTSMessageEdit	CTS MessageEdit service endpoint address (HTTP Protocol).
		baseAddress	https:// <i>vaserver:17706/</i> CTSMessageEdit	CTS MessageEdit service endpoint address (HTTPS Protocol).
	configuration/	baseAddress	http:// <i>vaserver:17050/</i> CTSVocabularyEdit	CTS VocabularyEdit service endpoint address (HTTP Protocol).

File	Section	Configuration key	Configuration values (ex.)	Description
	system.serviceMod el/services/service/h ost/baseAddresses/	baseAddress	https:// <i>vaserver:17706/</i> CTSVocabularyEdit	CTS VocabularyEdit service endpoint address (HTTPS Protocol).
	configuration/ system.serviceMod	baseAddress	http:// <i>vaserver</i> :17050/ CTSMappingEdit	CTS MappingEdit service endpoint address (HTTP Protocol).
el/services/service/h ost/baseAddresses/ add configuration/ system.serviceMod el/services/service/h	baseAddress	https:// <i>vaserver:17706/</i> CTSMappingEdit	CTS MappingEdit service endpoint address (HTTPS Protocol).	
	configuration/ system.serviceMod el/services/service/h	baseAddress	http:// <i>vaserver</i> :17050/Xaml	XAML service endpoint address.

File	Section	Configuration key	Configuration values (ex.)	Description
	ost/baseAddresses/ add			
	configuration/ system.serviceMod el/services/service/h ost/baseAddresses/ add	baseAddress	http:// <i>vaserver</i> :17050/ EVSWrapper	EVS Wrapper service endpoint address.
	configuration/ system.serviceMod el/services/service/h ost/baseAddresses/ add	baseAddress	http:// <i>vaserver</i> :17050/ CTSImport	CTS Import service endpoint address.
	configuration/ system.serviceMod el/services/service/h ost/baseAddresses/ add	baseAddress	http:// <i>vaserver</i> :17050/ CTSExport	CTS Export service endpoint address.
	configuration/ system.serviceMod el/services/service/h ost/baseAddresses/ add	baseAddress	http:// <i>vaserver</i> :17050/ CTSEditBulk	CTS EditBulk service endpoint address.
	configuration/ system.serviceMod el/services/service/h ost/baseAddresses/ add	baseAddress	http://vaserver.17050/CTS/ SubscriptionAdministration	CTS Subscription Administration service endpoint address.

File	Section	Configuration key	Configuration values (ex.)	Description
	configuration/ system.serviceMod el/services/service/h ost/baseAddresses/ add	baseAddress	http:// <i>vaserver:17050</i> /CTS/ MessageAdministration	CTS Message Administration service endpoint address.
	configuration/syste m.serviceModel/ bindings/ wsFederationHttpBi nding/binding/ security/message/ issuerMetadata	address	http:// <i>vaserver:17050</i> /STS/mex	STS metadata exchange URL used by ServiceBinding.

File	Section	Configuration key	Configuration values (ex.)	Description
	configuration/syste m.serviceModel/bin dings/ wsFederationHttpBi nding/binding/securi ty/message/issuer	address	http:// <i>vaserver</i> :17050/ STS/Windows	STS URL used by WinBinding.
EVSWrapper.dll. config	configuration/syste m.serviceModel/ser vices/service/host/ baseAddresses/add	baseAddress	http:// <i>vaserver</i> :17050/ EVSWrapper	EVS Wrapper service endpoint address.

File	Section	Configuration key	Configuration values (ex.)	Description
		DefaultResourceRoot	VA	Default root for identifiers.
		DatasetPath	DBRepository	Data Adapters (XML mapping files) path.
		su	hmcomplus	Specifies the super user of the application.
	configuration/ appSettings/	SubscriptionTopic	Authorization	Specifies the topic of the synchronization subscription, meaning what should be synced.
	key	Dnsldentity	IWHM3Services	Certificate which specifies the service's dns identity.
		AuditProtocol	none/udp	Transfer protocol to communicate with the audit service or none if not used.
PolicyAdministration		AuditServer	auditserver	Server where the audit service resides.
Point.dll.config		AuditPort	10000	Port of the audit service on the specified server.
	configuration/ connectionStrings/ add	connectionString	workstation id= vadbserver\sql2008r2;packet size=4096;data source= vadbserver\sql2008r2;persist security info=False;Initial Catalog=BMS_AUTHZ;Integrated Security=SSPI;	Connection string for the connection to the BMS_AUTHZ database.
	configuration/syste m.serviceModel/ bindings/ wsFederationHttpBi	address	http:// <i>vaserver.17050</i> /STS/ Windows	STS URL used by UpnBinding.
	nding/binding/securi ty/message/issuer			

Table 7-PAP Service Configuration Parameters

File	Section	Configuration key	Configuration values (ex.)	Description
	configuration/syste m.serviceModel/ bindings/ wsFederationHttpBi nding/binding/securi ty/message/issuer	address	http:// <i>vaserver</i> :17050/STS/ Windows	STS URL used by WinBinding.
	configuration/syste m.serviceModel/ser vices/service/host/ baseAddresses/add	baseAddress	http:// <i>vaserver</i> .17050/PAP	PAP service endpoint address.
	configuration/syste m.serviceModel/ser vices/service/host/ baseAddresses/add	baseAddress	http:// <i>vaserver</i> :17050/ AuthorizationPublisher	AuthorizationPublisher service endpoint address.
	configuration/syste m.serviceModel/ser vices/service/host/ baseAddresses/add	baseAddress	http:// <i>vaserver</i> :17050/PAP/ MessageAdministration	MessageAdministration service endpoint address.
	configuration/syste m.serviceModel/ser vices/service/host/ baseAddresses/add	baseAddress	http:// <i>vaserver</i> :17050/PAP/ SubscriptionAdministration	SubscriptionAdministration service endpoint address.
	configuration/syste m.serviceModel/ client/endpoint	address	http:// <i>vaserver</i> :17050/PDP/ Request	PDP request client endpoint address.
	configuration/syste m.serviceModel/beh aviors/endpointBeh aviors/behavior/ clientCredentials/ serviceCertificate/ scopedCertificates/ add	targetUri	http:// <i>vaserver</i> :17050/STS/ Windows	URI of STS certificate.
Connections.xml	MyConnections/ MyConnection/	connectionString	workstation id= vadbserver\sql2008r2;packet	Connection string for the connection to the BMS_AUTHZ database.

File	Section	Configuration key	Configuration values (ex.)	Description
	ConnectionString		size=4096;data source= vadbserver\sql2008r2;persist security info=False;Initial Catalog=BMS_AUTHZ;Integrated Security=SSPI;	

File	Section	Configuration key	Configuration values (ex.)	Description
PolicyDecision Point.dll.config		DefaultResourceRoot	VA	Default root for identifiers.
	configuration/ appSettings/ key configuration/	ConnectionString	Data source= <i>vadbserver\sql2008</i> ; InitialCatalog=BMS_AUTHZ;Persi st Security Info=False;Integrated Security=SSPI	Connection string for the connection to the BMS_AUTHZ database.
	system.serviceMod el/bindings/ wsFederationHttpBi nding/binding/securi ty/message/issuerM etadata	address	http:// <i>vaserver</i> :17050/STS/mex	STS metadata exchange URL used by ServiceBinding.
	configuration/ system.serviceMod el/services/service/h ost/baseAddresses/ add	baseAddress	http:// <i>vaserver</i> :17050/PDP	PDP service endpoint address.
	configuration/ system.serviceMod el/services/service/h ost/baseAddresses/ add	baseAddress	http:// <i>vaserver</i> :17050/PDP/ Request	PDP Request service endpoint address.

Table 8-PDP Service Configuration Parameters

Table 9-RS Service Configuration Parameters

File	Section	Configuration key	Configuration values (ex.)	Description
RS.Service Implementation.	configuration/ appSettings/ —	DefaultResourceRoot	VA	Default root for identifiers.
		ReportingServicesURL	http://vaserver:90/Report	Reporting services URL address.
dll.config	key		Server/ReportService2005. asmx	
		RootFolderName	Reporting Service	Reports root folder in the reporting services.
		AuditProtocol	none/udp	Transfer protocol to communicate with the audit service or none if not used.
		AuditServer	auditserver	Server where the audit service resides.
		AuditPort	10000	Port of the audit service on the specified server.
	configuration/syste m.serviceModel/ client/endpoint	address	http:// <i>vaserver</i> : <i>17050</i> /PDP/ Request	PDP request client endpoint address.
	configuration/ system.serviceMod el/bindings/ wsFederationHttpBi nding/binding/securi ty/message/issuerM etadata	address	http:// <i>vaserver</i> .17050/STS/mex	STS metadata exchange URL used by ServiceBinding.
	configuration/ system.serviceMod el/bindings/ wsFederationHttpBi nding/binding/ security/message/ issuer	address	http:// <i>vaserver</i> : <i>17050</i> /STS/ Windows	URL of CustomBinding_IAuthenticationService.
	configuration/ system.serviceMod el/services/service/ host/baseAddresse s/add	baseAddress	http:// <i>vaserver</i> :17050/RS	RS service endpoint address.

File	Section	Configuration key	Configuration values (ex.)	Description
	configuration/ system.serviceMod el/behaviors/ endpointBehaviors/ behavior/ clientCredentials/ serviceCertificate/ scopedCertificates/a dd	targetUri	http:// <i>vaserver:17050</i> /STS/ Windows	URI of STS certificate.

Table 10-STS Service Configuration Parameters

File	Section	Configuration key	Configuration values (ex.)	Description
		Delay	0:01:00	Sleep interval between the retries to insert the superusers in the database.
		TokenTTLInMinutes	1442	Time to live of the security token, in minutes.
		STSCertificateStoreName	Му	Specifies the name of the X.509 certificate store to open.
		STSCertificateStoreLocation	LocalMachine	Specifies the location of the X.509 STS certificate store.
		STSCertificateFindType	FindBySubjectName	Specifies the type of value the X509Certificate2Collection.Find method
				searches for.
	configuration/ appSettings/	STSCertificateFindValue	IWHM3STS	STS Certificate name.
SecureToken	key	ServiceCertificateStoreName	Му	Specifies the name of the X.509 certificate store to open.
		ServiceCertificateStoreLocation	LocalMachine/CurrentUser	Specifies the location of the X.509 services' certificate store.
Service.dll.config		ServiceCertificateFindType	FindBySubjectName	Specifies the type of value the X509Certificate2Collection.Find method searches for.
		ServiceCertificateFindValue	IWHM3Services	Services' Certificate name.

File	Section	Configuration key	Configuration values (ex.)	Description
		su	Domain qualified user names, comma separated.	Usernames of all the super users in the application.
		domains	VAJVA	Comma separated list of root extension values for the application's domains.
	configuration/ connectionStrings/ add	connectionString	workstation id= vadbserver\sql2008r2;packet size=4096;data source= vadbserver\sql2008;persist security info=False;Initial Catalog=BMS_AUTHZ;Integrated Security=SSPI;	Connection string for the connection to the BMS_AUTHZ database.
	configuration/ system.serviceMod el/services/service/ host/baseAddresse s/add	baseAddress	http:// <i>vaserver</i> :17050/STS	STS service endpoint address.
	configuration/ system.serviceMod el/services/service/	baseAddress	http:// <i>vaserver</i> :17050/authsvc	Authsvc service endpoint address.
	configuration/ system.serviceMod el/bindings/ wsFederationHttpBi nding/binding/securi	address	http:// <i>vaserver</i> :17050/STS/mex	STS metadata exchange URL used by ServiceBinding.
	configuration/ system.serviceMod el/bindings/ wsFederationHttpBi nding/binding/securi ty/message/issuer	address	http:// <i>vaserver</i> :17050/STS/ Windows	URL of STS used by WindowsBinding.
	configuration/ system.serviceMod el/bindings/ wsFederationHttpBi nding/binding/securi ty/message/issuer/i dentity/userPrincipal Name	value	VAUser@domain.com	Name of the user under which the service is running.

File	Section	Configuration key	Configuration values (ex.)	Description
cc sy el Be se	configuration/ system.serviceMod sl/behaviors/service Behaviors/behavior/ serviceMetadata	httpGetUrl	http:// <i>vaserver</i> :17050/STS/mex	Metadata exchange address of ServiceSTSBehavior.

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File	Section	Configuration key	Configuration values (ex.)	Description
		LocalServer	yes/no	ePractice remoting flag. Only used with yes.
		UseSecurityContext	0/1	Flag which specifies if ePractice uses the security context.
		AuditProtocol	none/udp	Transfer protocol to communicate with the audit service or none if not used.
		ServiceStartupTimeoutSecondsAdd		Time in seconds to wait for the services to
	configuration/ Audit		90	start
		AuditServer	auditserver	Server where the audit service resides.
WinServiceHost.		AuditPort	10000	Port of the audit service on the specified server.
exe.config	appSettings/ key	ServiceCertificateStoreName	Му	Specifies the name of the X.509 certificate store to open.
		ServiceCertificateStoreLocation	LocalMachine	Specifies the location of the X.509 services' certificate store.
		ServiceCertificateFindType	FindBySubjectName	Specifies the type of value the X509Certificate2Collection.Find method searches for.
		ServiceCertificateFindValue	IWHM3Services	Services' Certificate name.

Table 11-Win ServiceHost Configuration Parameters

Table 12-WMI User Group Configuration Parameters

File	Section	Configuration key	Configuration values (ex.)	Description
WML LIserGroup	configuration/	DatasetPath	DBRepository	Data Adapters (XML mapping files) path.
WMI_UserGroup.	appSettings/	LocalMachineName	Localhost	Name of the host where WMI_UserGroup will run.
	IsRunningOnLocalMachine	true/false	Specify if WMI_UserGroup will run on local machine or not.	
Connections.xml	MyConnections/ MyConnection/ ConnectionString	ConnectionString	packet size=4096;data source= vadbserver\sql2008r2;persist security info=False;Initial Catalog=BMS_DW;Integrated Security=SSPI;connection timeout = 600	Connection string for the connection to the BMS_DW database.

Table 13-Policy Manager Configuration Parameters

File	Section	Configuration key	Configuration values (ex.)	Description
		DefaultResourceRoot	VA	Default root for identifiers.
	configuration/	AuditProtocol	none/udp	Transfer protocol to communicate with the audit service or none if not used.
	kev	AuditServer	auditserver	Server where the audit service resides.
		AuditPort	10000	Port of the audit service on the specified server.
	configuration/			
	system.serviceMod el/bindings/wsFeder ationHttpBinding/bin ding/security/messa ge/issuer	address	http://vaserver.17050/STS/	STS address used by wsFederationBinding binding

File	Section	Configuration key	Configuration values (ex.)	Description
PolicyManager.exe. config	configuration/ system.serviceMod el/behaviors/ endpointBehaviors/ behavior/ clientCredentials/ scopedCertificates/ add	targetUri	http:// <i>vaserver</i> :17050/STS/	STS address of STS certificate.
	configuration/syste m.serviceModel/ client/endpoint	address	http://vaserver.17050/PAP	PAP client endpoint address.
	configuration/syste m.serviceModel/ client/endpoint	address	http:// <i>vaserver</i> :17050/ AuthorizationPublisher	AuthorizationPublisher client endpoint address.
PolicyEditor.dll. config	configuration/syste m.serviceModel/ client	address	http:// <i>vaserver.17050</i> /PAP	PAP client endpoint address.

Table 14-BMS Web Configuration Parameters

File	Section	Configuration key	Configuration values (ex.)	Description
Web.config	configuration/	webpages:Version	1.0.0.0	Version of the web site.
	appSettings/	ClientValidationEnabled	true/false	Gets or sets a value that indicates whether client-side validation is enabled.
	key	UnobtrusiveJavaScriptEnabled	true/false	Gets or sets a value that indicates whether unobtrusive JavaScript is enabled.
		ReportsPath	/BMS	Path of the reports in the reporting services.
		BMS.EVSDictionaryCacheSize	512	Cache size for the vocabulary service, representing the number of concepts cached.
		VAURL	http://vaww.esm.infoshare.va.gov/ PMIC/Projects/BMS/ Implement/default.aspx	BMS Sharepoint Site.

File	Section	Configuration key	Configuration values (ex.)	Description
		TICKETURL	http://vaww.esm.infoshare.va.gov/ PMIC/Projects/BMS/ Implement/HDProcess/ default.aspx	Enter a defect and enhancement ticket.
		WhiteboardRefreshRate	60	Time in seconds of refresh rate of the whiteboard page.
		THRESHOLD	0	Threshold value used to compare wait time value of the patient from the Patients Pending Placement List in order to display an alert on the Patients Pending Placement List.
		aspnet:MaxHttpCollectionKeys	2000	Maximum number of aps.net collection keys.
		WhiteboardAjaxRefreshRate	180	Time in seconds of AJAX refresh rate of the whiteboard page.
		WhiteboardRealRefreshRate	60	Time in minutes of standard refresh rate of the whiteboard page.
		HomePageRefreshRate	300	Time in seconds of refresh rate of the home page.
		BMS_EIS_GET_ENTITY_ FILTR_PAGE_SIZE	1000	Number of records queried that are brought from EIS in one page.
		BMS_EVS_GET_CONCEPT_ PAGE_SIZE	1000	Number of records queried that are brought from EVS in one page.
		SmtpHost	VA_MAIL_SERVER	Mail Server host.
		DisplayDetailedErrorMessage	true/false	If set to true displays detailed error message, otherwise displays a generic message ("Please contact BMS administrator.").

File	Section	Configuration key	Configuration values (ex.)	Description
		Is_IIS_Single_Instance	true/false	If set to true a single IIS instance is used. If set to false multiple IIS instances are used (web farm scenario).
		ProxyPoolMaxCount	100	The maximum number of proxies in the pool.
		MdwsEndpointUrl_1	http://mdws_server:81/ QuerySvc.asmx	MDWS instance URL address.
		MdwsEndpointUrl_2	http://mdws_server:82/ QuerySvc.asmx	MDWS instance URL address.

File	Section	Configuration key	Configuration values (ex.)	Description
	configuration/syste m.serviceModel/ bindings/ wsFederationHttpBi nding/binding/securi ty/message/issuer	address	http:// <i>vaserver:17050</i> /STS/ Windows	STS Windows address used by WindowsBinding.
	configuration/syste m.serviceModel/ bindings/ wsFederationHttpBi nding/binding/securi ty/message/issuer	address	http:// <i>vaserver</i> :17050/STS/	STS address used by WSFederationHttpBinding_Authenticated Service binding.
	configuration/syste m.serviceModel/ client/endpoint	address	http:// <i>vaserver</i> :17050/authsvc/ upnidentity	Security Authentication client endpoint address.
	configuration/syste m.serviceModel/ client/endpoint	address	http:// <i>vaserver</i> :17050/RS	Reporting Services client endpoint address.
	configuration/syste m.serviceModel/ client/endpoint	address	http:// <i>vaserver</i> :17050/ QueryFunctions	EIS QueryFunctions client endpoint address.
	configuration/syste m.serviceModel/ client/endpoint	address	http:// <i>vaserver:17050/</i> QueryFunctions	EIS QueryFunctions Windows authentication client endpoint address.
	configuration/syste m.serviceModel/ client/endpoint	address	http:// <i>vaserver:17050/</i> EntityManagement	EIS EntityManagement client endpoint address.
	configuration/syste m.serviceModel/	address	http://vaserver:17050/ EntityManagement	EIS EntityManagement Windows authentication client endpoint address.

File	Section	Configuration key	Configuration values (ex.)	Description
	client/endpoint			
	configuration/syste m.serviceModel/ client/endpoint	address	http://vaserver:17050/PAP	PAP client endpoint address.
	configuration/syste m.serviceModel/ client/endpoint	address	http://vaserver:17050/PAP	PAP Windows authentication client endpoint address.

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File	Section	Configuration key	Configuration values (ex.)	Description
	configuration/syste m.serviceModel/ client/endpoint	address	http://vaserver:17050/PDP	PDP client endpoint address.
	configuration/syste m.serviceModel/ client/endpoint	address	http://vaserver:17050/PDP	PDP Windows authentication client endpoint address.
	configuration/syste m.serviceModel/ client/endpoint	address	http:// <i>vaserver</i> :17050/ CTSVocabularyRuntime	CTS VocabularyRuntime client endpoint address.
	configuration/syste m.serviceModel/ client/endpoint	address	http:// <i>vaserver</i> :17050/ CTSVocabularyBrowse	CTS VocabularyBrowse client endpoint address.
	configuration/syste m.serviceModel/ client/endpoint	address	http:// <i>vaserver</i> :17050/ CTSMessageBrowse	CTS MessageBrowse client endpoint address.
	configuration/syste m.serviceModel/ client/endpoint	address	http:// <i>vaserver</i> :17050/ CTSMessageRuntime	CTS MessageRuntime client endpoint address.
	configuration/syste m.serviceModel/ client/endpoint	address	http:// <i>vaserver</i> :17050/ CTSMessageEdit	CTS MessageEdit client endpoint address.
	configuration/syste m.serviceModel/ client/endpoint	address	http:// <i>vaserver</i> :17050/ CTSVocabularyEdit	CTS VocabularyEdit client endpoint address.
	configuration/syste m.serviceModel/ client/endpoint	address	http:// <i>vaserver</i> :17050/ BMSConfigurationOperations	BMS ConfigurationOperations client endpoint address.
	configuration/syste m.serviceModel/ client/endpoint	address	http:// <i>vaserver</i> :17050/ BMSConfigurationOperations	BMS ConfigurationOperations Windows authentication client endpoint address.

File	Section	Configuration key	Configuration values (ex.)	Description
	configuration/syste m.serviceModel/ client/endpoint	address	http:// <i>vaserver</i> :17050/ BMSQuery	BMS Query client endpoint address.
	configuration/syste m.serviceModel/ client/endpoint	address	http:// <i>vaserver</i> :17050/ BMSOperations	BMS Operations client endpoint address.
	configuration/syste m.serviceModel/ client/endpoint	address	http:// <i>vaserver</i> :17050/ TransferWF	Transfer workflow client endpoint address.
	configuration/syste m.serviceModel/ client/endpoint	address	http:// <i>vaserver</i> :17050/ BMSWF	BMS workflow client endpoint address.
	configuration/syste m.serviceModel/ client/endpoint	address	http:// <i>vaserver:17050/</i> WaitingListWF	Patients Pending Placement List workflow client endpoint address.
	configuration/syste m.serviceModel/ client/endpoint	address	http:// <i>vaserver</i> :17050/ BedCleanWF	Bed clean workflow client endpoint address.
	configuration/syste m.serviceModel/ client/endpoint	address	http:// <i>vaserver:17050/</i> BedUnavailableWF	Bed Unavailable workflow client endpoint address.
	configuration/syste m.serviceModel/ client/endpoint	address	http:// <i>vaserver</i> :17050/ VistaQuery	VistA Query client endpoint address.
	configuration/syste m.serviceModel/ client/endpoint	address	http:// <i>vaserver</i> :17050/ VistaQuery	VistA Query Windows authentication client endpoint address.

2.4 Scheduled Windows and SQL Jobs Configuration

BMS runs one Windows Scheduled task: BMS – WMI_UserGroup and two SQL Jobs in order to bring data into the data warehouse (BMS_DW database): BMS - Reports Full and BMS – Reports Incremental. More information about BMS databases can be referenced from <u>Section 3.3</u>.

2.4.1 BMS Reports Full

🔢 Job Properties - BMS - Reports Full						
Select a page	<u>S</u> Scrip	t 🔻 📑 Help				
General Steps Schedules	Job ste	Job step list:				
Alerts	Step	Name	Туре	On		
	1	Populate Var with DateTime	Trans	Go		
Targets	2	Stop Job Incremental	Trans	Go		
	3	Wait 1 minutes	Trans	Go		
	4	Disable Job Incremental	Trans	Go		
	5	Call stored procedure sp_infoworld_pachet_full	Trans	Go		
	6	Call stored procedure sp_infoworld_pachet_full	Trans	Go		
	7	7 Call stored procedure sp_infoworld_pachet_full		Go		
	8	Call stored procedure sp_infoworld_pachet_full	Trans	Go		
	9	Clear/Load DW Data, call usp_ETL_ProcessFull	Trans	Go		
	10	Call stored procedure usp_ETL_ProcessFull_FA	Trans	Go		
Connection	11	Copy users in history database	Trans	Go		
Carrier	12	Clear DS data	Trans	Go		
Server: vaaussolbms200.aac.dva.v	13	On Success Re-enable Incremental	Trans	Qui		
Connection:	14	On Fail Re-enable Incrementa	Trans	Qui		
VHAMASTER\VHAISHGau						
View connection	•	III		Þ		
Progress	Move s	step: Start step:				
Ready	•	1:Populate Var with DateTime		- ▼		
Notes and a second seco	N	lew Edit	Delete			
OK Cancel						

Figure 2-BMS-Report Full Job

The job's steps can be seen in the figure above and most of them execute stored procedures. At the beginning of the process, the operations are done between the source databases and the destination database, which is BMS_DS in our case.

Each step is described below:

Step 1. Start job full: this is only an informative step for the log file.

Job Step Properties - Populate Var with DateTime				
Select a page	🖾 Script 👻 🎼 Help			
Advanced	Step name: Populate Var with D Type: Transact-SQL scrip Run as: Database:	DateTime ot (T-SQL)	▼	
	Command: Open	declare @d datetime		
Connection	Select All			
Server: vaaussqlbms200.aac.dva.v Connection: VHAMASTER\VHAISHGau View connection	Paste Parse		-	
Progress		•	Þ	
Ready			Next Previous	
			OK Cancel	

Figure 3-BMS-Start Full Job

Step 2. Check state job incremental: it checks the state of the BMS incremental and attempts to stop the incremental job.

💽 Job Step Properties - Stop Job Incremental			
Select a page	🔄 Script 🔻 📑 Hel	þ	
Advanced	Step name: Stop Job Incremen Type: Transact-SQL scrip Run as:	tal tal ot (T-SQL)	
	Database:	msdb 🔹	
Connection Server: vaaussqlbms200.aac.dva.v Connection: VHAMASTER\VHAISHGau View connection.	Command: Open Select All Copy Paste Parse	if BMS - Reports Incremental job not running don't try to IF NOT EXISTS(select 1 from msdb.dbo.sysjobs j inner join msdb.dbo.sysjobactivity ja on j.job_id = ja.job_id where ja.run_Requested_date is not null and ja.stop_execution_date is null and j.name = N'BMS - Reports Incremental') BEGIN PRINT 'BMS - Reports Incremental Job is not runninç END ELSE stop the BMS - Reports Incremental SQL job. BEGIN	
Progress			
Ready		Next Previous	
		OK Cancel	

Figure 4-BMS-Check State Job Incremental

Step 3. Waits 1 min for incremental job to stop:

Job Step Properties - V	Vait 1 minutes		
Select a page General Advanced	Script V La Hell Step name: Wait 1 minutes Type: Transact-SQL scrip Run as:	p ot (T-SQL)	•
Connection Server: vaaussqlbms200.aac.dva.v Connection: VHAMASTER\VHAISHGau View connection	Database: Command: Open Select All Copv Paste Parse	Master	
Progress		•	Þ
Ready			Next Previous
			OK Cancel

Figure 5-BMS-Waits 1 Min for Incremental Job to stop

Step 4. Disable Incremental Job:

📑 Job Step Properties - D	isable Job Increme	ntal 🗖 🔍 🔀		
Select a page General	Script Help Step name: Disable Job Incremental Type: Transact-SQL script (T-SQL) Run as:			
Advanced				
	Database:	msdb 💌		
Connection Server: vaaussqlbms200.aac.dva.v Connection: VHAMASTER\VHAISHGau I View connection	Command: Open Select All Copv Paste Parse	EXEC msdb.dbo.sp_update_job @job_name=N'BMS - F @enabled=0		
Progress		4 111		
Ready		Next Previous		
		OK Cancel		

Figure 6-BMS-Check State Job Incremental

Step 5. Call stored procedure sp_infoworld_pachet_full_BMS_AUTHZ:

Select a page	🖾 Script 👻 🖪 Help			
Providential Sector of the sec	Step name:	4711		
	Call stored proce	dure sp_infoworld_pachet_full_BMS_AUTHZ		
	Transact-SQL script (T-SQL)			
	Run as:		,	
	Database:	BMS_DS	•	
	Command:	DECLARE @BODY_MSG VARCHAR(2000) SELECT	*	
	Open	ERROR_NUMBER() AS ErrorNumber ERROR_MESSAGE() AS ErrorMessage; SET @BODY_MSG = 'The Step 5 for BMS Report Full		
Connection	Select All	ERROR_MESSAGE()		
Server:	Сору	EXEC msdb.dbo.sp_send_dbmail @profile_name = '314c SQL_DBA'	H	
Connection:	Paste	@recipients = '314CSQLDBA@va.gov; AITCHASBMS		
VHAMASTER\VHAISHGau	Parse	@importance= 'high', @body = @BODY_MSG, @subject = 'job "BMS - Reports Full" failed at STEP #!	*	
Progress		۰ III +		
Ready		Next Previou	IS	

Figure 7-BMS-Job Step Properties

Step 6. Call stored procedure sp_infoworld_pachet_full_BMS

💽 Job Step Properties - C	all stored procedur	e sp_infoworld_pachet_full_BMS	
Select a page	🔄 Script 👻 🎼 Help		
Advanced	Step name: Call stored procedu Type: Transact-SQL scrip Run as:	ure sp_infoworld_pachet_full_BMS t (T-SQL)	
	Database:	BMS_DS	
	Command: Open Select All	BEGIN TRY EXEC sp_infoworld_pachet_full_BMS; END TRY BEGIN CATCH DECLARE @BODY_MSG VARCHAR(2000) SELECT	
Connection Server: vaaussqlbms200.aac.dva.v Connection:	Copv Paste	ERROR_NUMBER() AS ErrorNumber .ERROR_MESSAGE() AS ErrorMessage; SET @BODY_MSG = 'The Step 6 for BMS Report Full ERROR_MESSAGE()	
VHAMASTER\VHAISHGau	Parse	EXEC msdb.dbo.sp_send_dbmail @profile_name = '314c SQL DBA', @recipients = '314CSQLDBA@va.gov; AITCHASBMS 👻	
Progress		۰ III ا	
Ready		Next Previous	
		OK Cancel	

Figure 8- BMS- Job Step Properties-Call Stored Procedure

Step 7. Call stored procedure sp_infoworld_pachet_full_BMS_EIS

💽 Job Step Properties - Call stored procedure sp_infoworld_pachet_full_BMS_EIS				
Select a page	🔄 Script 🔻 🖪 Help			
Advanced	Step name: Call stored proced Type: Transact-SQL scrip Run as:	ure sp_infoworld_pachet_full_BMS_EIS ot (T-SQL)		
	Database:	BMS_DS		
Connection Server: vaaussqlbms200.aac.dva.v Connection: VHAMASTER\VHAISHGau ♥ View connection. Progress	Command: Open Select All Copv Paste Parse	BEGIN TRY EXEC sp_infoworld_pachet_full_BMS_EIS; END TRY BEGIN CATCH DECLARE @BODY_MSG VARCHAR(2000) SELECT ERROR_NUMBER() AS ErrorNumber .ERROR_MESSAGE() AS ErrorMessage; SET @BODY_MSG = 'The Step 7 for BMS Report Full ERROR_MESSAGE() EXEC msdb.dbo.sp_send_dbmail @profile_name = '314c SQL DBA', @recipients = '314CSQLDBA@va.gov; AITCHASBMS		
Ready		Next Previous		
		OK Cancel		

Figure 9- BMS-Job Step Properties-Call Stored Procedure_SP_Infoworld

Step 8. Call stored procedure sp_infoworld_pachet_full_BMS_EVS

Job Step Properties - C	all stored procedu	ire sp_infoworld_pachet_full_BMS_EVS		
Select a page	🕼 Script 🔻 🖪 Help			
iang General Iang Advanced	Step name: Call stored proced Type: Transact-SQL scr Run as:	dure sp_infoworld_pachet_full_BMS_EVS		
	Database:	BMS_DS		
	Command:	BEGIN TRY EXEC sp_infoworld_pachet_full_BMS_EVS: END TRY		
Connection	Select All	BEGIN CATCH DECLARE @BODY_MSG VARCHAR(2000) SELECT		
Server: vaaussqlbms200.aac.dva.v	Copv Paste	ERROR_NUMBER() AS ErrorMessage; ERROR_MESSAGE() AS ErrorMessage; SET @BODY_MSG = 'The Step 8 for BMS Report Full ERROR_MESSAGE()		
Connection: VHAMASTER\VHAISHGau View connection	Parse	EXEC msdb.dbo.sp_send_dbmail @profile_name = '314c SQL DBA', @recipients = '314CSQLDBA@va.gov; AITCHASBMS ~		
Progress		4		
O Ready		Next Previous		
		OK Cancel		

Figure 10-BMS-Job Step Properties_BMS EVS

Step 9. Clear/Load DW Data, call usp_ETL_ProcessFull_VOCAB

Job Step Properties - C	lear/Load DW Dat	a, call usp_ETL_ProcessFull_VOCAB		
Select a page	🗟 Script 👻 🌇 Help			
Advanced	Step name: Clear/Load DW D Type: Transact-SQL scri Run as:	ata, call usp_ETL_ProcessFull_VOCAB pt (T-SQL)		
	Database:	BMS_DW		
Connection Server: vaaussqlbms200.aac.dva.v Connection: VHAMASTER\VHAISHGat 관 <u>View connection</u>	Command: Open Select All Copy Paste Parse	BEGIN TRY - Try running the stored procedure - test failure with this: SELECT 1/0; EXEC usp_ETL_Clear_Data EXEC usp_ETL_ProcessFull_VOCAB END TRY BEGIN CATCH - Execute error retrieval routine. DECLARE @BODY_MSG VARCHAR(2000) SELECT		
Ready		Next Previous		
		OK Cancel		

Figure 11-BMS- Job Step Procedures-VOCAB

Step 10. Call stored procedure usp_ETL_ProcessFull_FACTS

Soloct a nago	-			
Seriect a page Script V II Help				
Advanced	Step name:			
	Call stored procedure usp_ETL_ProcessFull_FACTS			
	Type:			
	Transact-SQL sci	ript (T-SQL)	•	
	Run as:		•	
	Database:	BMS_DW	•	
	Command:	BEGIN TRY		
	Open	Try running the stored procedure EXEC usp_ETL_ProcessFull_FACTS		
Connection	Select All	END TRY		
Server:	Сору	BEGIN CATCH Execute error retrieval routine.		
vaaussqlbms200.aac.dva.v	Paste	SELECT		
VHAMASTER\VHAISHGau	Parse	ERROR_NUMBER() AS ErrorNumber		
View connection	ERROR_MESSAGE() AS ErrorMessage; SET @BODY_MSG = 'The Step 10 for BMS Re ERROR_MESSAGE()			
Progress		< III +		
C Ready		Next Previous		
I		OK Cancel		

Figure 12-BMS-Job Step Procedurs-ETL_Processfull_Facts

Step 11. Copy users in history database

💽 Job Step Properties - Copy users in history database			
Select a page	🔄 Script 🔻 🛐 Hel	p	
iad General Iadvanced	Step name: Copy users in histo Type: Transact-SQL scrip Run as: Database:	ry database ot (T-SQL)	
Connection Server: vaaussqlbms200.aac.dva.v Connection: VHAMASTER\VHAISHGau P	Command: Open Select All Copv Paste Parse	EXEC usp_Insert_Users	
Progress		•	•
C Ready			Next Previous
			OK Cancel

Figure 13- BMS- Copy User in history database

Step 12. Clear DS data

Job Step Properties - C	lear DS data			
Select a page	🔄 Script 🔻 📑 Help			
General ☆ Advanced	Step name: Clear DS data Type: Transact-SQL scrip Run as:	P ot (T-SQL)	▼.	
	Database:	BMS_DS	▼	
	Command:	exec usp_Clear_Data		
Connection	Select All			
Server: vaaussqlbms200.aac.dva.v Connection: VHAMASTER\VHAISHGau View connection	Copv Paste Parse			
Progress		4	<u>v</u>	
Ready			Next Previous	
			OK Cancel	

Figure 14- Clear DS data

Step 13. On Success Re-enable Incremental

Job Step Properties - C	On Success Re-enabl	e Incremental	- • ×
Select a page	🔄 Script 👻 📑 Hel	p	
General Advanced	Step name: On Success Re-ent Type: Transact-SQL scrip Run as: Database:	ble Incremental bt (T-SQL) msdb	▼
	Command: Open	EXEC msdb.dbo.sp_update_job @job_nam @enabled=1	e=N'BMS - F 🔺
Connection			
Server: vaaussqlbms200.aac.dva.v Connection: VHAMASTER\VHAISHGau View connection	Paste Parse		
Progress		< III	
C Ready		Next	Previous
		ОК	Cancel

Figure 15-BMS-Re-enable Incremental

Step 14. On Fail Re-enable Incremental

📑 Job Step Properties - C	On Fail Re-enable In	crementa 📃 🗖 💌
Select a page General Advanced	Script V Prain Re-enable II Step name: On Fail Re-enable Type: Transact-SQL scrip Run as:	Incrementa
Connection Server: vaaussqlbms200.aac.dva.v Connection: VHAMASTER\VHAISHGau View connection	Database: Command: Open Select All Copv Paste Parse	msdb EXEC msdb.dbo.sp_update_job @job_name=N'BMS - F @enabled=1 GO
Progress Ready		III Next Previous
	Figure 16-0	OK Cancel

Step 15. Shrink BMS_DS: Shrinks the file with the id 2 (the log file, to the size of 1 MB.

🥫 Job Step Properties - Shrink	« BMS_DS			
Select a page	🛒 Script 👻 📑 Help			
General Advanced	Step name:			
	Type: Transact-SQL script (T-	SQL)		
	Run as:			
				•
	Database:	BMS_DS		-
	Command:	DBCC SHRINKFILE (2, 1);		A
	Open			
	Select All			
	Сору			
	Paste			
Connection	Parse			
View connection properties				
Progress		1		V
Ready			Next	Previous
			OK	Cancel

Figure 17-BMS-Shrink

Step 16. Clear data from BMS_DW: the data warehouse database is cleared, meaning that its tables will become empty, but of course exceptions can exist and they really do - tables that contain static data and should not be removed. Thus, the database becomes ready to receive all the source data.

🧮 Job Step Properties - Clear	data from DW			
Select a page	🛒 Script 👻 📑 Help			
General Advanced	<u>S</u> tep name: Clear data from DW			
	<u>Type:</u> Transact-SQL script (T-	SQL)		•
	<u>R</u> un as:			
	<u>D</u> atabase:	BMS_DW		-
	Co <u>m</u> mand:	EXEC usp_ETL_Clear_Data		A
	<u>O</u> pen			
	Select <u>A</u> ll			
	Сору			
	Paste			
Connection	Pars <u>e</u>			
View connection properties				-
Progress		T		
Heady			<u>N</u> ext Pr	e <u>v</u> ious
			ОК	Cancel

Figure 18-BMS-Clear Data

Step 17. Call procedure full on BMS_DW: it inserts first the vocabulary data, then EIS entities (ETL dimension tables) and BMS acts (ETL facts tables).

🧮 Job Step Properties - Call fu	Ill stored procedure on	DW		
Select a page	🔄 Script 👻 📑 Help			
General				
Advanced	<u>S</u> tep name:			
	Call full stored procedure	e on DW		
	<u>T</u> ype:			
	Transact-SQL script (T-	SQL)		
	<u>R</u> un as:			
				•
	D			
	<u>U</u> atabase:	BMS_DW		
	Co <u>m</u> mand:	EXEC usp_ETL_ProcessFull		A
	Open			
	Select <u>A</u> ll			
	<u>С</u> ору			
	<u>P</u> aste			
Connection	Pars <u>e</u>			
Connection				
View connection properties				
Progress				
Alle Deadu				
heady			Next F	Previous
				Canaal

Figure 19- BMS-Call Procedure Full

Step 18. Copy users in history database: adds users in user in the table from BMS History database. This step is needed because some reports need to display users that did certain insert/update/delete operations in the application.

🧟 Job Step Properties - Copy	users in history databa	se	-	
Select a page	🛒 Script 👻 📑 Help			
😭 General				
Advanced	<u>S</u> tep name:			
	Copy users in history dat	tabase		
	Type:			
	Transact-SQL script (T-)	SQLI		-
	<u>H</u> un as:			
	I			
	Database:	BMS DW		–
	Co <u>m</u> mand:	EXEC usp_Insert_Users		<u> </u>
	<u>O</u> pen			
	Select All			
	<u>С</u> ору			
	Paste			
Connection	Pars <u>e</u>			
View connection properties				
P				<u> </u>
Progress			► ►	1
Ready			Nut I reit	
~4p*				<u></u>
			OK Cance	<u>ا ا</u>

Figure 20- Copy Users in History Database

For each step a log file can be set, see screenshot below for step 7:

📴 Job Step Properties - Copy (users in history databa	se	
Select a page	🔄 Script 👻 📑 Help		
General Advanced	On success action:		
	Retry attempts:		Retry interval (minutes):
	On failure action:		
	Go to step: [9] start job	and send out email notice	
	Transact-SQL script (T-S	SQL)	
	Output file:	D:\BMS\Data\Job_logs\BMS_Reports_Log.txt	View
	Append output t	to existing file	
	Log to table		View
	Append output t	o existing entry in table	
	Include step output i	in history	
	Run as user		
Connection			
			
View connection properties			
Progress			
Ready			
			DK Cancel

Figure 21-BMS Reports Full Path File Log

The job can be run by right clicking on the job and then choosing "Start job at step...", selecting the first job in the appearing window and then hitting the Start button. Then a smaller window remains open, showing the progress of the execution and its result: success or failure. The detailed results can be found in the log file that you set at the installation phase. If an operation fails at any step, the job will quit. This setting can be changed in the step's *Advanced* tab.

Step 19. Clear data from BMS DS database.

Calastration		And the second se
Select a page	🕁 Script 👻 🚺 Help	
General		
Advanced	Step name:	
	Clear data from DS	
	Type:	
	Transact-SQL script (T-SQL)	2
	<u>R</u> un as:	
	1	<u> </u>
	Database: BMS_DS	×
	Command: EXEC usp_Clear_Data go	<u> </u>
	<u>Q</u> pen	
	Select All	
	Сору	
Connection	Paste	
	Parce	
	1002	
View connection properties		
Progress	ort.	
De d		1

Figure 22- Clear Data from DS

Step 20. This step is only invoked if any of the prior steps of the BMS Report Full job fail. Once invoked, email notification of the failure is sent to the BMS Technical team and BMS Report Full job is restarted.

Read and the second	TRA IN STRAND				
electopage	P Poubl - D Helb				
Advanced					
	Step name.				
	Istan por and send out email notice				
	Lype				
	Transact-SQL script	(T-SQL)			
		a second s			
	Hun as:				
	1				
	Database				
	Darapase:	master			
	Command	declare @query varchar(max)			
	Contraction of the second seco	set Gaussu - Nicki Shitt DBA, the job "BMS - Reports Full" on server "			
	Open	+ CONVERT(sysname, SERVERPROPERTY['servername']) + '			
		 failed. There is a script to re-start it automatically, please login the server to double check. If the job is not running, please start it at step 1 manually. 			
	Select Al				
	Conv	It is a very Important job and we need it run again every time it fails."			
		 EXEC msdb.dbo.sp_send_dbmail @prolite_name = 314c SQL DBA', @recipients = 314CSQL DBA@va.gov: Scott.Herman@va.gov: Vicki 			
	Paste				
	-	AITCHASBMSSustainment@va.gov;			
	Parse	01TPDHPSBMSTiel2@va.gov; 01TPDHPSBMSTiel2@va.gov;			
onnection		OITPDHPSBMSTechnical@va.gov'.			
		@mportance= high, @body = @query.			
		@subject = 'job "BMS - Reports Full" failed, please read more and take			
		90			
s≱ View connection properties		EVEC with the initial start inh 'start inh'			
		go			
logiess					
atta Beata					
ricouy.		Next Previous			
-8.5-		Pregous			

Figure 23-BMS Start Job and Send Email

2.4.2 BMS Incremental

BMS Incremental logic is to keep the BMS_DW database up to date without having to delete all the existing data. The following picture shows the job's steps.

🚰 General								
Steps Schedules	Job step	o list:						
Alerts	Step	Name	Туре	On Success	On Failure			
Notifications	1	Start job incremental	Transact-SQL	Go to the next	Quit the job re			
" Targets	2	Check state job full	Transact-SQL	Go to the next	Quit the job re			
	3	Call procedure sp_infoworld_incremental_package	Transact-SQL	Go to the next	Quit the job re			
	4	Call procedure incremental DW	Transact-SQL	Go to the next	Quit the job re			
	5	Recalculate statistics	Transact-SQL	Quit the job re	Quit the job re			
onnection								
onnection								
onnection	Move st	tep: <u>Start</u> step:						
View connection properties View connection properties Ready	Move st	tep: Start step: - 1:Start job incremental						
View connection properties	Move st	tep: Start step: I:Start job incremental <u>New [nsert Edt</u>	Delet	e				

Figure 24- BMS- Report Incremental Job

Step 1. Start job incremental: this is only an informative step for the log file.

📴 Job Step Properties - Start	job incremental			
Select a page	🖳 Script 👻 📑 Help			
😭 General				
Advanced	Step name:			
	Start job incremental			
	Туре:			
	Transact-SQL script (T-	SQL)		•
	Run as:			
				•
	Deteksor			
	Database:	BMS_DS		
	Command:	declare @d datetime		*
	Open			
	Select All			
	Сору			
	Paste			
	Parse			
Connection				
View connection properties		1		
		1		-
Progress		<u>.</u>		F
Ready				
			Next	Previous
				1
			OK	Cancel

Figure 25-BMS-STart Job Incremental

Step 2. Check state job full: it checks the state of the BMS full job described above in order to be sure that it is not currently running, in which case the incremental job cannot continue.

🧱 Job Step Properties - Check	state job full		
Select a page	🔄 Script 👻 📑 Help		
General			
Advanced	Step name:		
	Check state job full		
	Туре:		
	Transact-SQL script (T-	SQL)	▼.
	Run as:		
			▼ .
	Database:	BMS_DS	•
	Command:	exec dbo.usp_Check_Job 'BMS - Reports Full'	A
	Open		
	Select All		
	Paste		
	Parce		
Connection			
June 2010 Street			
			-
Progress		न	
Ready			
The second secon			Next Previous
			OK Cancel

Figure 26-BMS-Check State Job Full

Step 3. Call procedure sp_infoworld_incremental_package: makes all the necessary updates from the source databases to the BMS_DS database. When rows are deleted in the source tables, an update is made in BMS_DS database (in the necessary tables) by changing a flag column's value to 1 (deleted) from 0 (existing).

🧮 Job Step Properties - Call st	ored procedure sp_info	oworld_pachet_full	_ 🗆 ×			
Select a page	🛒 Script 👻 📑 Help					
General Advanced	Script - Help Step name: Call stored procedure sp_infoworld_pachet_full Type: Transact-SQL script (T-SQL) Run as: Database: Database: Database:					
Connection	Command: Open Select All Copy Paste Parse	EXEC sp_infoworld_pachet_full				
View connection properties Progress Ready		4	Next Previous			
			OK Cancel			

Figure 27-BMS-Call Procedure Properties

Step 4. Call procedure incremental DW: will search for any new, updated or deleted row in BMS_DS database's tables in order to do the correspondent operations in its tables.

🧮 Job Step Properties - Call p	rocedure incremental D	w		_ 🗆 🗡		
Select a page	🕵 Script 👻 📑 Help					
😭 General						
Advanced	Step name:					
	Call procedure incremental DW					
	Tuper					
	Type:					
	Transackoge script (1-50E)					
	Run as:					
	Y					
	Database:	BMS_DW		_		
		evec [usp_FTI_ProcessIncremental]:				
	Command:					
	Open					
	Open					
	Select All					
	Сору					
	Paste					
Connection	Parse					
Connection						
View connection properties						
Progress		त				
Beadu						
Incluy			Next	Previous		
			ОК	Cancel		

Figure 28-BMS-Call Procedure Incremental

For each step a log file can be set, see screenshot below for step 4:

🧱 Job Step Properties - Call p	ocedure incremental D	w			
Select a page	🔄 Script 👻 📑 Help				
General	On success action: Go to the next step		_		
	Retry attempts:		Retry interval (minutes):		
	On failure action:				
	Quit the job reporting failure				
	Transact-SQL script (T-SQL)				
	Output file:	D:\BMS\Data\Job_logs\BMS_Reports_Log_Incre	View		
	Append output to existing file				
	Log to table		View		
	🗖 Append output t	o existing entry in table			
	Include step output i	in history			
	Run as user				
Connection					
View connection properties					
Progress					
Ready					
		0	Cancel		

Figure 29- BMS Incremental Path File Log

Step 5. If the duration of the last completed incremental job exceeded 3 minutes, then recalculate statistics to improve query plan execution for the next job run.

🚾 Job Step Properties <u>- Recalc</u>	ulate statistics		_ 🗆 🗙		
Select a page	🛒 Script 👻 📑 Help				
General Advanced	Step name:				
	Hecalculate statistics				
	Туре:				
	Transact-SQL script (T-SQL)				
	Run as:				
	Database:	master	•		
	Command:	/* Declare variables */ declare @duration integer			
	Open	/* Select duration of previous completed job */ Set @duration = ISELECT			
	Select All	-jname,			
	Сору	h.run_duration			
	Paste	msdb.dbo.sysjobs AS j INNER JOIN			
Connection	Parse	{ SELECT job_id, instance_id = MAX(instance_id) FROM msdb.dbo.sysjobhistory			
		where run_duration > 10 GROUP BY job_id			
		ON j.job_id = l.job_id			
		msdb.dbo.sysjobhistory AS h			
View connection properties		AND h.instance_id = l.instance_id	_		
Progress		where j.name = 'BM5 - Reports Incremental')	▼		
Ready					
To a port		Next	revious		
		ОК	Cancel		

Figure 30- BMS-Call Procedure Recalculate Statistics

2.4.3 BMS Reports Windows Management Instrumentation (WMI)

This job runs a process through Windows Task Scheduler "BMS - Execute WMI_UserGroup" that takes all the users and user groups from the Active Directory and inserts them in BMS_DW database.

In order to run the process successfully, the user needs to configure WMI_UserGroup.config file (Reference Table 12 - WMI User Group Configuration Parameters) and set the connection of the database in the Connections.xml file. These files are stored in the folder where WMI_UserGroup application is installed.

The steps performed by this process include the following:

Below are the steps:

- Deletes from the following tables from the BMS_DW database: dbo.DOMAIN_USER_GROUP dbo.DIM_DOMAIN_USER dbo.DIM_DOMAIN_GROUP
- 2. Inserts the domain groups (all) into dbo.DIM_DOMAIN_GROUP table
- 3. Inserts the users (all) into the dbo.DIM_DOMAIN_USER table
- 4. Inserts the users group information into the dbo.DOMAIN_USER_GROUP table.

Bed Management Solution (BMS) Technical Manual
- a. Here it determines who belongs to what group and adds them, since a single user can belong to many groups
- 5. Writes the log messages
- 6. Closes the connections
- 7. Exits

Windows Task Scheduler calls a Batch script D:\BMS\Data\WMI_UserGroup\WMI_Wrapper.BAT The script sets up some variables for Log Files. The 'Start' time is recorded in a variable then calls the WMI_UserGroup binary file. After the execution of the binary file the 'End' time is recorded. Calculations for the duration are done between the 'Start' and 'End' times, the metrics is sent to Introscope via a batch script which calls a Powershell script to send the Data. If the 'Duration' was less than 8 minutes, the base wrapper script is called again with an additional parameter of "2" added (Second run).

Introscope records the 'Duration' and 'Exit' Results of the binary executable. If the second run also fails to complete with a duration longer than 8 minutes, email alerts are sent via the Introscope rules engine.

2.5 Ward Whiteboard Kiosk Mode Display Configuration (BMS Whiteboard Kiosk Setup)

An electronic kiosk (or computer kiosk) houses a computer terminal designed to function while preventing users from accessing system functions. BMS has adopted the use of electronic kiosks to provide sites with the capability to setup Large Screen Displays for the BMS Ward Whiteboard for greater visibility. The Whiteboard Kiosk is read only access page that presents an overview of the beds in the current facility (or in the selected ward) and allows the user to assess at a glance the bed availability in their facility (or ward). Kiosk mode locks down the user interface to protect applications from accidental or deliberate misuse. These displays should be placed carefully, considering that confidential patient data (Social Security Number) should not be in view of people who are not authorized to see it.

acility Census	1896	Т	otal Number Pending/	Today's Scheduled	Admission: 10	7/0		T CR censu	\$ 33%
860	PT	STAFF	ATTENONG	сомиритя	DISCH	STATUS	WARD	HOP	LOS WARD DOD:HH
R400-1T									
R400-2T									
R400-3T									
8500-1T									
R500-2T									
R500-3T	The second s		SHALE, JOHN				T CR - GEHERAL CWT/TR	()	17/04
8200-11								ST.C.	
8700-2T	females.		HINCE, KARLA				T CR - GENERAL CWT/TR	()	33:04
R700-3T	and the second s		SHALE, JOHN				T CR - GENERAL CWT/TR	8	21.04

Figure 31- BMS Ward Whiteboard Screen

Setting up for the BMS Whiteboard Kiosk involves a series of steps that most often are performed by IT staff with access to Local Site network configuration and/or staff with authority to request the required Local Site and Active Directory (AD) network configuration changes.

Steps for configuring the BMS Whiteboard Kiosk can be divided into three major categories:

- The Ward Whiteboard Kiosk URL
- The Network User for BMS Kiosk Access
- The Kiosk Workstation for Local Site Use

Each category involves a series of required steps to ensure successful operation of the Kiosk. Following is an outline of the process to setup and configure the BMS Whiteboard Kiosk for a local site.

- 1) Create the Ward Whiteboard Kiosk URL. See details in 2.5.1 Create the Ward Whiteboard Kiosk URL
 - a) Determine the BMS Whiteboard Parameters for Kiosk Operation and Setup
 - b) Test the URL in a browser
- 2) <u>Set up a default user for the kiosk. See details in</u> 2.5.2 Set up a default user for the BMS Kiosk
 - a) Set up the Network User for BMS Access
 - b) Configure the Whiteboard Kiosk Default Login User in BMS
 - c) Assign a Role to the Whiteboard Kiosk Default User in BMS
- 3) Set up the Workstation / Kiosk Machine. See details in 2.5.3 Set up the Workstation / Kiosk Machine
 - a) Disable the Screen Saver
 - b) Configure the Power Settings to Disable Sleep and Stand by Mode
 - c) Configure Auto Log in Option and stop MS Lync from opening upon start up
 - d) Set the URL as the Home Page in IE
 - e) Add https://REDACTED.va.gov to "Trusted Sites" in IE
 - f) Add to the start-up commands (Windows) the launch of the browser
 - g) Close IE, and restart to test
 - h) Set Registry Keys to configure Kiosk for local Site use

2.5.1 Create the Ward Whiteboard Kiosk URL

The Ward Whiteboard display uses parameters to determine the behavior of the display. For example, the whiteboard can display a specific ward or ALL wards for a site by setting the parameter **wardName**. Below is a description for each whiteboard display parameter along with available options for each.

Parameter	Short Description	Options
facilityCode	Code of facility (e.g., BROCKTON = BRK).	Enter the 3 character facility ID.
wardName	Name of BMS Ward Name. To see all the wards the value that needs to be configured is ALL.	These are the BMS WARDS as defined in the Facility, Site Options, VistA Ward Add/Edit. The Ward name value should match the "BMS WARD GROUP TEXT". A single ward can be entered or the value "ALL" to display all the wards at the facility.
splitScreen	To split the page in two tables enters the value "Yes".	Yes No
displayPTCode	How the patient should be displayed under the column "Patient" (full name or 1st+Last 4) or LastName. LastName is required for Kiosk mode due to Privacy regulations.	FirstAndLast4 LastName
genderColorCode	To change the background color for the row according with patient's gender.	Blue/Pink None
displayFooterCensus	To view the footer census.	Yes No
displayStaffAttending	What column is displayed in the table? (Staff column, Attending column or both).	Staff and Attending Staff Attending
scrollRate	The timer interval will affect the scrolling speed. This parameter can be absent. (If specified then it represents seconds).	Null or an integer value.

Table 15-Ward Whiteboard URL Configuration Parameters

2.5.1.1 Determine the parameters for the Kiosk, and create the URL

Sample URL to display All Wards for site BRK:

https://REDACTED.va.gov/WardWhiteboardUrl?facilityCode=BRK&wardName=ALL&s plitScreen=No&displayPTCode=LastName&genderColorCode=Blue/Pink&displayFoo terCensus=Yes&displayStaffAttending=Staff%20and%20Attending&scrollRate=20

2.5.1.2 Test the URL

Once you have the URL, type it into a browser to test. The BMS Ward Whiteboard should come up. Note: a site can have a different URL for each kiosk.

2.5.2 Set up a default user for the BMS Kiosk

Create a network service account for accessing the BMS page. Make sure that it is in an Organizational Unit (OU) that will not get the Enterprise System Engineering (ESE) Federal Desktop Core Configuration (FDCC) / US Government Configuration Baseline (USGCB) User Settings. Set the "Log on to" so the account can only log onto the kiosk PC you are setting up.

2.5.2.1 Set up the Network User for BMS Access

• Create AD User with non-expiring password under Service Accounts for the local site. If you are not an AD administrator then provide the following instruction to the AD along with your request for a new service account.

In Active Directory Create a Generic User with a Non-Expiring password in Service Accounts for your location with Access to All Computers. NOTE: You will create a single ID, not one for every PC. Also, do not setup auto login with this generic account at this point as PCs will automatically lock at this level. Right click the "Service Accounts" folder (VXX.med.va.gov/VISNxx/Facility(XXX)/Service Accounts) and select New...User. NOTE: Do not use the "Service Accounts" folder directly under vXX.med.va.gov. Under First Name, enter vhaXXX (such as vhaSTLBMSUser) Enter the same under "User Login Name" Enter a password when prompted and select Uncheck "User must change password at next logon" Check "Password never expires" Click "OK" at the warning that the user will not be prompted to change the password. Click "Next" At the top of the screen the path should read, "vXX.med.va.gov/VISNxx/Facility(XXX)/Service Accounts" Uncheck "Create an Exchange Mailbox" Click "Next" Review confirmation screen for accuracy and click "Finish". Your new account should be available in your "Service Accounts" list. You may have to refresh your list to see it. • Double-click your new account, in the description field, add

- SERVICE ACCOUNT: VHAxxxxxxx(YourUserName): BMS DISPLAY
- In the Account tab, ensure "This user can log on to "All computers". Do not identify any specific computers.
- When you are finished, your new account in the Service Accounts list should only show a Name, Type, and Description. All other fields should be blank.

2.5.2.2 Configure the Whiteboard Kiosk Default Login User in BMS

For the current facility that will display the associated Whiteboard page, a default user needs to be configured in BMS application for the Ward Whiteboard Kiosk.

To configure the Whiteboard Kiosk Default User:

• Go to the BMS Site Home Page

- Click on the Site Options link
- Click on the Facility Setting link
- Fill the fields "Whiteboard Kiosk Default User Name:", "Whiteboard Kiosk Password:" and "Whiteboard Kiosk Password Confirm:" with the BMS Service Account ID

PARAMETER	OPTIONS			
BMS Server Time Zone	CENTRAL STANDARD TIME			
Facility Site Time Zone	CST 💌			
Auto-Removal Patients Pending Bed Placement List?	Yes			
Integrated Facility?	No			
Facility Name:	VA NORTH TEXAS HEALTH CARE SYSTEM: DALLAS VA			
Facility Address 1:	4500 S. LANCASTER RD.			
Facility Address 2:	DALLAS, TEXAS 75216			
Facility Point-of-Contact:	JEFFREY D ALLEN			
Facility POC Email:	JEFFREYD.ALLEN@VA.GOV			
Facility POC Telephone:	214 857 4607			
Local Time Adjust:	0			
EMS Default User Name:	vhantxbedmgmt			
EMS Password:				
EMS Password Confirm:				
Whiteboard Kiosk Default User Name:	vhantxbedmgmt			
Whiteboard Kiosk Password:				
Whiteboard Kiosk Password Confirm:				
Sub	bmit Cancel			
	A			

Figure 32-Facility Settings

• Click Submit

2.5.2.3 Assign a Role to the Whiteboard Kiosk Default User in BMS

Each facility must assign the BMS "EMS USER" Role to the Service Account ID created to run the Whiteboard Kiosk URL. This assignment can be done from the BMS Admin Section Add/Edit BMS User hyperlink or Facility Site Options BMS User Add/Edit hyperlink.

- Click the Select Existing NT User Name button
- Select the correct VISN Domain from the left Drop Down Box.
- In the User Name box Enter the BMS Service Account ID created for the BMS EMS/Whiteboard Kiosk. Then click the Find button
- Click the Selected Radio button for the user. Then click the Select button.
- In the EMS User box, select "Yes". All other roles should be "No".
- In the Default Region box, select the correct Region.
- In the Default VISN box, select the correct VISN.
- *In the Default Site box, select your Site.*
- In the READ Access box, select "Yes".
- In the WRITE Access box, select "Yes".

Admin Menu		ADMINISTRATION SEC	TION - USERADD/EDIT		Logout
	Select Existing NT User Name			Select Default	
	PARAMETER	NT User Name	v17 med va gov/vhantvbedmgmt	OPTIONS	
		Support User?	No.		
		National User?	No		
		Regional User?	No		
		VISN User?	No		
		Admin User?	No		
		Audit Log User?	No		
		Site User?	No		
		EMS User?	Yes		Ν
		EMS Supervisor User?	No		13
		Guest User?	No		
		Default Region:	2 🔹		
		Default VISN:	17 💌		
		Default Site:	NTX - VA NORTH TEXAS HEAL	TH CARE SYSTEM: [
		READ Access?	Yes		
		WRITE Access?	Yes		
Display only the facilities	es with permissions				
READ Access	WRITE Access	Region	VISN	Facility	
V	v	Region 2	VISN 17	DALLAS (549, NTX)	*
۲		m			

Figure 33- Whiteboard Kiosk User Role Assignment

• Click Submit

2.5.3 Set up the Workstation / Kiosk Machine

After setting up the workstation / Kiosk machine, it will automatically log in to Windows, and automatically log in to BMS.

2.5.3.1 Disable Screen Saver

In order to display the Whiteboard page continuously the screen saver needs to be disabled.

NOTE: The Windows menu that allows the disable of the screen saver might be different from one version of Windows to another. For example, for Windows 7 the needed operations are:

- Right click on the desktop
- Click Personalize

- 0 Control Panel + All Control Panel Items + Personalization • 47 Search Control Panel 2 Control Panel Home Change the visuals and sounds on your computer Change desktop icons Click a theme to change the desktop background, window color, sounds, and screen saver all at once. Change mouse pointers My Themes (0) Change your account picture Get more themes online Aero Themes (7) Basic and High Contrast Th High Contrast White Windows 7 Basic Windows Classie High Contrast #1 High Contrast #2 High Contrast Black See also 0 Display 20 Taskbar and Start Menu Screen Saver Sounds Ease of Access Center
- Click on the screensaver button on the lower-right part of the page

Figure 34- Screen Saver Option

• Select None from the screensaver drop down on the displayed form

creen Saver	
Screen saver	▼ Settings Preview
Wait: 1	minutes 🔲 On resume, display logon screen
Power manager	nent
Conserve energ brightness and <u>Change power</u>	y or maximize performance by adjusting display other power settings. settings

Figure 35- Screen Saver Settings Window

• Click OK.

2.5.3.2 Configure Power Settings: Disable Sleep and Stand-by Mode

In order to display the Whiteboard page continuously the power settings need to be adjusted so that the computer will never enter into hibernate or stand-by and also the screen will never turn off.

NOTE: The Windows menu that allows the configuration of the power settings might be different from one version of Windows to another. For example, for Windows 7 the needed operations are:

- Go To Control Panel
- Select Power Options

just	your computer's settings								View by: Large icons *
~	Action Center	1	Administrative Tools		AutoPlay	*	Backup and Restore		BitLocker Drive Encryption
	Color Management		Credential Manager	de la	Date and Time		Default Programs		Desktop Gadgets
-	Device Manager	-	Devices and Printers		Display	•	Ease of Access Center	1	Flash Player (32-bit)
S	Folder Options	A	Fonts		Getting Started	43	HomeGroup	R	Indexing Options
¢.	Intel(R) Graphics and Media		Internet Options		Java (32-bit)	•	Keyboard		Location and Other Sensors
	Mail	Ì	Mouse	-	Network and Sharing Center		Notification Area Icons		Performance Information and Tools
	Personalization	3	Phone and Modern		Power Options	园	Programs and Features	-	Realtek HD Audio Manager
P	Recovery	P	Region and Language	-	RemoteApp and Desktop Connections	0	Sound	Ş	Speech Recognition
9	Sync Center	-	System	0	Taskbar and Start Menu		Troubleshooting	82	User Accounts
	Windows CardSpace	鼬	Windows Defender	-	Windows Firewall		Windows Update		

Figure 36- Power Options

• Click on "Change Plan settings" for the active plan

🕞 🔵 🗢 😺 + Control Panel +	All Control Panel Items Power Options		• + Search Control Panel	,
Control Panel Home Control Panel Home Control Panel Home Require a password on wakeup Choose what the power button do Create a power plan Console when to turn off the doplay Change when the computer sleeps	All Centrel Panel Items	ergy. Make a plan active by memoria about power Change plan settings Change plan settings Change plan settings	 49 Search Castral Panel 	
See also Personalization				

Figure 37- Change Plan Settings Option

• Select "Never" from the drop downs associated with "Turn off the display" and "Put the computer to sleep"

the second s	and the second s	0
Goov V S + Control Panel + All Control Panel Items + Power Options + Edit Plan Settings		Q
Change settings for the plan: Balanced Choose the sleep and display settings that you want your computer to use.		
Turn off the display: Never •		
Put the computer to sleep: Never •		
Change advanced power settings		
Restore default settings for this plan		
Sere charges Cancel		

Figure 38- Power Options Settings

• Click "Save changes"

2.5.3.3 Configure Auto-login Option and stop Microsoft Lync from opening upon start up

Configure Auto-Login: The computer that will display the Whiteboard page needs to have the auto-login configuration set to" true".

NOTE: The Windows menu that allows the configuration of the auto-login settings might be different from one version of Windows to another. For example, for Windows 7 the needed operations are:

• Press the Windows key + R on your keyboard to launch the "Run" dialog box.

×
ernet
•
eges.
e
s

Figure 39- Run Window

• *Type in "control userpasswords2"*



Figure 40- Run Window with Comman Entered

• Press Enter. The User Accounts window will display.

sers Advanced	
Use the list belo and to change	ow to grant or deny users access to your computer, passwords and other settings. er name and password to use this computer.
User Name	Group
🙀 define68	Administrators
Decenard for definefs	Add Remove Properties
Password for define68 To change y Password.	Add Remove Properties our password, press Ctrl-Alt-Del and select Change Reset Password

Figure 41- User Accounts Window

• Uncheck the option "Users must enter a user name and password to use this computer" for the BMS Default Kiosk User Account

ers Advanced		
Use the line of th	st below to grar ange password er a user name a puter:	nt users access to your con s and other settings. Ind password to use this co
User Name	Domain	Group
Administrator	Laptop	Administrators
Billy	Laptop	Users
S guyt	СР	Remote Desktop U
Add	Remo	Properties
Password for Adr To cha click R	ninistrator nge the passwo eset Password.	ord for Administrator,
	Re	eset Password

Figure 42- User Accounts

• Click "OK"

Stop Microsoft Lync from opening at startup: **To stop Microsoft Lync from opening at startup follow the steps below**

- From the Start Menu,
- Go to All Programs >Microsoft Lync
- Open Microsoft Lync
- Go to Tools>Options>Personal
- Uncheck "automatically start Lync when I log on to Windows" & "Show Lync in foreground when it starts".

2.5.3.4 Set the URL (from step 2.5.1) as the Home Page in Internet Explorer

The specific Ward Whiteboard Kiosk URL needs to be configured as the Home-Page for the intended browser. The menu to set the default home-page might differ from one browser to another.

For example, for Internet Explorer (IE) 9.0 the user needs to:

• Select Tools menu

about:blank			Q + C X Slank Page	×
<u>File Edit View Favorites</u>	ools <u>H</u> elp		o blank ruge	
X 👿 Secure Search	Delete browsing history InPrivate Browsing Tracking Protection ActiveX Filtering Diagnose connection problems Reopen last browsing session Add site to Start menu	Ctrl+Shift+Del Ctrl+Shift+P		
	View downloads Pop-up Blocker SmartScreen Filter Manage add-ons Compatibility View	Ctrl+J		
	Subscribe to this feed Feed discovery Windows Update F12 developer tools	*		
	Skype Click to Call OneNote Linked Notes Send to OneNote Internet options			

Figure 43- Tools Menu of Internet Explorer

- Select Internet Options
- On the General tab, under the homepage text field enter the URL
- Click OK

Internet Options
General Security Privacy Content Connections Programs Advanced
Home page
To create home page tabs, type each address on its own line. http://vaserver.17000 //Ward/WhiteboardUri? facilityCode=BRK&wardName=ALL&splitScreen=No& displayPfCode=FirstAndLast4&genderColorCode=BI
Use current Use default Use blank
Delete temporary files, history, cookies, saved passwords, and web form information.
Delete browsing history on exit
Delete Settings
Change search defaults. Settings
Tabs Change how webpages are displayed in Settings tabs.
Appearance Colors Languages Fonts Accessibility
OK Cancel Apply

Figure 44- General Tab of Internet Options

2.5.3.5 Add BMS to the "Trusted Sites"

To add BMS to "Trusted Sites" in Internet Explorer

- Go to Tools>Internet Options>Security>Trusted sites>Sites
- In the "Add this website to the zone:" field, enter https://REDACTED.va.gov
- Click Add, Click OK

2.5.3.6 Add the launch of the browser to the Windows start up commands.

The next step is to add to the startup commands the launch of the chosen browser.

NOTE: This operation might differ from one version of Windows to another. For example, for Windows 7 the steps needed are:

- Click Start
- Select All Programs
- Right click on the Startup folder
- Select Open



Figure 45- Open Option

• Create a shortcut of the Internet Explorer and copy it to Startup folder

								-	
🕥 - 📕 « System (C:) 🕨 User	s ▶ adriand ▶ AppData ▶ Roaming ▶ N	ficrosoft + Windows + Start M	∕lenu ► Program	ns 🕨 Startup		• +7 Search Startup			
rganize 👻 Include in library 👻	Share with 👻 New folder						100	• 🗆	
Favorites	Name	Date modified	Туре	Size					
E Desktop Downloads Recent Places	🗭 Internet Explorer	7/31/2012 3:37 PM	Shortcut		2 KB				
i Libraries i Documents J Music i Pictures i Videos									
Computer									
🕞 Date (D:) u Network									
1 item									

Figure 46- Internet Explorer Shortcut

2.5.3.7 Test the Kiosk

Close Internet Explorer. Restart Internet Explorer. The BMS Ward Whiteboard for the Kiosk should come up.

2.5.3.8 Set the Registry Keys to configure the Kiosk for local site use.

The purpose of the following steps is to configure Kiosk workstation to serve one function only: BMS Ward Whiteboard display. The following instruction leads you through a series of steps that effectively lock down the workstation for this purpose. Access to workstation software and/or desktop will be prevented after the configuration setup is complete. The Whiteboard Kiosk is read only.

*It is recommended that prior to performing the configuration steps outlined in this section a backup of the existing system be created for rollback / recovery purposes, and that a restoration point be created.

1) Modify Registry Settings

Restriction.reg

Windows Registry Editor Version 5.00 [HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Microsoft\Internet Explorer\Restrictions] "NoBrowserContextMenu"=dword:0000001 "NoFileOpen"=dword:00000001 "NoOpenInNewWnd"=dword:00000001

Figure 47-Windows Registry Editor

2) Run Restrictions.reg by double-clicking filename from Windows Explorer. Verify settings have been applied.

Bed Management Solution (BMS) Technical Manual 3) Modify Local Group Policy Settings

For local group policy changes run gpedit.msc and make the following chan	nges: User
Configuration\Administrative Templates\System\Ctrl+Alt+Del Options	5
Remove TaskManager	Disable
Remove Lock Computer	Enable
Remove Change Password	Enable
Remove Logoff	Enable
User Configuration\Administrative Templates\Control Panel\Display	
• Password protect the screen saver	Disabled
Verify all settings have been applied. The purpose of these settings is to	lock down the
workstation for one purpose only, BMS Whiteboard Kiosk.	

4) Reboot Kiosk Machine to test set up.

*Note; if Kiosk continually "freezes", please contact the Service Desk to have an IE Refresher script installed.

2.6 Whiteboard Snapshot Configuration

In order to configure the Whiteboard snapshot certain steps, need to be completed:

- 1. Create snapshot folder
- 2. Define network share
- 3. Assign rights to user
- 4. Assign snapshot folder path to ward group
- 5. Associate scheduler with the whiteboard report

Suppose the goal is to configure the settings for two BMS Ward Groups: WARD GROUP 1 and WARD GROUP 2.

Assuming that these two Ward groups are in different physical locations, a designated workstation will be assigned for each one of them.

For the purpose of example, these workstations are called: WARDGROUP1-PC and WARDGROUP2-PC.

2.6.1 Create Snapshot Folder

On WARDGROUP1-PC and WARDGROUP2-PC, a folder should be created for this purpose. For example, assume that this folder is on the "C:" drive, like this "C:\WhiteboardSnapshot".

On Windows 7 the needed operations are:

- Click Start button
- Select All Programs
- Select Accessories folder
- Click Windows Explorer
- Go to C drive

Bed Management Solution (BMS) Technical Manual

- Right click on C drive
- Select New folder
- Enter the name of the folder, e.g. WhiteboardSnapshot

	A	the second second					- 1 - 2	search System (140	
Organize 🔹 🧊 Open 🛛 Include in	library • Share	with New folde	1(5	• 💷 (
Favorites Foundads Downloads Downloads Downloads Pocent Places Music Potrues Videos Videos Computer System (C:) Backup ChM Code Security De hat de modificat intepub Intel Perfogs Program Files Videos	Backup Quarantine	Child Code Security Dec	De luat Test	de modificat	instpub Users	btel	Perf.cgs	Program Files Code/Senerator_J og	Program Fil

Figure 48- Whiteboard Snapshot Folder

2.6.2 Define Network Share

For these two folders (one on each computer) the Network Admin needs to define network shares. For example, assume that the network share name on each computer is "WhiteboardSnapshot".

Note: The Windows menu that allows the configuration of folder sharing might be different from one version of Windows to another. For example, for Windows 7 the needed operations are:

• Navigate to the "WhiteboardSnapshot" folder, right-click it and choose Properties

1	WhiteboardSnapshot	
ype:	File folder	
ocation:	C:\	
Size:	0 bytes	
bize on disk:	0 bytes	
Contains:	0 Files, 0 Folders	
Created:	Today, July 31, 2012, 2 minutes	ago
ttributes:	Read-only (Only applies to file	es in folder)
	Hidden	Advanced

Figure 49- Whiteboard Snapshot Folder Properties

• *Go to Sharing tab and select Advance Sharing option.*

cilcidi	Sharing	Security	Previous Versions	Customize
Netwo	ork File and Whitel Not Sł ork Path:	d Folder Sh boardSnap hared	naring Ishot	
Advar	hare	ng		
Set c adva	ustom per nced shari	nissions, cr ng options.	reate multiple shares,	and set other
Set c adva	ustom pem nced sharir Advance	nissions, cr ng options. d Sharing	reate multiple shares,	and set other

Figure 50- Advanced Sharing Option

• In Advanced Sharing dialog, enable Share this folder option. It will automatically add folder's name as Share name.

d	vanced Sharing
[Share this folder Settings Share name:
	WhiteboardSnapshot
	Limit the number of simultaneous users to: 20
	Permissions Caching
	OK Cancel Apply

Figure 51- Share this Folder Option

2.6.3 Assign Rights to Master BMS Service Account User

The BMS Application runs under a service account. AICT has created the Windows User (acc\VAAACBMSPrd) as the master service account that the BMS Services runs under. The Windows user (aac\VAAACBMSPrd) that is configured to be the Login that runs the four BMS Windows Services needs to have full rights to these shares.

This user must have full control on each facilities file folder that is used to store the Whiteboard Contingency Reports.

On Windows 7 the needed operations are:

• Having Advanced Sharing window open click on Permissions button to set the folder's permissions.

hare Permissions		
Group or user names:		
K Everyone		
	Add	Remove
Permissions for Everyone	Allow	Deny
Full Control Change Read		

Figure 52- Permissions for Whiteboard Snapshot

• In the Permissions window click Add button to set the network user rights on the shared folder.

select this object type:	
Users, Groups, or Built-in security principals	Object Types
rom this location:	
vha.med.va.gov	Locations
inter the object names to select (<u>examples</u>):	Charle Name
	Check Names

Figure 53-Select Users or Groups Window

Click "Advanced" button to select user.

•

Jsers, Groups,	or Built-in security p	principals		Object Types
rom this locatio	n:			
oftinfo.ro				Locations
Common Queri	ies			
Name:	Starts with 💌	bmsuser		Columns
Description:	Starts with 💌			Find Now
Disabled	accounts			Stop
Non expir	ing password			
Days since la	ast logon:	Ŧ		P
earch results:				OK Cancel
earch results: ame (RDN)	E-Mail Address	s Description	In Folder	OK Cancel
earch results: ame (RDN)	E-Mail Address	s Description	In Folder	OK Cancel
earch results: ame (RDN)	E-Mail Address	s Description	In Folder	OK Cancel
earch results: ame (RDN)	E-Mail Address	s Description	In Folder	OK Cancel
earch results: ame (RDN)	E-Mail Address	s Description	In Folder	OK Cancel
earch results: ame (RDN)	E-Mail Address	s Description	In Folder	OK Cancel

Figure 54- Advanced Section of Select Users or Group Window

• Enter the name of the user (*aac*\VAAACBMSPrd) that runs the two BMS Windows Services. Click Find Now button.

Users, Groups, or Built-in security principals Trom this location: softinfo.ro Common Queries Name: Starts with bmsuser Description: Starts with Find Disabled accounts Non expiring password Days since last logon: Search results: Cok Car Search results: Cok Car Search results: Cok Car Search results: Cok Car Car Car Cok Car Car Car Car Car Car Car Ca	s, Groups, or Built-in security principals this location: fo.ro Locations fo.ro Locations for no Locations find Now Stop Disabled accounts Non expiring password ays since last logon: th results: (RDN) E-Mail Address Description In Folder ISUser cenut de A softimfo.ro/Softw	elect this object	ct type:			
irom this location: softinfo ro Locations Common Queries Name: Starts with bmsuser Description: Starts with Find Disabled accounts Non expiring password Days since last logon: Common Co	this location: fo.ro Locations mon Queries ame: Stats with bmsuser escription: Starts with Columns Find Now Stop Disabled accounts Non expiring password ays since last logon: th results: OK Cancel (RDN) E-Mail Address Description In Folder ISUser cerut de A softimfo.ro/Softw	Users, Groups,	or Built-in security pr	incipals		Object Types
softinfo.ro Locations Common Queries Name: Starts with bmsuser Description: Starts with Find Disabled accounts Non expiring password Days since last logon: Cerritory Cok Car ame (RDN) E-Mail Address Description In Folder BMSUser Cerut de A softinfo.ro/Softw	nmon Queries ame: Starts with bmsuser escription: Starts with bmsuser Disabled accounts Non expiring password ays since last logon: ch results: (RDN) E-Mail Address Description In Folder ISUser cerut de A softimfo.ro/Softw	rom this locatio	n:			
Common Queries Name: Starts with	nmon Queries ame: Starts with bmsuser columns Find Now Stop Disabled accounts Non expiring password ays since last logon: ch results: CAncel (RDN) E-Mail Address Description In Folder ISUser cerut de A softirfo.ro/Softw	softinfo.ro				Locations
Name: Starts with • bmsuser Description: Starts with • Find Disabled accounts Starts with • Starts with • Disabled accounts Starts with • Starts with • Days since last logon: • • Search results: OK Car ame (RDN) E-Mail Address Description In Folder BMSUser cenut de A softinfo.ro/Softw	ame: Starts with bmsuser columns. Find Now Disabled accounts Non expiring password ays since last logon: th results: (RDN) E-Mail Address Description In Folder ISUser cenut de A., softinfo.ro/Softw	Common Quer	ies			
Description: Starts with	escription: Starts with	Name:	Starts with 🔻	bmsuser		Columns
Disabled accounts Non expiring password Days since last logon: OK Car earch results: OK Car ame (RDN) E-Mail Address Description In Folder BMSUser cerut de A softinfo.ro/Softw	Disabled accounts Stop Non expiring password ays since last logon: ays since last logon: Model Model<	Description:	Starts with 💌			Find Now
Non expiring password Days since last logon: earch results: OK Car me (RDN) E-Mail Address Description In Folder <u>BMSUser cerut de A softirfo.ro/Softw</u>	Non expiring password ays since last logon: Chresults: (RDN) E-Mail Address Description In Folder ISUser cerut de A softinfo.ro/Softw	Disabled	accounts			Stop
Days since last logon: Car earch results: OK Car ame (RDN) E-Mail Address Description In Folder BMSUser cerut de A softinfo.ro/Softw	ays since last logon:	Non expir	ing password			
earch results: ame (RDN) E-Mail Address Description In Folder BMSUser cerut de A softinfo.ro/Softw	ch results: (RDN) E-Mail Address Description In Folder ISUser cerut de A softinfo.ro/Softw	Days since l	ast logon:	*		PI
earch results: OK Car ame (RDN) E-Mail Address Description In Folder BMSUser cerut de A softinfo.ro/Softw	ch results: (RDN) E-Mail Address Description In Folder ISUser cerut de A softinfo.ro/Softw					
earch results: OK Car ame (RDN) E-Mail Address Description In Folder BMSUser cerut de A softinfo.ro/Softw	ch results: (RDN) E-Mail Address Description In Folder ISUser cerut de A softinfo.ro/Softw					
ame (RDN) E-Mail Address Description In Folder BMSUser cerut de A softinfo.ro/Softw	(RDN) E-Mail Address Description In Folder ISUser cerut de A softinfo.ro/Softw					
BMSUser cerut de A., softinfo.ro/Softw.,,	ISUser cerut de A softinfo.ro/Softw	earch results:				OK Cancel
		earch results: ame (RDN)	E-Mail Address	Description	In Folder	OK Cancel
		earch results: ame (RDN) <mark>BMSUser</mark>	E-Mail Address	Description cerut de A	In Folder softinfo.ro/Softw	OK Cancel
		earch results: ame (RDN) , <mark>BMSUser</mark>	E-Mail Address	Description cerut de A	In Folder softinfo.ro/Softw	OK Cancel
		earch results: ame (RDN) <mark>BMSUser</mark>	E-Mail Address	Description cerut de A	In Folder softinfo.ro/Softw	OK Cancel
		earch results: ame (RDN) <mark>, BMSUser</mark>	E-Mail Address	Description cerut de A	In Folder softinfo.ro/Softw	OK Cancel
		earch results: ame (RDN) <mark>5 BMSUser</mark>	E-Mail Address	Description cerut de A	In Folder softinfo.ro/Softw	OK Cancel

Figure 55- Search Result Section

• Scroll down the Search results section to select the user. Once done, click OK. It will add the user within the object names section.

Colorat this ablant town :	
Users, Groups, or Built-in security principals	Object Types
From this location:	Collect ()perm
the sead on sea	
vna.med.va.gov	Locations
Inter the object names to select (<u>examples</u>):	Check Names

Figure 56- Object Names Section

Clicking OK will add folder access permission for user and takes you back to Permissions dialog, allowing you to configure the permissions for newly added users.

Permissions for BMS		e
Share Permissions		
Group or user names:		
Street Everyone		
BMS_Svc_Prod (BMS_Svc_F	Prod@va.gov)	
N		
63		
	Add	Remove
Permissions for BMS_Svc_Prod	Allow	Deny
Full Control		[[[[[]]]]]
Change		
Read		m
Learn about access control and pe	missions	

Figure 57- Permissions Window

• Select user, and from Permissions section check Full Control.

]		
hare Permissions		
Group or user names:		
Steryone		
BMS_Svc_Prod (BMS_Svc_Prod)	rod@va.gov)	
Δ.		
2		
ſ	Add	Remove
Parmissions for BMC Sup Prod	Allow	Demi
Fell Control	NIOW	Deny
Change		
Read		
	missions	
Learn about access control and per		

Figure 58- User Permissions

• Click Ok to close Permissions window. It will take you back to Advanced Sharing window.

ettings	
Share name:	e contra la contra de la contra d
Limit the nun Comments:	aber of simultaneous users to: 20

Figure 59- Advanced Sharing Window

- Now, click OK to share the folder.
- Close Whiteboard Snapshot properties window.

Having these two folders shared and having that user given the rights previously mentioned, if someone is logged in the network with that user, he/she could access those folders from Windows Explorer using an URI address. See screenshot below:

Organize • Share with • M	lew folder							2	🛯 6
Favorites Favorites E Desktop Boundeds Recent Places Decuments Music Pictures Videos Videos System (C) Date (D) We Network	Backup Quarantine	Critic Code Security Dec	De laat	de modificat	intpub Diffe	Intel UniteboardSnaps	Perflogs Windows	Frogram Files CodeGenerator, J 9	Program Files (,66)

Figure 60- WardGroup1-PC Path

2.6.4 Assign Snapshot Folder Path to Ward Group

Within the BMS Application, under Site Settings and then Contingency Settings page, the Admin should enter the values as captured in the screenshot (\\WARDGROUP1-PC\\WhiteboardSnapshot for WARD GROUP 1 and respectively \\WARDGROUP2-PC \WhiteboardSnapshot for WARD GROUP 2).

NOTE: The Windows User (acc\VAAACBMSPrd) must have full read/write access to this folder.

eturn to Admin Main Page Contingency S	ettings - YA BOSTON HEALTHCARE SYSTEM, BROCKTON CAMPUS (BRK)
Ward Group	Whiteboard Report Path
WARD GROUP 1	\\WARDGROUP1-PC\WhiteboardSnapshot
WARD GROUP 2	\\WARDGROUP2-PC \WhiteboardSnapshot
WG LILI	
	Save

BMS Home | Icon Legend | Information |

Figure 61-Contingency Settings Page

2.6.5 Associate Scheduler with Whiteboard Report

Within the BMS Application, Facility Home page, under Site Options and then Background Processors page, a Scheduler should be associated in the Whiteboard Report section.

Under the Whiteboard Report section:

• In the "Add/Update Scheduler:" field, select the schedule frequency that Whiteboard should be backed

up.

Click Save Scheduler button.

Return to Admin Page

Whiteboard Report			
Current Scheduler:	NONE		
Add/Update Scheduler:	Every 4 hours	•	
		Save Scheduler	
Patients Pending Bed P	lacement List		
Add/Update Method:	Select A Method	•	
Add/Update Scheduler:	Select A Scheduler		
		Save Scheduler	
		Cancel	

BMS Home | Icon Legend | Information |

Figure 62- Whiteboard Report Scheduler Association

2.7 EMS Mobile Device Configuration

In order to configure the BMS EMS Mobile Devices, the following steps must be completed:

- The local IS must create a local Service Account with a password that never expires and does not change. This account must not have any kind of policy that restricts its use to specific computers. The EMS Mobile Device will use this account to access the EMS Mobile page. This local Service Account can be the same as the Whiteboard Kiosk Default User Account created in Section 2.5.2.
- Each facility must enter the local Service Account and Password in the EMS Default User and Password fields on the Facilities Settings page.
- Configure the Mobile Device so that when it boots up, it will automatically open IE and go to the specified URL.

2.7.1 Configure EMS Mobile Device Default Login User

For the current facility, a default user must be configured in the BMS application for the EMS Mobile Device.

To accomplish this, the Facility Admin User must do the following:

- Go to the Facility Home Page.
- Click on the Site Options link.
- Click on the Facility Setting link.
- Fill the fields "EMS Default User Name:", "EMS Password:", and "EMS Password Confirm:" with the BMS Local Service Account.

Return to Admin Page

PARAMETER	OPTIONS
BMS Server Time Zone	CENTRAL STANDARD TIME
Facility Site Time Zone	CST
Auto-Removal Patients Pending Bed Placement List?	Yes
Integrated Facility?	No
Facility Name:	VA NORTH TEXAS HEALTH CARE SYSTEM: DALLAS VA
Facility Address 1:	4500 S. LANCASTER RD.
Facility Address 2:	DALLAS, TEXAS 75216
Facility Point-of-Contact:	JEFFREY D ALLEN
Facility POC Email:	JEFFREYD.ALLEN@VA.GOV
Facility POC Telephone:	214 857 4607
Local Time Adjust:	0
EMS Default User Name:	vhantxbedmgmt
EMS Password:	
EMS Password Confirm:	
Whiteboard Kiosk Default User Name:	vhantxbedmgmt
Whiteboard Kiosk Password:	
Whiteboard Kiosk Password Confirm:	
Submit	Cancel
	22 Yr

Figure 63- EMS Fields Filled on the Facility Settings Page

• Click the Submit button.

Table 16-Facility	Settings	Page	Parameters
-------------------	----------	------	------------

Column	Description
EMS Default User Name:	The BMS Service Account ID needed to load the EMS Mobile Page for Mobile Devices.
EMS Password:	The BMS Service Account ID password needed to load the EMS Mobile Page for Mobile Devices.
EMS Password confirm:	The confirmation of the password.

This setup can also be completed by the system Support User:

- Go to the BMS Admin Page
- Click on the Edit BMS Facility Settings link
- Click on the Facility Name Drop Down and select the name of the Facility to be configured
- Fill the fields "EMS Default User Name", "EMS Password" and "EMS Password Confirm" with the BMS Local Service Account

Select Facil	ity Name:			NTX - D	ALLAS (549 - ACTIVE: YE	S) 💌		
			NTX (549 - DALLAS)					
Facility	áte ID:				NTX			
Full Facilit	Full Facility Name:			VA NORTH TEXAS HEALTH CARE SYSTEM: DALLAS VA				
Facility Point	Facility Point-of-Contact:			JEFF ALI	LEN			
Facility PC	Facility POC Email:			JEFFREY	VD.ALLEN@VA.GOV			
Facility POC	Facility POC Telephone:			214 857-	4607			
Facility Ar	idress 1:			4500 S. L	ANCASTER RD.			
Facility Ar	idress 2:			DALLAS.	TEXAS 75216			
Facility City	/State/ZIP:			DALLAS		TX 💌	76216	
User one								
VISK- Region:	17 2			aac.dva.va.gov/VAAACBARk aac.dva.va.gov/vaaacherm Add User BMS Faci	SJ 🗹	Remov	e Selected Central Standard Time Sentral Standard Time	*
900 - 900 1910 1915 - 1916 1916 Active Live Star	17 2	Yes		aac.dva.va.gov/VAAACBARk aac.dva.va.gov/vaaacherm Add User BMG Faci sto-Removal Patients Pending I	SJ V as Z S Server Time Zone: lity Site Time Zone: Bed Placement Lit?	Remov	e Selected Central Standard Time Entral Standard Time V Yes V	•
VISH: Region: BKS Active1.ivs Biol Integrated Facility?	17 2	Yes R No R		aac.dva.va.gov/VAAACBARK aac.dva.va.gov/vaaacherm Add User BMS Faci sto-Removal Patients Pending I	SJ V as Z Server Time Zone: lity Site Time Zone: Bed Placement Lit? Medical Center ID #?	C	e Selected Central Standard Time Pentral Standard Time Yes v LECT MEDICAL CENTER	-
VISH: Region: BKS ActiveLive Silve Integrated Facility Integrated Silve Lit:	aroons: 17 2 Select Exi	Yes V No V		asc. dva. va. gov/VAAACBARK asc. dva. va. gov/vaaacherm Add User BMC Faci zto-Removal Patients Pending I A	(SJ 27)	C C	e Selected Central Standard Time Sentral Standard Time Yes V LECT MEDICAL CENTER	T.
VISH: Region: BMS ActiveLine Sile? Integrated Facility? Integrated Sile Line World Prefix:	17 2 Select Exi	Yes V No V sting List	A	aac. dwa. va. gov/vAAACBARY aac. dwa. va. gov/waaacherm Add User BMC Faci do-Removal Patients Pending I g	SJ Z S Server Time Zone: lity Site Time Zone: lity Site Time Zone: lity Site Time Zone: Lit? ADT Prefix:	C Remov	e Selected Central Standard Time Pentral Standard Time Ves v LECT MEDICAL CENTER	•
VISH: Region: BHS Active.Tw Star Integrated File List: Ward Perfic. Ward Suffic: Ward Suffic: Ward Suffic:	atoms:	Ves v No v sting List		aac.dwa.va.gov/AAACBABA aac.dwa.va.gov/waachem Add User BMM Faci do-Removal Patients Pending p	SJ 27 as 72 S Server Time Zone: lity Site Time Zone: Bed Placement List? Medical Center ID #? ADT Prefix: ADT Prefix:	C	e Selected Central Standard Time Dentral Standard Time Yas W LECT MEDICAL CENTER	-
VIRI: Region BMS Active Live Site? Integrated Site Lit: Ward Softic ESP And Sorder: ESP And Sorder:	17 2 Select Ext	Yee y		aac.dox.va.gov/MAACEABA aac.dox.va.gov/waachem Add User BMC Faci do-Removal Patients Pending I ¢	SJ Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	C SEI	e Selected Central Standard Time Pertral Standard Time Usandard Time Vsandard Centrer VsantxBMSEVENTMA	-
VISH: VISH: BK Activity (Articulture) BK Activity (Articulture) Integrated Facility? Integrated Site (Articulture) Ward Striffer EKS Mail Sender: Site Alias:	17 2 Select Ext	Ver V No V XavsMallengr		aac.dwa.va.gov/WAACGABN aac.dwa.va.gov/waachern Add User Bete Faci do-Removal Patients Pending A	5.3 2 2 4 5 5 Server Time Zone: Ity Site Time Zone: Ity Site Time Zone: Bed Placement List? ADT Prefix: ADT Suffic: Event Abil Serder: Site Alias:	C C SE	e Selected	-
VISH: Region: BHS Active.ive Stat Integrated Facility? Integrated Stat Ward Suffic: EVE Muil Sector: Ste Alian: Ste Alian:	17 2 Select Ext VHANT	Yes D No D XXMMALER@	A	aac. dia va gov/WAACGARY aac. dia va gov/WAACGARY Add User Add User BM Faci do.Removal Patients Pending I A	5.3 (7) 5.5 Server Time Zone: lity Site Time Zone: lity Site Time Zone: lity Site Time Zone: Wedical Center ID #? ADT Prefix: ADT Suffix: Event Mailsonder: Site Alian: Local Time Adjust:	C C	e Selected Central Standard Time Dentral Standard Time Ves Ues Uves Uves Uves Uves Uves Uves Uve	-
VIDI: VIDI: Bed Active(Ivo Site) Integrated Site Lit: Vard Sheft: ESP sells Sinder: ESP sells Sinder: Site Alias Site Alias ESC Default User Name:	17 2 Select Ext VHAN VHAN	Yes w No w Stop Lat TXBNSMALER@		aac. da. va. gov.VAAACBAPS aac. da. va. gov.Waacherm Add User BAd do.Removal Patients Pending Adv.Removal Patients Pending Mitteboard Klosk	53 27 55 server Time Zone: 10 5 server Time Zone: 10 5 server Time Zone: 10 5 server Time Zone: 10 7 5 server: 10 7 7 7 7 5 server: 10 7 7 7 7 7 7 5 server: 10 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	C SEI	© Selected Central Standard Time Pentral Standard Time Ves Ves Ves Ves Ves Ves Ves Ves	
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Figure 64-EMS Fields Filled on the BMS Admin Page

• Click the Submit button

Table 17-BMS Admin Page Parameters

Column	Description
EMS Default User Name:	The BMS Service Account ID needed to load the EMS Mobile Page for Mobile Devices.
EMS Password:	The BMS Service Account ID password needed to load the EMS Mobile Page for Mobile Devices.
EMS Password confirm:	The confirmation of the password.

2.7.2 Configure EMS Mobile Device URL

For the current facility, the EMS Device URL must be configured in the EMS Mobile Device. The URL

to be entered has a special format: https://REDACTED.va.gov/EMSMobileLogon?code=BRK.

Table 18-Description and Configuration for EMS Mobile Device URL Parameters

Parameter	Short Description	Options
Code	Code of facility (e.g. BROCKTON = BRK)	Enter the 3-character facility ID.

EMS staff can access the BMS Web page for mobile devices at the URL set up by their local IS staff. Be sure to use the code of the facility for which access is needed.

The following page is displayed:



Figure 65-EMS Staff Page for Mobile Devices

2.8 VistA Integration

This chapter describes the process of importing vocabularies, entities, patient admission, transfer, discharge (ADT) and patient pending bed placement information from VistA.

In order to integrate with VistA certain steps should be completed:

- 1. Choose VistA site
 - 2. Define Schedulers
- 3. Run Scheduler
 - 4. View Audit Results

2.8.1 Choose VistA Site

VistA Sites tab from Background Processors page of Admin section allows the user to view the list of VA facility sites sharing the same VistA instance and to add a new VA facility to a VistA instance.

2.8.1.1 Adding a New VistA Site

To add a VA facility site to a VistA instance follow the steps presented below.

1. From the Background Processors page of Admin section select VistA Sites to display the page in the following image. A list of VA facility sites is displayed in the column to the left of the page.

Admin Menu		G	\$				Logout
			Backgr	ound Processors			
VistA Sites	Schedulers		VistA Integration	Audit	NUMI	Whiteboard Report	
Add new VistA site							
V03NYN - 630 V09LEX - 596 V11IND - 583 V17NTX - 549 V18ABQ - 501 V18AMA - 504	•	VistA Site Name Time Zone	z				
V188IG - 519 V18ELP - 756 V18PHO - 644 V18PRE - 649 V18TUC - 678 V19CHY - 442	E	- Connections ODBC C	connection string	x	~	Test Connection	
V19DEN - 554 V19FHM - 436 V19GRJ - 575 V19SHE - 666 V19SLC - 660 V20ANC - 463		U: Pa	ser assword	x			
V20B0I - 531 V20P0R - 648 V20PUG - 663 V20R05 - 653 V20SP0 - 668 V20WC0 - 692		MDWS M	dws Endpoint	MdwsEndpointUrl_1 - http://va		Test Connection	
						Save C	ancel

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Figure 66-Adding a VistA Site

2. Click the Add new VistA site link then from the VistA Site area use the Name field to select the code of the site you want to add to the current VistA instance, and then select the Time Zone.

In the Connections area you can choose between two connection methods: ODBC, MDWS and VIA. Fill in the following data for the ODBC method:

	Table 19-New VistA Site Parameters
ntion	

Column	Description
Connection String	The connection string for the ODBC method.
User	The username for the connection.
Password	The password associated to the user account.
MDWS Endpoint	***MDWS available to be selected but no longer supported.
VIA	Select VIA connector.

You can use the Test Connection buttons to verify the connection and press the Save button to enter the data into the system.

The newly added site will be added in the sites list to the left of the screen.

2.8.2 Define Schedulers

The Schedulers tab from Background Processors page of Admin section displays a list of schedulers defined by user. It allows the user to add new schedulers, edit or remove old schedulers.

NOTE: To run the schedulers, the VistA Integration tab must be used (see next section VistA Integration Bed Management Solution (BMS) Technical Manual

for details).

The Schedulers tab is displayed as in the following image:

Admin Menu			Logo	ut	
		Backg	round Processors		
VistA Sites	Schedulers	VistA Integration	Audit	Numi	Whiteboard Report
Add new scheduler every 2 minutes Every 4 hours Every hour	Name Recurs every Time Zone © Occurs once at © Occurs every	Every hour 1 CST 01 * :00 * 1	Day •	 ✓ (s) ✓ Start Time 01 √ 00 √ End Time 23 √ 00 √ 	Save Delete Cancel

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Figure 67-Schedulers Tab

2.8.2.1 Adding a New Scheduler

To add a new scheduler follow the steps presented below.

- 1. From the Background Processors page select the Schedulers tab.
 - 2. In the Schedulers tab fill in the following data:

Table 20-New Scheduler Parameters

Column	Description
Name	The name of the scheduler.
Recurs every	The frequency.
Time Zone	Time zone associated with the scheduler.
Occurs once at/Occurs every	The frequency values.

After setting the desired frequency for the new scheduler, do not forget to press the Save button to enter the data into the system.

2.8.3 Run Scheduler

The VistA Integration tab is used to run (automatically or manually) the defined schedulers and to select which data categories will be affected by a scheduler's action.

The VistA Integration tab is displayed as in the following image:

Admin Menu								Logo
				Background	Processors			
VistA Sites	Schedulers		VistA Integration	Audit	Numi		Whiteboard Report	
		Current Method	Current Scheduler	V01BHS - 523		~		
ADT Patients Pending	g Bed Placement List	MDW	'S Every 4 hours	Details Data	Specialty			
Vocabularies				Method Scheduler	MDWS Every 4 hours	•		
 Specialty Treating Special Facility Moveme 	ity Int Type	MDW	S Every hour					Save Cancel
 Entities Hospital Locatio Patient 	n	MDW	'S every 2 minutes	Run Job Method	MDWS	×		
Room Bed Ward Location				Start Time End Time	09/07/12 09/07/12		00 • : 00 • 00 • : 00 •	
Medical Center I	Division							Run

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From the field in the upper part of the page select the VistA site where the scheduler(s) will run.

Next step:

- Either click one data category from the column to the left (its name will appear in the Data field) and then select a method and scheduler from the Method and Schedulers fields in the Details area: this will cause the selected scheduler to run at the time set for it in the Schedulers tab and to bring data from the selected category.
- Or select several data categories (using the check-boxes) then select a connection method from the Run Job area, set the Start time/End time and click the Run button: this will cause the scheduler set using the selected method to start running now and bring the data from the selected categories.

2.8.4 View Audit Results

The Audit tab displays the results of the operations performed in the VistA Integration tab.

The Audit tab is displayed as shown in the following image.

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tA Sites	Schedulers V	istA Integration	Audit Numi	Whiteboard Report
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Figure 69- Audit Tab

The options to the left of the page allow the user to determine the filter criteria for the generated audit reports. The options to the right of the screen allow the user to select the type of operation to be captured by the audit report as well as the time interval for the audit.

After selecting the desired criteria, click the Filter by button to display the page as in the following image.

-					Backg	round Processors			
/listA Sites		Schedulers	VistA Integration	Audit	Numi	Whiteboard Report			
VistA site, Votens		deta tryes ADT Vacabularies Socializations Socialization Facility Facility, Movement T Facility, Movement Facility, Movement Pacification Pacification Pacification	and method ODEC MONS ype	with status Socceeded Indee Running Perfaity Socceeded Part By	all audit log entries registerer Today Last exch Sata sech Sata sech Sat	00 +)(00 +)(00 +) 00 +)(00 +)(00 *)			
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Vieta Vērājas	method MDWS MDWS	Room Bed Ward Location Medical Center Divisio Date Security Trantice Security	Sti Bows tie 112 19	Start Dete G8/10/12 10 19 (8 G8/10/12 10 19 (8	End State L SR/GPT 10, 19 54 SS/SPT 11, 19 54	with Type Manual Manual	The workers (therefore, Enforced disk to Auto-Calence, Antonica 12 all disk auto- characters, effortanti di las diskulturates, Manzala 21 all disk auto-	Batan Socceeded Socceested	Deta Deta
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Figure 70- View Audit Results

A list of operations is displayed. For each entry the following data is available:

Column	Description
VistA	The VistA site where the audit action has been performed.
Method	The method used for connecting to the VistA site.
Data	The type of data retrieved by the VistA integration operation.
Rows no	The number of operations of the selected type captured by the audit action.
Start Date	The start date of the retrieval operation.
End Date	The end date of the retrieval operation.
Launch Type	The way the audit action has been launched.
Parameters	Audit operation start date and time, and end date and time.
Status	The status of the VistA integration action.
Details	Clicking this link will display the number of entries in the report.

Table 21-View Audit Results Columns Report

2.9 NUMI Integration

This chapter describes the process of importing patient level of care information from NUMI.

NUMI connects to VistA for synchronization of patient data using the NUMI Web Service that is part of the Commercial Off the Shelf McKesson product. Authentication to the NUMI Web Service is done by a NUMI supplied secret key.

NUMI Patient Level of Care transaction involves the following steps:

- ☐ Change patient level of care in NUMI.
- BMS Reader component will detect the patient level of care in NUMI.
- Patient level of care will be retrieved through a web service method call.
- BMS Writer component will update patient level of care in BMS database.

Integration Settings

There are a limited number of configuration parameters for NUMI.

- Secret Key
- Number of sites per call
- Path to NUMI web service

These configurations are stored in BMS.Service.Host.exe.config

The current secret key is: <authorization key>

The number of site per call parameter how many sites will be bundled together in a transaction to NUMI. If this number is increased one should consider the frequency in which the calls are scheduled. Adding more sites will increase the transaction size and length.

Currently all NUMI servers operate on port 100 at the specified endpoint https://<servername>.aac.dva.va.gov/Inpatient.asmx.

In order to integrate with NUMI certain steps should be completed:

- 1. Choose VistA site
- 2. Define Schedulers
- 3. Select Scheduler

2.9.1 Choose VistA Site

This step is the same as the one performed on VistA Integration process and can be referenced from <u>Section 2.7.1</u>.

2.9.2 Define Schedulers

The process of defining schedulers can be referenced from Vista Integration process, Section 2.7.2.

2.9.3 Select Scheduler

The NUMI tab is used to select the scheduler that will connect to the NUMI server and will retrieve data for a certain VistA site.

The NUMI tab is displayed as in the following image.

			Background Process	ors -		
istA Sites	Schedulers	VistA Integration	Audit	Numi	Whiteboard Report	
Schedulers: 1	0 minutes	Add				
	Scheduler	VistA Site				
<u>dit Delete</u> NUMI data	V01BED					

Figure 71-NUMI Tab

From the Schedulers field select the scheduler created to retrieve the NUMI data then click the Add button: following page is displayed.

Background Processors								
tA Sites	Schedulers	VistA Integration	Audit	Numi	Whiteboard Report			
Edit NU V01BED V01BHS V010BHS V01CON V01CON V01NAN V01PRO V01PRO V01WPJ V03BYN V03BYN V03BYN	MI data Scheduler							

Back to Regional Page

Figure 72- Selecting the VistA Site for NUMI data

Select the VistA site for which the selected scheduler will retrieve NUMI data then press the Save button. Use the Edit link to select a different site for which the scheduler should retrieve NUMI data.

3 Application structure

3.1 Application Components

BMS application consists of the following components:

- BMS Databases (BMS Database, BMS Authz, BMS EIS, BMS EVS, BMS_DS, BMS_DW, BMS InstanceStore and BMS History)
- o BMS Services (BMS Service and Win ServiceHost)
 - o BMS Service
 - Win Service Host (EIS Service, EVS Service, PAP service, PDP service, RS service and STS service)
- o BMS Web Site
- o WMI UserGroup

3.2 Application Directory Structure

BMS application directory is structured as is presented below:

```
+---Consoles
 +---PolicyManager
 +---Databases
 | \---SQLData
 | | \---Job Logs
 | | \---WMI UserGroup
 +---Services
 | +---BMS
 | | \---DBRepository
 | | \---LingToSql
 | | \---LocalReportWhiteboard
 | | \---Scripts
 | +---EIS
 | | \---DBRepository
 | +---EVS
 | | \---DBRepository
 | +---PAP
 | | \---DBRepository
 | +---PDP
 | +---RS
 +---Shared
Bed Management Solution (BMS)
```

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```
| \---STS
+---WebSite
| +---bin
| | \--- LocalReportWhiteboard
| | \--- Scripts
| +---Content
| | \---images
| | +---themes
| | | +---base
| | | | \---images
| +---ReportsLocal
| +---ReportsLocal
| +---Scripts
| \---Views
```

3.3 Database Architecture

The BMS Database implementation is comprised of three main parts:

- BMS Database
 - BMS_EVS (Enterprise Vocabulary database)
 - BMS_EIS (Entity Identification Services database)
 - BMS_AUTHZ (Authorization database)
 - o BMS (Bed Management database).
 - BMS_History (BMS Transactional History)
 - BMS_InstanceStore (BMS Instances)
- BMS_DS Data Loaded by an ETL job
- BMS_DW Data Loaded by an ETL job


Figure 73-Database Architecture

3.4 Component Files

A list with files for each BMS component is presented below:

Table 22-BMS Database Files

Relative Path	File	Description
	BMS_Data.mdf	
	BMS_Data_F.ndf	
	BMS_Log.ldf	
	BMS_AUTHZ_Data.mdf	
	BMS_AUTHZ_Log.ldf	
	BMS_DS_Data.mdf	
	BMS_DS_Data_F.ndf	
Databases\SQLData Databases\SQLData2 Databases\SQLLogs	BMS_DS_Log.ldf	Database files (BMS database, BMS Authz,
	BMS_DW_Data.mdf	BMS EIS, BMS EVS)
Databases loge Logs	BMS_DW_Log.ldf	
	BMS_EIS_Data.mdf	

Relative Path	File	Description
	BMS_EIS_Data_F.ndf	
	BMS_EIS_Log.ldf	
	BMS_EVS_Data.mdf	
	BMS_EVS_Data.ndf	
	BMS_EVS_Log.ldf	
	BMS_HISTORY_Data.mdf	
	BMS_HISTORY_Data_F.ndf	
	BMS_HISTORY_Log.ldf	
	BMS_InstanceStore_Data.mdf	
	BMS_InstanceStore_Log.ldf	
Databases\SQLData\Job_Log	BMS_Reports_Log.txt	BMS Report Full job file log and BMS
S	BMS_Reports_Log_Incremental.txt	Incremental job file log.
	AdapterRepository.dll	
	Common.dll	
	connectionConfiguration.config	
	Connections.SingleDatabase.dll	
Databases\SQLData\WMI_Us erGroup	ContextWriter.dll	Binaries of WMI UserGroup application.
	General.MT.dll	
	Infoworld.Configuration.dll	
	MiddleTier.dll	
	MS.Common.dll	
	MS.Configuration.dll	
	MS.Connections.dll	
	WMI_UserGroup.exe	
	WMI_UserGroup.exe.config	
	WMI_UserGroup.vshost.exe	
	WMI_UserGroup.vshost.exe.config	
	WMI_UserGroup.vshost.exe.manifest	
	Connections.xml	File used to set the connection to the database.

Relative Path	File	Description
Databases\SQLData\WMI_Us erGroup\ DBRepository	InfoWorld.WMI_UserGroup.DTO.DTOUse rGroupDomain.xml	XML mapping file which contain mapping definitions between ePractice datasets and SQL tables. The dataset is specified by setting the <mydatasetinfo> tag. The table to interact with – specified through the <mydatatable> tag – is defined by four commands – usually stored procedures – which represent the Create, Read, Update and Delete (CRUD) operations which can be performed on the table: select (Read), insert (Create), update (Update) and delete (Delete). Stored procedure parameters are passed from these datasets and mapped in the same XML file.</mydatatable></mydatasetinfo>

Table 23-BMS Service Files

Relative Path	File	Description
	AdapterRepository.dll	
	AuditTrailSender.dll	
	AuthenticationProxy.dll	
	AuthorizationSubscriber.dll	
	BMS.Contracts.dll	
	BMS.Facade.dll	
Services\BMS	BMS.Facade.Contracts.dll	I ne binaries of the Bivis Service.
	BMS.Host.dll	
	BMS.MT.dll	
	BMS.MT.dll.config	
	BMS.Numi.dll	
	BMS.Schedulers.dll	
	BMS.Security.dll	
	BMS.ServiceHost.exe	
	BMS.ServiceHost.exe.config	
	BMS.ServiceImplementation.dll	
	BMS.ServicesWrapper.dll	
	BMS.UnitTesting.dll	
	BMS.UnitTesting.dll.config	
	BMS.Utils.dll	
	BMS.VistaIntegration.dll	

Relative Path	File	Description
	BMS.VistaIntegration.Cache.dll	
	BMS.VistaIntegration.Data.dll	
	BMS.VistaIntegration.HL7.dll	
	BMS.VistaIntegration.Mdws.dll	
	BMS.VistaIntegration.UnitTesting.dll	
	BMS.VistaIntegration_Accessor.dll	
	BMS.VistaWorker.dll	
	BMS.VistaWorker.Reader.dll	
	BMS.VistaWorker2.Writer.dll	
	BMS.Web.dll	
	BMS.WhiteboardReport.dll	
	BMS.Workflows.CustomActivities.dll	
	BMS.Workflows.PropertyPromotionActivity .dll	
	BMS.Workflows.WF.dll	
	Castle.Core.dll	
	Common.dll	
	connectionConfiguration.config	
	Connections.SingleDatabase.dll	
	ContextWriter.dll	
	DataUtil.dll	
	FakeItEasy.dll	
	General.MT.dll	
	HL7DataTypes.dll	
	IContracts.dll	
	ICTSEdit.dll	
	Infoworld.Configuration.dll	
	InterSystems.Data.CacheClient.dll	
	log4net.dll	
	Mdws2ORM.dll	
	Microsoft.Web.Mvc.dll	
	MiddleTier.dll	
	MS.Common.dll	

Relative Path	File	Description
	MS.Configuration.dll	
	MS.Connections.dll	
	PAPProxy.dll]
	RS.Contracts.dll	
	Saml20.dll	
	SecurityTokenCache.dll	
	trace.log	
	Tracing.dll]
	VistASites.xml	
	Xacml2.dll]
	XacmlCore.dll	
	BMS.MT.Admission.xml	
	BMS.MT.AdmissionInfo.xml	XML mapping files which contains mapping definitions between ePractice datasets and
	BMS.MT.AdmissionLevelOfCare.xml	SQL tables. The dataset is specified by setting the <mydatasetinfo> tag. The table</mydatasetinfo>
	BMS.MT.BedCleanInfo.xml	to interact with – specified through the <pre></pre>
	BMS.MT.BedCleaning.xml	commands – usually stored procedures – which represent the CRUD operations which
Set VICes/BIMS/DBRepository	BMS.MT.BedCleanMobileInfo.xml	can be performed on the table: sele (Read), insert (Create), update (Update) ar
	BMS.MT.BedDNDAndOOSFromVista.xml	delete (Delete). Stored procedure parameters are passed from these datasets
	BMS.MT.BedOccupancyCount.xml	and mapped in the same XML file.
	BMS.MT.BedOccupancyInfo.xml	connection string to BMS database.
	BMS.MT.BedStaff.xml	
	BMS.MT.BedStaffHistory.xml	
	BMS.MT.BedSwitch.xml	
	BMS.MT.BedUnavailable.xml	
	BMS.MT.BedUnavailableHistory.xml	
	BMS.MT.BedUnavailableInfo.xml	
	BMS.MT.CancelableOrderInfo.xml	
	BMS.MT.Configuration.xml	
	BMS.MT.Discharge.xml	
	BMS.MT.Diversion.xml	
	BMS.MT.EISOrganization.xml	
	BMS.MT.EmsStaff.xml	

Relative Path	File	Description
	BMS.MT.EvacuationPatients.xml	
	BMS.MT.IconAssociation.xml	
	BMS.MT.IconAssociationInfo.xml	
	BMS.MT.IconDetail.xml	
	BMS.MT.IconInfo.xml	
	BMS.MT.IconOrder.xml	
	BMS.MT.JobAudit.xml	
	BMS.MT.JobAuditInfo.xml	
	BMS.MT.LastActInfo.xml	
	BMS.MT.LevelOfCare.xml	
	BMS.MT.LoggedUser.xml	
	BMS.MT.Movement.xml	
	BMS.MT.NewEvent.xml	
	BMS.MT.OccupiedBedInfo.xml	
	BMS.MT.PatientIconAssociation.xml	
	BMS.MT.PatientLocation.xml	
	BMS.MT.PatientsWaitingCount.xml	
	BMS.MT.PatientWaitingDateView.xml	
	BMS.MT.PatientWaitingStandardView.xml	
	BMS.MT.Transfer.xml	
	BMS.MT.TransferInfo.xml	
	BMS.MT.VistaIntegrationLog.xml	
	BMS.MT.VistaOperation.xml	
	BMS.MT.WaitingListItem.xml	
	BMS.MT.WaitingListReport.xml	
	ConfigurationService.DataAccess.Configu rationsBE.xml	
	Connections.xml	
Services\BMS\LocalReportW hiteboard	WardWhiteboard.rdlc	Ward whiteboard report file.
Services\BMS\Scripts	conditional-validation.js	JavaScript conditional validation file.

Table 24-WIN Service Host Files

Relative Path	File	Description
	BindingExtensions.dll	
	DTOGenericService.dll	
	DTOHL7Service.dll	
	EISAuditUtil.dll	
	EISAutomaticLink.dll	
	EISCache.dll	
Services/EIS	EISContracts.dll	Binaries of the EIS Service
Services/EIS	EISDataAccess.dll	binaries of the EIS Service.
	EISNotifications.dll	
	EISServiceGenericImplementation.dll	
	EISServiceHL7Implementation.dll	
	EISServiceImplementation.dll	
	EISServiceImplementation.dll.config	
	ICSharpCode.SharpZipLib.dll	
	Connections.xml	XML mapping files which contains mapping definitions between ePractice datasets and SQL tables. The dataset is specified by setting the <mydatasetinfo> tag. The table to interact with – specified through the <mydatatable> tag – is defined by four commands – usually stored procedures – which represent the CRUD operations which can be performed on the table: select</mydatatable></mydatasetinfo>
	InfoWorld.EIS.DTOGenericService.DTOA utomaticLink.xml	
Services\EIS\DBRepository	InfoWorld.EIS.DTOGenericService.DTOD omain.xml	
	InfoWorld.EIS.DTOGenericService.DTOE ntity.xml	
	InfoWorld.EIS.DTOGenericService.DTOE ntityType.xml	(Read), insert (Create), update (Update) and delete (Delete). Stored procedure
	InfoWorld.EIS.DTOGenericService.DTOE ntityTypeClassifier.xml	parameters are passed from these datasets and mapped in the same XML file. Connections xml file is used to set the
	InfoWorld.EIS.DTOGenericService.DTOE ntityTypeTraitCoresp.xml	connection string to BMS_EIS database.
	InfoWorld.EIS.DTOGenericService.DTOTr ait.xml	
	InfoWorld.EIS.DTOGenericService.DTOTr aitAssignment.xml	
	InfoWorld.EIS.DTOGenericService.Entity Management.DTOEntityManageLink.xml	
	InfoWorld.EIS.DTOGenericService.Entity Management.DTOEntityMerge.xml	
	InfoWorld.EIS.DTOGenericService.Entity Management.DTOEntitySetStatus.xml	
	InfoWorld.EIS.DTOGenericService.LinkAl gorithmManagement.LinkAlgorithmTrait.x ml	

Relative Path	File	Description
	InfoWorld.EIS.DTOGenericService.LinkAl gorithmManagement.LinkAlgorithmTraits.x ml	
	InfoWorld.EIS.DTOGenericService.LinkAl gorithmManagement.Match.xml	
	InfoWorld.EIS.DTOGenericService.Query Functions.DTOConflictingEntities.xml	
	InfoWorld.EIS.DTOGenericService.Query Functions.DTOFindEntity.xml	
	InfoWorld.EIS.DTOGenericService.Query Functions.DTOGetAllInfoPar.xml	
	InfoWorld.EIS.DTOGenericService.Query Functions.DTOGetAllInformationForAnEnt ity.xml	
	InfoWorld.EIS.DTOGenericService.Query Functions.DTOGetSupportedDomains.xml	
	InfoWorld.EIS.DTOGenericService.Query Functions.DTOLinkedEntities.xml	
	InfoWorld.EIS.DTOHL7Service.Address.x ml	
	InfoWorld.EIS.DTOHL7Service.Container. xml	
	InfoWorld.EIS.DTOHL7Service.Container Filtr.xml	
	InfoWorld.EIS.DTOHL7Service.Containerl nfo.xml	
	InfoWorld.EIS.DTOHL7Service.Device.xm	
	InfoWorld.EIS.DTOHL7Service.DeviceFiltr .xml	
	InfoWorld.EIS.DTOHL7Service.DeviceInfo .xml	
	InfoWorld.EIS.DTOHL7Service.Manufactu redMaterial.xml	
	InfoWorld.EIS.DTOHL7Service.Manufactu redMaterialFiltr.xml	
	InfoWorld.EIS.DTOHL7Service.Manufactu redMaterialInfo.xml	
	InfoWorld.EIS.DTOHL7Service.Material.x ml	
	InfoWorld.EIS.DTOHL7Service.MaterialFil tr.xml	
	InfoWorld.EIS.DTOHL7Service.MaterialInf o.xml	
	InfoWorld.EIS.DTOHL7Service.NonPerso nLivingSubject.xml	
	InfoWorld.EIS.DTOHL7Service.NonPerso nLivingSubjectFiltr.xml	
	InfoWorld.EIS.DTOHL7Service.NonPerso nLivingSubjectInfo.xml	

Relative Path	File	Description
	InfoWorld.EIS.DTOHL7Service.Organizati on.xml	
	InfoWorld.EIS.DTOHL7Service.Organizati onFiltr.xml	
	InfoWorld.EIS.DTOHL7Service.Organizati onInfo.xml	
	InfoWorld.EIS.DTOHL7Service.Person.xm	
	InfoWorld.EIS.DTOHL7Service.PersonFiltr .xml	
	InfoWorld.EIS.DTOHL7Service.PersonInfo .xml	
	InfoWorld.EIS.DTOHL7Service.Place.xml	
	InfoWorld.EIS.DTOHL7Service.PlaceFiltr. xml	
	InfoWorld.EIS.DTOHL7Service.PlaceInfo. xml	
	InfoWorld.EIS.DTOHL7Service.Telecom.x ml	
	InfoWorld.WSEventing.DTO.CustomSubs criptions.xml	
	InfoWorld.WSEventing.DTO.Endpoints.xm	
	InfoWorld.WSEventing.DTO.FilterDialects. xml	
	InfoWorld.WSEventing.DTO.Message.xml	
	InfoWorld.WSEventing.DTO.MessageGet. xml	
	InfoWorld.WSEventing.DTO.MessageGet DeliveryTo.xml	
	InfoWorld.WSEventing.DTO.Subscriptions .xml	
	ActionManager.dll	
	BindingExtensions.dll	
	CodingSystems.DAL.dll	
	Configuration.dll	
	connectionConfiguration.config	
	Connections.Common.dll	
	CTSEdit.dll	
	CTSEdit.Utils.dll	
	CTSEditBulk.dll	
	CTSExport.dll	

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Relative Path	File	Description
	CTSImport.dll	
	CTSImportProxy.dll	
	CTSService.Utils.dll	
	DTOCodeMappingEdit.dll	
Services\F\/S	DTOMapping.dll	Binaries of EVS service
	DTOMessageBrowser.dll	
	DTOMessageEdit.dll	
	DTOMessageRuntime.dll	
	DTOVocabularyEdit.dll	
	DTOVocabularyEdit.dll.config	
	EVSWrapper.dll	
	EVSWrapper.dll.config	
	Factory.dll	
	HL7DataTypes.XmlSerializers.dll	
	IContracts.dll	
	ICSharpCode.SharpZipLib.dll	
	ICTSEdit.dll	
	ICTSEditBulk.dll	
	ICTSExport.dll	
	ICTSImport.dll	
	IEventing.dll	
	MappingImpl.dll	
	Message.dll	
	MessageImpl.dll	
	MessageImpl.dll.config	
	MS.Caching.dll	
	Notify.dll	
	SecureChannel.dll	
	Security.Null.dll	
	securityConfiguration.config	
	VocabularyBrowser.DTO.dll	
	VocabularyImpl.dll	

Relative Path	File	Description
	VocabularyRuntime.DTO.dll	
	XamlContracts.dll	
	XamIDataContracts.dll	
	Xamllmpl.dll	
	Connections.xml	
	InfoWorld.EVS.CTSEdit.DTO.Association. xml	
	InfoWorld.EVS.CTSEdit.DTO.CodingSyst em.xml	XML mapping files which contains mapping
	InfoWorld.EVS.CTSEdit.DTO.Concept.xml	SQL tables. The dataset is specified by
	InfoWorld.EVS.CTSEdit.DTO.ConceptAss ociationsToCMultiAttrib.xml	setting the <mydatasetinfo> tag. The table to interact with – specified through the <mydatatable> tag – is defined by four</mydatatable></mydatasetinfo>
Sanvisoe\E\/S\DBPapacitony	InfoWorld.EVS.CTSEdit.DTO.ConceptPro perty.xml	commands – usually stored procedures – which represent the CRUD operations which
Services (= v S (DBrepository	InfoWorld.EVS.CTSEdit.DTO.DSMap.xml	can be performed on the table: select (Read), insert (Create), update (Update) and
	InfoWorld.EVS.CTSEdit.DTO.DSMapEntr y.xml	delete (Delete). Stored procedure parameters are passed from these datasets and mapped in the same XML file. Connections.xml file is used to set the connection string to BMS_EVS database.
	InfoWorld.EVS.CTSEdit.DTO.DTOReExp andValueSet.xml	
	InfoWorld.EVS.CTSEdit.DTO.DTOValueS et.xml	
	InfoWorld.EVS.CTSEdit.DTO.DTOVocabu laryDomain.xml	
	InfoWorld.EVS.CTSEdit.DTO.Relation.xml	
	InfoWorld.EVS.CTSEdit.DTO.ValueSets.x ml	
	InfoWorld.EVS.CTSMAPI.DTO.CodeSyste mInfo.xml	
	InfoWorld.EVS.CTSMAPI.DTO.DomainVal ueSetFiltr.xml	
	InfoWorld.EVS.CTSMAPI.DTO.DSConcep tsByCode.xml	
	InfoWorld.EVS.CTSMAPI.DTO.DSConcep tsByCodeProperties.xml	
	InfoWorld.EVS.CTSMAPI.DTO.DSConcep tsByDesignation.xml	
	InfoWorld.EVS.CTSMAPI.DTO.DSConcep tsByDesignationProperties.xml	
	InfoWorld.EVS.CTSMAPI.DTO.DSFullVal ueSetDescription.xml	
	InfoWorld.EVS.CTSMAPI.DTO.DSValueS etContextExpansion.xml	
	InfoWorld.EVS.CTSMAPI.DTO.DSValueS etExpansion.xml	

Relative Path	File	Description
	InfoWorld.EVS.CTSMAPI.DTO.DSValueS etExpansionProperties.xml	
	InfoWorld.EVS.CTSMAPI.DTO.DSValueS etExpansionReverse.xml	
	InfoWorld.EVS.CTSMAPI.DTO.DSVocabu laryDomainDescription.xml	
	InfoWorld.EVS.CTSMAPI.DTO.GetFillInD etailsCD.xml	
	InfoWorld.EVS.CTSMAPI.DTO.IsCodeInV alueSet.xml	
	InfoWorld.EVS.CTSMAPI.DTO.ValidateCo de.xml	
	InfoWorld.EVS.CTSMAPI.DTO.ValueSetC odeReference.xml	
	InfoWorld.EVS.CTSMAPI.DTO.ValueSetFi ltr.xml	
	InfoWorld.EVS.CTSMAPI.DTO.Vocabular yDomainFiltr.xml	
	InfoWorld.EVS.CTSMapping.DTO.DSMap ConceptCode.xml	
	InfoWorld.EVS.CTSMapping.DTO.DSMap Entry.xml	
	InfoWorld.EVS.CTSMapping.DTO.DSSup portedMapsFiltr.xml	
	InfoWorld.EVS.CTSVAPI.DTO.CodeSyste m.xml	
	InfoWorld.EVS.CTSVAPI.DTO.CodeSyste mFiltr.xml	
	InfoWorld.EVS.CTSVAPI.DTO.CodingSch emeFiltr.xml	
	InfoWorld.EVS.CTSVAPI.DTO.ConceptCo deValid.xml	
	InfoWorld.EVS.CTSVAPI.DTO.ConceptDe scription.xml	
	InfoWorld.EVS.CTSVAPI.DTO.ConceptEx pansion.xml	
	InfoWorld.EVS.CTSVAPI.DTO.ConceptPr operties.xml	
	InfoWorld.EVS.CTSVAPI.DTO.ConceptsB yDesignation.xml	
	InfoWorld.EVS.CTSVAPI.DTO.ConceptsB yProperty.xml	
	InfoWorld.EVS.CTSVAPI.DTO.Designatio n.xml	
	InfoWorld.EVS.CTSVAPI.DTO.RelatedCo ncepts.xml	
	InfoWorld.EVS.DTOEditBulk.ConceptBulk. xml	
	InfoWorld.EVS.DTOEditBulk.ConceptProp ertyBulk.xml	

Relative Path	File	Description
	InfoWorld.EVS.DTOEditBulk.RelationBulk. xml	
	InfoWorld.WSEventing.DTO.CustomSubs criptions.xml	
	InfoWorld.WSEventing.DTO.Endpoints.xm	
	InfoWorld.WSEventing.DTO.FilterDialects. xml	
	InfoWorld.WSEventing.DTO.Message.xml	
	InfoWorld.WSEventing.DTO.MessageGet. xml	
	InfoWorld.WSEventing.DTO.MessageGet DeliveryTo.xml	
	InfoWorld.WSEventing.DTO.Subscriptions .xml	
	XamIDataContracts.DSXamIReverse.xml	
	XamIDataContracts.RootXamI.xmI	
	XamIDataContracts.XAMLFiltr.xml	
Services\PAP	ActionManager.dll	
	AuthorizationProxy.dll	Disperies of DAD convice
	Configuration.dll	binanes of FAF Service.
	connectionConfiguration.config	

Relative Path	File	Description
	Connections.Common.dll	
	Microsoft.ApplicationBlocks.Data.dll	
	Microsoft.ApplicationBlocks.ExceptionMan agement.dll	
	Microsoft.ApplicationBlocks.ExceptionMan agement.Interfaces.dll	
	Microsoft.Practices.EnterpriseLibrary.Com mon.dll	
	Microsoft.Practices.EnterpriseLibrary.Exce ptionHandling.dll	
	Microsoft.Practices.EnterpriseLibrary.Exce ptionHandling.Logging.dll	
	Microsoft.Practices.EnterpriseLibrary.Logg ing.dll	
	Microsoft.Practices.ObjectBuilder.dll	
	MS.Caching.dll	
	ObjectPickerHelper2.dll	

Relative Path	File	Description	
	PAPProxy.dll		
	PDPServiceAuthorizationManager.dll		
	PolicyAdministrationPoint.dll		
	PolicyAdministrationPoint.dll.config		
	SecureChannel.dll		
	Security.Null.dll		
	Connections.xml		
	InfoWorld.DE.DataAccess.LabSet.xml		
	InfoWorld.DE.DataAccess.LabSetId.xml	XML mapping files which contains mapping definitions between ePractice datasets and	
	InfoWorld.DE.DataAccess.SentStatus.xml	SQL tables. The dataset is specified by	
	InfoWorld.WSEventing.DTO.CustomSubs criptions.xml	to interact with – specified through the <mydatatable> tag – is defined by four</mydatatable>	
Services\PAP\DBRepository	InfoWorld.WSEventing.DTO.Endpoints.xm	commands – usually stored procedures – which represent the CRUD operations which	
	InfoWorld.WSEventing.DTO.FilterDialects. xml	can be performed on the table: select (Read), insert (Create), update (Update) ar delete (Delete), Stored procedure	
	InfoWorld.WSEventing.DTO.Message.xml	parameters are passed from these datasets and mapped in the same XML file.	
	InfoWorld.WSEventing.DTO.MessageGet. xml	Connections.xml file is used to set the connection string to BMS_AURHZ database.	
	InfoWorld.WSEventing.DTO.MessageGet DeliveryTo.xml		
	InfoWorld.WSEventing.DTO.Subscriptions .xml		
	PolicyDecisionPoint.dll		
Services\PDP	PolicyDecisionPoint.dll.config	Binaries of PDP service.	
	AuthorizationProxy.dll		
	RS.Contracts.dll	1	
Services\RS	RS.Proxy.dll	Binaries of RS service.	
	RS.ServiceImplementation.dll	1	
	RS.ServiceImplementation.dll.config		
	7zip.dll		
	AdapterRepository.dll	1	
	AuditTrailSender.dll	1	
	AuthorizationSubscriber.dll	1	
	BindingExtensions.dll		
	Common.dll		

Relative Path	File	Description	
	CommonResources.dll		
	Connections.SingleDatabase.dll		
	ContextWriter.dll		
	DataUtil.dll		
	General.MT.dll		
	HL7CDA.dll	Shared binaries by BMS Service and Win	
Services\Shared	HL7CMET.dll	Service.	
	HL7DataTypes.dll		
	ICSharpCode.SharpZipLib.dll		
	Infoworld.Configuration.dll		
	log4net.dll		
	MiddleTier.dll		
	MS.Common.dll		
	MS.Configuration.dll		
	MS.Connections.dll		
	MS.Security.dll		
	Saml20.dll		
	SecurityTokenCache.dll		
Relative Path	File	Description	
	Tracing.dll		
	WSEventing.dll		
	WSEventing.DataAccess.dll		
	WSEventing.DTO.dll		
	Xacml2.dll		
	XacmlCore.dll		
Services\STS	SecureTokenService.dll	5	
	SecureTokenService.dll.config	Binaries of SIS service.	
	WinServiceHost.exe		
Services	WinServiceHost.exe.config	WinServiceHost files.	
	BMS-Services.log	1	

Table 25-BMS Website Files

Relative Path	File	Description
WebSite	CacheService.svc	The binaries of the BMS
	Global.asax	Web Site, web site configuration file.
		Jan 1
	Web config	
	WebTrace.log	
		Dynamic text for main
	additional_login_msg.txt	login page
WebSite\bin	AntiXSSLibrary.dll	Web site's binaries.
	AuditTrailSender.dll	
	AuthenticationProxy.dll	
	BMS.Contracts.dll	
	BMS.Facade.Contracts.dll	
	BMS.Facade.dll	
	BMS.PAPContracts.dll	
	BMS.Security.dll	
	BMS.ServicesWrapper.dll	
	BMS.Utils.dll	
	BMS.Web.dll	
	EISContracts.dll	
	HL7DataTypes.dll	
	HtmlAgilityPack.dll	
	HtmlSanitizationLibrary.dll	
	IContracts.dll	
	ICTSEdit.dll	
	Infoworld.Configuration.dll	
	log4net.dll	
	log4netAsync.dll	
	Microsoft.ReportViewer.Common.dll	
	Microsoft.ReportViewer.DataVisualization.dl	
	Microsoft.ReportViewer.ProcessingObjectM odel.dll	
	Microsoft.ReportViewer.WebForms.dll	
	Microsoft.Web.Infrastructure.dll	
	Microsoft.Web.Mvc.dll	
	RS.Contracts.dll	

Relative Path	File	Description
	Saml20.dll	
	SecurityTokenCache.dll	
	System.Web.Helpers.dll	
	System.Web.Mvc.dll	
	System.Web.Razor.dll	
	System.Web.WebPages.Deployment.dll	
	System.Web.WebPages.dll	
	System Web WebPages Bazor dll	
	Xacml2.dll	
	XacmlCore.dll	
WebSite\bin\LocalReportWhite board	WardWhitebord.rdlc	Ward Whiteboard report file.
WebSite\bin\Scripts	Conditional-validation.js	File used by the site for conditional validation.
WebSite\Content	bundleCss.chirp.config	Images, themes and styles.
	Controls.css	
	LayoutCss.min.css	
	LayoutVistaIntegrationCss.min.css	
	Reports.min.css	
	Site.css	
WebSite\Content\images	add_tab_24.png	Images used by site.
	arrow_down.png	
	arrow_up.png	
	BMSLogoV6.jpg	
	check_inv.png	
	edit_staff_cancel.png	
	edit_staff_save.png	
	Favlcon.ico	
	Info.png	
	Ladybug.png	
	login_logo.png	
	logo.png	
	order_down.png	
	order_up.png	
	sort_down.png	
	sort_up.png	
WebSite\Content\themes\base	jquery.ui.accordion.css	jQuery controls style- sheets files.
	jquery.ui.all.css	
	jquery.ui.autocomplete.css	
	jquery.ui.base.css	

Relative Path	File	Description
	jquery.ui.button.css	
	jquery.ui.core.css	
	jquery.ui.datepicker.css	
	jquery.ui.dialog.css	
	jquery.ui.progressbar.css	
	jquery.ui.resizable.css	
	jquery.ui.selectable.css	
	jguery.ui.slider.css	
	iguery.ui.tabs.css	
	iguery.ui.theme.css	
WebSite\Content\themes\base		Images
\images	ui-bg_flat_0_aaaaaa_40x100.png	
	ui-bg_flat_75_ffffff_40x100.png	
	ui-bg_glass_55_fbf9ee_1x400.png	
	ui-bg_glass_65_ffffff_1x400.png	
	ui-bg_glass_75_dadada_1x400.png	
	ui-bg_glass_75_e6e6e6_1x400.png	
	ui-bg_glass_95_fef1ec_1x400.png	
	ui-bg_highlight-soft_75_cccccc_1x100.png	
	ui-icons_222222_256x240.png	
	ui-icons_2e83ff_256x240.png	
	ui-icons_454545_256x240.png	
	ui-icons_888888_256x240.png	
	ui-icons_cd0a0a_256x240.png	
WebSite\Reporting	EvacuationPatientReportViewer.aspx	Report Viewer pages.
	LocalReportViewer.aspx	
	ReportError.aspx	
	ReportViewer.aspx	
WebSite\ ReportsLocal	BedStatusReport.rdlc	Bed Status Report file.
WebSite\Scripts	antiForgeryToken.js	JavaScript files.
	bundleScripts.chirp.config	
	conditional-validation.js	
	element-change.js	
	hoverIntent.js	
	jquery.autosize.js	
	jquery.base64.js	
	jquery.base64.min.js	
	jquery.jscrollpane.min.js	
	jquery.maskedinput-1.3.min.js	
	jquery.mousewheel.js	
	jquery.tablescroll.js	
	jquery.tablescroll.min.js	
	jquery.tablesorter.js	
	jquery.tablesorter.min.js	
	jquery.ui.autocomplete.js	

Relative Path	File	Description
	jquery.ui.core.js	
	jquery.ui.position.js	
	jquery.ui.progressbar.js	
	jquery.ui.widget.js	
	jquery.unobtrusive-ajax.js	
	jquery.unobtrusive-ajax.min.js	
	jquery.validate.js	
	jquery.validate.min.js	
	jquery.validate.unobtrusive.js	
	jquery.validate.unobtrusive.min.js	
	jquery.validate-vsdoc.js	
	jquery-1.5.1.js	
	jquery-1.5.1.min.js	
	jquery-1.5.1-vsdoc.js	
	jquery-1.7.1.js	
	jquery-1.7.1.min.js	
	jquery-ui-1.8.11.js	
	jquery-ui-1.8.11.min.js	
	jquery-ui-1.8.18.custom.js	
	json2.js	
	LayoutAdminAutoCompleteAndDatePicker.js	
	LayoutAdminScripts.min.js	
	LayoutAutoCompleteAndDatePicker.js	
	LayoutScripts.min.js	
	LayoutVistaIntegrationDatePicker.js	
	LayoutVistaIntegrationScripts.min.js	
	MicrosoftAjax.debug.js	
	MicrosoftAjax.js	
	MicrosoftMvcAjax.debug.js	
	MicrosoftMvcAjax.js	
	MicrosoftMvcValidation.debug.js	
	MicrosoftMvcValidation.js	
	modernizr-1.7.js	
	modernizr-1.7.min.js	
	Reports.min.js	
	superfish.js	
	supersubs.js	
	whiteboard-script.js	
	whiteboard-script.min.js	
WebSite\Views	_ViewStart.cshtml	User Interface views.
	Web.config	
webSite/views/Account	LogOff.cshtml	interface views.
	LogOn.cshtml	
WebSite\Views\Admin		Admin section user
	AddEditUser.cshtml	interface views.
	AddUserOperations.cshtml	

Relative Path	File	Description
	CacheConfirmation.cshtml	
	FacilityEdit.cshtml	
	FacilityEditSaved.cshtml	
	Index.cshtml	
	RefreshUsersConfirmation.cshtml	
	RemoveUserOperations.cshtml	
	SelectUser.cshtml	
	SisterSiteAddEdit.cshtml	
	SisterSiteEditSaved.cshtml	
	UserEditHasSaved.cshtml	
	UserOperationsView.cshtml	
WebSite\Views\AdminSpecialt yAssociation	Delete.cshtml	Admin specialty association user interface views.
	Index.cshtml	
WebSite\Views\AdminUnavailableR	AddConfirmation.cshtml	Admin unavailable reason
	Delete.cshtml	
	DeleteConfirmation.cshtml	
	Fdit.cshtml	
	EditConfirmation.cshtml	
	Index cshtml	
	MissingUnavailableReasonText cshtml	
	UnavailableReasonAlreadyExists cshtml	
WebSite\Views\AdminComments	Index cshtml	
	NotifyChange cshtml	
WebSite\Views\AdminWaitingArea	Notifyenangelesitem	Admin waiting area user
	AddAction.cshtml	interface views.
	Delete.cshtml	
	DeleteAction.cshtml	
	Edit.cshtml	
	EditAction.cshtml	
	Index.cshtml	
WebSite\Views\AdminWhiteboardRe	Delete cshtml	Admin whiteboard report
	Edit cshtml	
	Index cshtml	
WebSite\Views\AdtOrderableItems		
	Confirmation.cshtml	ADT Orderable Items user interface views.
	Index.cshtml	
	OrderableItemsList.cshtml	
WebSite\Views\BackgroundProcess ors	AddEditConfirmation.cshtml	Background Processors user interface views.
	DeleteConfirmation.cshtml	
	Index.cshtml	
WebSite\Views\BedBoard	Index.cshtml	VISN user interface views.
WebSite\Views\BedBoardModule	Index.cshtml	Bed Board Module user
	•	•

Relative Path	File	Description
		interface view.
WebSite\Views\BedInformation		Bed Information user
WebSite\\/iewe\DedStatueDeport	NotifyChange.cshtml	Detients Dending
WebSite\Views\BedStatusReport		Placement Status report
	Index.cshtml	user interface view.
WebSite\Views\ContingencySettings	Confirmation ochtml	Contingency settings user
WobSite/Wiews/Discharge/Linic	muex.csntim	Discharge clipic user
website/views/bischargeCillic	Index.cshtml	interface views.
	MessageConfirmation.cshtml	
WebSite\Views\EmsBedStatusAdmi	-	EMS bed status user
n	Edit.cshtml	interface views
	EMSBatchAssign.cshtml	
	Index.cshtml	
	SaveConfirmation.cshtml	
WebSite\Views\EMSMobile	EMSList cshtml	EMS Mobile user interface
		Views.
Mahaita)//iawa)EMahilal agan	Users.csntm	
WebSite(Views\EIVISIVIObileLogoff	Index.cshtml	interface view.
WebSite\Views\EmsNotification		EMS Notification user
	AddEdit.cshtml	interface views.
	AddEditAction.cshtml	
	Delete.cshtml	
	DeleteAction.cshtml	
	Index.cshtml	
WebSite\Views\EmsStaff	Delete control	EMS Staff user interface
		Views.
	Index.csnum	Event Netification user
WebSite(Views)_ventivotification	AddConfirmation.cshtml	interface views
	AddEdit.cshtml	
	Delete.cshtml	
	DeleteConfirmation.cshtml	
	EditConfirmation.cshtml	
	Index.cshtml	
WebSite\Views\Exception		Exception user interface
•	Index.cshtml	views.
	WFException.cshtml	
WebSite\Views\FacilityDiversion	Add.cshtml	Facility Diversion user interface views.
	Confirmation.cshtml	
	Edit.cshtml	
	Index.cshtml	
WebSite\Views\FacilitySettings		Facility Settings user
	Index.cshtml	interface views.
	SaveConfirmation.cshtml	

Relative Path	File	Description
WebSite\Views\Home	AdmissionList.cshtml	Home user interface views.
	AdmissionSuccessRemove.cshtml	
	AdmissionSuccessUndoRemove.cshtml	
	ChangeIntegratedSiteError.cshtml	
	Edit.cshtml	
	FeeUtilizationAdmissionList.cshtml	
	Index.cshtml	
	PatientFlowAdmissionList.cshtml	
	PatientInHouseAdmissionList.cshtml	
	PatientInguiry.cshtml	
	RemoveAdmission.cshtml	
	StandardAdmissionList.cshtml	
	UndoRemoveAdmission cshtml	
WebSite\Views\IconLegend	Index.cshtml	Icon Legend user interface view.
WebSite\Views\IconLibrary	Edit.cshtml	Icon Library user interface views.
	Index.cshtml	
	ResetConfirmation.cshtml	
	SaveConfirmation.cshtml	
WebSite\Views\Information	Index.cshtml	Information user interface view.
WebSite\Views\LogOff	Index.cshtml	LogOff user interface view.
WebSite\Views\MaintainMarquee	Index eshtml	Maintain Marquee user interface view.
	Saved eshtml	
WebSite\\/iews\NationalAndBegiona		National user interface
		views.
	Index.cshtml	
	PatientListView.cshtml	
WebSite\Views\NewEvents	Index.cshtml	New events user interface view.
WebSite\Views\Numi		NUMI user interface
	Delete cshtml	views.
	Fdit cshtml	
	Index cshtml	
WebSite\Views\Patient		Patient user interface
	Admission.cshtml	views.
	Confirmation.cshtml	
	EvacuationData.cshtml	
	GenericWfFault.cshtml	
	PatientWaitingAdd.cshtml	
	Select.cshtml	
WebSite\Views\Reports		Patient user interface
	Index.cshtml	Views.
WebSite\Views\Shared	Layout.cshtml	Shared user interface
·		

Relative Path	File	Description
		views.
	LavoutAdminPages.cshtml	
	VistaIntegrationLayout.cshtml	
	CustomWebViewPage.cs	
	Frror cshtml	
	Header.cshtml	
	HtmlHelpers.cs	
	RequiredIfHelpers.cs	
WebSite\Views\SiteList		Site list user interface
	Index.cshtml	view.
WebSite\Views\SiteOptions		Site options user
	EvacuationConfirmation.cshtml	interface views.
	Index.cshtml	
WebSite\Views\Transfer	AddEditResult.cshtml	
	AddTranfer.cshtml	
	EditTransfer.cshtml	
	FinalizeResult.cshtml	
	Index.cshtml	
WebSite\Views\Unauthorized		Unauthorized user
Web Cite///ieuro/lleerConfiguration	PermissionAuth.cshtml	interface view.
webSite/views/UserConfiguration	Index.cshtml	User configuration views.
	SelectUser.cshtml	
	UserEditHasSaved.cshtml	
WebSite\Views\UnavailableReason	AddConfirmation.cshtml	interface views.
	Delete.cshtml	
	DeleteConfirmation.cshtml	
	Edit.cshtml	
	EditConfirmation.cshtml	
	Index.cshtml	
	MissingUnavailableReasonText.cshtml	
	Unavailable Reason Already Exists.cshtml	
	UnavailableReasonList.cshtml	
WebSite\Views\VistaIntegration	Audit cshtml	VistA integration user
	Auditl og Entries cshtml	
	Categories cshtml	
	DeleteScheduler cshtml	
	EditScheduler cshtml	
	EditVistASite cshtml	
	ErrorDetail cshtml	
	Index.cshtml	
	Schedulers.cshtml	
	VistASites.cshtml	
WebSite\Views\WaitingArea	AddAction.cshtml	
Ŭ Ŭ	Delete.cshtml	
	DeleteAction.cshtml	

Relative Path	File	Description
	Edit.cshtml	
	EditAction.cshtml	
	Index.cshtml	
WebSite\Views\WardConfiguration	AddEditWardConfirmation.cshtml	Ward configuration user interface views.
	Delete.cshtml	
	DeleteConfirmation.cshtml	
	Index.cshtml	
	Wards.cshtml	
WebSite\Views\WardOccupancy	Index.cshtml	Ward occupancy user interface view.
WebSite\Views\WardWhiteboard	ClearAll.cshtml	Ward whiteboard user interface views.
	Edit.cshtml	
	Index.cshtml	
	NotifyChange.cshtml	
	WardWhiteBoard.cshtml	
	WhiteboardDataOne.cshtml	
	WhiteboardDataTwo.cshtml	
WebSite\Views\WardWhiteboardUrl	Index.cshtml	Ward whiteboard url user interface view.
WebSite\Views\WhiteboardStaff	Index.cshtml	Whiteboard staff user interface view.
WebSite\Views_ViewStart.cshtml	_ViewStart.cshtml	

Table 26-Policy Manager Files

Relative Path	File	Description	
	7zip.dll		
	AdapterRepository.dll		
	AuditTrailSender.dll		
	Infoworld.Configuration.dll		
	MS.Common.dll		
	MS.Configuration.dll		
	MS.Connections.dll		
	PAPProxy.dll		
Consoles\PolicyManager	PolicyEditor.dll	Dinarias of Delig: Manager application	
	PolicyEditor.dll.config	Binaries of PolicyManager application	
	PolicyManager.exe		
	PolicyManager.exe.config		
	ResourceSecurityProperties.dll		
	SecurityTokenCache.dll		
	WSEventing.dll		
	WSEventing.DataAccess.dll		
	WSEventing.DTO.dll		
Consolos/Policy/Manager/ ro	PolicyEditor.resources.dll	Piparios used by Policy Manager	
Consoles (FolicyWanager 10	ResourceSecurityProperties.resources.dll	Binaries used by Folicy Manager.	
Consoles\PolicyManager\ ro-	PolicyEditor.resources.dll	Binaries used by Policy Manager	
RO	ResourceSecurityProperties.resources.dll	binanes used by Folicy Manager.	

4 Archiving

All the sensitive data in the BMS solution is persisted in a collection of SQL Server Databases. Therefore the archiving process is implying the definition of maintenance plans that will regularly make backups of these databases, backups that can be restored if needed.

The maintenance plan can be defined as detailed in the following pictures:



Figure 74-Backup Maintenance Plan

5 External Relationships

External relationships can be referenced from External Interfaces in the next section.

6 External Interfaces

VistA and NUMI are the external interfaces that are connected with the BMS system (see screenshot below):



Figure 75-BMS Exnternal Interfaces

• All the VISTA deployments will be connected through VIA which has replaced MDWS. In order to connect to VIA, BMS service configuration file (BMS.ServiceHost.exe.config) should be changed as follow, see Table 4 – BMS ServiceHost Configuration Parameter section:

ViaEndpointUrl	value="https://REDACTED.via.va.gov/ vi a- webservices/services/BackgroundProc essService"	value="https://REDACTED.via.va.gov/via- webservices/services/BackgroundProcessSer vice"
ViaRequestingApp	value="BMSBatch"	value="BMSBatch"
ViaAppToken	value="BMSB_ID577"	value="BMSB_ID577"
ViaAppPassword	value="****"	Value="****"
MinimumFilemanDate	Value="01/01/1992"	Value="01/01/1992"

• NUMI - A connection string to NUMI database needs to be set in service configuration file (BMS.ServiceHost.exe.config), see *Table 4 - BMS ServiceHost Configuration Parameters* section:

<*ConnectionString>Data Source=numiserver;Initial Catalog=NUMI;Integrated Security=True;</ConnectionString>.*

NOTE: All the configurations described above are using dummy servers and ports. Real deployment should use appropriate server, port and database connection strings.

7 Software Security

BMS Security is implemented at two levels:

- The first level of security consists in deciding which users have access to what pages (National/Regional, VISN, facility, EMS page).
- The second level of security refers to the read/write permissions (which are the pages a user can edit/update).

Both levels of security are implemented by means of the Policy Manager application described in the next section.

An additional level of security is provided by the domain restrictions: users can access only the BMS pages within the domain where they have been granted access rights.

The security services are based on well-established standards and practices such as:

- LDAP protocol;
- WS-Security specification;
- X509 certificates.

These services are in charge of providing for the following 'functionalities':

- CIA:
 - Confidentiality encrypted message.
 - Integrity message hasn't been tampered.
 - Authentication prove identity.
- Authorization role based access.
- Accountability audit trail.
- Policies mutually agreed by involved parties.

From the client application perspective, the security services are in charge of:

- Authentication:
 - SAML assertions verified by the called service.

- Role based authorization:
 - Roles stored in LDAP.
 - Policies defined using XACML language.
- Record level authorization.
- Audit trail.

The audit services provide the means to address the issues of liability management, asset protection and quality of service. To facilitate a timely response to policy violations, security incidents or infrastructure and application failures, InFlow will support monitoring, logging, analysing, and reporting on every level of its architecture.



Figure 76-Security Services Architecture

The security services consist of the authentication part: STS – security token service and authorization part: PAP – policy administration point and PDP – policy decision point.

7.1 Policy Manager

From the Console folder of your BMS solution, select Policy Manager and then double-click the PolicyManager.exe file to display the following dialog window:

R Policy Manager	San or other San	-		×
File Action				
Add Role Add Task Add Operation Ma	nage subscribers			
E Rolicy Manager	Name	Туре	Description	
Definitions	23 Administrators	Role Definition		
Task Definitions	38 AuditLogUsers	Role Definition		
Operation Definitions	37. EmsStaff	Role Definition		
Bole Assignments	38 EMSSupervisorUsers	Role Definition		
Administrators	38 Guests	Role Definition		
AuditLogUsers	38 NationalUsers	Role Definition		
EmsStaff	38 RegionalUsers	Role Definition		
- Guests	33 Site Users	Role Definition		
NationalUsers	32 Support Users	Role Definition		
	23 VisnUsers	Role Definition		
- R Site Users				
EMSSupervisorUsers				
				,

Figure 77-Policy Manager Main Window

The Definitions folder in the left hand panel contains the definitions of the roles, tasks and operations valid within the BMS application.

The Role Definitions folder contains the list of user roles defined within BMS.

The Task Definitions folder contains the list of tasks that can be performed within BMS and their corresponding definitions. A task usually requires the completion of several operations.

The Operation Definitions folder contains the list of operations that can be performed within BMS and their corresponding definitions.

7.2 Operation Definitions

To view the definition of an operation select Operation definitions from the left-hand panel of the main Policy Manager window and double-click the operation to display the following dialog window:

General		
	Name:	
C3	Admin, FacilityEdit Update	
	Description:	
	AdminController, FacilityEdit (POST)	
	Applies to the resource types:	
	HI 7-BIM-V3-DOMAIN	-
	V HL7-RIM-V3-Person	
	HL7-RIM-V3-Place	
	[™] HL7-RIM-V3-Organization	
	۲ ()	

Figure 78-Operation Definition

A list with all the operations of BMS application is presented below:

Table 27-BMS Operations

Operation Name	Operation Description
Admin, AddEditUser Read	'Add/Edit BMS User' hyperlink from the Administration section's menu.
Admin, FacilityEdit Read	'Edit BMS Site' hyperlink from the Administration section's menu.
Admin, Index Read	'BMS Admin' hyperlink from the National And Regional Page.
Operation Name	Operation Description
Admin, SelectUser Read	'Select Existing NT User Name' button from the ADMINISTRATION SECTION - USERADD/EDIT page.
Admin, SisterSiteAddEdit Read	'Edit Sister Sites' hyperlink from the Administration section's menu.
Admin, AddUserOperations Read	'Add User' button from the ADMINISTRATION SECTION - FACILITY EDIT page (Edit BMS Site submenu).
Admin, RemoveUsers Read	'Remove Selected' button from the ADMINISTRATION SECTION - FACILITY EDIT page (Edit BMS Site submenu).
Admin, SearchUser Read	'Find' button from the 'Select user' page ('Select Existing NT User Name' button from the Administration Section menu, 'Add/Edit BMS User' submenu).
Admin, SearchUsers Read	'Find' button from the ADMINISTRATION SECTION - FACILITY EDIT page (Edit BMS Site submenu).

Admin, ClearCache Read	'Clear Cache' link from the Administration section's menu.
Admin, AddEditUser Update	'Submit' button from the ADMINISTRATION SECTION - USERADD/EDIT page.
Admin, FacilityEdit Update	'Submit' button from Administration section's menu 'Edit BMS Site' hyperlink (page ADMINISTRATION SECTION - FACILITY EDIT).
Admin, SisterSiteAddEdit Update	'Edit Sister Sites' hyperlink from the Administration section's menu, 'Submit' button.
Admin, AddUserOperations Update	'Add' button from Add users page (Add User button from the Facility page).
Admin, RemoveUserOperations Update	'Remove Selected' button from the ADMINISTRATION SECTION - FACILITY EDIT page (Edit BMS Site submenu).
AdminComments, Delete Read	'Delete' hyperlink from the Common Medical Terms page.
AdminComments, Edit Read	'Edit' hyperlink from the Common Medical Terms page.
AdminComments, Index Read	'Common Medical Terms' hyperlink from the Administration section's menu.
AdminComments, Index Update	'Save' button from the Common Medical Terms page.
AdminIcon, Delete Read	'Delete Icon' button on ADMINISTRATION SECTION - EDIT ICON page (Add/Edit Icon Submenu)
AdminIcon, Edit Read	'Edit' Link on ADMINISTRATION SECTION - ICON ADD/EDIT page (Add/Edit Icon Submenu)
AdminIcon, Index Read	'Add/Edit Icon' link on ADMINISTRATION SECTION
AdminIcon, Search Read	'Search' Link on ADMINISTRATION SECTION - ICON ADD/EDIT page (Add/Edit Icon Submenu)
AdminIcon, ViewIconReport Read	"Report' Link on ADMINISTRATION SECTION - ICON ADD/EDIT page (Add/Edit Icon Submenu)
AdminIcon, Delete Update	'Remove' button on ADMINISTRATION SECTION - DELETE ICON page (Add/Edit Icon Submenu)
AdminIcon, Edit Update	'Save' button on ADMINISTRATION SECTION - EDIT ICON page (Add/Edit Icon Submenu)
AdminIcon, Index Update	'Up/Down arrow' buttons on ADMINISTRATION SECTION - ICON ADD/EDIT page (Add/Edit Icon Submenu)
AdminSpecialtyAssociation, Delete Read	'Delete' Link on ADMINISTRATION SECTION - Treating Specialty/NUMA/HAvBED Edit page (Treating Specialty/NUMA/HAvBED Submenu)
AdminSpecialtyAssociation, Index Read	'Treating Specialty/NUMA/HAvBED' Link on ADMINISTRATION SECTION
Operation Name	Operation Description
AdminSpecialtyAssociation, Delete Update	'Delete' Button on ADMINISTRATION SECTION - Treating Specialty/NUMA/HAvBED Delete page (Treating Specialty/NUMA/HAvBED Submenu)
AdminSpecialtyAssociation, Index Update	'Save' Button on ADMINISTRATION SECTION - Treating Specialty/NUMA/HAvBED Edit page (Treating Specialty/NUMA/HAvBED Submenu)
AdminUnavailableReason, Delete Read	'Delete' link on ADMINISTRATION SECTION - National Unavailable Reason page (National Unavailable Reason Submenu)
AdminUnavailableReason, Edit Read	'Edit' link on ADMINISTRATION SECTION - National Unavailable Reason page (National Unavailable Reason Submenu)
AdminUnavailableReason, Index Read	'National Unavailable Reason' Link on ADMINISTRATION SECTION

AdminUnavailableReason, Delete Update	'Delete Record' button on ADMINISTRATION SECTION - National Unavailable Reason Delete page (National Unavailable Reason Submenu)
AdminUnavailableReason, Edit Update	'Submit' button on ADMINISTRATION SECTION - National Unavailable Reason Edit page (National Unavailable Reason Submenu)
AdminUnavailableReason, Index Update	'Add' button on ADMINISTRATION SECTION - National Unavailable Reason page (National Unavailable Reason Submenu)
AdminWaitingArea, Delete Read	'Delete' link on ADMINISTRATION SECTION - National Waiting Areas Parameter page (National Waiting Area Submenu)
AdminWaitingArea, Edit Read	'Edit' link on ADMINISTRATION SECTION - National Waiting Areas Parameter page (National Waiting Area Submenu)
AdminWaitingArea, Index Read	'National Waiting Area' Link on ADMINISTRATION SECTION
AdminWaitingArea, DeleteAction Update	'Delete Record' button on ADMINISTRATION SECTION - National Waiting Area Parameter Delete page (National Waiting Area Submenu)
AdminWaitingArea, Edit Update	'Submit' button on ADMINISTRATION SECTION - National Waiting Area Parameter Edit page (National Waiting Area Submenu)
AdminWaitingArea, Index Update	'Add' button on ADMINISTRATION SECTION - National Waiting Area Parameter page (National Waiting Area Submenu)
AdminWhiteboardReport, Delete Read	'Delete' link on ADMINISTRATION SECTION - Whiteboard Report page (Background Processor Submenu)
AdminWhiteboardReport, Edit Read	'Edit' link on ADMINISTRATION SECTION - Whiteboard Report page (Background Processor Submenu)
AdminWhiteboardReport, Index Read	'Whiteboard Report' tab on ADMINISTRATION
AdminWhiteboardReport, Delete Update	'Delete Record' button on ADMINISTRATION SECTION - Whiteboard Report Delete page (Background Processor Submenu)
AdminWhiteboardReport, Delete Update AdminWhiteboardReport, Edit Update	Delete Record' button on ADMINISTRATION SECTION - Whiteboard Report Delete page (Background Processor Submenu) 'Save' button on ADMINISTRATION SECTION - Whiteboard Report Edit page (Background Processor Submenu)
AdminWhiteboardReport, Delete Update AdminWhiteboardReport, Edit Update AdtOrderableItems, Index Read	 Delete Record' button on ADMINISTRATION SECTION Whiteboard Report Delete page (Background Processor Submenu) 'Save' button on ADMINISTRATION SECTION - Whiteboard Report Edit page (Background Processor Submenu) Site Options, ADT Orderable Items Add/Delete hyperlink
AdminWhiteboardReport, Delete Update AdminWhiteboardReport, Edit Update AdtOrderableItems, Index Read AdtOrderableItems, Delete Update	 Delete Record' button on ADMINISTRATION SECTION Whiteboard Report Delete page (Background Processor Submenu) 'Save' button on ADMINISTRATION SECTION - Whiteboard Report Edit page (Background Processor Submenu) Site Options, ADT Orderable Items Add/Delete hyperlink 'Delete' hyperlink from the list of orderable items.
AdminWhiteboardReport, Delete Update AdminWhiteboardReport, Edit Update AdtOrderableItems, Index Read AdtOrderableItems, Delete Update AdtOrderableItems, Index Update	 'Delete Record' button on ADMINISTRATION SECTION Whiteboard Report Delete page (Background Processor Submenu) 'Save' button on ADMINISTRATION SECTION - Whiteboard Report Edit page (Background Processor Submenu) Site Options, ADT Orderable Items Add/Delete hyperlink 'Delete' hyperlink from the list of orderable items. 'Add' button from the Bed Board ADT Orderable Items Configuration.
AdminWhiteboardReport, Delete Update AdminWhiteboardReport, Edit Update AdtOrderableItems, Index Read AdtOrderableItems, Delete Update AdtOrderableItems, Index Update Operation Name	'Delete Record' button on ADMINISTRATION SECTION 'Whiteboard Report Delete page (Background Processor Submenu) 'Save' button on ADMINISTRATION SECTION - Whiteboard Report Edit page (Background Processor Submenu) Site Options, ADT Orderable Items Add/Delete hyperlink 'Delete' hyperlink from the list of orderable items. 'Add' button from the Bed Board ADT Orderable Items Configuration.
AdminWhiteboardReport, Delete Update AdminWhiteboardReport, Edit Update AdtOrderableItems, Index Read AdtOrderableItems, Delete Update AdtOrderableItems, Index Update Operation Name BackgroundProcessors, Index Read	 Delete Record' button on ADMINISTRATION SECTION Whiteboard Report Delete page (Background Processor Submenu) 'Save' button on ADMINISTRATION SECTION - Whiteboard Report Edit page (Background Processor Submenu) Site Options, ADT Orderable Items Add/Delete hyperlink 'Delete' hyperlink from the list of orderable items. 'Add' button from the Bed Board ADT Orderable Items Configuration. Operation Description 'Backgroung Processors' hyperlink from Site Options page.
AdminWhiteboardReport, Delete Update AdminWhiteboardReport, Edit Update AdtOrderableItems, Index Read AdtOrderableItems, Delete Update AdtOrderableItems, Index Update Operation Name BackgroundProcessors, Index Read BackgroundProcessors, Index Update	'Delete Record' button on ADMINISTRATION SECTION 'Whiteboard Report Delete page (Background Processor Submenu) 'Save' button on ADMINISTRATION SECTION - Whiteboard Report Edit page (Background Processor Submenu) Site Options, ADT Orderable Items Add/Delete hyperlink 'Delete' hyperlink from the list of orderable items. 'Add' button from the Bed Board ADT Orderable Items Configuration. Deration Description 'Backgroung Processors' hyperlink from Site Options page. 'Save Scheduler' button from Background Processors page within Site Options.
AdminWhiteboardReport, Delete Update AdminWhiteboardReport, Edit Update AdtOrderableItems, Index Read AdtOrderableItems, Delete Update AdtOrderableItems, Index Update Operation Name BackgroundProcessors, Index Read BackgroundProcessors, Index Update AuditLogReport, Index Read	'Delete Record' button on ADMINISTRATION SECTION 'Whiteboard Report Delete page (Background Processor Submenu) 'Save' button on ADMINISTRATION SECTION - Whiteboard Report Edit page (Background Processor Submenu) Site Options, ADT Orderable Items Add/Delete hyperlink 'Delete' hyperlink from the list of orderable items. 'Add' button from the Bed Board ADT Orderable Items Configuration. Deration Description 'Backgroung Processors' hyperlink from Site Options page. 'Save Scheduler' button from Background Processors page within Site Options. 'View audit log' link on ADMINISTRATION SECTION
AdminWhiteboardReport, Delete Update AdminWhiteboardReport, Edit Update AdtOrderableItems, Index Read AdtOrderableItems, Delete Update AdtOrderableItems, Index Update Doperation Name BackgroundProcessors, Index Read BackgroundProcessors, Index Update AuditLogReport, Index Read rep, Audit Log Report	'Delete Record' button on ADMINISTRATION SECTION 'Whiteboard Report Delete page (Background Processor Submenu) 'Save' button on ADMINISTRATION SECTION - Whiteboard Report Edit page (Background Processor Submenu) Site Options, ADT Orderable Items Add/Delete hyperlink 'Delete' hyperlink from the list of orderable items. 'Add' button from the Bed Board ADT Orderable Items Configuration. Operation Description 'Backgroung Processors' hyperlink from Site Options page. 'Save Scheduler' button from Background Processors page within Site Options. 'View audit log' link on ADMINISTRATION SECTION Access the Audit Log Report.
AdminWhiteboardReport, Delete Update AdminWhiteboardReport, Edit Update AdtOrderableItems, Index Read AdtOrderableItems, Delete Update AdtOrderableItems, Index Update AdtOrderableItems, Index Update BackgroundProcessors, Index Read BackgroundProcessors, Index Update AuditLogReport, Index Read rep, Audit Log Report BedBoard, ChangeFacility Read	 Delete Record' button on ADMINISTRATION SECTION Whiteboard Report Delete page (Background Processor Submenu) 'Save' button on ADMINISTRATION SECTION - Whiteboard Report Edit page (Background Processor Submenu) Site Options, ADT Orderable Items Add/Delete hyperlink 'Delete' hyperlink from the list of orderable items. 'Add' button from the Bed Board ADT Orderable Items Configuration. Operation Description 'Backgroung Processors' hyperlink from Site Options page. 'Save Scheduler' button from Background Processors page within Site Options. 'View audit log' link on ADMINISTRATION SECTION Access the Audit Log Report. Click on a facility link from the VISN Network Bed Boards list.
AdminWhiteboardReport, Delete Update AdminWhiteboardReport, Edit Update AdtOrderableItems, Index Read AdtOrderableItems, Delete Update AdtOrderableItems, Index Update AdtOrderableItems, Index Update BackgroundProcessors, Index Read BackgroundProcessors, Index Update AuditLogReport, Index Read rep, Audit Log Report BedBoard, ChangeFacility Read BedBoard, Index Read	 ¹Delete Record' button on ADMINISTRATION SECTION ¹Whiteboard Report Delete page (Background Processor Submenu) ¹Save' button on ADMINISTRATION SECTION - Whiteboard Report Edit page (Background Processor Submenu) ¹Site Options, ADT Orderable Items Add/Delete hyperlink ¹Delete' hyperlink from the list of orderable items. ¹Add' button from the Bed Board ADT Orderable Items Configuration. Operation Description ¹Backgroung Processors' hyperlink from Site Options page. ¹Save Scheduler' button from Background Processors page within Site Options. ¹View audit log' link on ADMINISTRATION SECTION Access the Audit Log Report. Click on a facility link from the VISN Network Bed Boards list. ¹Return to VISN Network' hyperlink from the home page.

BedBoard, ShowVISNBedSummaryReport Read	Click on a VISN Summary Report on VISN Network Bed Boards list
BedBoardModule, Index Read	Site Options, Bed Board Module Enable/Disable link.
BedBoardModule, Index Update	'Submit' button from the Bed Board Module Activation and Configuration page.
BedInformation, Index Read	Ward Occupancy, click on a hyperlink from the BED column.
BedInformation, ClearAll Read	Click on button 'Clear ALL Comments For ALL Wards Associate To This Bed'.
BedInformation, NotifyChange Read	'Submit' button from the Add/Edit Bed Unavailable Reason page.
BedInformation, Index Update	Click on buttons 'Submit' and/or 'Update Reason and Comments'.
ContingencySettings, Index Read	'Contingency Settings" link on Site Settings pages.
ContingencySettings, Index Update	'Save' button on Contingency Settings page on Site Settings pages.
DischargeClinic, Index Read	Site Options, 'Discharge Appt Clinics Add/Delete' hyperlink.
DischargeClinic, Delete Update	Site Options, 'Discharge Appt Clinics Add/Delete' hyperlink, 'Delete' button.
DischargeClinic, Index Update	Site Options, 'Discharge Appt Clinics Add/Delete' hyperlink, 'Add' button.
EmsBedStatusAdmin, EMS Supervisor Read/Update	'Assigned To' drop down on EMS Bed Edit page
EmsBedStatusAdmin, EMSBatchAssign Read	'Batch Assign' button on Ems Bed Status Admin page
EmsBedStatusAdmin, EMSBatchAssign Update	'Submit' button on EMS Bed Edit page on EMS Bed Status Admin page
EmsBedStatusAdmin, Edit Read	RoomBed column link click.
EmsBedStatusAdmin, Index Read	'Return to VISN Network' link from the home page, 'Return to Regional Page' link, 'Go To Facility Bed Cleaning Page (EMS Staff Only) button.
EmsBedStatusAdmin, SaveConfirmation Read	'Submit' button click in the Environmental Management Service Bed Status page.
EmsBedStatusAdmin, Edit Update	'Submit' button click in the Environmental Management Service Bed Status page.
EMSMobile, EMSList Read	Load Bed Clean Requests on EMS Mobile Pages
EMSMobile, Users Read	Click on a User button on EMS Mobile Pages
EMSMobile, EMSList Update	Click on a Bed Clean Request button on EMS Mobile Pages
EMSMobile, Users Update	Click on Submit button after entering a PIN on EMS Mobile Pages
- Operation Name	Operation Description
EmsNotification, AddEdit Read	'Edit' link from the Current Locations table (EMS Bed Notification).
EmsNotification, AddEditAction Read	'Submit' button from the EMS Bed Notification Edit page.
EmsNotification, Delete Read	'Delete' link from the Current Locations table (EMS Bed Notification).
EmsNotification, Index Read	Site Options, 'EMS Notification Add/Edit' link
	'Delete Record' button from the EMS Bed Status
EmsNotification, DeleteAction Update	Notification Delete page.
EmsNotification, DeleteAction Update EmsNotification, Index Update	Notification Delete page. 'Submit' button from the EMS Bed Notification Edit page or Notifications Add page.
EmsNotification, DeleteAction Update EmsNotification, Index Update EmsStaff, Delete Read	Notification Delete page. 'Submit' button from the EMS Bed Notification Edit page or Notifications Add page. 'Delete' link on EMS Staff page on Site Options pages

EmsStaff, Edit Read	'Edit' link on EMS Staff page on Site Options pages
EmsStaff, Index Read	EMS Staff link on Site Options page
EmsStaff, Delete Update	'Delete Record' button on Ems Staff Delete page on Site Options pages
EmsStaff, Edit Update	'Submit' button on Ems Staff Edit page on Site Options pages
EventNotification, AddConfirmation Read	'Submit' button from the Event Notification Add page.
EventNotification, AddEdit Read	'Add' button or 'Edit' link from the Event Notifications page.
EventNotification, EditConfirmation Read	'Submit' button from the Event Notifications Edit page.
EventNotification, Index Read	Site Options, 'Event Notification Add/Edit' hyperlink.
EventNotification, Index Update	'Submit' button from the Event Notification Add page.
Exception, Index Read	Appears when an exception occurs.
FacilityDiversion, Add Read	'Add' button from the Facility Diversion page.
FacilityDiversion, AddConfirmation Read	'Add' button from the Add New Diversion Status page.
FacilityDiversion, Edit Read	'Edit' link from the Facility Diversion page.
FacilityDiversion, EditConfirmation Read	'Save' button from the Diversion Status edit page.
FacilityDiversion, FilterDiversions Read	'Current Diversions' or 'All Diversions' button from the main Facility Diversions page.
FacilityDiversion, Index Read	'Facility Diversion' hyperlink from the home page.
FacilityDiversion, Index Update	'Add' button or 'Edit' link from the Facility Diversion page.
FacilitySettings, Index Read	Site Options, Facility Settings link
FacilitySettings, Index Update	Site Options, Facility Settings link, Submit button
Home, Index Read	Home page.
Home, Index2 Read	Current, Past 30-Days, Past 60-Days, Past 90-Days home page's buttons.
Home, PatientInquiry Read	Click on the patient link from the Patients Pending Placement list (Home page).
Home, RemoveAdmission Read	Remove link from the Patients Pending Placement list (Home page).
Home, UndoRemoveAdmission Read	Undo link from the Patients Pending Placement list (Home page).
Operation Name	Operation Description
Home, RemoveAdmissionPost Update	Remove link from the Patients Pending Placement list (Home page), Remove button from the confirmation page.
Home, UndoRemoveAdmissionPost Update	'Undo' button on Undo Remove Admission Page on Facility HomePage
IconLegend, Index Read	'Icon Legend' link from the bottom of the Home page or Site Options, BMS Icon Legend link.
IconLibrary, Edit Read	'Edit' Link on Site Options - Site Configurable Icons page.
IconLibrary, Index Read	Site Options, Site Configurable Icons link.
IconLibrary, ResetConfirmation Read	'Reset' button on Edit Site Configurable Icon page.
IconLibrary, Edit Update	'Save' button on Site Options - Site Configurable Icons page.

IconLibrary, Index Update	'Up/Down arrow' buttons on Site Options - Site Configurable Icons page.
IconLibrary, ResetConfirmation Update	'Reset' button on Reset Site Configurable Icon page.
Information, Index Read	'Information' link from the bottom of the Home page.
MaintainMarquee, Index Read	'Maintain Marquee Text' link from the Administration Section's menu.
MaintainMarquee, ChangeMarquee Update	Submit' button from the ADMINISTRATION SECTION - MAINTAIN MARQUEE TEXT page.
NationalAndRegional, Index Read	Home page, Return to VISN Network link, Return to Regional Page link.
NewEvents, Index Read	Home page, New Events link.
Numi, Add Read	'Add' button on ADMINISTRATION SECTION - Background Processors page (Background Processors Submenu).
Numi, Delete Read	'Delete' Link on ADMINISTRATION SECTION - Background Processors page (Background Processors Submenu).
Numi, Edit Read	'Edit' Link on ADMINISTRATION SECTION - Background Processors page (Background Processors Submenu).
Numi, Index Read	'Numi' tab on ADMINISTRATION SECTION - Background Processors page (Background Processors Submenu).
Numi, Delete Update	Delete Record button on ADMINISTRATION SECTION - Background Processors Delete page (Background Processors Submenu).
Numi, Edit Update	'Save' button on ADMINISTRATION SECTION - Background Processors Add/Edit page (Background Processors Submenu).
http://tempuri.org/IAdministrativeFunctions/GetDomain s	
http://tempuri.org/IAdministrativeFunctions/GetCurrent Domain	
http://tempuri.org/IAdministrativeFunctions/GetRoles	Functions used in the Administration Section, Add/Edit
http://tempuri.org/IAdministrativeFunctions/GetBulkPolicies	BMS User and Edit BMS Site submenus.
http://tempuri.org/IAdministrativeFunctions/GrantPermi ssion	
http://tempuri.org/IAdministrativeFunctions/RevokePer mission	
Operation Name	Operation Description
http://tempuri.org/IAdministrativeFunctions/GetRoleBy Name	
http://tempuri.org/IAdministrativeFunctions/GetPermiss ionsByResourceType	
http://tempuri.org/IAdministrativeFunctions/GetAllUser sAndDomain	
http://tempuri.org/IAdministrativeFunctions/GetAllUser Roles	
http://tempuri.org/IAdministrativeFunctions/AssignUser	
http://tempuri.org/IAdministrativeFunctions/DeassignUser	
http://tempuri.org/IAdministrativeFunctions/GetPolicy	
http://tempuri.org/IAdministrativeFunctions/ClearPermi ssionsForResource	
http://tempuri.org/IAdministrativeFunctions/GetTaskDe finition	
--	--
http://tempuri.org/IAdministrativeFunctions/GetTasks	
http://tempuri.org/IAdministrativeFunctions/GetUserBy Sid	
http://tempuri.org/IAdministrativeFunctions/GetUserBy UserName	
http://tempuri.org/IAdministrativeFunctions/GetUserDef inedRoles	
http://tempuri.org/IAdministrativeFunctions/GetUserGr oupId	
http://tempuri.org/IAdministrativeFunctions/GetUserRol es	
http://tempuri.org/IAdministrativeFunctions/InsertPermi ssionForResourceAndOperation	
http://tempuri.org/IAdministrativeFunctions/InsertPermi ssionsForResourcesAndOperations	
http://tempuri.org/IAdministrativeFunctions/InsertReso urce	
http://tempuri.org/IAdministrativeFunctions/IsChild	
http://tempuri.org/IAdministrativeFunctions/RefreshCac he	
http://tempuri.org/IAdministrativeFunctions/SearchUser s	
http://tempuri.org/IAdministrativeFunctions/SetCurrent Domain	
http://tempuri.org/IAdministrativeFunctions/Syncronize AllSubscribers	
h the slife mention is a new (1.0) show is is the stick of France stick of a (1.1) show a stick of a start of the start of	
nttp://tempuri.org/IAdministrativeFunctions/OpdateOpe ration	
nttp://tempuri.org/IAdministrativeFunctions/UpdateOpe ration http://tempuri.org/IAdministrativeFunctions/UpdateRole	
http://tempuri.org/IAdministrativeFunctions/UpdateOpe ration http://tempuri.org/IAdministrativeFunctions/UpdateRole http://tempuri.org/IAdministrativeFunctions/UpdateTas k	
http://tempuri.org/IAdministrativeFunctions/UpdateOpe ration http://tempuri.org/IAdministrativeFunctions/UpdateRole http://tempuri.org/IAdministrativeFunctions/UpdateTas k Patient, Admission Read	'Edit' link from the Home page, Patients Pending Placement list.
http://tempuri.org/IAdministrativeFunctions/UpdateOpe ration http://tempuri.org/IAdministrativeFunctions/UpdateRole http://tempuri.org/IAdministrativeFunctions/UpdateTas k Patient, Admission Read Patient, Select Read	'Edit' link from the Home page, Patients Pending Placement list. 'Add New Patient' link from the Home page, Patients Pending Placement section.
nttp://tempuri.org/IAdministrativeFunctions/UpdateOpe ration http://tempuri.org/IAdministrativeFunctions/UpdateRole http://tempuri.org/IAdministrativeFunctions/UpdateTas k Patient, Admission Read Patient, Select Read Patient, Admission Update	'Edit' link from the Home page, Patients Pending Placement list. 'Add New Patient' link from the Home page, Patients Pending Placement section. 'Submit' button from ADD/EDIT Patients Pending Placement page.
http://tempuri.org/IAdministrativeFunctions/UpdateOpe ration http://tempuri.org/IAdministrativeFunctions/UpdateRole http://tempuri.org/IAdministrativeFunctions/UpdateTas k Patient, Admission Read Patient, Select Read Patient, Admission Update Operation Name	 'Edit' link from the Home page, Patients Pending Placement list. 'Add New Patient' link from the Home page, Patients Pending Placement section. 'Submit' button from ADD/EDIT Patients Pending Placement page.
http://tempuri.org/IAdministrativeFunctions/UpdateOpe http://tempuri.org/IAdministrativeFunctions/UpdateRole http://tempuri.org/IAdministrativeFunctions/UpdateRole http://tempuri.org/IAdministrativeFunctions/UpdateTas k Patient, Admission Read Patient, Select Read Patient, Admission Update Operation Name rep, Active Admission Orders Report	 'Edit' link from the Home page, Patients Pending Placement list. 'Add New Patient' link from the Home page, Patients Pending Placement section. 'Submit' button from ADD/EDIT Patients Pending Placement page. Operation Description Access the Active Admission Orders Report.
http://tempuri.org/IAdministrativeFunctions/UpdateOpe http://tempuri.org/IAdministrativeFunctions/UpdateRole http://tempuri.org/IAdministrativeFunctions/UpdateRole http://tempuri.org/IAdministrativeFunctions/UpdateRole Patient, Admission Read Patient, Select Read Patient, Admission Update Operation Name rep, Active Admission Orders Report rep, Active Discharge Orders Report	 'Edit' link from the Home page, Patients Pending Placement list. 'Add New Patient' link from the Home page, Patients Pending Placement section. 'Submit' button from ADD/EDIT Patients Pending Placement page. Operation Description Access the Active Admission Orders Report. Access the Active Discharge Orders Report.
http://tempuri.org/IAdministrativeFunctions/UpdateOpe http://tempuri.org/IAdministrativeFunctions/UpdateRole http://tempuri.org/IAdministrativeFunctions/UpdateRole http://tempuri.org/IAdministrativeFunctions/UpdateRole http://tempuri.org/IAdministrativeFunctions/UpdateRole Patient, Admission Read Patient, Select Read Patient, Admission Update Operation Name rep, Active Admission Orders Report rep, Active Discharge Orders Report rep, Active Transfer Orders Report	 'Edit' link from the Home page, Patients Pending Placement list. 'Add New Patient' link from the Home page, Patients Pending Placement section. 'Submit' button from ADD/EDIT Patients Pending Placement page. Operation Description Access the Active Admission Orders Report. Access the Active Discharge Orders Report. Access the Active Transfer Orders Report.
http://tempuri.org/IAdministrativeFunctions/UpdateOpe http://tempuri.org/IAdministrativeFunctions/UpdateRole http://tempuri.org/IAdministrativeFunctions/UpdateTas k Patient, Admission Read Patient, Select Read Patient, Admission Update coperation Name rep, Active Admission Orders Report rep, Active Discharge Orders Report rep, Active Transfer Orders Report rep, Antic Discharge Orders Report	 'Edit' link from the Home page, Patients Pending Placement list. 'Add New Patient' link from the Home page, Patients Pending Placement section. 'Submit' button from ADD/EDIT Patients Pending Placement page. Operation Description Access the Active Admission Orders Report. Access the Active Discharge Orders Report. Access the Active Transfer Orders Report. Access the Antic Discharge Orders Report.
http://tempuri.org/IAdministrativeFunctions/UpdateOpe http://tempuri.org/IAdministrativeFunctions/UpdateRole http://tempuri.org/IAdministrativeFunctions/UpdateTas k Patient, Admission Read Patient, Select Read Patient, Admission Update coperation Name rep, Active Admission Orders Report rep, Active Discharge Orders Report rep, Active Transfer Orders Report rep, Antic Discharge Orders Report rep, BED AVAILABILITY STATUS REPORT	 'Edit' link from the Home page, Patients Pending Placement list. 'Add New Patient' link from the Home page, Patients Pending Placement section. 'Submit' button from ADD/EDIT Patients Pending Placement page. Operation Description Access the Active Admission Orders Report. Access the Active Discharge Orders Report. Access the Active Transfer Orders Report. Access the Antic Discharge Orders Report. Access the BED AVAILABILITY STATUS REPORT.
http://tempuri.org/IAdministrativeFunctions/UpdateOpe http://tempuri.org/IAdministrativeFunctions/UpdateRole http://tempuri.org/IAdministrativeFunctions/UpdateTas k Patient, Admission Read Patient, Select Read Patient, Admission Update rep, Active Admission Orders Report rep, Active Discharge Orders Report rep, Active Transfer Orders Report rep, Antic Discharge Orders Report rep, BED AVAILABILITY STATUS REPORT rep, Bed Specialty Report	 'Edit' link from the Home page, Patients Pending Placement list. 'Add New Patient' link from the Home page, Patients Pending Placement section. 'Submit' button from ADD/EDIT Patients Pending Placement page. Operation Description Access the Active Admission Orders Report. Access the Active Discharge Orders Report. Access the Active Transfer Orders Report. Access the Antic Discharge Orders Report. Access the BED AVAILABILITY STATUS REPORT. Access the Bed Specialty Report.
http://tempuri.org/IAdministrativeFunctions/UpdateOpe http://tempuri.org/IAdministrativeFunctions/UpdateRole http://tempuri.org/IAdministrativeFunctions/UpdateTas k Patient, Admission Read Patient, Select Read Patient, Admission Update Operation Name rep, Active Admission Orders Report rep, Active Discharge Orders Report rep, Active Transfer Orders Report rep, BED AVAILABILITY STATUS REPORT rep, Bed Specialty Report rep, Bed Specialty Roster	 'Edit' link from the Home page, Patients Pending Placement list. 'Add New Patient' link from the Home page, Patients Pending Placement section. 'Submit' button from ADD/EDIT Patients Pending Placement page. Operation Description Access the Active Admission Orders Report. Access the Active Discharge Orders Report. Access the Active Transfer Orders Report. Access the Antic Discharge Orders Report. Access the BED AVAILABILITY STATUS REPORT. Access the Bed Specialty Report. Access the Bed Specialty Roster.
http://tempuri.org/IAdministrativeFunctions/UpdateOpe http://tempuri.org/IAdministrativeFunctions/UpdateRole http://tempuri.org/IAdministrativeFunctions/UpdateTas k Patient, Admission Read Patient, Select Read Patient, Admission Update rep, Active Admission Orders Report rep, Active Discharge Orders Report rep, Active Transfer Orders Report rep, Antic Discharge Orders Report rep, BED AVAILABILITY STATUS REPORT rep, Bed Specialty Report rep, Bed Summary Report	 'Edit' link from the Home page, Patients Pending Placement list. 'Add New Patient' link from the Home page, Patients Pending Placement section. 'Submit' button from ADD/EDIT Patients Pending Placement page. Operation Description Access the Active Admission Orders Report. Access the Active Discharge Orders Report. Access the Active Transfer Orders Report. Access the Antic Discharge Orders Report. Access the BED AVAILABILITY STATUS REPORT. Access the Bed Specialty Report. Access the Bed Specialty Roster. Access the Bed Summary Report.

rep, Beds Out of Service Report (All)	Access the Beds Out of Service Report (All).
rep, Beds Out of Service Report (By Date)	Access the Beds Out of Service Report (By Date).
rep, Discharges In Progress	Access the Discharges In Progress.
rep, Emergency Management Evacuation Report	Access Emergency Management Evacuation Report
rep, Icon Usage Report	Access the Icon Usage Report
rep, Patient Inquiry	Access the Patient Inquiry report.
rep, Patient Movement Report	Access the Patient Movement Report.
rep, Patient Movements by Date	Access the Patient Movements by Date.
rep, Patients w Discharge Appointments	Access the Patients w Discharge Appointments.
rep, Scheduled Admissions by Date	Access the Scheduled Admissions by Date.
rep, Scheduled Admissions Report	Access the Scheduled Admissions Report.
rep, VISN Bed Summary Report	Access VISN Bed Summary Report
rep, VISN Network Active Report	Access the VISN Network Active Report.
rep, VISN Network Audit Report	Access the VISN Network Audit Report.
rep, VISN Network Contract Report	Access the VISN Network Contract Report.
rep, VISN Network Disposition Report	Access the VISN Network Disposition Report.
rep, Wait List Status Report	Access the Patients Pending Placement Status Report.
Reports, Index Read	'Submit' buttons from the Home page corresponding to the reports.
SiteOptions, Index Read	Home page, Site Options link.
SiteOptions, EvacuationConfirmation Read	Access to Evacuation Confirmation page.
SiteOptions, Index Update	'Submit' button from Site Options page.
SiteOptions, EvacuationConfirmation Update	'Save' button from Evacuation Confirmation page.
Transfer, AddTransfer Read	VISN page, Add New Patient button, Submit button from
	the Select Patient page.
Transfer, EditTransfer Read	the Select Patient page. 'Edit' link from the VISN page, Patients in Community
Transfer, EditTransfer Read Operation Name	the Select Patient page. 'Edit' link from the VISN page, Patients in Community Operation Description
Transfer, EditTransfer Read Operation Name	the Select Patient page. 'Edit' link from the VISN page, Patients in Community Operation Description Hospitals list.
Transfer, EditTransfer Read Operation Name Transfer, FinalizeTransfer Read	the Select Patient page. 'Edit' link from the VISN page, Patients in Community Operation Description Hospitals list. 'Finalize' link from the VISN page, Patients in Community Hospitals list.
Transfer, EditTransfer Read Operation Name Transfer, FinalizeTransfer Read Transfer, Index Read	the Select Patient page. 'Edit' link from the VISN page, Patients in Community Operation Description Hospitals list. 'Finalize' link from the VISN page, Patients in Community Hospitals list. VISN page, Add New Patient button.
Transfer, EditTransfer Read Operation Name Transfer, FinalizeTransfer Read Transfer, Index Read Transfer, AddTransfer Update	the Select Patient page. 'Edit' link from the VISN page, Patients in Community Operation Description Hospitals list. 'Finalize' link from the VISN page, Patients in Community Hospitals list. VISN page, Add New Patient button. VISN page, Add New Patient button, Submit button from the Select Patient page, and Submit button from the Enter Patient Data page.
Transfer, EditTransfer Read Operation Name Transfer, FinalizeTransfer Read Transfer, Index Read Transfer, AddTransfer Update Transfer, EditTransfer Update	the Select Patient page. 'Edit' link from the VISN page, Patients in Community Operation Description Hospitals list. 'Finalize' link from the VISN page, Patients in Community Hospitals list. VISN page, Add New Patient button. VISN page, Add New Patient button, Submit button from the Select Patient page, and Submit button from the Enter Patient Data page. 'Edit' link from the VISN page's Patients in Community Hospitals list and then Submit button.
Transfer, EditTransfer Read Operation Name Transfer, FinalizeTransfer Read Transfer, Index Read Transfer, AddTransfer Update Transfer, EditTransfer Update Transfer, FinalizeTransfer Update	the Select Patient page. 'Edit' link from the VISN page, Patients in Community Operation Description Hospitals list. 'Finalize' link from the VISN page, Patients in Community Hospitals list. VISN page, Add New Patient button. VISN page, Add New Patient button, Submit button from the Select Patient page, and Submit button from the Enter Patient Data page. 'Edit' link from the VISN page's Patients in Community Hospitals list and then Submit button. 'Finalize' link from the VISN page's Patients in Community Hospitals list and then Submit button from the Finalize Patient Data page.

UnavailableReason, Edit Read	'Edit' link from the Bed Board Site Unavailable Reason page's list.
UnavailableReason, Index Read	Site Options, Unavailable Reason Add/Edit link.
UnavailableReason, Delete Update	'Delete' link from the Bed Board Site Unavailable Reason page's list and then 'Delete Record' button.
UnavailableReason, Edit Update	'Edit' link from the Bed Board Site Unavailable Reason page's list and then Submit button.
UnavailableReason, Index Update	'Add' button from the Bed Board Site Unavailable Reason page.
UserConfiguration, Index Read	Site Options, Add/Edit BMS User link.
UserConfiguration, SearchUser Read	'Find and Save' buttons from the 'Select user' page ('Select Existing NT User Name' button from the Site Options, 'Add/Edit BMS User' link).
UserConfiguration, SelectUser Read	'Select Existing NT User Name' button from the Site Options - Add/Edit BMS User page.
UserConfiguration, Index Update	'Submit' button from the Site Options - Add/Edit BMS User page.
VistaIntegration, Audit Read	'Audit' tab on ADMINISTRATION SECTION - Background Processors page (Background Processors Submenu) and 'Filter By' button from the 'Audit' tab.
VistaIntegration, Categories Read	'VistA Integration' tab on ADMINISTRATION SECTION - Background Processors page (Background Processors Submenu).
VistaIntegration, DeleteScheduler Read	'Add new scheduler' link and select a scheduled name from the 'Scheduled' tab.
VistaIntegration, Index Read	'Background Processors' link on ADMINISTRATION SECTION.
VistaIntegration, Schedulers Read	'Schedulers' tab on ADMINISTRATION SECTION - Background Processors page (Background Processors Submenu).
VistaIntegration, TestMDWSConnection Read	'TestMDWSConnection' button from the 'VistA Sites' tab.
VistaIntegration, TestODBCConnection Read	'TestODBCConnection' button from the 'VistA Sites' tab.
VistaIntegration, VistASites Read	VistA Sites' tab on ADMINISTRATION SECTION - Background Processors page (Background Processors Submenu).
VistaIntegration, Categories Update	'Save and Run' buttons from the 'VistA Integration' tab.
VistaIntegration, DeleteScheduler Update	'Delete' link from the 'Scheduled' tab and then 'Delete Record' button.
Operation Name	Operation Description
VistaIntegration, Schedulers Update	'Save' button from the 'Scheduled' tab.
VistaIntegration, VistASites Update	'Save' button from the 'VistA Sites' tab.
WaitingArea, Delete Read	'Delete' link from the Patient Waiting Areas page's list of Current Waiting Areas.
WaitingArea, Edit Read	'Edit' link from the Patient Waiting Areas page's list of Current Waiting Areas.
WaitingArea, Index Read	Site Options, Waiting Area Add/Delete link.
WaitingArea, DeleteAction Update	'Delete' link from the Patient Waiting Areas page's list of Current Waiting Areas and then 'Delete Record button.
WaitingArea, Edit Update	'Edit' link from the Patient Waiting Areas page's list of Current Waiting Areas and then Submit button.
WaitingArea, Index Update	'Add' button from the Patient Waiting Areas page.
WardConfiguration, Delete Read	'Delete' link from the Bed Board Ward Configuration, Current Vista Wards list.

WardConfiguration, Index Read	Site Options, Vista Ward Add/Edit link.
WardConfiguration, Index Update	Site Options, Vista Ward Add/Edit link, Save button.
WardConfiguration, DeleteWard Update	Site Options, Vista Ward Add/Edit link, Delete operation.
WardOccupancy, Index Read	'Submit' button from the Home page corresponding to the Ward Occupancy.
WardWhiteboard, Edit Read	Click on a link from the BED column from WARD Whiteboard Report.
WardWhiteboard, EditPT Read	Click on a link from the PT column from the WARD Whiteboard Report.
WardWhiteboard, Index Read	Home page, 'Ward Whiteboard' link.
WardWhiteboard, NotifyChange Read	Click on a link from the BED column from WARD Whiteboard Report and then on the Submit button.
WhiteboardStaff, Index Read	Click on the checkbox from the STAFF column from the WARD Whiteboard Home.
WardWhiteboard, ShowReport Read	'Export Report' link from the right of the WARD Whiteboard Home page or WARD Whiteboard Report page, Export Report.
WardWhiteboard, Submit Read	'Submit' button from the WARD Whiteboard Home page.
WardWhiteBoard, WardWhiteBoard Read	Home page, 'Ward Whiteboard' link, Submit button from the WARD Whiteboard Home.
WardWhiteboard, ClearAll Read	Click on a link from the BED column from WARD Whiteboard Report and then click on the button 'Clear ALL Comments For ALL Wards Associate To This Bed'.
WardWhiteBoard, WardWhiteBoard Update	Click on a staff name from the STAFF column from the WARD WhiteBoard Report and then click on the image 'Save Staff'.
WhiteboardStaff, Index Update	Click on the checkbox from the STAFF column from WARD Whiteboard Report and then on the 'Save' button.
WardWhiteboard, Edit Update	Click on a link from the BED column from WARD Whiteboard Report and then on the Submit button.

7.3 Task Definitions

To view the definition of a task, select Task definitions from the left-hand panel of the main Policy Manager window and in the list in the right-hand area, double-click the task to display the following dialog window.

sk Denni	tion Properties	
General	Definition	
	Name:	
\checkmark	Account, Read	
	Description:	
	Applies to the resource types:	
	HL7-RIM-V3-DOMAIN HL7-RIM-V3-Person	
	HL7-RIM-V3-Place	
	< []	۲
	OK Cancel	Apply

Figure 79-Task Definition

To determine what resource type the task refers to, select one or more of the elements in the "Applies to resource types" area.

To view the operations that need to be performed in order to complete the task, select the Definition tab to display it as in the following image:

eneral Definition		
he operations that define this task:		
Name	Туре	Description
BedBoard, ChangeFacility Read	Operation Operation	BedBoardC BedBoardC

Figure 80-Operations Defining a Task

Use the Add and Remove buttons to add or remove operations from the list.

A list with all the tasks, along with corresponding operations of the BMS application, is presented below:

Table 28- BMS Tasks

Task Name	Task Description	Operation Name
		Admin, AddEditUser Read
		Admin, FacilityEdit Read
		Admin, Index Read
		Admin, SelectUser Read
Admin Road	Admin Read permission, user has the right only to view	Admin, SisterSiteAddEdit Read
Aumin, Reau	data.	Admin, AddUserOperations Read
		Admin, RemoveUsers Read
		Admin, SearchUser Read
		Admin, SearchUsers Read
		Admin, ClearCache Read
		Admin, AddEditUser Update
		Admin, FacilityEdit Update

Admin, Update	Admin Update permission, user has the right to modify data.	Admin, SisterSiteAddEdit Update
		Admin, AddUserOperations
		Admin, RemoveUserOperations
AdminComments, AdminCo		AdminComments, Delete Read
	AdminComments Read permission, user has the right	AdminComments, Edit Read
Read		AdminComments, Index Read
AdminComments, Update	AdminComments Update permission, user has the right to modify data.	AdminComments, Index Update
AdminIcon, Read	AdminIcon Read permission, user has the right only to view data.	Adminicon, Delete Read
		AdminIcon, Edit Read
		AdminIcon, Index Read
		AdminIcon, Search Read
		AdminIcon, ViewIconReport Read
AdminIcon, Update	AdminIcon Update permission, user has the right to modify	AdminIcon, Delete Update
	data.	AdminIcon, Edit Update

Task Name	Task Description	Operation Name
		AdminIcon, Index Update
AdminSpecialtyAssociation AdminSpecialtyAssociat	AdminSpecialtyAssociation Read permission,	AdminSpecialtyAssociation,
Read	user has the right only to view data.	AdminSpecialtyAssociation,
	AdminSpecialtyAssociation Update permission,	AdminSpecialtyAssociation,
Update	user has the right to modify data.	AdminSpecialtyAssociation,
		AdminUnavailableReason,
AdminUnavailableReason,	AdminUnavailableReason Read permission, user has the right only to view data.	AdminUnavailableReason, Edit
Read		AdminUnavailableReason, Index
		AdminUnavailableReason,
AdminUnavailableReason,	AdminUnavailableReason Update permission, user has the right to modify data.	AdminUnavailableReason, Edit
Update		AdminUnavailableReason, Index
		AdminWaitingArea, Delete Read
AdminWaitingArea, Read	AdminWaitingArea Read permission, user has the right only to view data	AdminWaitingArea, Edit Read
		AdminWaitingArea, Index Read
		AdminWaitingArea, DeleteAction
AdminWaitingArea, Update	AdminWaitingArea Update permission, user has the right to modify data.	AdminWaitingArea, Edit Update
		AdminWaitingArea, Index Update
		AdminWhiteboardReport, Delete
AdminWhiteboardReport,	AdminWhiteboardReport Read permission, user has the right only to view data	AdminWhiteboardReport, Edit
Read		AdminWhiteboardReport, Index
Admin \A/bitabaardDanart	AdminWhiteboardReport Update permission,	AdminWhiteboardReport, Delete
Update	user has the right to modify data.	AdminWhiteboardReport, Edit
AdtOrderableItems, Read	AdtOrderableItems Read permission, user has the right only to view data.	AdtOrderableItems, Index Read
AdtOrdoroblatama Undata	AdtOrderableItems Update permission, user	AdtOrderableItems, Delete
Adiorderableiterns, Opdate	has the right to modify data.	AdtOrderableItems, Index Update

BackgroundProcessors, Read	BackgroundProcessors Read permission, user has the right only to view data.	BackgroundProcessors, Index
BackgroundProcessors,	BackgroundProcessors Update permission, user has the right to modify data.	BackgroundProcessors, Index
AuditLogReport, Read	AuditLogReport Read permission, user has the	AuditLogReport, Index Read

Task Name	Task Description	Operation Name
	only to view data.	rep, Audit Log Report
BedBoard, Read	BedBoard Read permission, user has the right only to view data.	BedBoard, ChangeFacility Read
		BedBoard, Index Read
		BedBoard,
		BedBoard,
BedBoardModule, Read	BedBoardModule Read permission, user has the right only to view data.	BedBoardModule, Index Read
BedBoardModule, Update	BedBoardModule Update permission, user has the right to modify data.	BedBoardModule, Index Update
	Deductions Decide ampleation was here the	BedInformation, Index Read
BedInformation, Read	Bedinformation Read permission, user has the right only to view data.	BedInformation, ClearAll Read
		BedInformation, NotifyChange Read
BedInformation, Update	BedInformation Update permission, user has the right to modify data.	BedInformation, Index Update
ContingencySettings, Read	ContingencySettings Read permission, user has the right only to view data.	ContingencySettings, Index Read
ContingencySettings, Update	ContingencySettings Update permission, user has the right to modify data.	ContingencySettings, Index Update
DischargeClinic, Read	DischargeClinic Read permission, user has the right only to view data.	DischargeClinic, Index Read
Diaskanna Oliaia, Undata	DischargeClinic Update permission, user has the	DischargeClinic, Delete Update
DischargeClinic, Opdate	right to modify data.	DischargeClinic, Index Update
	EmsBedStatusAdmin EMS Supervisor permission.	EmsBedStatusAdmin, EMS
EmsBedStatusAdmin,	user has the right to re-assign the bed cleaning to another person and to batch assign the cleaning to a person	EmsBedStatusAdmin,
EMS Supervisor		EmsBedStatusAdmin,
		EmsBedStatusAdmin, Edit Read
EmsBedStatusAdmin,	EmsBedStatusAdmin Read permission, user has the right only to view data.	EmsBedStatusAdmin, Index Read
Read		EmsBedStatusAdmin,
EmsBedStatusAdmin, Update	EmsBedStatusAdmin Update permission, user has the right to modify data.	EmsBedStatusAdmin, Edit Update
EMSMobile, Read	EMSMobile Read permission, user has the right only	EMSMobile, EMSList Read

Task Name	Task Description	Operation Name
	view data.	EMSMobile, Users Read
EMSMobile Undete	EMSMobile Update permission, user has the right to	EMSMobile, EMSList Update
ENISMODILE, Opdate	modify data.	EMSMobile, Users Update
		EmsNotification, AddEdit Read
Emplotification Dood	EmsNotification Read permission, user has the right only to view data.	EmsNotification, AddEditAction
Emsivouncation, Reau		EmsNotification, Delete Read

		EmsNotification, Index Read
EmcNotification	EmsNotification Update permission, user has the right to	EmsNotification, DeleteAction
Update	modify data.	EmsNotification, Index Update
		EmsStaff, Delete Read
EmsStaff, Read	EmsStaff Read permission, user has the right only to view data	EmsStaff, Edit Read
		EmsStaff, Index Read
EmeStoff Undate	EmsStaff Update permission, user has the right to modify	EmsStaff, Delete Update
Emsolan, Opuale	data.	EmsStaff, Edit Update
		EventNotification,
EventNetification	EventNotification Read permission, user has the right only	EventNotification, AddEdit Read
Read	to view data.	EventNotification,
		EventNotification, Index Read
EventNotification, Update	EventNotification Update permission, user has the right to modify data.	EventNotification, Index Update
Exception, Read	Exception Read permission, user has the right only to view data.	Exception, Index Read
		FacilityDiversion, Add Read
		FacilityDiversion,
FacilityDiversion Read	FacilityDiversion Read permission, user has the right only to view data.	FacilityDiversion, Edit Read
		FacilityDiversion, EditConfirmation
		FacilityDiversion, FilterDiversions
		FacilityDiversion, Index Read
FacilityDiversion, Update	FacilityDiversion Update permission, user has the right to modify data.	FacilityDiversion, Index Update

Task Name	Task Description	Operation Name
FacilitySettings, Read	FacilitySettings Read permission, user has the right only to view data.	FacilitySettings, Index Read
FacilitySettings, Update	FacilitySettings Update permission, user has the right to modify data.	FacilitySettings, Index Update
		Home, Index Read
		Home, Index2 Read
Home, Read	Home Read permission, user has the right only to view data	Home, PatientInquiry Read
		Home, RemoveAdmission Read
		Home, UndoRemoveAdmission
Homo Undato	Home Update permission, user has the right to modify	Home, RemoveAdmissionPost
nome, opuale	data.	Home, UndoRemoveAdmissionPost
IconLegend, Read	IconLegend Read permission, user has the right only to view data.	IconLegend, Index Read
		IconLibrary, Edit Read
IconLibrary, Read	IconLibrary Read permission, user has the right only	IconLibrary, Index Read
		IconLibrary, ResetConfirmation
		IconLibrary, Edit Update
IconLibrary, Update	IconLibrary Update permission, user has the right	IconLibrary, Index Update

	to modify data.	IconLibrary, ResetConfirmation
Information, Read	Information Read permission, user has the right only to view data.	Information, Index Read
MaintainMarquee, Read	MaintainMarquee Read permission, user has the right only to view data.	MaintainMarquee, Index Read
MaintainMarquee, Update	MaintainMarquee Update permission, user has the right to modify data.	MaintainMarquee, ChangeMarquee Update
NationalAndRegional, Read	NationalAndRegional Read permission, user has the right only to view data.	NationalAndRegional, Index Read
NewEvents, Read	NewEvents Read permission, user has the right only to view data.	NewEvents, Index Read
Numi, Read	NUMI Read permission, user has the right only to view data.	Numi, Add Read
		Numi, Delete Read

Task Name	Task Description	Operation Name
		Numi, Edit Read
		Numi, Index Read
Numi	NUMI Update permission, user has	Numi, Delete Update
Update	the right to modify data.	Numi, Edit Update
		http://tempuri.org/IAdministrativeFunctions/GetDomains
		http://tempuri.org/IAdministrativeFunctions/GetCurrentDomain
		http://tempuri.org/IAdministrativeFunctions/GetRoles
		http://tempuri.org/IAdministrativeFunctions/GetBulkPolicies
	PAP permission, the right to access methods exposed by PAP service.	http://tempuri.org/IAdministrativeFunctions/GrantPermission
		http://tempuri.org/IAdministrativeFunctions/RevokePermission
		http://tempuri.org/IAdministrativeFunctions/GetRoleByName
		http://tempuri.org/IAdministrativeFunctions/GetPermissionsByRes ourceType
		http://tempuri.org/IAdministrativeFunctions/GetAllUsers AndDomain
PAP,		http://tempuri.org/IAdministrativeFunctions/GetAllUserRoles
User		http://tempuri.org/IAdministrativeFunctions/AssignUser
		http://tempuri.org/IAdministrativeFunctions/DeassignUser
		http://tempuri.org/IAdministrativeFunctions/GetPolicy
		http://tempuri.org/IAdministrativeFunctions/ClearPermis sionsForResource
		http://tempuri.org/IAdministrativeFunctions/AddActionEntityType
		http://tempuri.org/IAdministrativeFunctions/AddOperation
		http://tempuri.org/IAdministrativeFunctions/AddRole
		http://tempuri.org/IAdministrativeFunctions/AddTask
		http://tempuri.org/IAdministrativeFunctions/AssignOperations

1	http://tempuri.org/IAdministrativeFunctions/AssignRole
	http://tempuri.org/IAdministrativeFunctions/ChangeUser

Task Name	Task Description	Operation Name
		Password
		http://tempuri.org/IAdministrativeFunctions/DeassignOperations
		http://tempuri.org/IAdministrativeFunctions/DeassignRole
		http://tempuri.org/IAdministrativeFunctions/DeleteAction EntityType
		http://tempuri.org/IAdministrativeFunctions/DeleteOperation
		http://tempuri.org/IAdministrativeFunctions/DeletePermissionForResourceAndOperation
		http://tempuri.org/IAdministrativeFunctions/DeletePermissionsForResourcesAndOperations
		http://tempuri.org/IAdministrativeFunctions/DeleteRole
		http://tempuri.org/IAdministrativeFunctions/DeleteTask
		http://tempuri.org/IAdministrativeFunctions/GetActionEntityTypes
		http://tempuri.org/IAdministrativeFunctions/GetAvailable Domains
		http://tempuri.org/IAdministrativeFunctions/GetCallerIsSuperUser
		http://tempuri.org/IAdministrativeFunctions/GetConnectedRolesAndOperations
		http://tempuri.org/IAdministrativeFunctions/GetEntityTypes
		http://tempuri.org/IAdministrativeFunctions/GetOperationByName
		http://tempuri.org/IAdministrativeFunctions/GetOperatio nByNameExcludingId
		http://tempuri.org/IAdministrativeFunctions/GetOperations
		http://tempuri.org/IAdministrativeFunctions/GetRoleByNameExcludingId
		http://tempuri.org/IAdministrativeFunctions/GetRoleDefinition
		http://tempuri.org/IAdministrativeFunctions/GetRolesDefinitionIntersect
		http://tempuri.org/IAdministrativeFunctions/GetRoleUsers
		http://tempuri.org/IAdministrativeFunctions/GetSubscriptions

Task Name	Task Description	Operation Name
		http://tempuri.org/IAdministrativeFunctions/GetTaskByName
		http://tempuri.org/IAdministrativeFunctions/GetTaskByNameExcludin gld
		http://tempuri.org/IAdministrativeFunctions/GetTaskDefinition
		http://tempuri.org/IAdministrativeFunctions/GetTasks
		http://tempuri.org/IAdministrativeFunctions/GetUserBySid

		http://tempuri.org/IAdministrativeFunctions/GetUserByUserName
		http://tempuri.org/IAdministrativeFunctions/GetUserDefinedRoles
		http://tempuri.org/IAdministrativeFunctions/GetUserGroupId
		http://tempuri.org/IAdministrativeFunctions/GetUserRoles
		http://tempuri.org/IAdministrativeFunctions/InsertPermissionForResourceAndOperation
		http://tempuri.org/IAdministrativeFunctions/InsertPermissionsForResourcesAndOperations
		http://tempuri.org/IAdministrativeFunctions/InsertResource
		http://tempuri.org/IAdministrativeFunctions/IsChild
		http://tempuri.org/IAdministrativeFunctions/RefreshCache
		http://tempuri.org/IAdministrativeFunctions/SearchUsers
		http://tempuri.org/IAdministrativeFunctions/SetCurrentDomain
		http://tempuri.org/IAdministrativeFunctions/SyncronizeAllSubscribers
		http://tempuri.org/IAdministrativeFunctions/UpdateOperation
		http://tempuri.org/IAdministrativeFunctions/UpdateRole
		http://tempuri.org/IAdministrativeFunctions/UpdateTask
Patient Read	Patient Read permission, user	Patient, Admission Read
r alloni, rioua	has the right only to view data.	Patient, Select Read
Patient, Update	Patient Update permission, user has the right to modify data.	Patient, Admission Update
Reporting Services, Fetch	Reporting Services Fetch permission, the right to bring	rep, Active Admission Orders Report

Task Name	Task Description	Operation Name
	the list of reports from Reporting Services.	rep, Active Discharge Orders Report
		rep, Active Transfer Orders Report
		rep, Antic Discharge Orders Report
		rep, BED AVAILABILITY STATUS REPORT
		rep, Bed Specialty Report
		rep, Bed Specialty Roster
		rep, Bed Summary Report
		rep, Bed Turnaround Time Report
		rep, Beds Out of Service Report (All)
		rep, Beds Out of Service Report (By Date)
		rep, Discharges In Progress
		rep, Emergency Management Evacuation
		rep, Icon Usage Report
		rep, Patient Inquiry
		rep, Patient Movement Report
		rep, Patient Movements by Date

		rep, Patients w Discharge Appointments
		rep, Scheduled Admissions by Date
		rep, Scheduled Admissions Report
		rep, VISN Bed Summary Report
		rep, VISN Network Active Report
		rep, VISN Network Audit Report
		rep, VISN Network Contract Report
		rep, VISN Network Disposition Report
		rep, Wait List Status Report
Reports, Read	Reports permission, user has the right only to view data.	Reports, Index Read
SiteOptions Road	SiteOptions permission, user has the right only to	SiteOptions, Index Read
SileOptions, Reau	view data.	SiteOptions, EvacuationConfirmation Read
SiteOptions,	SiteOptions Update permission, user has the right	SiteOptions, Index Update

Task Name	Task Description	Operation Name
	modify data.	SiteOptions, EvacuationConfirmation
		Transfer, AddTransfer Read
Transfor Bood	Transfer permission, user has the right only to view	Transfer, EditTransfer Read
Transier, Reau	data.	Transfer, FinalizeTransfer Read
		Transfer, Index Read
		Transfer, AddTransfer Update
Transfer, Update	Transfer Update permission, user has the right to modify data	Transfer, EditTransfer Update
		Transfer, FinalizeTransfer Update
		UnavailableReason, Delete Read
UnavailableReason,	UnavailableReason Read permission, user has the	UnavailableReason, Edit Read
Read		UnavailableReason, Index Read
		UnavailableReason, Delete Update
UnavailableReason,	UnavailableReason Update permission, user has the light to modify data	UnavailableReason, Edit Update
Update		UnavailableReason, Index Update
	UserConfiguration permission, user has the right only to view data.	UserConfiguration, Index Read
UserConfiguration, Read		UserConfiguration, SearchUser
		UserConfiguration, SelectUser Read
UserConfiguration,	UserConfiguration Update permission, user has the right to modify data.	UserConfiguration, Index Update
		VistaIntegration, Audit Read
1		VistaIntegration, Categories Read
		VistaIntegration, DeleteScheduler
VistaIntegration Bood	VistaIntegration permission, user has the right only	VistaIntegration, Index Read
VISialiniegiaiion, reau	to view data.	VistaIntegration, Schedulers Read
		VistaIntegration,
!		VistaIntegration,
!		VistaIntegration, VistASites Read
l		VistaIntegration, Categories Update

	VistaIntegration Update permission, user has the
VistaIntegration, Update	right to modify data.

VistaIntegration, DeleteScheduler VistaIntegration, Schedulers Update

Task Name	Task Description	Operation Name
		VistaIntegration, VistASites Update
		WaitingArea, Delete Read
WaitingArea, Read	WaitingArea permission, user has the right only to view data	WaitingArea, Edit Read
		WaitingArea, Index Read
		WaitingArea, DeleteAction Update
WaitingArea, Update	WaitingArea Update permission, user has the right to modify data	WaitingArea, Edit Update
		WaitingArea, Index Update
WordConfiguration	WardConfiguration permission, user has the right only	WardConfiguration, Delete Read
Read	to view data.	WardConfiguration, Index Read
WordConfiguration	WardConfiguration Update permission, user has the	WardConfiguration, Index Update
Update	right to modify data.	WardConfiguration, DeleteWard
WardOccupancy, Read	WardOccupancy permission, user has the right only to view data.	WardOccupancy, Index Read
		WardWhiteboard, Edit Read
		WardWhiteboard, EditPT Read
		WardWhiteboard, Index Read
		WardWhiteboard, NotifyChange
WardWhiteboard, Read	WardWhiteboard permission, user has the right only to view data	WhiteboardStaff, Index Read
		WardWhiteboard, ShowReport
		WardWhiteboard, Submit Read
		WardWhiteBoard, WardWhiteBoard
		WardWhiteboard, ClearAll Read
		WardWhiteBoard, WardWhiteBoard
WardWhiteboard,	WardWhiteboard Update permission, user has the right to modify data	WhiteboardStaff, Index Update
Update		WardWhiteboard, Edit Update

7.4 Role Definitions

To view the actual definition of a BMS user role, from the Definitions folder select Role Definitions and double click the role name in the main panel of Policy Manager: in the Role Definition Properties dialog window, select the Definition tab to display it as in the following image:

eneral Definition				
The tasks and operation	ns that defin	e this role:		
Name		Туре	Description	-
Account, Read		Task		-
Acount, Update		Task		1
 Admin, Read Admin, Update AdtOrderableItems, Read AdtOrderableItems, Update BedBoard, Read 		Task Task		
		Task		
		Task		
		BedBoard, Update	•	Task
BedBoardModule,	Read	Task		
BedBoardModule,	Update	Task		
BedInformation, Read		Task		
BedInformation, U	pdate	Task		
Disobarra Clinia		Tools	•	
Add	Remo	ve		

Figure 81-Role Definition

7.5 Assigning a Role to a User

To assign one of the roles defined for BMS to a user follow the steps below.

From the main page of Policy Manager, from Role assignments folder select a role then right-click and select "Assign Windows Users and Groups": the following dialog is displayed.

softinfo	•	Filter:	Clear
Name		Full Name	*
Softinfo\@IQPACS Softinfo_C_CoordSuport Softinfo_C_Dezvoltare Softinfo_C_Economic Softinfo_C_EconomicAlte Softinfo_C_EconomicBuc Softinfo_C_EconomicCluj Softinfo_C_EconomicCluj Softinfo_C_Economiclasi Softinfo_C_Medical Softinfo_C_MedicalAlte Softinfo_C_MedicalBuc Softinfo_C_MedicalCluj Softinfo_C_MedicalCluj Softinfo_C_MedicalCluj			
Softinfo_C_Medicallasi			+

Figure 82-Assigning Roles to Users

A list of users and user groups existing in the current domain are displayed. Use the arrow button of the field in the upper left corner of the dialog to select the domain and the Filter field if necessary, and then click each applicable check box to select the user or group of users for which you want to assign the selected BMS role. Click OK to finalize the operation.

7.6 Adding a New Role

To add a new role, click the Add Role button from the main Policy Manager window or right-click Role Definitions folder and select New Role Definition...: the following dialog window is displayed:

w Role Definition			2
lame:			
SiteGuest			
escription:			
Can view pages of the assign	ed facility		
he tasks and operations that	define this ro	le:	
Name	Туре	Descripti	on
谢 BedBoard, Read	Task		
BedBoardModule, Read	Task		
谢 BedInformation, Read	Task		
DischargeClinic, Read	Task		
Home, Read	Task		
📓 IconLegend, Read	Task		
🔰 Information, Read	Task		
NewEvents, Read	Task		
Add F	lemove]	
	I		1
		OK	Canaal

Figure 83-New Role Definition

Enter the name of the new role and a short description.

To add the tasks and operations that can be performed for this role click the Add button to display the following dialog window:

Select the task definitions to add		
Name	Description	•
Account, Read		E
Acount, Update		
🔲 🏹 Admin, Read		
🗐 鼝 Admin, Update		
🗐 🌛 AdtOrderableItems, Read		
🗐 🌛 AdtOrderableItems, Update		
🗹 🌛 BedBoard, Update		
📃 🌌 BedBoardModule, Update		
🔄 🧭 BedInformation, Update		-
		F .

Figure 84-Adding Tasks and Operations to a Role

Tasks and operations that can be performed within the BMS system are available in separate tabs. Select the ones to be included in the definition of the current role (the number of selected tasks/operations will be displayed in the corresponding tab title) then press OK:

The selected tasks and operations will be displayed in the New Role Definition dialog box. Press OK to add the role to the list of roles defined for BMS: The Roles Definitions list will be updated to contain the new role. To add the new role to the Role Assignment folder, select the folder, right-click and select Assign Roles to display the following dialog window:

Name	Description

Figure 85-Add Role to Role Assignments List

Select the role then press OK: The newly added role will be displayed in the Role Assignments list and you will be able to assign the new role to BMS users.

7.7 Adding a New Task

To add a new task, click the Add Task button from the main Policy Manager window or right-click Task Definitions folder and select New Task Definition: The following dialog window is displayed:

w Task Definition			
Name:			
NewEvents, Read			
Description:			
The operations that define this	task:		
Name	Туре	Descriptio	on
NewEvents, Index Read	Operation	NewEver	ntsController
Add F	lemove		
Add F	lemove		
Add F	lemove	OK	Cancel

Figure 86-New Task Definition

Enter the name of the new task followed by read/write option and a short description. To add the operations that define the Task, click the Add button to display the following dialog window:

Select the secretion deficitions to add	
Name	Description
 http://tempuri.org/IAdministrativeFuncti http://tempuri.org/IAdministrativeFuncti IconLegend, Index Read Information, Index Read MaintainMarquee, ChangeMarquee Up MaintainMarquee, Index Read NationalAndRegional, Index Read NewEvents, Index Read Patient, Admission Read 	Icon Legend Controller, Index. Information Controller, Index (Maintain Marquee Controller, . Maintain Marquee Controller, . National And Regional Control. New Events Controller, Index Patient Controller, Admission .
- III III III III III III III III III I	•

Figure 87-Adding Operations to a Task

Select the operations that define the selected task then click OK to return to the New Task Definition dialog box. Click OK to add the new task to the Task Definitions list.

7.8 Adding a New Operation

To add a new operation, click the Add Operation button from the main Policy Manager window or right- click Operation Definitions folder and select New Operation Definition: The following dialog window is displayed.

Name:		
NewEvents, Index Read		
Description:		
NewEventsController, Index (GET)		
		1
	ОК	Cancel

Figure 88-New Operation Definition

Enter the name of the new operation followed by read/write option and a short description. Click

OK to add the new operation to the Operation Definitions list.

7.9 Business scenarios and use cases

Authentication



Figure 89-Authentication Use Cases

Section	Description	
Use Case Name	User authentication	
Summary	In the above diagram it is represented the methods that a client application can use to authenticate their users.	
Preconditions	The users, that will use the client application, need to be defined in an Active Directory	
Triggers	External	
Basic course of events	 The client application will send the user and the password or windows credentials The system verifies the login information. The system returns the result of the verification to the client application. 	
Alternative paths	 The client application will send the X509 certificate of his user The system verifies the certificate The system returns the result 	

Authorization

Check access on a specific action on a resource User

Figure 90-Authorization Use Cases

Description
User authorization
In the above diagram it is represented the methods that a client application can use to check if an authenticated user has access to a specified action on a resource.
The users, actions and resources must be defined in an Active Directory structure that the Security Service is using.
External
 The client application will invoke a check access method for a specified action on a specific resource The system will find the actions that the requesting users has access The system returns true/false if the action requested is among the users defined actions



Figure 91- Authorization Administration Use Cases

Section	Description
Use Case Name	Action and resource management
Summary	Administrative console can define actions and resources and associate an action with a resource type.
Preconditions	The association method mandates that the action and the resource type should already be defined
Triggers	External
Basic course of events	 The client application will invoke a create action The system will try to create requested action. The system will fail if the specified action name already exists, or specified id already exists.

Section	Description
Use Case Name	Role management
Summary	Administrative console can define user roles and associate users/user groups with roles.
Preconditions	The association method mandates that the role should already be defined
Triggers	External
Basic course of events	 The client application will invoke a create role The system will try to create requested role. The system will fail if the specified role name already exists, or specified id already exists.

Section	Description
Use Case Name	Security policy management
Summary	Administrative console can associate users (groups of users) with roles. These roles are then associated with and action (operation).
Preconditions	The association method mandates that the action and the resource type should already be defined.
Triggers	External

8 Detailed Functional Model on Each Interface

8.1 Service contracts

Authentication

The security service for authentication is represented by STS – security token cache that will issue a token whether the authentication succeeded, otherwise it will deny access to the application server. This STS Service will authenticate the user through WS-Security and validate application servers through WS-Trust using SAML v2.0 Token (Security Assertion Markup Language).

Authorization

The security services for authorization are represented by a PDP and PAP implementation. PDP stands for policy decision point where the authenticated user can check the permission for a specified action on a specified resource. PAP stands for policy administration point. Here an administrative console can define actions, resource-types, roles and make associations with them (define security policies) that will server for PDP. The PDP service exposes one method: CheckAccess, whilst PAP service has specific functions for policy administration.

Detailed functional model on each interface

Bed Management Solution (BMS) Technical Manual

STS – Security Token Service

• Authenticate

Business	User authentication
Thendly name	
Description	The function decides if the user and the password supplied as parameters are valid. Will return true on success and false on any failure.
Inputs	Windows client credentials or Username – representing the username of the requested user. Password – the password of the requested user.
Outputs	True - on success False – on failure

PDP – Policy Decision Point

CheckPermission

Business	User authorization – check Access	
friendly name		
Signature	Message CheckAccess (Message request);	
Description	The function decides if the user has the privilege to access the specified	
	action(s) on the specified resource.	
Inputs	Username, operation name and resource id are encapsulated in the SAML	
	Message class	
Outputs	A Message containing the permit or deny result.	

PAP – Policy Administration Point

Name	Description	Input	Output
AddRole	Adds a role	String name – name of the new role String description – role description	<i>String</i> – new role's id
Delete Role	Delete a role	<i>String id</i> – role's id	String – deleted role's id
Update Role	Update a role	String id – role's id String name – role's name String description –role's description	<i>bool</i> – operation result: <i>true</i> on succeeded; <i>false</i> if any error aroused
Update Task	Update a task	String id – task's id String name –task's name String description – task's description	<i>bool</i> – operation result: <i>true</i> on succeeded; <i>false</i> if any error aroused
Update Operation	Update an operation	String id – operation's id String name – operation's name String description – operation's description	<i>bool</i> – operation result: <i>true</i> on succeeded; <i>false</i> if any error aroused
IsChild	Verifies if the sent operation is part of a task	String id – operation id	<i>bool</i> – operation result
Assign User	Assign an user to a role	String userId – user's id (SID) String roleId – role's id	-
DeassignUser	Delete an association between an user and a role	String userId – user's id (SID) String roleId – role's id	-
Grant	Grant access to a	string resourceld, string actionId,	-

Permission	resource for a role on an action	string roleld	
Revoke Permission	Revokes a permission	string resourceld, string actionId, string roleId	-
GetRoles	Returns a list with all stored roles	<i>Bool</i> assignedOnly - returns assigned roles if parameter is true	List <role> - retrieved roles</role>
Get Operations	Returns a list with all stored operations	-	<i>List<operation></operation></i> - retrieved operations
GetTasks	Returns a list with all stored tasks	-	List <task> - retrieved tasks</task>
Add Operation	Add a new operation	String name – operation's name String description – operation's description	String id – operation's id
Delete Operation	Delete an operation	String – operation's id	-
AddTask	Add a new task	String name – task's name String description – task's description	String id– tasks's id
Delete Task	Delete a task	String id– tasks's id	-
Assign Operations	Associate operations to a task	List <string> operationIds – list of operations to be assigned String taskId – task's id</string>	-
DeassignOperations	Deassign operations from a task	List <string> operationIds – list of operations to be assigned String taskId – task's id</string>	-
GetTaskDefinition	Retrieve a list with all operations of the specified task	String id– tasks's id	<i>List<definitionbase></definitionbase></i> - operation list
GetRole Definition	Returns all associated operations to a specified role	<i>String</i> roleld – role's id	<i>List<definitionbase></definitionbase></i> - operation list
GetRole ByName	Returns a role by name	String name – role's name	<i>Role</i> – returned role
GetRole ByName Excluding	Returns a role by name excluding the role id sent by parameter	<i>String</i> name – role's name <i>Guid</i> id – role's id	<i>Role</i> – returned role
GetTask ByName	Returns a task by name	String name – task's name	<i>Task</i> – returned task
GetTask ByName ExcludingId	Returns a task by name excluding the task id sent by parameter	<i>String</i> name – task's name <i>Guid</i> id – task's id	<i>Task –</i> returned task
Get Operation ByName	Returns an operation by name	String name – operation's name	<i>Operation</i> – returned operation
Get Operation ByName ExcludingId	Returns an operation by name excluding the operation id sent by parameter	<i>String</i> name – operation's name <i>Guid</i> id – operation's id	<i>Operation</i> – returned operation
Get Permissions By Resource Type	Returns a list with operations/task associated with a resource ype	<i>String</i> resourceType – Resource type	List <definitionbase> – operation/task list</definitionbase>
GetPolicy	Returns a list with all roles and operations associated with the resource	String resourceld – resource's id	<i>List<role></role></i> – role list. Each role has the associated operations.

GetRole Users	Returns a list with all users associated to a specific role	<i>Guid</i> roleId – role's id	<i>List<user></user></i> – user list
Assign Role	Marks a role as assigned	<i>Guid</i> roleId – role's id	-
Deassign Role	Marks a role as unassigned	<i>Guid</i> roleId – role's id	-
Get Connected RolesAndOperations	Returns a list with all roles and operations associated with the resource	String resourceld – resource's id	<i>List<role_operation></role_operation></i> – list with role-operations associations
Clear Permissions For Resource	Removes all permissions for a certain resource (all associations to this resource)	String resourceld – resource's id	-
Delete PermissionFor Resource And Operation	Deletes a permission form a role based on the resource and operation sent.	String resourceld – resource's id String roleId – role's id String actionGUID – operation's id	-
Insert PermissionFor Resource And Operation	Creates a permission for a certain role and an operation on a resource. It automatically creates the association within the permission and the operation if it doesn't exist.	String resourceld – resource's id String roleId – role's id String actionGUID – operation's id	-

The security services do not expose a fault contract as usual web services do. Instead, these services deliver information about any issue in processing the request in the return message of the service call (such as authentication error, authorization error etc.).

Data contracts



Figure 92-Class Diagram for Data Contracts in PAP and PDP

8.2 BMS Roles

BMS users fall under the following categories:

Administrators: This type of user will customize the BMS settings according to the needs of a facility. They will have access to the Site Options pages. This role refers to a group of users whose members are the person(s) responsible for setting up BMS options for the current facility.

AuditLogUsers: This type of user will have access to Audit Log Report. This role cannot be used alone, only together with another role.

EmsStaff: The EMS group of users will be allowed to edit and update the bed cleaning process but not the other parts of the bed board. Any member of your EMS staff that will be interacting with BMS must be in this group.

EMSSupervisorUsers: The EMS supervisor group of users will be allowed to view the requests for bed clean

Bed Management Solution (BMS) Technical Manual operations, to filter existing requests by different criteria and to select requests in order to assign them to EMS staff. This role cannot be used alone, only together with EmsStaff role.

Guests: The guest user will be allowed to generate the National Bed Availability report from National/Regional page.

National Users/Regional Users: This type of user will have access to the National/Regional page only.

Site Users: This type of user only has access to the BMS facility page.

Support Users: This type of user will have access to the Administrative page of the BMS solution. They configure the sites for the BMS facilities and grant access and read/write rights to the users.

VISN Users: This type of user will have access to the pages of different facilities within the VISN where they have been granted access.

9 Troubleshooting

This section contains information on common issues with using BMS solution and how those may be resolved.

Symptom 1

When you try to load the BMS application, one of the following error messages appear:

Server Error 500 - Internal server error. There is a problem with the resource you are looking for, and it cannot be displayed.

Figure 93-500 Server Error

Problem

IIS is not started/running.

Diagnoses and Solutions

Start the IIS Manager and check if the Application Pool Identity is set to the correct service account. (). Verify the BMS pool is started, If stopped right click on the BMS, Select 'Start'.

Verify the Site 'BMS' is started. If not select 'BMS' under the Site folder in IIS Manager, select 'Start' from the 'Manage Web Site' panel on the right side of the IIS Manager.

Symptom 2

When trying to load the BMS application, one of the following error messages appears:

Bed	Manag	gement So	olution
Can't get the facilities: There was no endpoint listening at http://testaresoft2:17050/ST	Login was unsuccessfu S/Windows that could a	ul. Please correct the errors and try accept the message. This is often c	y again. aused by an incorrect address or SOAP action. See InnerException, if present, for more details.
	Login		
	User name:	bmsuser	
	Password:	•••••	
	Facility (Required)	There are no facilities	
		Connect	
	Go To Facilit	ty Bed Cleaning Page (EMS Staff Only)	

Figure 94-No Facilities Error

Diagnoses and Solutions

Go to the MULx5 machine and check if the BMS.ServiceHost service is stopped. Start the services.msc console and start the service.

Verify the service started.

Symptom 3

When trying to load the BMS application, one of the following error messages appears:

	Unhandled Exception
	An unhandled exception occurred. Please contact your system administrator with the below details.
Message:	
Details:	There was no endpoint listening at http://testaresoft2:17050/BMSConfigurationOperations that could accept the message. This is often caused by an incorrect address or SOAP action. See InnerException, if present, for more details. The remote server returned an error: (404) Not Found.
	Figure 95-Unhandled Exception

Diagnoses and Solutions

- Check if BMS.BMService service is stopped or SQL Server might also have stopped.
- Go to the SQL Server machine and start the SQL Server from the SQL Server Configuration Manager. Verify if the connection string to the database server is set properly.
- Then go to the services' machine, start the services.msc console and start the BMS.BMService service.

Symptom 4

When trying to log-in to the BMS application, the following error is displayed:

Login was unsuccessful. Please correct the errors and try again. • There was an error when trying to login: There was no endpoint listening at http://testaresoft2:17050/BMSConfigurationOperations that could accept the message. This is often caused by an incorrect address or SOAP action. See InnerException, if present, for more details.



Figure 96-Login Unsuccessful

Diagnoses and Solutions

Check if BMS.BMService service is stopped. Go to the services' machine, start the services.msc console and start the service.

Symptom 5

Data does not appear in the reports. Data does not get refreshed in the reports.

Diagnoses and Solutions

In SQL Configuration Manager, check if the SQL Server Agent is started, and if it isn't start it; then, in the SQL Server Management Studio, check if the *BMS* - *Reports Full* and *BMS* - *Reports Incremental* are deployed and run without errors. If the jobs are not deployed, install them.

Symptom 6

A report is missing from Other Reports section on the Facility Home Page (e.g. *EMS Bed Status Report* (*Admin*)).



Figure 97- EMS Bed Status Report is Missing

Diagnoses and Solutions

Check if the report is missing from the SQL Server Reporting Services. Go to the management web page and add the missing report (Upload File).

Symptom 7

When trying to view one of the reports (other than the Other Reports) the following error appears:

Return to Previous Page

rsItemNotFound The item '/BMS/Others/Bed Specialty Report' cannot be found. (rsItemNotFound)

Figure 98- Report Cannot be Found

Diagnoses and Solutions

Check if the mentioned report is missing from the Reporting Services. Go to the management web page and add the specified report.

BMS Log Files

There are five log files available to anyone supporting the BMS system, the **WinServiceHost**, the **SecurityHost**, the **BMS.ServiceHost**, the **BMS.VI.ServiceHost** and the **WebTrace log**.

- The WinServiceHost log file is named BMS-Services.log and its location is on the application server (vaausbmsmulx5) D:\BMS\Bin.
- The SecurityHost log file is named BMS-Security.log and its location is on the application server

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(vaausbmsmulx5) D:\BMS\Bin.

- The BMS.ServiceHost logfile is named BMS.trace.log and its location is on the application server (vaausbmsmulx5) at D:\BMS\Bin\BMS.
- The BMS.VI.ServiceHost logfile is named BMS.VI.trace.log and its location is on the application server (vaausbmsmulx6) at D:\BMS\Bin\BMS.
- The Web trace log is named WebTrace.log and its location is on the web server (vaausbmswebx5) at D:\BMS\BMS.Web.

These logs contain various types of information (informational, warnings, and errors) with the exception of the web trace log, which only contains error messages.

There is no log file for MDWS, those errors are captured through our integration calls and posted in the BMS.ServiceHost log file (Trace.log). These are bit trickier to debug as in any attempt requires the exact parameters to be passed to MDWS.

10 Appendix A – BMS Diagrams

10.1 Business Process Diagrams



Figure 99-Admit Patient to PPBP Business Process







Figure 101-Display and Update PPBP Business Process



Figure 102-Display and Update Bed Status Business Process



Figure 103-Manage Bed Cleaning Business Process


Figure 104-Create Notification Business Process



Figure 105-Create Facility Diversion Business Process



Figure 106-Manage Whiteboard Business Process



Figure 107-Reports Business Process

10.2 Activity Diagram



Figure 108-BMS Overview Activity Diagram

10.3 Functional Flow Diagram



Figure 109-BMS Overview Functional Flow Diagram

9.4 Data Flow Diagram



Figure 110-BMS Overview Data Flow Diagram

9.5 Application Flow Map from APPDYNAMICS



Figure 111-Application Flow map from APPDYNAMICS

11 Appendix B - Terms, Acronyms, and Abbreviations

	Table 29-Terms,	Acronyms,	and Abb	reviations
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Terms, Acronyms, Abbreviations	Definitions
ASP	Active Server Pages
BMS	Bed Management Solution
CRUD	Create, Read, Update, Delete
EIS	Entity Identification Service
EMS	Environmental Management Service
ETL	Extract Transform Load
EVS	Enterprise Vocabulary Service
IE	Internet Explorer
IIS	Internet Information Services
IRM	Information Resources Management
MDO	Medical Domain Objects
MDWS	Medical Domain Web Services
MVC	Model-View-Controller
NUMI	National Utilization Management Integration

ODBC	Open Database Connectivity
PAP	Policy Administration Point
PPBPL	Patients Pending Bed Placement List . A list of patients in need of beds at VA facilities
PDP	Policy Decision Point
RS	Reporting Services
SOA	Service Oriented Architecture
SQL	Structured Query Language
STS	Secure Token Service
URI	Uniform Resource Identifier
URL	Uniform Resource Locator
VA	Department of Veterans Affairs
VAMC	VA Medical Center
VIA	Vista Integration Adapter
VISN	Veterans Integrated Service Network
VistA	Veterans Health Information Systems and Technology Architecture
WCF	Windows Communication Foundation
XAML	Extensible Application Markup Language
XML	eXtensible Markup Language
WMI	Windows Management Instrumentation