

Bed Management Solution (BMS)

Technical Manual



April, 2016

Revision History

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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, patient-movement, 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 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.

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

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.

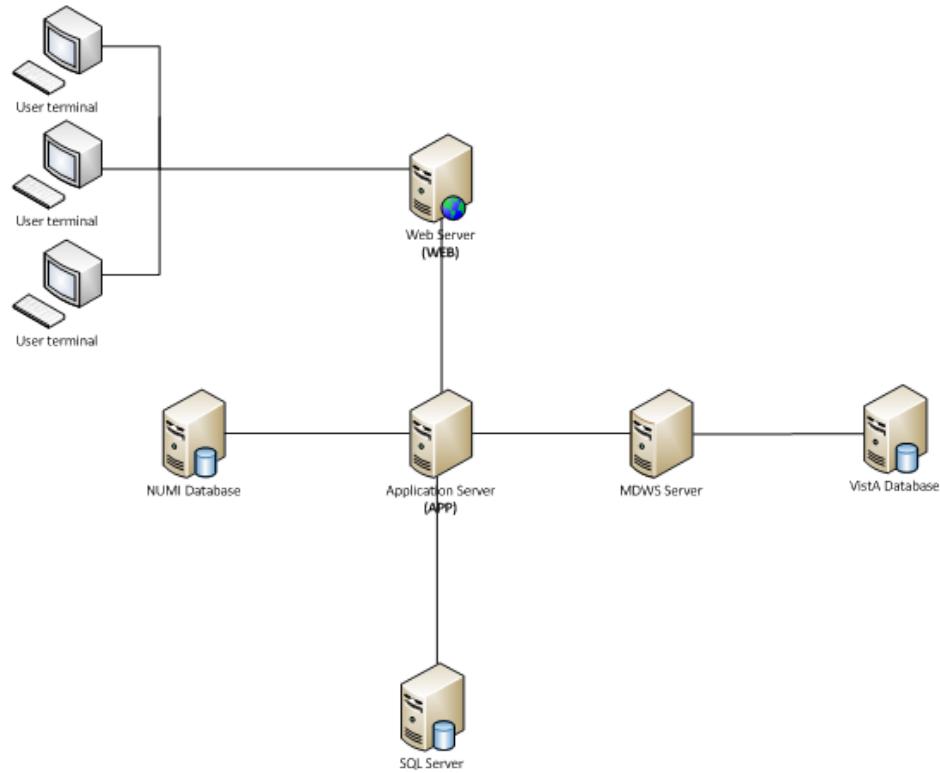


Figure 1: BMS Infrastructure Diagram

BMS is divided into specific components:

1. Persistence layer: SQL Server 2008 R2 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)
 - i. Medical Domain Web Services (MDWS): Web Service installed in IIS
- 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\bms_svc_prod) 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>25 server hosts the four application services:
 - BMS.BedManagerService
 - BMS.SecurityHost
 - BMS.ServiceHost
- The <ServerAddress>26 server hosts the four 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 2008 64 bit R2 Standard Microsoft Clustering Services 2008 IIS 7.5 ASP.NET MVC3 .NET Framework 4.5.2
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 Sever

Server 1	
Basic software:	Microsoft Windows Server 2008 64 bit R2 Standard .NET Framework 4.5.2
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 2008 64 bit R2 Standard .NET Framework 4.5.2
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 2008 64 bit R2 Standard Microsoft SQL Server 2008 R2 Standard .NET Framework 4.5.2
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.)				Description
		Split Service			Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.config	BMS.ServiceHost.config		
configSections	mtmodules	type="ePractice.MiddleTier.MTModuleSectionHandler, MiddleTier"				
	enterpriselibrary.configurationSettings	type="ePractice.Configuration.ConfigurationManagerSectionHandler, MS.Configuration"				
	pagingSortGroup	type="BMS.Utils.PagingSortSection, BMS.Utils" allowDefinition="Everywhere" allowExeDefinition="MachineToApplication" restartOnExternalChanges="true"				
	log4net	type="log4net.Config.Log4NetConfigurationSectionHandler,log4net"				
connectionStrings	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;"	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;"	connectionString="Data Source=<DatabaseAddress>;Initial Catalog=BMS;Persist Security Info=False;Integrated Security=SSPI;Pooling=true;Min Pool Size=0;Max Pool Size=100;"		Connection string for the connection to the BMS database.
appSettings	DatasetPath	value="DBRepository"				
	LocalServer	value="yes"				
	UseSecurityContext	value="1"				Security - Authorization
	ePractice.MiddleTier.Transaction	value="MiddleTier.dll"				
	ConnectionRef	value="1"				
	TransactionProvider	value="ePractice.MiddleTier.CustomTransactionProvider"				
	VistaWorker.WorkerDelayTimeSpan	value="0:0:0:30"				Delay time from service start to first processing
	VistaWorker.WorkerPeriodTimeSpan	value="0:0:0:15"				Period between

Section	Configuration Key/Name	Configuration values (ex.)			Description
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.config	BMS.ServiceHost.config	
	VistaWorker.BulkSize	value="100"			worker processing steps
	VistaWorker.Enabled	N/A (No longer used)			Whether vista worker is enabled or not (true or false)
	VistalIntegration.Enabled	value="false"	value="true"	value="true"	Whether vista integration is enabled or not (true or false)
	VistalIntegration.SchedulerSecondsLate	value="30"			The time delay of schedulers
	VistalIntegration.UpdateBmsPatients	value="true"			Whether update bms patients is enabled or not (true or false)
	SmtpHost	value="smtp.va.gov"	value="smtp.va.gov"	value="localhost"	smtp host
	VistaWorker.VistASitesFilePath	value="VistASites.xml"			The vista sites configuration file name
	VistasBedHoldSupported	N/A			List of vista sites that support bed hold.
	visitorAppPwd	value="UM"			Password used by MDWS to connect to VistA.
	visitorUserSiteCode	value="523"			User Site Code used by MDWS to connect to

Section	Configuration Key/Name	Configuration values (ex.)			Description
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.config	BMS.ServiceHost.config	
					VistA.
	visitorUserName	< visitorUserName >			User Name used by MDWS to connect to VistA.
	visitorUserDuz	value=<visitorUserDuz >			User Duz used by MDWS to connect to VistA.
	visitorUserSsn	value=<visitorUserSsn >			User SSN used by MDWS to connect to VistA.
	visitorContext	value=<visitorContext >			Context used by MDWS to connect to VistA.
	UsingNewMdwsMethods	value="true"			Whether use new mdws methods for vista integration (true or false)
	BMS_EIS_GET_ENTITY_FILTR_PAGE_SIZE	value="1000"			Number of records queried that are brought from EIS in one page.
	BMS_EVS_GET_CONCEPT_PAGE_SIZE	value="1000"			Number of records queried that are brought from EVS in one page.
	Changeset	value="72898"			Changeset of the installed

Section	Configuration Key/Name	Configuration values (ex.)			Description
		Split Service			Combine Service
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.config	BMS.ServiceHost.config	
					build.
	NumiSvcAuthenticationKey	value=<NumiSvcAuthenticationKey > "			NUMI service authentication key.
	NumiMaxNumberOfSitesPerCall	value="5"			Maximum number of sites that NUMI processes in one call.
	Is_IIS_Single_Instance	value="true"			Whether use SSL endpoint from configuration file. (true or false)
	UseCacheEndpointFromConfigWithSsl	value="true"			Whether use SSL endpoint from configuration file.
	ProxyPoolMaxCount	value="1000"	value="50"	value="1000"	The maximum number of proxies in the pool.
	MdwsEndpointUrl_1	N/A	<add key="MdwsEndpointUrl_DFLT" value="http://vaausbmsweb26:87/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_R1" value="http://vaausbmsweb26:88/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_R2" value="http://vaausbmsweb26:89/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_R3" value="http://vaausbmsweb26:90/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_R4" value="http://vaausbmsweb26:91/QuerySvc.asmx"/>	value="http://localhost:82/QuerySvc.asmx" value="http://localhost:82/QuerySvc.asmx"	MDWS instance URL address.

Section	Configuration Key/Name	Configuration values (ex.)			Description
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.config	BMS.ServiceHost.config	
			<pre> <add key="MdwsEndpointUrl_V1" value="http://vaausbmsweb26:92/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_V2" value="http://vaausbmsweb26:93/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_V3" value="http://vaausbmsweb26:94/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_V4" value="http://vaausbmsweb26:95/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_V5" value="http://vaausbmsweb26:96/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_V6" value="http://vaausbmsweb26:97/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_V7" value="http://vaausbmsweb26:98/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_V8" value="http://vaausbmsweb26:99/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_V9" value="http://vaausbmsweb26:100/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_V10" value="http://vaausbmsweb26:101/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_V11" value="http://vaausbmsweb26:102/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_V12" value="http://vaausbmsweb26:103/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_V13" value="http://vaausbmsweb26:104/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_V14" value="http://vaausbmsweb26:105/Qu </pre>		

Section	Configuration Key/Name	Configuration values (ex.)			Description
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.config	BMS.ServiceHost.config	
			<pre> querySvc.asmx"/> <add key="MdwsEndpointUrl_V15" value="http://vaausbmsweb26:106/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_V16" value="http://vaausbmsweb26:107/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_V17" value="http://vaausbmsweb26:108/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_V18" value="http://vaausbmsweb26:109/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_V19" value="http://vaausbmsweb26:110/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_V20" value="http://vaausbmsweb26:111/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_V21" value="http://vaausbmsweb26:112/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_V22" value="http://vaausbmsweb26:113/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_V23" value="http://vaausbmsweb26:114/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_GLA" value="http://vaausbmsweb26:115/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_LAS" value="http://vaausbmsweb26:116/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_LOM" value="http://vaausbmsweb26:117/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_LON" value="http://vaausbmsweb26:118/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_SDC" value="http://vaausbmsweb26:119/QuerySvc.asmx"/></pre>		

Section	Configuration Key/Name	Configuration values (ex.)			Description
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.config	BMS.ServiceHost.config	
			<pre> value="http://vaausbmsweb26:119/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_KAN" value="http://vaausbmsweb26:120/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_STL" value="http://vaausbmsweb26:121/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_NFL" value="http://vaausbmsweb26:122/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_WPB" value="http://vaausbmsweb26:123/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_BAY" value="http://vaausbmsweb26:124/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_MIA" value="http://vaausbmsweb26:125/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_ORL" value="http://vaausbmsweb26:126/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_SAJ" value="http://vaausbmsweb26:127/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_TAM" value="http://vaausbmsweb26:128/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_RSV1" value="http://vaausbmsweb27:87/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_RSV2" value="http://vaausbmsweb27:88/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_RSV3" value="http://vaausbmsweb27:89/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_RSV4" value="http://vaausbmsweb27:90/QuerySvc.asmx"/> </pre>		

Section	Configuration Key/Name	Configuration values (ex.)			Description
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.config	BMS.ServiceHost.config	
			<pre> <add key="MdwsEndpointUrl_RSV5" value="http://vaausbmsweb27:91/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_RSV6" value="http://vaausbmsweb27:92/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_RSV7" value="http://vaausbmsweb27:93/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_RSV8" value="http://vaausbmsweb27:94/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_RSV9" value="http://vaausbmsweb27:95/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_RSV10" value="http://vaausbmsweb27:96/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_RSV11" value="http://vaausbmsweb27:97/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_RSV12" value="http://vaausbmsweb27:98/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_RSV13" value="http://vaausbmsweb27:99/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_RSV14" value="http://vaausbmsweb27:100/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_RSV14" value="http://vaausbmsweb27:101/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_RSV15" value="http://vaausbmsweb27:102/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_RSV16" value="http://vaausbmsweb27:103/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_RSV17" value="http://vaausbmsweb27:104/QuerySvc.asmx"/></pre>		

Section	Configuration Key/Name	Configuration values (ex.)			Description
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.config	BMS.ServiceHost.config	
			<pre> erySvc.asmx"/> <add key="MdwsEndpointUrl_RSV18" value="http://vaausbmsweb27:105/Qu erySvc.asmx"/> <add key="MdwsEndpointUrl_RSV19" value="http://vaausbmsweb27:106/Qu erySvc.asmx"/> <add key="MdwsEndpointUrl_RSV20" value="http://vaausbmsweb27:107/Qu erySvc.asmx"/> <add key="MdwsEndpointUrl_RSV21" value="http://vaausbmsweb27:108/Qu erySvc.asmx"/> <add key="MdwsEndpointUrl_RSV22" value="http://vaausbmsweb27:109/Qu erySvc.asmx"/> <add key="MdwsEndpointUrl_RSV23" value="http://vaausbmsweb27:110/Qu erySvc.asmx"/> <add key="MdwsEndpointUrl_RSV24" value="http://vaausbmsweb27:111/Qu erySvc.asmx"/> <add key="MdwsEndpointUrl_RSV25" value="http://vaausbmsweb27:112/Qu erySvc.asmx"/> <add key="MdwsEndpointUrl_RSV26" value="http://vaausbmsweb27:113/Qu erySvc.asmx"/> <add key="MdwsEndpointUrl_RSV27" value="http://vaausbmsweb27:114/Qu erySvc.asmx"/> <add key="MdwsEndpointUrl_GLA27" value="http://vaausbmsweb27:115/Qu erySvc.asmx"/> <add key="MdwsEndpointUrl_LAS27" value="http://vaausbmsweb27:116/Qu erySvc.asmx"/> <add key="MdwsEndpointUrl_LOM27" value="http://vaausbmsweb27:117/Qu erySvc.asmx"/> <add key="MdwsEndpointUrl_LON27" value="http://vaausbmsweb27:118/Qu erySvc.asmx"/> </pre>		

Section	Configuration Key/Name	Configuration values (ex.)			Description
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.config	BMS.ServiceHost.config	
			<pre> value="http://vaausbmsweb27:118/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_SDC27" value="http://vaausbmsweb27:119/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_KAN27" value="http://vaausbmsweb27:120/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_STL27" value="http://vaausbmsweb27:121/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_NFL27" value="http://vaausbmsweb27:122/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_WP27" value="http://vaausbmsweb27:123/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_BAY27" value="http://vaausbmsweb27:124/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_MIA27" value="http://vaausbmsweb27:125/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_ORL27" value="http://vaausbmsweb27:126/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_SA27" value="http://vaausbmsweb27:127/QuerySvc.asmx"/> <add key="MdwsEndpointUrl_TAM27" value="http://vaausbmsweb27:128/QuerySvc.asmx"/></pre>		
	VistalIntegrationJobFailedMaxCount	value="25"			The maximum number of job failures until the system decides to retry.

Section	Configuration Key/Name	Configuration values (ex.)			Description
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.config	BMS.ServiceHost.config	
	VistalIntegrationJobFailedIncrementDateMinutes	value="10"			The time span (minutes) that the system decides to increment job's start date when the threshold of job failures is reached.
	VistalIntegrationJobFailedNotificationEmailTo				Recipient's email used when a job fails. (va_person@va.gov)
	VistalIntegrationJobFailedNotificationEmailFrom	value="BMSBackgroundProcessorAgent@va.gov"			Sender's email used when a job fails.
	BMS_EIS_LongRunningMethodsMaxConcurrentCalls	value="100"	value="75"	value="75"	
	BMS_EVS_LongRunningMethodsMaxConcurrentCalls	value="100"	value="100"	value="50"	
	BMSServiceHostStartType	value="BMS"	value="BMS.VI"	value="ALL"	Identifies how BMS is ran and the the associate configuration file. (possible values: ALL, BMS, BMS.VI)
	VistalIntegration.TaskSchedulerDelayMin	value="0"	value="0"	value="0"	
	VistalIntegration.TaskSchedulerDelayMax	value="10"	value="10"	value="10"	
	VistalIntegration.TaskSchedulerDelayStep	value="5"	value="5"	value="5"	
	ThreadPoolMaxWorkerThreads			value="200"	

Section	Configuration Key/Name	Configuration values (ex.)			Description
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.config	BMS.ServiceHost.config	
	VistalIntegration.PatientMovementlenDays		value="60"	value="60"	
pagingSortGroup\pagingSort	sortColumnCode="entered"	sortColumnName="[A].[CREATION_DATE]"			
	sortColumnCode="patient"	sortColumnName="[PAT].[LAST_NAME], [PAT].[FIRST_NAME]"			
	sortColumnCode="facility"	sortColumnName "[F].[NAME]"			
	sortColumnCode="requestedt"	sortColumnName "[A].[CREATION_DATE]"			
	sortColumnCode="specialty"	sortColumnName "[REQSP].[DISPLAY_NAME]"			
	sortColumnCode="visn"	sortColumnName "[TR].[FACILITY_VISN]"			
	sortColumnCode="region"	sortColumnName "[TR].[FACILITY_REGION]"			
	sortColumnCode="eventdt"	sortColumnName "[AEVN].[CREATION_DATE]"			
	sortColumnCode="VacatedDate"	sortColumnCode="VacatedDate"			
	sortColumnCode="transfereventdt"	sortColumnName "[A].[CREATION_DATE]"			
	sortColumnCode="transferrequestdt"	sortColumnName "[TR].[REQUESTED_DATE]"			
mtmodules [defaultserver=""]	assembly="General.MT.dll"	servername=""			
	assembly="BMS.MT.dll"	servername=""			
enterpriselibrary.configurationSettings xmlns:xsd="http://	configurationSections\configurationSection xsi:type="ReadOnlyC	storageProvider xsi:type="XmlFileStorageProviderData" name="XML File Storage Provider" path="securityConfiguration.config"			

Section	Configuration Key/Name	Configuration values (ex.)			Description
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.config	BMS.ServiceHost.config	
www.w3.org/2001/XMLSchema xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" applicationName="HMSI" xmlns="http://www.microsoft.com/practices/enterpriseLibrary/08-31-2004/configuration"	onfigurationSectionData name="securityConfig uration" encrypt="false"	<pre><dataTransformer xsi:type="XmlSerializerTransformerData" name="Xml Serializer Transformer"> <includeTypes> <includeType name="HMUserAccessAuthenticationProviderData" type="ePractice.Security.HMUserAccess.Configuration.HMUserAccessAuthenticationProviderData, Security.HMUserAccess"/> <includeType name="HMUserAccessAuthorizationProviderData" type="ePractice.Security.HMUserAccess.Configuration.HMUserAccessAuthorizationProviderData, Security.HMUserAccess"/> <includeType name="HMUserAccessRolesProviderData" type="ePractice.Security.HMUserAccess.Configuration.HMUserAccessRolesProviderData, Security.HMUserAccess"/> <includeType name="NullAuthenticationProviderData" type="ePractice.Security.Null.Configuration.NullAuthenticationProviderData, Security.Null"/> <includeType name="NullAuthorizationProviderData" type="ePractice.Security.Null.Configuration.NullAuthorizationProviderData, Security.Null"/> </includeTypes> </dataTransformer></pre>			
	configurationSections\ configurationSection xsi:type="ReadOnlyC onfigurationSectionDa ta" name="cachingConfig uration" encrypt="false"	<p>storageProvider xsi:type="XmlFileStorageProviderData" name="XML File Storage Provider" path="cachingConfiguration.config"</p> <pre><dataTransformer xsi:type="XmlSerializerTransformerData" name="Xml Serializer Transformer"> <includeTypes/> </dataTransformer></pre>			
	configurationSections\ configurationSection xsi:type="ReadOnlyC onfigurationSectionDa ta" name="connectionCo nfiguration" encrypt="false"	<p>storageProvider xsi:type="XmlFileStorageProviderData" name="XML File Storage Provider" path="connectionConfiguration.config"</p>			

Section	Configuration Key/Name	Configuration values (ex.)				Description
		Split Service			Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.config	BMS.ServiceHost.config		
		<pre><dataTransformer xsi:type="XmlSerializerTransformerData" name="Xml Serializer Transformer"> <includeTypes> <includeType name="ServicesDatabaseConnectionProviderData" type="ePractice.Connection.SingleDatabase.Configuration.ServicesDatabaseConnectionProviderData, Connections.SingleDatabase, Version=1.0.0.0, Culture=neutral, PublicKeyToken=null"/> </includeTypes> </dataTransformer></pre>				
		keyAlgorithmStorageProvider			xsi:nil="true"	
system.runtime.remoting	application\channels\channel	type="System.Runtime.Remoting.Channels.Tcp.TcpChannel, System.Runtime.Remoting, Version=1.0.5000.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" name="RegularChannel"				
system.net	connectionManager\add	address="" maxconnection="1000"				
system.serviceModel\services	service	name="BMS.ServiceImplementation.BedManagerOperationsCore" behaviorConfiguration="ServiceBehavior"				
	host\base\baseAddress\sesladd	baseAddress="http://<ServerAddress>25:16050/BMSOperations"	baseAddress="http://<ServerAddress>26:16050/BMSOperations"	baseAddress="http://localhost:16050/BMSOperations"		
	endpoint	address="" bindingConfiguration="ServiceBinding" binding="wsFederationHttpBinding" contract="BMS.ServiceContracts.IBedManagerOperations"				
	endpoint	address="win" bindingConfiguration="WinBinding" binding="wsFederationHttpBinding" contract="BMS.ServiceContracts.IBedManagerOperations"				
	endpoint	contract="IMetadataExchange" binding="mexHttpBinding" address="mex"				
	endpoint	address="unsec" binding="basicHttpBinding" contract="BMS.ServiceContracts.IBedManagerOperations"				
	service	name="BMS.ServiceImplementation.BedManagerQueryCore" behaviorConfiguration="ServiceBehavior"				
	host\base\baseAddress\sesladd	baseAddress="http://<ServerAddress>25:16050/BMSQuery"	baseAddress="http://<ServerAddress>26:16050/BMSQuery"	baseAddress="http://localhost:16050/BMSQuery"		
	endpoint	address="" bindingConfiguration="ServiceBinding" binding="wsFederationHttpBinding" contract="BMS.ServiceContracts.IBedManagerQuery"				
	endpoint	address="win" bindingConfiguration="WinBinding" binding="wsFederationHttpBinding" contract="BMS.ServiceContracts.IBedManagerQuery"				
	endpoint	contract="IMetadataExchange" binding="mexHttpBinding" address="mex"				
	endpoint	address="unsec" binding="basicHttpBinding" contract="BMS.ServiceContracts.IBedManagerQuery"				
	service	name="BMS.ServiceImplementation.BedManagerCacheCore" behaviorConfiguration="ServiceBehavior"				

Section	Configuration Key/Name	Configuration values (ex.)			Description
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.config	BMS.ServiceHost.config	
	host\base\baseAddressses\add		baseAddress="http://<ServerAddress>26:16050/BMSCache"	baseAddress="http://localhost:16050/BMSCache"	
	endpoint		address="" bindingConfiguration="ServiceBinding" binding="wsFederationHttpBinding" contract="BMS.ServiceContracts.IBedManagerCache"	address="" bindingConfiguration="ServiceBinding" binding="wsFederationHttpBinding" contract="BMS.ServiceContracts.IBedManagerCache"	
	endpoint		address="win" bindingConfiguration="WinBinding" binding="wsFederationHttpBinding" contract="BMS.ServiceContracts.IBedManagerCache"	address="win" bindingConfiguration="WinBinding" binding="wsFederationHttpBinding" contract="BMS.ServiceContracts.IBedManagerCache"	
	endpoint		contract="IMetadataExchange" binding="mexHttpBinding" address="mex"	contract="IMetadataExchange" binding="mexHttpBinding" address="mex"	
	endpoint		address="unsec" binding="basicHttpBinding" contract="BMS.ServiceContracts.IBedManagerCache"	address="unsec" binding="basicHttpBinding" contract="BMS.ServiceContracts.IBedManagerCache"	
	service	name="BMS.ServiceImplementation.ConfigurationOperationsCore" behaviorConfiguration="ServiceBehavior"		name="BMS.ServiceImplementation.ConfigurationOperationsCore" behaviorConfiguration="ServiceBehavior"	
	host\base\baseAddressses\add	baseAddress="http://<ServerAddress>25:16050/BMSConfigurationOperations"		baseAddress="http://localhost:16050/BMSConfigurationOperations"	

Section	Configuration Key/Name	Configuration values (ex.)			Description
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.config	BMS.ServiceHost.config	
	endpoint	address="" bindingConfiguration="ServiceBinding" binding="wsFederationHttpBinding" contract="BMS.ServiceContracts.IConfigurationOperations"		address="" bindingConfiguration="ServiceBinding" binding="wsFederationHttpBinding" contract="BMS.ServiceContracts.IConfigurationOperations"	
	endpoint	address="win" bindingConfiguration="WinBinding" binding="wsFederationHttpBinding" contract="BMS.ServiceContracts.IConfigurationOperations"		address="win" bindingConfiguration="Win Binding" binding="wsFederationHttp Binding" contract="BMS.ServiceContracts.IConfigurationOperations"	
	endpoint	contract="IMetadataExchange" binding="mexHttpBinding" address="mex"		contract="IMetadataExchange" binding="mexHttpBinding" address="mex"	
	endpoint	address="unsec" binding="basicHttpBinding" contract="BMS.ServiceContracts.IConfigurationOperations"		address="unsec" binding="basicHttpBinding" contract="BMS.ServiceContracts.IConfigurationOperations"	
	service	name="InfoWorld.Security.Authorization.AuthorizationSubscriber.AuthorizationSubscriber" behaviorConfiguration="ServiceBehavior"		name="InfoWorld.Security.Authorization.AuthorizationSubscriber.AuthorizationSubscriber" behaviorConfiguration="ServiceBehavior"	
	host\base\baseAddresses\add	baseAddress="http://<ServerAddress>25:16050/BMS/AuthorizationSubscriber"		baseAddress="http://localhost:16050/BMS/AuthorizationSubscriber"	

Section	Configuration Key/Name	Configuration values (ex.)			Description
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.config	BMS.ServiceHost.config	
	endpoint	address="" binding="wsFederationHttpBinding" bindingConfiguration="WinBinding" contract="InfoWorld.Security.Authorization.AuthorizationSubscriber.IAuthorizationSubscriber"		address="" binding="wsFederationHttpBinding" bindingConfiguration="Win Binding" contract="InfoWorld.Security.Authorization.AuthorizationSubscriber.IAuthorizationSubscriber"	
	service		name="TransferFlow" behaviorConfiguration="WorkflowService"	name="TransferFlow" behaviorConfiguration="WorkflowService"	
	host\base\baseAddresssesladd		baseAddress="http://<ServerAddress>26:16050/TransferWF"	baseAddress="http://localhost:16050/TransferWF"	
	endpoint		address="" bindingConfiguration="ServiceBinding" binding="wsFederationHttpBinding" contract="BMS.Workflows.WF.ITransferFlow"	address="" bindingConfiguration="ServiceBinding" binding="wsFederationHttpBinding" contract="BMS.Workflows.WF.ITransferFlow"	
	endpoint		address="win" bindingConfiguration="WinBinding" binding="wsFederationHttpBinding" contract="BMS.Workflows.WF.ITransferFlow"	address="win" bindingConfiguration="Win Binding" binding="wsFederationHttpBinding" contract="BMS.Workflows.WF.ITransferFlow"	
	endpoint		contract="IMetadataExchange" binding="mexHttpBinding" address="mex"	contract="IMetadataExchange" binding="mexHttpBinding" address="mex"	

Section	Configuration Key/Name	Configuration values (ex.)			Description
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.config	BMS.ServiceHost.config	
	endpoint		address="unsec" binding="basicHttpBinding" contract="BMS.Workflows.WF.ITransferFlow"	address="unsec" binding="basicHttpBinding" contract="BMS.Workflows.WF.ITransferFlow"	
	service		name="WaitingListFlow" behaviorConfiguration="WorkflowService"	name="WaitingListFlow" behaviorConfiguration="WorkflowService"	
	host\base\baseAddresses\add		baseAddress="http://<ServerAddress>26:16050/WaitingListWF"	baseAddress="http://localhost:16050/WaitingListWF"	
	endpoint		address="" bindingConfiguration="ServiceBinding" binding="wsFederationHttpBinding" contract="BMS.Workflows.WF.IWaitingListFlow"	address="" bindingConfiguration="ServiceBinding" binding="wsFederationHttpBinding" contract="BMS.Workflows.WF.IWaitingListFlow"	
	endpoint		address="win" bindingConfiguration="WinBinding" binding="wsFederationHttpBinding" contract="BMS.Workflows.WF.IWaitingListFlow"	address="win" bindingConfiguration="Win Binding" binding="wsFederationHttp Binding" contract="BMS.Workflows.WF.IWaitingListFlow"	
	endpoint		contract="IMetadataExchange" binding="mexHttpBinding" address="mex"	contract="IMetadataExchange" binding="mexHttpBinding" address="mex"	
	endpoint		address="unsec" binding="basicHttpBinding" contract="BMS.Workflows.WF.IWaitingListFlow"	address="unsec" binding="basicHttpBinding" contract="BMS.Workflows.WF.IWaitingListFlow"	

Section	Configuration Key/Name	Configuration values (ex.)			Description
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.config	BMS.ServiceHost.config	
	service		name="BedUnavailableFlow" behaviorConfiguration="WorkflowService"	name="BedUnavailableFlow" behaviorConfiguration="WorkflowService"	
	host\base\baseAddress\ses\add		baseAddress="http://<ServerAddress>26:16050/BedUnavailableWF"	name="BedUnavailableFlow" behaviorConfiguration="WorkflowService"	
	endpoint		address="" bindingConfiguration="ServiceBinding" binding="wsFederationHttpBinding" contract="BMS.Workflows.WF.IBedUnavailableFlow"	address="" bindingConfiguration="ServiceBinding" binding="wsFederationHttpBinding" contract="BMS.Workflows.WF.IBedUnavailableFlow"	
	endpoint		address="win" bindingConfiguration="WinBinding" binding="wsFederationHttpBinding" contract="BMS.Workflows.WF.IBedUnavailableFlow"	address="win" bindingConfiguration="WinBinding" binding="wsFederationHttpBinding" contract="BMS.Workflows.WF.IBedUnavailableFlow"	
	endpoint		contract="IMetadataExchange" binding="mexHttpBinding" address="mex"	contract="IMetadataExchange" binding="mexHttpBinding" address="mex"	
	endpoint		address="unsec" binding="basicHttpBinding" contract="BMS.Workflows.WF.IBedUnavailableFlow"	address="unsec" binding="basicHttpBinding" contract="BMS.Workflows.WF.IBedUnavailableFlow"	

Section	Configuration Key/Name	Configuration values (ex.)			Description
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.config	BMS.ServiceHost.config	
	service		name="BMS.ServiceImplementation.VistaQueryCore" behaviorConfiguration="ServiceBehavior"	name="BMS.ServiceImplementation.VistaQueryCore" behaviorConfiguration="ServiceBehavior"	
	host\base\baseAddress\add		baseAddress="http://<ServerAddress>26:16050/VistaQuery"	baseAddress="http://localhost:16050/VistaQuery"	
	endpoint		address="" bindingConfiguration="ServiceBinding" binding="wsFederationHttpBinding" contract="BMS.ServiceContracts.IVistaWorkerQuery"	address="" bindingConfiguration="ServiceBinding" binding="wsFederationHttpBinding" contract="BMS.ServiceContracts.IVistaWorkerQuery"	
	endpoint		address="win" bindingConfiguration="WinBinding" binding="wsFederationHttpBinding" contract="BMS.ServiceContracts.IVistaWorkerQuery"	address="win" bindingConfiguration="WinBinding" binding="wsFederationHttpBinding" contract="BMS.ServiceContracts.IVistaWorkerQuery"	
	endpoint		contract="IMetadataExchange" binding="mexHttpBinding" address="mex"	contract="IMetadataExchange" binding="mexHttpBinding" address="mex"	
	endpoint		address="unsec" binding="basicHttpBinding" contract="BMS.ServiceContracts.IVistaWorkerQuery"	address="unsec" binding="basicHttpBinding" contract="BMS.ServiceContracts.IVistaWorkerQuery"	

Section	Configuration Key/Name	Configuration values (ex.)			Description
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.config	BMS.ServiceHost.config	
	service		name="BMS.VistaIntegration.HL7.ServiceImplementation.HL7OperationsCore" behaviorConfiguration="BasicBindingBehavior"	name="BMS.VistaIntegration.HL7.ServiceImplementation.HL7OperationsCore" behaviorConfiguration="BasicBindingBehavior"	
	host\base\baseAddress\add		baseAddress="http://<ServerAddress>26:16050/HL7Operations"	baseAddress="http://localhost:16050/HL7Operations"	
	endpoint		address="" bindingConfiguration="messagingBinding" binding="basicHttpBinding" contract="BMS.VistaIntegration.HL7.ServiceContracts.IHL7Operations"	address="" bindingConfiguration="messagingBinding" binding="basicHttpBinding" contract="BMS.VistaIntegration.HL7.ServiceContracts.IHL7Operations"	
	bindings\basicHttpBinding				
	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"	
	binding		name="subscriptionBinding" maxBufferSize="2147483647" maxReceivedMessageSize="2147483647" closeTimeout="00:10:00" openTimeout="00:10:00" receiveTimeout="00:15:00" sendTimeout="00:10:00"	name="subscriptionBinding" maxBufferSize="2147483647" 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.)			Description
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.config	BMS.ServiceHost.config	
	binding		name="messagingBinding" maxBufferSize="2147483647" maxReceivedMessageSize="2147483647" closeTimeout="00:10:00" openTimeout="00:10:00" receiveTimeout="00:15:00" sendTimeout="00:10:00"	name="messagingBinding" maxBufferSize="2147483647" maxReceivedMessageSize="2147483647" closeTimeout="00:10:00" openTimeout="00:10:00" receiveTimeout="00:15:00" sendTimeout="00:10:00"	
	readerQuotas		maxDepth="2147483647" maxStringContentLength="2147483647" maxArrayLength="2147483647" maxBytesPerRead="2147483647" maxNameTableCharCount="2147483647"	maxDepth="2147483647" maxStringContentLength="2147483647" maxArrayLength="2147483647" maxBytesPerRead="2147483647" maxNameTableCharCount="2147483647"	

Section	Configuration Key/Name	Configuration values (ex.)			Description
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.config	BMS.ServiceHost.config	
	binding		<pre> name="QuerySvcSoap" 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" </pre>	<pre> name="QuerySvcSoap" 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" </pre>	
	readerQuotas		<pre> maxDepth="32" maxStringContentLength="2147483647" maxArrayLength="2147483647" maxBytesPerRead="2147483647" maxNameTableCharCount="2147483647" </pre>	<pre> maxDepth="32" maxStringContentLength="2147483647" maxArrayLength="2147483647" maxBytesPerRead="2147483647" maxNameTableCharCount="2147483647" </pre>	
	security mode="None"				
	transport		<pre> clientCredentialType="None" proxyCredentialType="None" realm="" </pre>	<pre> clientCredentialType="None" proxyCredentialType="None" realm="" </pre>	

Section	Configuration Key/Name	Configuration values (ex.)			Description
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.config	BMS.ServiceHost.config	
	message			clientCredentialType="UserName" algorithmSuite="Default"	clientCredentialType="User Name" algorithmSuite="Default"
	binding		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="fa lse" hostNameComparisonMod e="StrongWildcard" maxBufferSize="2147483647" maxReceivedMessageSiz e="2147483647" messageEncoding="Text" textEncoding="utf-8" transferMode="Buffered" useDefaultWebProxy="tr ue"	
	readerQuotas		maxDepth="32" maxStringContentLength="2147483647" maxArrayLength="2147483647" maxBytesPerRead="2147483647" maxNameTableCharCount="2147483647"	maxDepth="32" maxStringContentLength="2147483647" maxArrayLength="2147483647" maxBytesPerRead="2147483647" maxNameTableCharCount="2147483647"	
	security mode="Transport"				

Section	Configuration Key/Name	Configuration values (ex.)			Description
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.config	BMS.ServiceHost.config	
	transport		clientCredentialType="None" proxyCredentialType="None" realm=""	clientCredentialType="None" proxyCredentialType="None" realm=""	
	wsFederationHttpBinding				
	binding		name="WSFederationHttpBinding_AuthenticatedService" maxReceivedMessageSize="2147483647" closeTimeout="00:10:00" openTimeout="00:10:00" receiveTimeout="00:15:00" sendTimeout="00:10:00"	name="WSFederationHttpBinding_AuthenticatedService" maxReceivedMessageSize="2147483647" closeTimeout="00:10:00" openTimeout="00:10:00" receiveTimeout="00:15:00" sendTimeout="00:10:00"	
	readerQuotas		maxDepth="32" maxStringContentLength="2147483647" maxArrayLength="2147483647" maxBytesPerRead="4096" maxNameTableCharCount="16384"	maxDepth="32" maxStringContentLength="2147483647" maxArrayLength="2147483647" maxBytesPerRead="4096" maxNameTableCharCount="16384"	
	security mode="Message"				
	message		algorithmSuite="Default" issuedKeyType="SymmetricKey" issuedTokenType="http://docs.oasis-open.org/wss/oasis-wss-saml-token-profile-1.1#SAMLV2.0" negotiateServiceCredential="false" establishSecurityContext="true"	algorithmSuite="Default" issuedKeyType="SymmetricKey" 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.)			Description
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.config	BMS.ServiceHost.config	
	issuer	address="http://<ServerAddress>25:16050/STS/mex"	address="http://<ServerAddress>25:16050/STS/" binding="wsHttpBinding" bindingConfiguration="wsUserName"	address="http://localhost:16050/STS/" binding="wsHttpBinding" bindingConfiguration="wsUserName"	
	identity\dns		value="IWHM3STS"	value="IWHM3STS"	
	binding	name="ServiceBinding" maxBufferPoolSize="2147483647" maxReceivedMessageSize="2147483647" closeTimeout="00:10:00" openTimeout="00:10:00" receiveTimeout="00:15:00" sendTimeout="00:10:00"	name="ServiceBinding" maxBufferPoolSize="2147483647" maxReceivedMessageSize="2147483647" closeTimeout="00:10:00" openTimeout="00:10:00" receiveTimeout="00:15:00" sendTimeout="00:10:00"	name="ServiceBinding" maxBufferPoolSize="2147483647" maxReceivedMessageSize="2147483647" closeTimeout="00:10:00" openTimeout="00:10:00" receiveTimeout="00:15:00" sendTimeout="00:10:00"	
	readerQuotas	maxDepth="32" maxStringContentLength="2147483647" maxArrayLength="2147483647" maxBytesPerRead="4096" maxNameTableCharCount="16384"	maxDepth="32" maxStringContentLength="2147483647" maxArrayLength="2147483647" maxBytesPerRead="4096" maxNameTableCharCount="16384"	maxDepth="32" maxStringContentLength="2147483647" maxArrayLength="2147483647" maxBytesPerRead="4096" maxNameTableCharCount="16384"	
	security mode="Message"				
	message issuedTokenType="http://docs.oasis-open.org/wss/oasis-wss-saml-token-profile-1.1#SAMLV2.0" negotiateServiceCredential="false" establishSecurityContext="true"	issuerMetadata address="http://<ServerAddress>25:16050/STS/mex"	issuerMetadata address="http://<ServerAddress>25:16050/STS/mex"	issuerMetadata address="http://localhost:16050/STS/mex"	

Section	Configuration Key/Name	Configuration values (ex.)			Description
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.config	BMS.ServiceHost.config	
	binding	<pre>name="WinBinding" maxBufferPoolSize="2147483647" maxReceivedMessageSize="2147483647" closeTimeout="00:10:00" openTimeout="00:10:00" receiveTimeout="00:15:00" sendTimeout="00:10:00"</pre>	<pre>name="WinBinding" maxBufferPoolSize="2147483647" maxReceivedMessageSize="2147483647" closeTimeout="00:10:00" openTimeout="00:10:00" receiveTimeout="00:15:00" sendTimeout="00:10:00"</pre>	<pre>name="WinBinding" maxBufferPoolSize="2147483647" maxReceivedMessageSize="2147483647" closeTimeout="00:10:00" openTimeout="00:10:00" receiveTimeout="00:15:00" sendTimeout="00:10:00"</pre>	
	readerQuotas	<pre>maxDepth="32" maxStringContentLength="2147483647" maxArrayLength="2147483647" maxBytesPerRead="4096" maxNameTableCharCount="16384"</pre>	<pre>maxDepth="32" maxStringContentLength="2147483647" maxArrayLength="2147483647" maxBytesPerRead="4096" maxNameTableCharCount="16384"</pre>	<pre>maxDepth="32" maxStringContentLength="2147483647" maxArrayLength="2147483647" maxBytesPerRead="4096" maxNameTableCharCount="16384"</pre>	
	security mode="Message"				
	message	<pre>issuedTokenType="http://docs.oasis-open.org/wss/oasis-wss-saml-token-profile-1.1#SAMLV2.0" negotiateServiceCredential="false" establishSecurityContext="true"</pre>	<pre>issuedTokenType="http://docs.oasis-open.org/wss/oasis-wss-saml-token-profile-1.1#SAMLV2.0" negotiateServiceCredential="false" establishSecurityContext="true"</pre>	<pre>issuedTokenType="http://docs.oasis-open.org/wss/oasis-wss-saml-token-profile-1.1#SAMLV2.0" negotiateServiceCredential="false" establishSecurityContext="true"</pre>	
	issuer	<pre>address="http://<ServerAddress>25:16050/STS/Windows" binding="wsHttpBinding" bindingConfiguration="StsWinBinding"</pre>	<pre>address="http://<ServerAddress>25:16050/STS/Windows" binding="wsHttpBinding" bindingConfiguration="StsWinBinding"</pre>	<pre>address="http://localhost:16050/STS/Windows" binding="wsHttpBinding" bindingConfiguration="StsWinBinding"</pre>	
	identity\servicePrincipalName	value="host/localhost"	value="host/localhost"	value="host/localhost"	

Section	Configuration Key/Name	Configuration values (ex.)			Description
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.config	BMS.ServiceHost.config	
	binding	name="WinBindingHttps" maxBufferPoolSize="2147483647" maxReceivedMessageSize="2147483647" closeTimeout="00:10:00" openTimeout="00:10:00" receiveTimeout="00:15:00" sendTimeout="00:10:00"	name="WinBindingHttps" maxBufferPoolSize="2147483647" maxReceivedMessageSize="2147483647" closeTimeout="00:10:00" openTimeout="00:10:00" receiveTimeout="00:15:00" sendTimeout="00:10:00"	name="WinBindingHttps" maxBufferPoolSize="2147483647" maxReceivedMessageSize="2147483647" closeTimeout="00:10:00" openTimeout="00:10:00" receiveTimeout="00:15:00" sendTimeout="00:10:00"	
	readerQuotas	maxDepth="32" maxStringContentLength="2147483647" maxArrayLength="2147483647" maxBytesPerRead="4096" maxNameTableCharCount="16384"	maxDepth="32" maxStringContentLength="2147483647" maxArrayLength="2147483647" maxBytesPerRead="4096" maxNameTableCharCount="16384"	maxDepth="32" maxStringContentLength="2147483647" maxArrayLength="2147483647" maxBytesPerRead="4096" maxNameTableCharCount="16384"	
	security mode="TransportWithMessageCredential"				
	message	issuedTokenType="http://docs.oasis-open.org/wss/oasis-wss-saml-token-profile-1.1#SAMLV2.0" negotiateServiceCredential="false" establishSecurityContext="true"	issuedTokenType="http://docs.oasis-open.org/wss/oasis-wss-saml-token-profile-1.1#SAMLV2.0" negotiateServiceCredential="false" establishSecurityContext="true"	issuedTokenType="http://docs.oasis-open.org/wss/oasis-wss-saml-token-profile-1.1#SAMLV2.0" negotiateServiceCredential="false" establishSecurityContext="true"	
	issuer	address="http://<ServerAddress>25:16050/STS/Windows" binding="wsHttpBinding" bindingConfiguration="StsWinBinding"	address="http://<ServerAddress>25:16050/STS/Windows" binding="wsHttpBinding" bindingConfiguration="StsWinBinding"	address="http://localhost:16050/STS/Windows" binding="wsHttpBinding" bindingConfiguration="StsWinBinding"	
	identity\servicePrincipalName	value="host/localhost"	value="host/localhost"	value="host/localhost"	
	wsHttpBinding				

Section	Configuration Key/Name	Configuration values (ex.)			Description
		Split Service			Combine Service
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.config	BMS.ServiceHost.config	
	binding	name="wsUserName" maxReceivedMessageSize="2147483647" closeTimeout="00:10:00" openTimeout="00:10:00" receiveTimeout="00:15:00" sendTimeout="00:10:00"			
	security mode="Message"				
	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"			Kerberos/NTLM
	security mode="Message"				
	message	clientCredentialType="UserName" negotiateServiceCredential="false" algorithmSuite="Default" establishSecurityContext="true"	clientCredentialType="UserName" negotiateServiceCredential="false" algorithmSuite="Default" establishSecurityContext="true"	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"	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"	
	security mode="Message"	name="StsWinBinding" closeTimeout="00:10:00" openTimeout="00:10:00" receiveTimeout="00:15:00" sendTimeout="00:10:00"			
	message	clientCredentialType="Windows" negotiateServiceCredential="true" establishSecurityContext="true"			
	binding	name="wsBindConf" maxReceivedMessageSize="2147483647" closeTimeout="00:10:00" openTimeout="00:10:00" receiveTimeout="00:15:00" sendTimeout="00:10:00"			
	client				

Section	Configuration Key/Name	Configuration values (ex.)			Description
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.config	BMS.ServiceHost.config	
	endpoint		address="http://vaausbmsweb26:87/QuerySvc.asmx" binding="basicHttpBinding" bindingConfiguration="QuerySvcSoap" contract="QuerySvcService.QuerySvcSoap" name="QuerySvcSoap"	address="http://vaausbmsweb76/mdws2/QuerySvc.asmx" binding="basicHttpBinding" bindingConfiguration="QuerySvcSoap" contract="QuerySvcService.QuerySvcSoap" name="QuerySvcSoap"	MDWS2
	endpoint		address="https://vaausnumweb22.aac.dva.va.gov/Inpatient.asmx" binding="basicHttpBinding" bindingConfiguration="QuerySvcSoapHttps" contract="BMS.ServicesWrapper.Proxy.InpatientSoap" name="InpatientSoap"	address="https://hceveah03:100/Inpatient.asmx" binding="basicHttpBinding" bindingConfiguration="QuerySvcSoapHttps" contract="BMS.ServicesWrapper.Proxy.InpatientSoap" name="InpatientSoap"	NUMI

Section	Configuration Key/Name	Configuration values (ex.)			Description
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.config	BMS.ServiceHost.config	
	endpoint		address="http://<ServerAddress>25:1 6050/PAP" behaviorConfiguration="ClientCredenti alsBehavior" binding="wsFederationHttpBinding" bindingConfiguration="WSFederation HttpBinding_AuthenticatedService" contract="InfoWorld.Security.Authoriz ation.PolicyAdministrationPoint.IAdmi nistrativeFunctions" name="PAP.AdministrativeFunctions"	address="http://localhost:1 6050/PAP" behaviorConfiguration="Cli entCredentialsBehavior" binding="wsFederationHttp Binding" bindingConfiguration="WS FederationHttpBinding_Aut henticatedService" contract="InfoWorld.Securi ty.Authorization.PolicyAdm inistrationPoint.IAdministra tiveFunctions" name="PAP.Administrative Functions"	PAP
	identity\dns		value="IWHM3Services"	value="IWHM3Services"	

Section	Configuration Key/Name	Configuration values (ex.)			Description
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.config	BMS.ServiceHost.config	
	endpoint		endpoint address="http://<ServerAddress>25:1 6050/PDP" behaviorConfiguration="ClientCredenti alsBehavior" binding="wsFederationHttpBinding" bindingConfiguration="WSFederation HttpBinding_AuthenticatedService" contract="InfoWorld.Security.PolicyDe cisionPoint.IAuthorizationService" name="PDP.AuthorizationService"	address="http://localhost:1 6050/PDP" behaviorConfiguration="Cli entCredentialsBehavior" binding="wsFederationHttp Binding" bindingConfiguration="WS FederationHttpBinding_Aut henticatedService" contract="InfoWorld.Securi ty.PolicyDecisionPoint.IAut horizationService" name="PDP.Authorization Service"	PDP
	identity\dns		value="IWHM3Services"	value="IWHM3Services"	

Section	Configuration Key/Name	Configuration values (ex.)			Description
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.config	BMS.ServiceHost.config	
	endpoint		address="http://<ServerAddress>25:1 6050/PAP" behaviorConfiguration="WindowsClientCredentials" binding="wsFederationHttpBinding" bindingConfiguration="WinBinding" contract="InfoWorld.Security.Authorization.PolicyAdministrationPoint.IAdministrativeFunctions" name="PAP.AdministrativeFunctions.Windows"	address="http://localhost:1 6050/PAP" behaviorConfiguration="WindowsClientCredentials" binding="wsFederationHttpBinding" bindingConfiguration="WinBinding" contract="InfoWorld.Security.Authorization.PolicyAdministrationPoint.IAdministrativeFunctions" name="PAP.AdministrativeFunctions.Windows"	PAP: Windows authentication
	identity\dns		value="IWHM3Services"	value="IWHM3Services"	

Section	Configuration Key/Name	Configuration values (ex.)			Description
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.config	BMS.ServiceHost.config	
	endpoint		address="http://<ServerAddress>25:1 6050/PDP" behaviorConfiguration="WindowsClientCredentials" binding="wsFederationHttpBinding" bindingConfiguration="WinBinding" contract="InfoWorld.Security.PolicyDecisionPoint.IAuthorizationService" name="PDP.AuthorizationService.Windows"	address="http://localhost:1 6050/PDP" behaviorConfiguration="WindowsClientCredentials" binding="wsFederationHttpBinding" bindingConfiguration="WinBinding" contract="InfoWorld.Security.PolicyDecisionPoint.IAuthorizationService" name="PDP.AuthorizationService.Windows"	PDP: Windows authentication
	identity\dns		value="IWHM3Services"	value="IWHM3Services"	

Section	Configuration Key/Name	Configuration values (ex.)			Description
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.config	BMS.ServiceHost.config	
	endpoint		address="http://<ServerAddress>26:1 6050/QueryFunctions" behaviorConfiguration="ClientCredenti alsBehavior" binding="wsFederationHttpBinding" bindingConfiguration="WSFederation HttpBinding_AuthenticatedService" name="EIS.QueryFunctions" contract="InfoWorld.EIS.IQueryFunc tions"	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 ueyFunctions"	EIS: QueryFunction s
	identity\dns		value="IWHM3Services"	value="IWHM3Services"	

Section	Configuration Key/Name	Configuration values (ex.)			Description
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.config	BMS.ServiceHost.config	
	endpoint		address="http://<ServerAddress>26:1 6050/QueryFunctions" behaviorConfiguration="WindowsClientCredentials" binding="wsFederationHttpBinding" bindingConfiguration="WinBinding" contract="InfoWorld.EIS.IQueryFunctions" name="EIS.QueryFunctions.Windows"	address="http://localhost:1 6050/QueryFunctions" behaviorConfiguration="WindowsClientCredentials" binding="wsFederationHttpBinding" bindingConfiguration="WinBinding" contract="InfoWorld.EIS.IQueryFunctions" name="EIS.QueryFunctions.Windows"	EIS: Windows authentication
	identity\dns		value="IWHM3Services"	value="IWHM3Services"	

Section	Configuration Key/Name	Configuration values (ex.)			Description
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.config	BMS.ServiceHost.config	
	endpoint		address="http://<ServerAddress>26:1 6050/EntityManagement" behaviorConfiguration="ClientCredenti alsBehavior" binding="wsFederationHttpBinding" name="EIS.EntityManagement" bindingConfiguration="WSFederation HttpBinding_AuthenticatedService" contract="InfoWorld.EIS.IEntityManag ement"	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: EntityManage ment
	identity\dns		value="IWHM3Services"	value="IWHM3Services"	

Section	Configuration Key/Name	Configuration values (ex.)			Description
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.config	BMS.ServiceHost.config	
	endpoint		address="http://<ServerAddress>26:1 6050/EntityManagement" behaviorConfiguration="WindowsClientCredentials" binding="wsFederationHttpBinding" name="EIS.EntityManagement.Winds" bindingConfiguration="WinBinding" contract="InfoWorld.EIS.IEntityManagement"	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: Windows authentication
	identity\dns		value="IWHM3Services"	value="IWHM3Services"	
	endpoint		address="http://<ServerAddress>26:1 6050/CTSVocabularyRuntime" name="EVS.CTSVocabularyRuntime" binding="basicHttpBinding" bindingConfiguration="EVSBinding" contract="InfoWorld.EVS.CTSVAPI.R untimeOperations" behaviorConfiguration="DataContract Serializer"	address="http://localhost:1 6050/CTSVocabularyRunti me" name="EVS.CTSVocabula ryRuntime" binding="basicHttpBinding " bindingConfiguration="EV SBinding" contract="InfoWorld.EVS. CTSVAPI.RuntimeOperati ons" behaviorConfiguration="Da taContractSerializer"	EVS

Section	Configuration Key/Name	Configuration values (ex.)			Description
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.config	BMS.ServiceHost.config	
	endpoint		address="http://<ServerAddress>26:1 6050/CTS VocabularyBrowse" name="EVS.CTS VocabularyBrowse" binding="basicHttpBinding" bindingConfiguration="EVSBinding" contract="InfoWorld.EVS.CTS API.BrowserOperations" behaviorConfiguration="DataContractSerializer"	address="http://localhost:1 6050/CTS VocabularyBrowse" name="EVS.CTS VocabularyBrowse" binding="basicHttpBinding" bindingConfiguration="EVSBinding" contract="InfoWorld.EVS.CTS API.BrowserOperations" behaviorConfiguration="DataContractSerializer"	
	endpoint		address="http://<ServerAddress>26:1 6050/CTS MessageBrowse" name="EVS.CTS MessageBrowse" binding="basicHttpBinding" bindingConfiguration="EVSBinding" contract="InfoWorld.EVS.CTS API.BrowserOperations" behaviorConfiguration="DataContractSerializer"	address="http://localhost:1 6050/CTS MessageBrowse" name="EVS.CTS MessageBrowse" binding="basicHttpBinding" bindingConfiguration="EVSBinding" contract="InfoWorld.EVS.CTS API.BrowserOperations" behaviorConfiguration="DataContractSerializer"	
	endpoint		address="http://<ServerAddress>26:1 6050/CTS MessageRuntime" name="EVS.CTS MessageRuntime" binding="basicHttpBinding" bindingConfiguration="EVSBinding" contract="InfoWorld.EVS.CTS API.RuntimeOperations" behaviorConfiguration="DataContractSerializer"	address="http://localhost:1 6050/CTS MessageRuntime" name="EVS.CTS MessageRuntime" binding="basicHttpBinding" bindingConfiguration="EVSBinding" contract="InfoWorld.EVS.CTS API.RuntimeOperations" behaviorConfiguration="DataContractSerializer"	

Section	Configuration Key/Name	Configuration values (ex.)			Description
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.config	BMS.ServiceHost.config	
				taContractSerializer"	
	endpoint		address="http://<ServerAddress>26:16050/CTSMessageEdit" name="EVS.CTSMessageEdit" binding="basicHttpBinding" bindingConfiguration="EVSBinding" contract="InfoWorld.EVS.CTSEdit.IMessageEdit" behaviorConfiguration="DataContractSerializer"	address="http://localhost:16050/CTSMessageEdit" name="EVS.CTSMessageEdit" binding="basicHttpBinding" bindingConfiguration="EVSBinding" contract="InfoWorld.EVS.CTSEdit.IMessageEdit" behaviorConfiguration="DataContractSerializer"	
	endpoint		address="http://<ServerAddress>26:16050/CTSVocabularyEdit" name="EVS.CTSVocabularyEdit" binding="basicHttpBinding" bindingConfiguration="EVSBinding" contract="ICTSEditVocabulary"	address="http://localhost:16050/CTSVocabularyEdit" name="EVS.CTSVocabularyEdit" binding="basicHttpBinding" bindingConfiguration="EVSBinding" contract="ICTSEditVocabulary"	

Section	Configuration Key/Name	Configuration values (ex.)			Description
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.config	BMS.ServiceHost.config	
	endpoint		address="http://<ServerAddress>26:1 6050/BMSQuery" behaviorConfiguration="ClientCredenti alsBehavior" binding="wsFederationHttpBinding" bindingConfiguration="WSFederation HttpBinding_AuthenticatedService" name="BMS.BMSQuery" contract="BMS.ServiceContracts.IBed ManagerQuery"	address="http://localhost:1 6050/BMSQuery" behaviorConfiguration="Cli entCredentialsBehavior" binding="wsFederationHttp Binding" bindingConfiguration="WS FederationHttpBinding_Aut henticatedService" name="BMS.BMSQuery" contract="BMS.ServiceCo tracts.IBedManagerQuery "	BMS Query
	identity\dns		value="IWHM3Services"	value="IWHM3Services"	

Section	Configuration Key/Name	Configuration values (ex.)			Description
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.config	BMS.ServiceHost.config	
	endpoint		address="http://<ServerAddress>26:1 6050/BMSQuery" behaviorConfiguration="WindowsClientCredentials" binding="wsFederationHttpBinding" bindingConfiguration="WinBinding" name="BMS.BMSQuery.Windows" contract="BMS.ServiceContracts.IBedManagerQuery"	address="http://localhost:1 6050/BMSQuery" behaviorConfiguration="WindowsClientCredentials" binding="wsFederationHttpBinding" bindingConfiguration="Win Binding" name="BMS.BMSQuery.W indows" contract="BMS.ServiceCo ntracts.IBedManagerQuery "	BMS Query: Windows
	identity\dns		value="IWHM3Services"	value="IWHM3Services"	

Section	Configuration Key/Name	Configuration values (ex.)			Description
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.config	BMS.ServiceHost.config	
	endpoint		address="http://<ServerAddress>26:1 6050/BMSOperations" behaviorConfiguration="ClientCredenti alsBehavior" binding="wsFederationHttpBinding" bindingConfiguration="WSFederation HttpBinding_AuthenticatedService" name="BMS.BMSOperations" contract="BMS.ServiceContracts.IBed ManagerOperations"	address="http://localhost:1 6050/BMSOperations" behaviorConfiguration="Cli entCredentialsBehavior" binding="wsFederationHttp Binding" bindingConfiguration="WS FederationHttpBinding_Aut henticatedService" name="BMS.BMSOperatio ns" contract="BMS.ServiceCo tracts.IBedManagerOper ations"	BMS Operations
	identity\dns		value="IWHM3Services"	value="IWHM3Services"	

Section	Configuration Key/Name	Configuration values (ex.)			Description
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.config	BMS.ServiceHost.config	
	endpoint		address="http://<ServerAddress>26:1 6050/BMSOperations" behaviorConfiguration="WindowsClientCredentials" binding="wsFederationHttpBinding" bindingConfiguration="WinBinding" name="BMS.BMSOperations.Windows" contract="BMS.ServiceContracts.IBedManagerOperations"	address="http://localhost:1 6050/BMSOperations" behaviorConfiguration="WindowsClientCredentials" binding="wsFederationHttpBinding" bindingConfiguration="WinBinding" name="BMS.BMSOperations.Windows" contract="BMS.ServiceContracts.IBedManagerOperations"	BMS Operations: Windows
	identity\dns		value="IWHM3Services"	value="IWHM3Services"	

Section	Configuration Key/Name	Configuration values (ex.)			Description
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.config	BMS.ServiceHost.config	
	endpoint		address="http://<ServerAddress>25:1 6050/BMSConfigurationOperations" behaviorConfiguration="ClientCredenti alsBehavior" binding="wsFederationHttpBinding" bindingConfiguration="WSFederation HttpBinding_AuthenticatedService" name ="BMS.BMSConfigurationOperations" contract="BMS.ServiceContracts.ICon figurationOperations"	address="http://localhost:1 6050/BMSConfigurationOp erations" behaviorConfiguration="Cli entCredentialsBehavior" binding="wsFederationHttp Binding" bindingConfiguration="WS FederationHttpBinding_Aut henticatedService" name ="BMS.BMSConfigurati onOperations" contract="BMS.ServiceCo ntracts.IConfigurationOper ations"	BMS Configuration
	identity\dns		value="IWHM3Services"	value="IWHM3Services"	

Section	Configuration Key/Name	Configuration values (ex.)			Description
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.config	BMS.ServiceHost.config	
	endpoint		address="http://<ServerAddress>25:1 6050/BMSConfigurationOperations" behaviorConfiguration="WindowsClientCredentials" binding="wsFederationHttpBinding" bindingConfiguration="WinBinding" name ="BMS.BMSConfigurationOperations. Windows" contract="BMS.ServiceContracts.IConfigurationOperations"	address="http://localhost:1 6050/BMSConfigurationOperations" behaviorConfiguration="WindowsClientCredentials" binding="wsFederationHttpBinding" bindingConfiguration="WinBinding" name ="BMS.BMSConfigurationOperations. Windows" contract="BMS.ServiceContracts.IConfigurationOperations"	BMS Configuration: Windows
	identity\dns		value="IWHM3Services"	value="IWHM3Services"	

Section	Configuration Key/Name	Configuration values (ex.)			Description
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.config	BMS.ServiceHost.config	
	endpoint		address="http://<ServerAddress>26:1 6050/BedUnavailableWF" behaviorConfiguration="ClientCredenti alsBehavior" binding="wsFederationHttpBinding" bindingConfiguration="WSFederation HttpBinding_AuthenticatedService" name="BMSWF.IBedUnavailableFlow" contract="BMS.Workflows.WF.IBedUn availableFlow"	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 Unavailable Workflow
	identity\dns		value="IWHM3Services"	value="IWHM3Services"	

Section	Configuration Key/Name	Configuration values (ex.)			Description
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.config	BMS.ServiceHost.config	
	endpoint		address="http://<ServerAddress>26:1 6050/BedUnavailableWF" behaviorConfiguration="WindowsClientCredentials" binding="wsFederationHttpBinding" bindingConfiguration="WinBinding" name="BMSWF.IBedUnavailableFlow.Windows" contract="BMS.Workflows.WF.IBedUnavailableFlow"	address="http://localhost:1 6050/BedUnavailableWF" behaviorConfiguration="WindowsClientCredentials" binding="wsFederationHttpBinding" bindingConfiguration="WinBinding" name="BMSWF.IBedUnavailableFlow.Windows" contract="BMS.Workflows.WF.IBedUnavailableFlow"	Bed Unavailable Workflow: Windows
	identity\dns		value="IWHM3Services"	value="IWHM3Services"	

Section	Configuration Key/Name	Configuration values (ex.)			Description
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.config	BMS.ServiceHost.config	
	endpoint		address="http://<ServerAddress>26:1 6050/WaitingListWF" behaviorConfiguration="ClientCredenti alsBehavior" binding="wsFederationHttpBinding" bindingConfiguration="WSFederation HttpBinding_AuthenticatedService" name="BMSWF.IWaitingListFlow" contract="BMS.Workflows.WF.IWaitin gListFlow"	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"	Waiting List Workflow
	identity\dns		value="IWHM3Services"	value="IWHM3Services"	

Section	Configuration Key/Name	Configuration values (ex.)			Description
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.config	BMS.ServiceHost.config	
	endpoint		address="http://<ServerAddress>26:1 6050/WaitingListWF" behaviorConfiguration="WindowsClientCredentials" binding="wsFederationHttpBinding" bindingConfiguration="WinBinding" name="BMSWF.IWaitingListFlow.Windows" contract="BMS.Workflows.WF.IWaitingListFlow"	address="http://localhost:1 6050/WaitingListWF" behaviorConfiguration="ClientCredentialsBehavior" binding="wsFederationHttpBinding" bindingConfiguration="WS FederationHttpBinding_AuthenticatedService" name="BMSWF.IWaitingListFlow" contract="BMS.Workflows.WF.IWaitingListFlow"	Waiting List Workflow
	identity\dns		value="IWHM3Services"	value="IWHM3Services"	

Section	Configuration Key/Name	Configuration values (ex.)			Description
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.config	BMS.ServiceHost.config	
	endpoint		address="http://<ServerAddress>26:1 6050/VistaQuery" behaviorConfiguration="ClientCredenti alsBehavior" binding="wsFederationHttpBinding" bindingConfiguration="WSFederation HttpBinding_AuthenticatedService" contract="BMS.ServiceContracts.IVist aWorkerQuery" name ="BMS.VistaQuery"	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"	Waiting List Workflow: Windows
	identity\dns		value="IWHM3Services"	value="IWHM3Services"	

Section	Configuration Key/Name	Configuration values (ex.)			Description
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.config	BMS.ServiceHost.config	
	endpoint		address="http://<ServerAddress>26:1 6050/VistaQuery" behaviorConfiguration="WindowsClientCredentials" binding="wsFederationHttpBinding" bindingConfiguration="WinBinding" contract="BMS.ServiceContracts.IVistaWorkerQuery" name ="BMS.VistaQuery.Windows"	address="http://localhost:1 6050/VistaQuery" behaviorConfiguration="WindowsClientCredentials" binding="wsFederationHttpBinding" bindingConfiguration="WinBinding" contract="BMS.ServiceContracts.IVistaWorkerQuery" name ="BMS.VistaQuery.Windows"	BMS Vista Query - Configuration Windows
	identity\dns		value="IWHM3Services"	value="IWHM3Services"	

Section	Configuration Key/Name	Configuration values (ex.)			Description
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.config	BMS.ServiceHost.config	
	endpoint		address="http://vaww.bms.va.gov:80/CacheService.svc" behaviorConfiguration="WindowsClientCredentials" binding="wsFederationHttpBinding" bindingConfiguration="WinBinding" name="BMS.Cache.Windows" contract="BMS.ServiceContracts.ICacheService"	address="http://vaausbmsweb75.aac.dva.va.gov:80/CacheService.svc" behaviorConfiguration="WindowsClientCredentials" binding="wsFederationHttpBinding" bindingConfiguration="Win Binding" name="BMS.Cache.Windows" contract="BMS.ServiceContracts.ICacheService"	BMS Web Cache - Client: Windows
	identity\dns		value="IWHM3Services"	value="IWHM3Services"	

Section	Configuration Key/Name	Configuration values (ex.)			Description
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.config	BMS.ServiceHost.config	
	endpoint		address="https://vaww.bms.va.gov:443/CacheService.svc" behaviorConfiguration="WindowsClientCredentials" binding="wsFederationHttpBinding" bindingConfiguration="WinBindingHttps" name="BMS.Cache.Windows.Https" contract="BMS.ServiceContracts.ICacheService"	address="https://vaausbm.sweb75.aac.dva.va.gov:443/CacheService.svc" behaviorConfiguration="WindowsClientCredentials" binding="wsFederationHttpBinding" bindingConfiguration="WinBindingHttps" name="BMS.Cache.Windows.Https" contract="BMS.ServiceContracts.ICacheService"	BMS Web Cache - Client: Windows
	identity\dns		value="IWHM3Services"	value="IWHM3Services"	

Section	Configuration Key/Name	Configuration values (ex.)			Description
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.config	BMS.ServiceHost.config	
	endpoint		address="http://<ServerAddress>26:1 6050/BMSCache" behaviorConfiguration="ClientCredenti alsBehavior" binding="wsFederationHttpBinding" bindingConfiguration="WSFederation HttpBinding_AuthenticatedService" name="BMS.BMSCache" contract="BMS.ServiceContracts.IBed ManagerCache"	address="http://localhost:1 6050/BMSCache" behaviorConfiguration="Cli entCredentialsBehavior" binding="wsFederationHttp Binding" bindingConfiguration="WS FederationHttpBinding_Aut henticatedService" name="BMS.BMSCache" contract="BMS.ServiceCo tracts.IBedManagerCach e"	BMS Cache
	identity\dns		value="IWHM3Services"	value="IWHM3Services"	

Section	Configuration Key/Name	Configuration values (ex.)			Description
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.config	BMS.ServiceHost.config	
	endpoint		address="http://<ServerAddress>26:1 6050/BMSCache" behaviorConfiguration="WindowsClientCredentials" binding="wsFederationHttpBinding" bindingConfiguration="WinBinding" contract="BMS.ServiceContracts.IBedManagerCache" name="BMS.BMSCache.Windows"	address="http://localhost:1 6050/BMSCache" behaviorConfiguration="WindowsClientCredentials" binding="wsFederationHttpBinding" bindingConfiguration="WinBinding" contract="BMS.ServiceContracts.IBedManagerCache" name="BMS.BMSCache.Windows"	
	identity\dns		value="IWHM3Services"	value="IWHM3Services"	
	behaviors				
	serviceBehaviors				
	behavior	name="ServiceBehavior"			
	serviceMetadata	httpGetEnabled="true"			
	serviceDebug	includeExceptionDetailInFaults="true"			
	dataContractSerializer	type="InfoWorld.Security.Saml20.Saml20ServiceCredentials, Saml20"			
	serviceCredentials	type="InfoWorld.Security.Saml20.Saml20ServiceCredentials, Saml20"			
	serviceCertificate	findValue="IWHM3Services" storeLocation="LocalMachine" storeName="My" x509FindType="FindBySubjectName"			
	issuedTokenAuthentication\knownCertificates\add	findValue="IWHM3STS" storeLocation="LocalMachine" storeName="My" x509FindType="FindBySubjectName"			
	behavior name="WorkflowServ				

Section	Configuration Key/Name	Configuration values (ex.)			Description
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.config	BMS.ServiceHost.config	
	ce"				
	serviceMetadata httpGetEnabled="true"				
	serviceThrottling			maxConcurrentCalls="1500" maxConcurrentSessions="1500"	maxConcurrentCalls="1000" maxConcurrentSessions="1000"
	serviceDebug			includeExceptionDetailInFaults="true"	includeExceptionDetailInFaults="true"
	serviceCredentials			type="InfoWorld.Security.Saml20.Saml20ServiceCredentials, Saml20"	type="InfoWorld.Security.Saml20.Saml20ServiceCredentials, Saml20"
	serviceCertificate			findValue="IWHM3Services" storeLocation="LocalMachine" storeName="My" x509FindType="FindBySubjectName"	findValue="IWHM3Services" storeLocation="LocalMachine" storeName="My" x509FindType="FindBySubjectName"
	issuedTokenAuthentication\knownCertificates\add			findValue="IWHM3STS" storeLocation="LocalMachine" storeName="My" x509FindType="FindBySubjectName"	findValue="IWHM3STS" storeLocation="LocalMachine" storeName="My" x509FindType="FindBySubjectName"

Section	Configuration Key/Name	Configuration values (ex.)			Description
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.config	BMS.ServiceHost.config	
	sqlWorkflowInstanceStore		<pre>connectionString="Data Source=<DatabaseAddress>;Network Library=DBMSSOCN;Initial Catalog=BMS_InstanceStore;Integrated Security=True;Asynchronous Processing=True;Pooling=true;Min Pool Size=0;Max Pool Size=250;"' instanceEncodingOption="None" instanceCompletionAction="DeleteAll" instanceLockedExceptionAction="Basic Retry" hostLockRenewalPeriod="00:00:30" runnableInstancesDetectionPeriod="0 :00:02"</pre>	<pre>connectionString="Data Source=<DatabaseAddress>;Initial Catalog=BMS_InstanceSt ore;Integrated Security=True;Asynchrono us Processing=True;Pooling= true;Min Pool Size=0;Max Pool Size=100;"' instanceEncodingOption="None" instanceCompletionAction = "DeleteAll" instanceLockedExceptionA ction="BasicRetry" hostLockRenewalPeriod="0 :00:30" runnableInstancesDetectio nPeriod="00:00:02"</pre>	
	workflowIdle		<pre>timeToUnload="00:00:00" timeToPersist="00:00:00"</pre>	<pre>timeToUnload="0"</pre>	
	sqlWorkflowInstanceStorePromotion		<pre>connectionString="Data Source=<DatabaseAddress>;Network Library=DBMSSOCN;Initial Catalog=BMS_InstanceStore;Integrated Security=True;Pooling=true;Min Pool Size=0;Max Pool Size=250;"'</pre>	<pre>connectionString="Data Source=<DatabaseAddress>;Initial Catalog=BMS_InstanceSt ore;Integrated Security=True;Pooling=tr ue;Min Pool Size=0;Max Pool Size=100;"'</pre>	
	promotionSets				

Section	Configuration Key/Name	Configuration values (ex.)			Description
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.config	BMS.ServiceHost.config	
	promotionSet name="AdmissionData"		<pre><promotedValue propertyName="AdmissionId"/> <promotedValue propertyName="PatientName"/> <promotedValue propertyName="LocationName"/></pre>	<pre><promotedValue propertyName="Admission Id"/> <promotedValue propertyName="PatientNa me"/> <promotedValue propertyName="LocationN ame"/></pre>	
	promotionSet name="TransferData"		promotedValue propertyName="PatientSSN"	promotedValue propertyName="PatientSS N"	
	behavior name="BasicBindingBehavior"		<pre><dataContractSerializer maxItemsInObjectGraph="214748364 7"/> <serviceDebug includeExceptionDetailInFaults="true"/> <serviceMetadata httpGetEnabled="true"/></pre>	<pre><dataContractSerializer maxItemsInObjectGraph="2147483647"/> <serviceDebug includeExceptionDetailInF aults="true"/> <serviceMetadata httpGetEnabled="true"/></pre>	
	endpointBehaviors				
	behavior		name="ClientCredentialsBehavior"	name="ClientCredentialsB ehavior"	
	dataContractSerializer		maxItemsInObjectGraph="214748364 7"	maxItemsInObjectGraph="2147483647"	

Section	Configuration Key/Name	Configuration values (ex.)			Description
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.config	BMS.ServiceHost.config	
	durableIssuedTokenClientCredentials\serviceCertificate		x509FindType="FindBySubjectName" findValue="IWHM3Services" storeName="My" storeLocation="LocalMachine"	x509FindType="FindBySubjectName" findValue="IWHM3Services" storeName="My" storeLocation="LocalMachine"	
	authentication		revocationMode="NoCheck"	revocationMode="NoCheck"	
	scopedCertificates\add		targetUri="http://<ServerAddress>25:16050/STS/" x509FindType="FindBySubjectName" findValue="IWHM3STS" storeName="My" storeLocation="LocalMachine"	targetUri="http://localhost:16050/STS/" x509FindType="FindBySubjectName" findValue="IWHM3STS" storeName="My" storeLocation="LocalMachine"	
	durableIssuedToken		connectionString="Data Source=<DatabaseAddress>;Network Library=DBMSSOCN;Initial Catalog=BMS;Integrated Security=True;Pooling=true;Min Pool Size=0;Max Pool Size=250;" identifier="SessionID" isolationLevel="ReadCommitted"	connectionString="Data Source=<DatabaseAddress>;Initial Catalog=BMS;Integrated Security=True;Pooling=true;Min Pool Size=0;Max Pool Size=100;" identifier="SessionID" isolationLevel="ReadCommitted"	
	behavior		name="WindowsClientCredentials"	name="WindowsClientCredentials"	
	dataContractSerializer		maxItemsInObjectGraph="2147483647"	maxItemsInObjectGraph="2147483647"	
	clientCredentials		type="InfoWorld.Security.Authentication.CacheClientCredentials, SecurityTokenCache"	type="InfoWorld.Security.Authentication.CacheClient Credentials, SecurityTokenCache"	
	windows		allowNtlm="true"	allowNtlm="true"	
	serviceCertificate				

Section	Configuration Key/Name	Configuration values (ex.)			Description
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.config	BMS.ServiceHost.config	
	defaultCertificate		x509FindType="FindBySubjectName" findValue="IWHM3Services" storeName="My" storeLocation="LocalMachine"	x509FindType="FindBySubjectName" findValue="IWHM3Services" storeName="My" storeLocation="LocalMachine"	
	authentication		revocationMode="NoCheck"	revocationMode="NoCheck"	
	scopedCertificates\add		targetUri="http://<ServerAddress>25:1 6050/STS/Windows" x509FindType="FindBySubjectName" findValue="IWHM3STS" storeName="My" storeLocation="LocalMachine"	targetUri="http://localhost: 16050/STS/Windows" x509FindType="FindBySubjectName" findValue="IWHM3STS" storeName="My" storeLocation="LocalMachine"	
	behavior		name="DataContractSerializer"	name="DataContractSerializer"	
	dataContractSerializer		maxItemsInObjectGraph="214748364 7"	maxItemsInObjectGraph="2147483647"	
	extensions\behaviorE xtensions				
	add		name="sqlWorkflowInstanceStorePromotion" type="BMS.Workflows.PropertyPromotionActivity.Configuration.SqlWorkflow InstanceStorePromotionElement, BMS.Workflows.PropertyPromotionAc tivity"	name="sqlWorkflowInstan ceStorePromotion" type="BMS.Workflows.Pro pertyPromotionActivity.C onfiguration.SqlWorkflowIns tanceStorePromotionEl ement, BMS.Workflows.PropertyP romotionActivity"	

Section	Configuration Key/Name	Configuration values (ex.)			Description
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.config	BMS.ServiceHost.config	
	add		name="errorHandler" type="BMS.Workflows.CustomActivities.Utils.WFErrorHandlerElement, BMS.Workflows.CustomActivities"	name="errorHandler" type="BMS.Workflows.CustomActivities.Utils.WFErrorHandlerElement, BMS.Workflows.CustomActivities"	
	add		name="durableIssuedTokenClientCredentials" type="BMS.Security.Configuration.DurableIssuedTokenClientCredentialsConfigHandler, BMS.Security"	name="durableIssuedTokenClientCredentials" type="BMS.Security.Configuration.DurableIssuedTokenClientCredentialsConfigHandler, BMS.Security"	
	log4net				set the level value to ALL or DEBUG in order to trace method entry and exit times
	root	value="OFF"			
	level value	"SQLAppender"			
	appender-ref ref	name="FileAppender" type="log4net.Appender.FileAppender"			
	appender	name="FileAppender" type="log4net.Appender.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,log4netAsync"			
	bufferSize	value="1000"			
	connectionType	value="System.Data.SqlClient.SqlConnection, System.Data, Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"			

Section	Configuration Key/Name	Configuration values (ex.)			Description
		Split Service		Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.config	BMS.ServiceHost.config	
	connectionString	value="data source=<DatabaseAddress>;Net work Library=DBMSSOCN;initial catalog=BMS_LOG;integrated security=SSPI;persist security info=False;Pooling=true;Min Pool Size=0;Max Pool Size=250;"	value="data source=<DatabaseAddress>;Network Library=DBMSSOCN;initial catalog=BMS_LOG;integrated security=SSPI;persist security info=False;Pooling=true;Min Pool Size=0;Max Pool Size=250;"	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;"	
	commandText	value="INSERT INTO Log ([Date],[Thread],[Level],[Logger],[Message],[Exception]) VALUES (@log_date, @thread, @log_level, @logger, @message, @exception)"			
	parameter				
	parameterName	value="@log_date"			
	dbType	value="DateTime"			
	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"			

Section	Configuration Key/Name	Configuration values (ex.)				Description
		Split Service			Combine Service	
		BMS.ServiceHost.config	BMS.VI.ServiceHost.exe.config	BMS.ServiceHost.config		
	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					
	parameterName	value="@exception"				
	dbType	value="String"				
	size	value="2000"				
	layout	type="log4net.Layout.ExceptionLayout"				
	filter	type="log4net.Filter.StringMatchFilter"				do not log messages with durations under 00:00:00.00*
	stringToMatch	value="00:00:00.00"				
	acceptOnMatch	value="false"				
	filter	type="log4net.Filter.StringMatchFilter"				do not log entry messages as they are not relevant duration-wise
	stringToMatch	value="Entry"				
	acceptOnMatch	value="false"				
	startup					
	supportedRuntime	version="v4.0" sku=".NETFramework,Version=v4.0.1"				
	runtime\gcServer	enabled="true"				

Table 5: EIS Service Configuration Parameters

File	Section	Configuration key	Configuration values (ex.)	Description
EISService Implementation. dll config	configuration/ connectionStrings/ add	ConnectionString	Workstation id= vadbserver\sql2008\2;packet size=4096;data source= vadbserver\sql2008\2;persist security info=False;Initial Catalog=BMS_EIS:Integrated	Connection string for the connection to the BMS_EIS database.
		DatasetPath	Security=SSPI; DBRepository	Data Adapters (XML mapping files) path. 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
	configuration/ appSettings/ key	OverwriteCreateEntityId	true/false	
		NotificationIndicator	true/false	EIS services of changes produced on entities.
		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.

File	Section	Configuration key	Configuration values (ex.)	Description
configuration/system.serviceModel/behaviors/endpointBehaviors/behavior/clientCredentials/serviceCertificate/scopedCertificates/add		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.
		AuditSynchronousIndicator	true/false	Specifies if the Audit Service should be called synchronous or asynchronous.
	targetUri			
			http://vaserver:17050/STS/Windows	URI of STS certificate.
	address			
			http://vaserver:17050/STS/mex	STS metadata exchange URL used by ServiceBinding.
	address			
			http://vaserver:17050/STS/Windows	STS URL used by WinBinding.
	baseAddress		http://vaserver:17050/QueryFunctions	EIS Query Functions service endpoint address.
	baseAddress		http://vaserver:17050/Administration	EIS Administration service endpoint address.
	baseAddress		http://vaserver:17050/EntityManagement	EIS EntityManagement service endpoint address.

File	Section	Configuration key	Configuration values (ex.)	Description
	el/services/service/host/baseAddress/add			
	configuration/system.serviceModule/el/services/service/host/baseAddress/add	baseAddress	http://vaserver:17050/ServiceMetadataManagement	EIS ServiceMetadataManagement service endpoint address.
	configuration/system.serviceModule/el/services/service/host/baseAddress/add	baseAddress	http://vaserver:17050/BulkEntityManagement	EIS Bulk BulkEntityManagement service endpoint address.
	configuration/system.serviceModule/el/services/service/host/baseAddress/add	baseAddress	http://vaserver:17050/Subscribe	EIS Subscribe service endpoint address.
	configuration/system.serviceModule/el/services/service/host/baseAddress/add	baseAddress	http://vaserver:17050/LinkAlgorithmAdministration	EIS LinkAlgorithmAdministration service endpoint address.
	configuration/system.serviceModule/el/services/service/host/baseAddress/add	baseAddress	http://vaserver:17050/EIS/SubscriptionAdministration	EIS SubscriptionAdministration service endpoint address.
	configuration/system.serviceModule/el/services/service/host/baseAddress/add	baseAddress	http://vaserver:17050/Receive	EIS Receive service endpoint address.
	configuration/system.serviceModule/el/services/service/host/baseAddress/add	baseAddress	http://vaserver:17050/EIS/MessageAdministration	EIS MessageAdministration service endpoint address.
	configuration/system.serviceModule/el/services/service/host/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
MessageImpl.dll. config	configuration/ appSettings/ kev	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.
		TemporaryFolder	Temp	Temporary folder name.
		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.

File	Section	Configuration key	Configuration values (ex.)	Description
		StartSecurityEndpoints	true/false	Specifies if the secure endpoints are to be started.
		http://localhost:17050/CTSImport	EVS	EVS import from excel key.
		http://localhost:17050/CTSExport	EVS	EVS export to excel key.
	configuration/system.serviceModel/services/service/host/baseAddresses/add	baseAddress baseAddress	http://vaserver:17050/CTS VocabularyRuntime https://vaserver:17706/	CTS VocabularyRuntime service endpoint address (HTTP Protocol). CTS VocabularyRuntime service endpoint address (HTTPS Protocol).

File	Section	Configuration key	Configuration values (ex.)	Description
	add		CTS VocabularyRuntime	
	configuration/system.serviceModel/services/service/host/baseAddresses/add	baseAddress	http://vaserver:17050/CTSMapping	CTS Mapping service endpoint address (HTTP Protocol).
		baseAddress	https://vaserver:17706/CTSMapping	CTS Mapping service endpoint address (HTTPS Protocol).
	configuration/system.serviceModel/services/service/host/baseAddresses/add	baseAddress	http://vaserver:17050/CTS VocabularyBrowse	CTS VocabularyBrowse service endpoint address (HTTP Protocol).
		baseAddress	https://vaserver:17706/CTS VocabularyBrowse	CTS VocabularyBrowse service endpoint address (HTTPS Protocol).
	configuration/system.serviceModel/services/service/host/baseAddresses/add	baseAddress	http://vaserver:17050/CTSMassageRuntime	CTS MessageRuntime service endpoint address (HTTP Protocol).
		baseAddress	https://vaserver:17706/CTSMassageRuntime	CTS MessageRuntime service endpoint address (HTTPS Protocol).
	configuration/system.serviceModel/services/service/host/baseAddresses/add	baseAddress	http://vaserver:17050/CTSMassageBrowse	CTS MessageBrowse service endpoint address (HTTP Protocol).
		baseAddress	https://vaserver:17706/CTSMassageBrowse	CTS MessageBrowse service endpoint address (HTTPS Protocol).
	configuration/system.serviceModel/services/service/host/baseAddresses/add	baseAddress	http://vaserver:17050/CTSMassageEdit	CTS MessageEdit service endpoint address (HTTP Protocol).
		baseAddress	https://vaserver:17706/CTSMassageEdit	CTS MessageEdit service endpoint address (HTTPS Protocol).

File	Section	Configuration key	Configuration values (ex.)	Description
	configuration/system.serviceModel/services/service/host/baseAddresses/add	baseAddress	http://vaserver:17050/CTS VocabularyEdit	CTS VocabularyEdit service endpoint address (HTTP Protocol).
		baseAddress	https://vaserver:17706/CTS VocabularyEdit	CTS VocabularyEdit service endpoint address (HTTPS Protocol).
	configuration/system.serviceModel/services/service/host/baseAddresses/add	baseAddress	http://vaserver:17050/CTS MappingEdit	CTS MappingEdit service endpoint address (HTTP Protocol).
		baseAddress	https://vaserver:17706/CTS MappingEdit	CTS MappingEdit service endpoint address (HTTPS Protocol).
	configuration/system.serviceModel/services/service/host/baseAddresses/add	baseAddress	http://vaserver:17050/Xaml	XAML service endpoint address.

File	Section	Configuration key	Configuration values (ex.)	Description
	host/baseAddresses/add			
	configuration/system.serviceModel/services/service/host/baseAddresses/add	baseAddress	http://vaserver:17050/EVSWrapper	EVS Wrapper service endpoint address.
	configuration/system.serviceModel/services/service/host/baseAddresses/add	baseAddress	http://vaserver:17050/CTS Import	CTS Import service endpoint address.
	configuration/system.serviceModel/services/service/host/baseAddresses/add	baseAddress	http://vaserver:17050/CTS Export	CTS Export service endpoint address.
	configuration/system.serviceModel/services/service/host/baseAddresses/add	baseAddress	http://vaserver:17050/CTS EditBulk	CTS EditBulk service endpoint address.

File	Section	Configuration key	Configuration values (ex.)	Description
	configuration/system.serviceModel/services/service/host/baseAddresses/add	baseAddress	http://vaserver:17050/CTS/SubscriptionAdministration	CTS Subscription Administration service endpoint address.
	configuration/system.serviceModel/services/service/host/baseAddresses/add	baseAddress	http://vaserver:17050/CTS/MessageAdministration	CTS Message Administration service endpoint address.
	configuration/system.serviceModel/bindings/wsFederationHttpBinding/binding/security/message/issuerMetadata	address	http://vaserver:17050/STS/mex	STS metadata exchange URL used by ServiceBinding.

File	Section	Configuration key	Configuration values (ex.)	Description
	configuration/system.serviceModel/bindings/wsFederationHttpBinding/binding/security/message/issuer	address	http://vaserver:17050/STS/Windows	STS URL used by WinBinding.
EVSWrapper.dll.config	configuration/system.serviceModel/services/service/host/baseAddresses/add	baseAddress	http://vaserver:17050/EVSWrapper	EVS Wrapper service endpoint address.

Table 7 - PAP Service Configuration Parameters

File	Section	Configuration key	Configuration values (ex.)	Description
PolicyAdministrationPoint.dll.config	configuration/annSettings/key	DefaultResourceRoot	VA	Default root for identifiers.
		DatasetPath	DBRepository	Data Adapters (XML mapping files) path.
		su	hmcomplus	Specifies the super user of the application.
		SubscriptionTopic	Authorization	Specifies the topic of the synchronization subscription, meaning what should be synced.
		DnsIdentity	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.
		AuditServer	auditserver	Server where the audit service resides.
		AuditPort	10000	Port of the audit service on the specified server.
	configuration/connectionStrings/add	connectionString	workstation id=vadbserver\sql2008\2;packet size=4096;data source=vadbserver\sql2008\2;persist security info=False;Initial Catalog=BMS_AUTHZ;Integrated Security=SSPI;	Connection string for the connection to the BMS_AUTHZ database.
	configuration/system.serviceModel/bindings/wsFederationHttpBi	address	http://vaserver:17050/STS/Windows	STS URL used by UpnBinding.
	nding/binding/security/message/issuer			

File	Section	Configuration key	Configuration values (ex.)	Description
Connections.xml	configuration/system.serviceModel/bindings/wsFederationHttpBinding/binding/security/message/issuer	address	http://vaserver:17050/STS/Windows	STS URL used by WinBinding.
	configuration/system.serviceModel/services/service/host/baseAddresses/add	baseAddress	http://vaserver:17050/PAP	PAP service endpoint address.
	configuration/system.serviceModel/services/service/host/baseAddresses/add	baseAddress	http://vaserver:17050/AuthorizationPublisher	AuthorizationPublisher service endpoint address.
	configuration/system.serviceModel/services/service/host/baseAddresses/add	baseAddress	http://vaserver:17050/PAP/MessageAdministration	MessageAdministration service endpoint address.
	configuration/system.serviceModel/services/service/host/baseAddresses/add	baseAddress	http://vaserver:17050/PAP/SubscriptionAdministration	SubscriptionAdministration service endpoint address.
	configuration/system.serviceModel/client/endpoint	address	http://vaserver:17050/PDP/Request	PDP request client endpoint address.
	configuration/system.serviceModel/behaviors/endpointBehaviors/behavior/clientCredentials/serviceCertificate/scopedCertificates/add	targetUri	http://vaserver:17050/STS/Windows	URI of STS certificate.
	MyConnections/MyConnection/	connectionString	workstation id=vadbserver\sql2008\2;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\sql2008\2;persist security info=False;Initial Catalog=BMS_AUTHZ;Integrated Security=SSPI;	

Table 8 - PDP Service Configuration Parameters

File	Section	Configuration key	Configuration values (ex.)	Description
PolicyDecisionPoint.dll.config	configuration/appSettings/key	DefaultResourceRoot ConnectionString	VA Data source=vadbserver\sql2008; InitialCatalog=BMS_AUTHZ;Persist Security Info=False;Integrated Security=SSPI	Default root for identifiers. Connection string for the connection to the BMS_AUTHZ database.
	system.serviceModel/bindings/wsFederationHttpBinding/binding/security/message/issuerMetadata	address	http://vaserver:17050/STS/mex	STS metadata exchange URL used by ServiceBinding.
	configuration/system.serviceModel/services/service/host/baseAddresses/add	baseAddress	http://vaserver:17050/PDP	PDP service endpoint address.
	configuration/system.serviceModel/services/service/host/baseAddresses/add	baseAddress	http://vaserver:17050/PDP/Request	PDP Request service endpoint address.

Table 9 - RS Service Configuration Parameters

File	Section	Configuration key	Configuration values (ex.)	Description
RS.ServiceImplementation.	configuration/appSettings/	DefaultResourceRoot ReportingServicesURL	VA http://vaserver:90/Report	Default root for identifiers. 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/system.serviceModel/client/endpoint	address	http://vaserver:17050/PDP/Request	PDP request client endpoint address.
	configuration/system.serviceModel/bindings/wsFederationHttpBinding/binding/security/message/issuerMetadata	address	http://vaserver:17050/STS/mex	STS metadata exchange URL used by ServiceBinding.
	configuration/system.serviceModel/bindings/wsFederationHttpBinding/binding/security/message/issuer	address	http://vaserver:17050/STS/Windows	URL of CustomBinding_IAuthenticationService.
	configuration/system.serviceModel/services/service/host/baseAddresses/add	baseAddress	http://vaserver:17050/RS	RS service endpoint address.

File	Section	Configuration key	Configuration values (ex.)	Description
	configuration/system.serviceModel/behaviors/endpointBehaviors/behavior/clientCredentials/serviceCertificate/scopedCertificates/add	targetUri	http://vaserver:17050/STS/Windows	URI of STS certificate.

Table 10 - STS Service Configuration Parameters

File	Section	Configuration key	Configuration values (ex.)	Description
SecureToken	configuration/appSettings/key	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	My	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.
		STSCertificateFindValue	IWHM3STS	STS Certificate name.
		ServiceCertificateStoreName	My	Specifies the name of the X.509 certificate store to open.
		ServiceCertificateStoreLocation	LocalMachine/CurrentUser	Specifies the location of the X.509 services' certificate store.

File	Section	Configuration key	Configuration values (ex.)	Description
Service.dll.config		ServiceCertificateFindType	FindBySubjectName	Specifies the type of value the X509Certificate2Collection.Find method searches for.
		ServiceCertificateFindValue	IWHM3Services	Services' Certificate name.
		su	Domain qualified user names, comma separated.	Usernames of all the super users in the application.
		domains	VA VA	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.serviceModel/services/service/host/baseAddresses/add	baseAddress	http://vaserver:17050/STS	STS service endpoint address.
	configuration/system.serviceModel/services/service/host/baseAddresses/add	baseAddress	http://vaserver:17050/authsvc	Authsvc service endpoint address.
	configuration/system.serviceModel/bindings/wsFederationHttpBinding/binding/security/message/issuer	address	http://vaserver:17050/STS/mex	STS metadata exchange URL used by ServiceBinding.
	configuration/system.serviceModel/bindings/wsFederationHttpBinding/binding/security/message/issuer	address	http://vaserver:17050/STS/Windows	URL of STS used by WindowsBinding.

File	Section	Configuration key	Configuration values (ex.)	Description
	configuration/system.serviceModel/bindings/wsFederationHttpBinding/binding/security/message/issuer/identity/userPrincipalName	value	VAUser@domain.com	Name of the user under which the service is running.
	configuration/system.serviceModel/behaviors/serviceBehaviors/behavior/serviceMetadata	httpGetUrl	http://vaserver:17050/STS/mex	Metadata exchange address of ServiceSTSBehavior.

Table 11 - Win ServiceHost Configuration Parameters

File	Section	Configuration key	Configuration values (ex.)	Description
WinServiceHost.exe.config	configuration/appSettings/key	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	90	Time in seconds to wait for the services to start
		AuditServer	auditserver	Server where the audit service resides.
		AuditPort	10000	Port of the audit service on the specified server.
		ServiceCertificateStoreName	My	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 12 - WMI User Group Configuration Parameters

File	Section	Configuration key	Configuration values (ex.)	Description
WMI_UserGroup.exe	configuration/appSettings/key	DatasetPath	DBRepository	Data Adapters (XML mapping files) path.
		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\sql2008\2;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
	configuration/appSettings/key	DefaultResourceRoot	VA	Default root for identifiers.
		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.
	system.serviceModel/bindings/wsFederationHttpBinding/binding/security/message/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.serviceModel/behaviors/endpointBehaviors/behavior/clientCredentials/scopedCertificates/add	targetUri	http://vaserver:17050/STS/	STS address of STS certificate.
	configuration/system.serviceModel/client/endpoint	address	http://vaserver:17050/PAP	PAP client endpoint address.
	configuration/system.serviceModel/client/endpoint	address	http://vaserver:17050/AuthorizationPublisher	AuthorizationPublisher client endpoint address.
PolicyEditor.dll.config	configuration/system.serviceModel/client	address	http://vaserver:17050/PAP	PAP client endpoint address.

Table 14 - BMS Web Configuration Parameters

File	Section	Configuration key	Configuration values (ex.)	Description
Web.config	configuration/appSettings/	webpages:Version	1.0.0.0	Version of the web site.
		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 asp.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/system.serviceModel/bindings/wsFederationHttpBinding/binding/security/message/issuer	address	http://vaserver:17050/STS/Windows	STS Windows address used by WindowsBinding.
	configuration/system.serviceModel/bindings/wsFederationHttpBinding/binding/security/message/issuer	address	http://vaserver:17050/STS/	STS address used by WSFederationHttpBinding_Authenticated Service binding.
	configuration/system.serviceModel/client/endpoint	address	http://vaserver:17050/authsvc/upnidentity	Security Authentication client endpoint address.
	configuration/system.serviceModel/client/endpoint	address	http://vaserver:17050/RS	Reporting Services client endpoint address.
	configuration/system.serviceModel/client/endpoint	address	http://vaserver:17050/QueryFunctions	EIS QueryFunctions client endpoint address.
	configuration/system.serviceModel/client/endpoint	address	http://vaserver:17050/QueryFunctions	EIS QueryFunctions Windows authentication client endpoint address.
	configuration/system.serviceModel/client/endpoint	address	http://vaserver:17050/EntityManagement	EIS EntityManagement client endpoint address.
	configuration/system.serviceModel/	address	http://vaserver:17050/EntityManagement	EIS EntityManagement Windows authentication client endpoint address.

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

File	Section	Configuration key	Configuration values (ex.)	Description
	configuration/system.serviceModel/client/endpoint	address	http://vaserver:17050/PDP	PDP client endpoint address.
	configuration/system.serviceModel/client/endpoint	address	http://vaserver:17050/PDP	PDP Windows authentication client endpoint address.
	configuration/system.serviceModel/client/endpoint	address	http://vaserver:17050/CTSVocabularyRuntime	CTS VocabularyRuntime client endpoint address.
	configuration/system.serviceModel/client/endpoint	address	http://vaserver:17050/CTSVocabularyBrowse	CTS VocabularyBrowse client endpoint address.
	configuration/system.serviceModel/client/endpoint	address	http://vaserver:17050/CTSMassageBrowse	CTS MessageBrowse client endpoint address.
	configuration/system.serviceModel/client/endpoint	address	http://vaserver:17050/CTSMassageRuntime	CTS MessageRuntime client endpoint address.
	configuration/system.serviceModel/client/endpoint	address	http://vaserver:17050/CTSMassageEdit	CTS MessageEdit client endpoint address.
	configuration/system.serviceModel/client/endpoint	address	http://vaserver:17050/CTSVocabularyEdit	CTS VocabularyEdit client endpoint address.
	configuration/system.serviceModel/client/endpoint	address	http://vaserver:17050/BMSConfigurationOperations	BMS ConfigurationOperations client endpoint address.
	configuration/system.serviceModel/client/endpoint	address	http://vaserver:17050/BMSConfigurationOperations	BMS ConfigurationOperations Windows authentication client endpoint address.

File	Section	Configuration key	Configuration values (ex.)	Description
	configuration/system.serviceModel/client/endpoint	address	http://vaserver:17050/BMSQuery	BMS Query client endpoint address.
	configuration/system.serviceModel/client/endpoint	address	http://vaserver:17050/BMSOperations	BMS Operations client endpoint address.
	configuration/system.serviceModel/client/endpoint	address	http://vaserver:17050/TransferWF	Transfer workflow client endpoint address.
	configuration/system.serviceModel/client/endpoint	address	http://vaserver:17050/BMSWF	BMS workflow client endpoint address.
	configuration/system.serviceModel/client/endpoint	address	http://vaserver:17050/WaitingListWF	Patients Pending Placement List workflow client endpoint address.
	configuration/system.serviceModel/client/endpoint	address	http://vaserver:17050/BedCleanWF	Bed clean workflow client endpoint address.
	configuration/system.serviceModel/client/endpoint	address	http://vaserver:17050/BedUnavailableWF	Bed Unavailable workflow client endpoint address.
	configuration/system.serviceModel/client/endpoint	address	http://vaserver:17050/VistaQuery	VistA Query client endpoint address.
	configuration/system.serviceModel/client/endpoint	address	http://vaserver: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 [Section 3.3](#).

2.4.1 BMS Reports Full

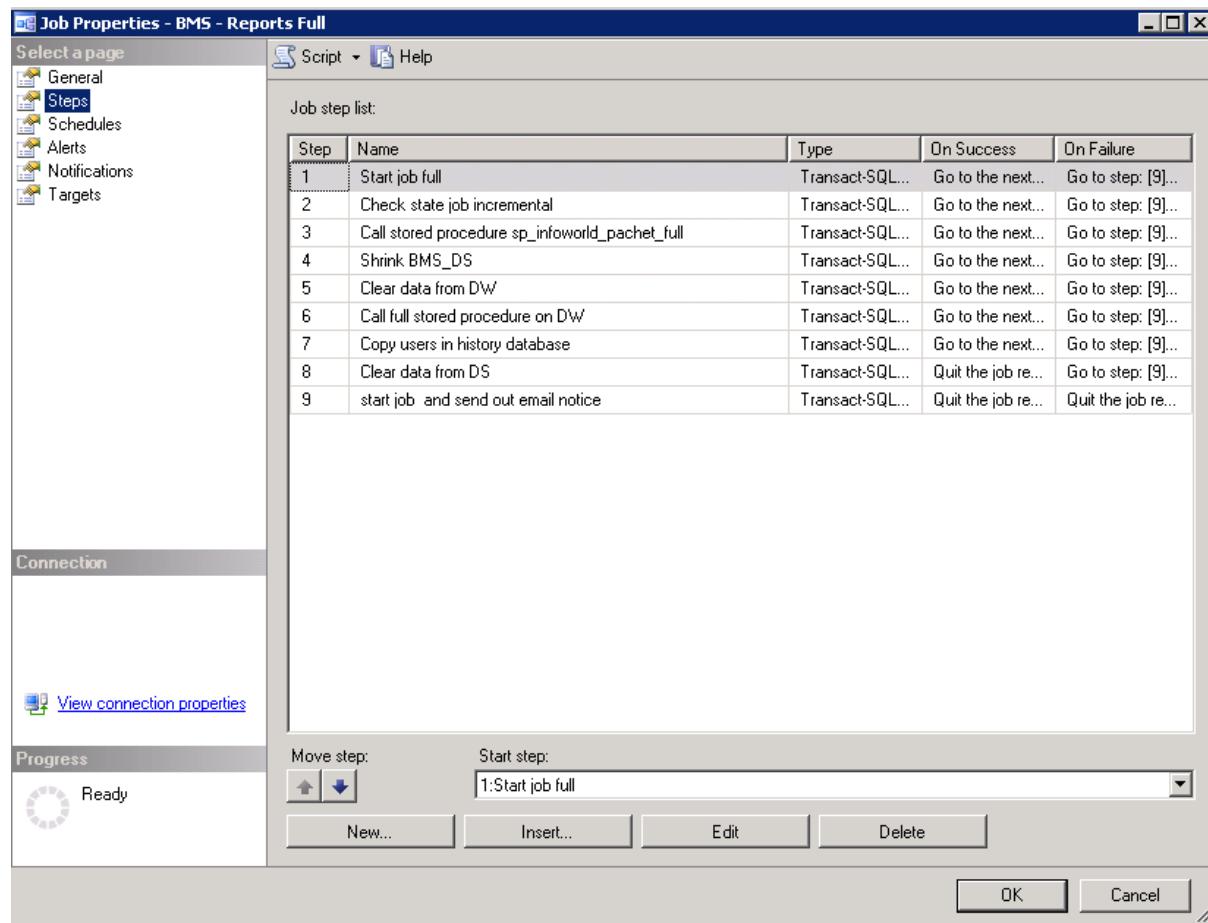


Figure 2 - BMS - Report Full Job

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.

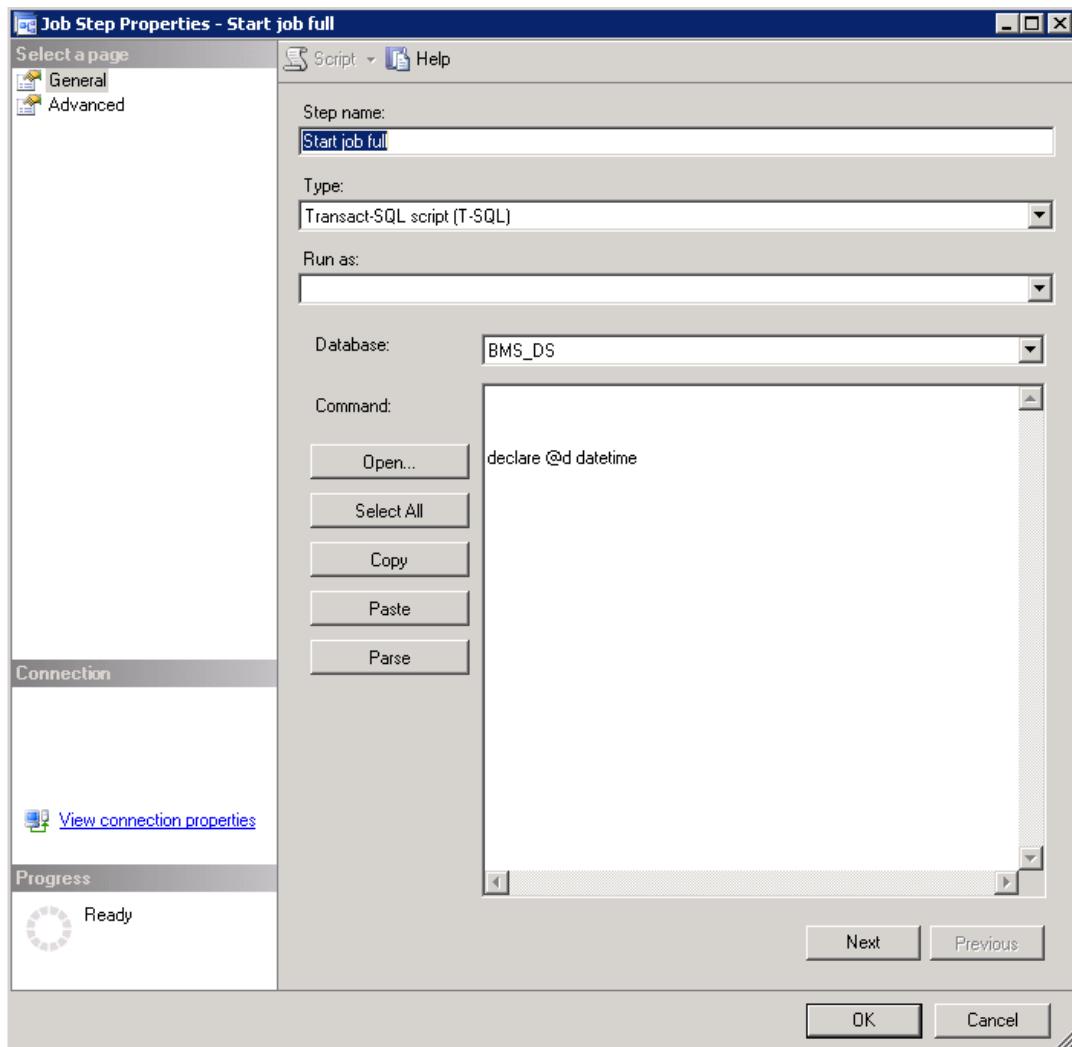


Figure 3 - BMS - Start Full Job

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

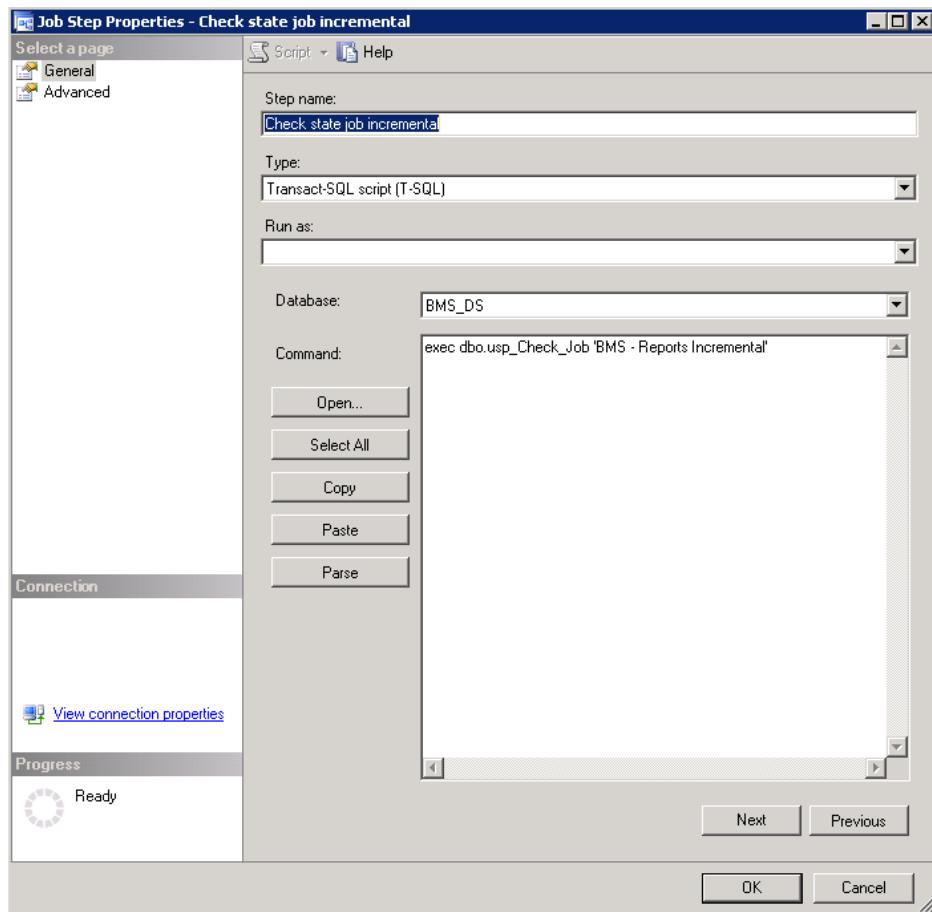


Figure 4 - BMS - Check State Job Incremental

Step 3. Call procedure sp_infoworld_pachet_full: creates or truncates the existing tables in the destination database and then inserts all the rows from each source table in the corresponding destination table. The destination tables from BMS_DS have the same name as the source tables but prefixed with the source database name. This information is stored in a configuration table in BMS_DS database, dbo.ConfigTable.

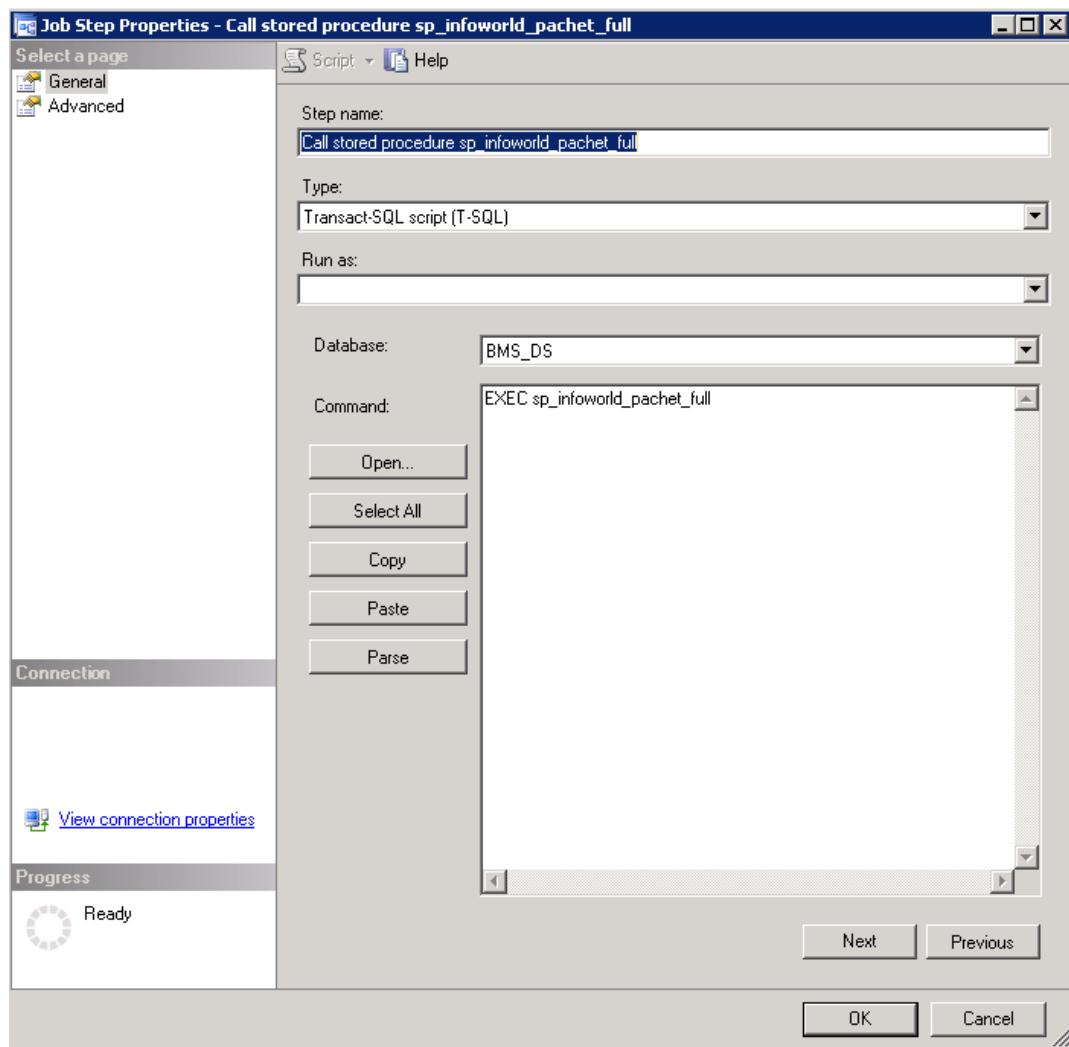


Figure 5 - BMS - Call Procedure

Step 4. Shrink BMS_DS: Shrinks the file with the id 2 (the log file), to the size of 1 MB.

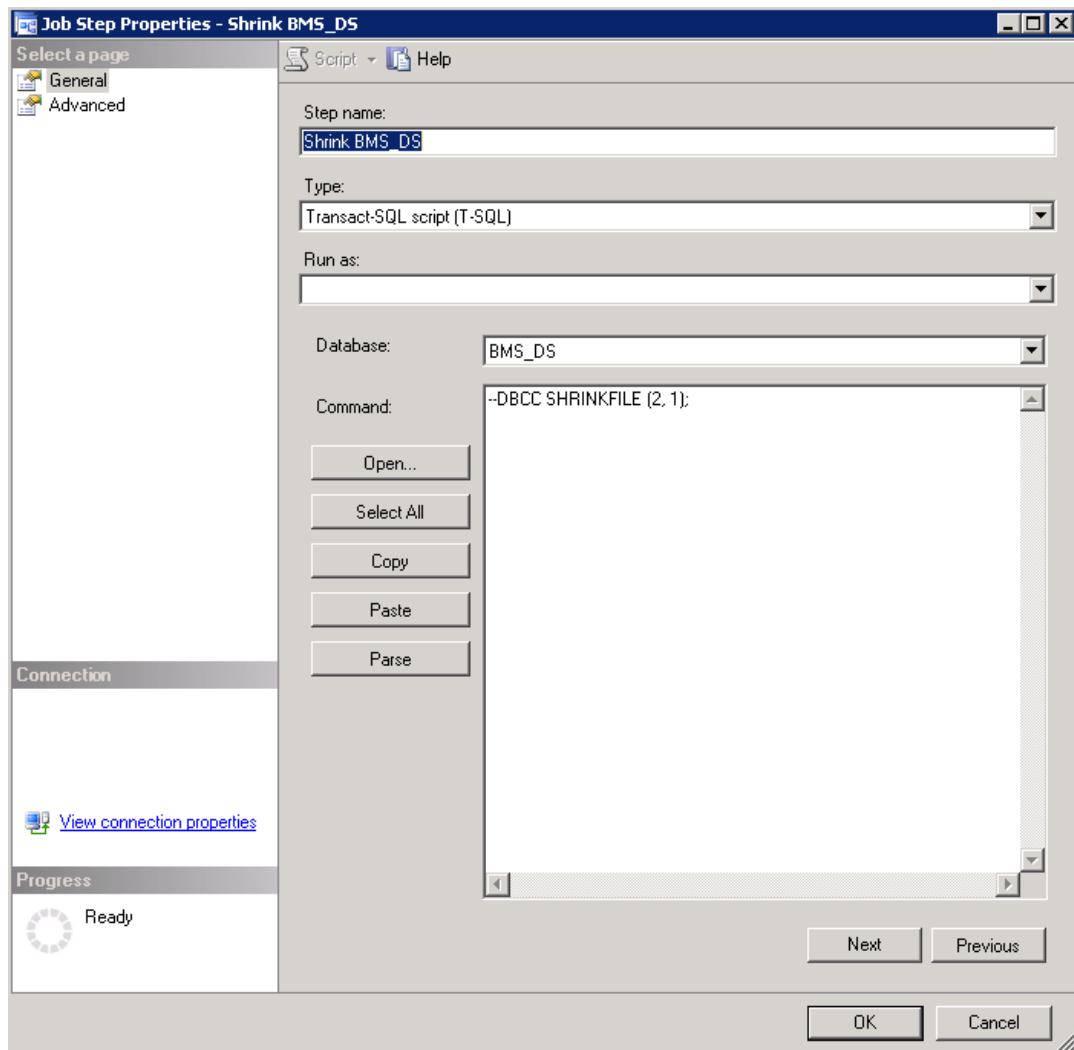


Figure 6 - BMS - Shrink

Step 5. 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.

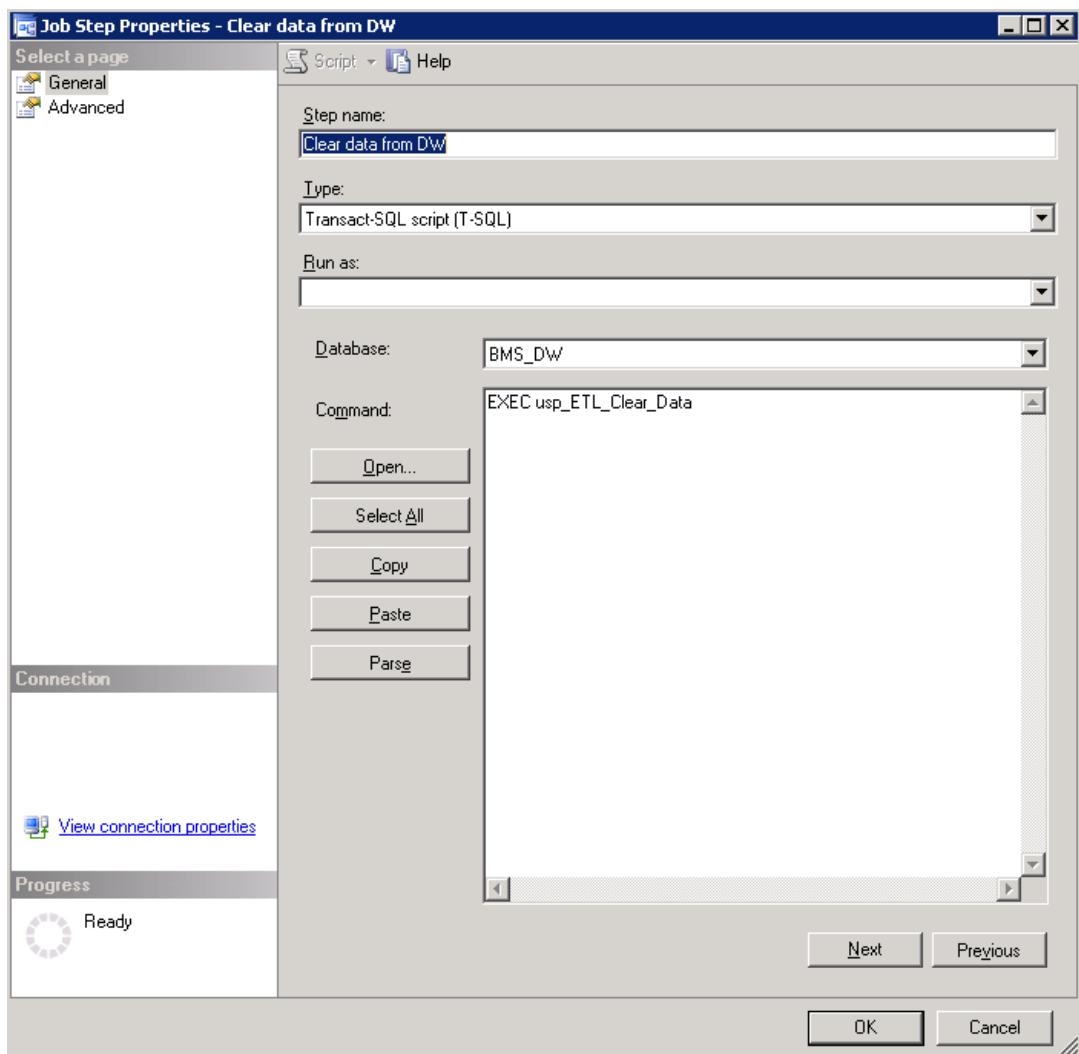


Figure 7 - BMS - Clear Data

Step 6. Call procedure full on BMS_DW: it inserts first the vocabulary data, then EIS entities (ETL dimension tables) and BMS acts (ETL facts tables).

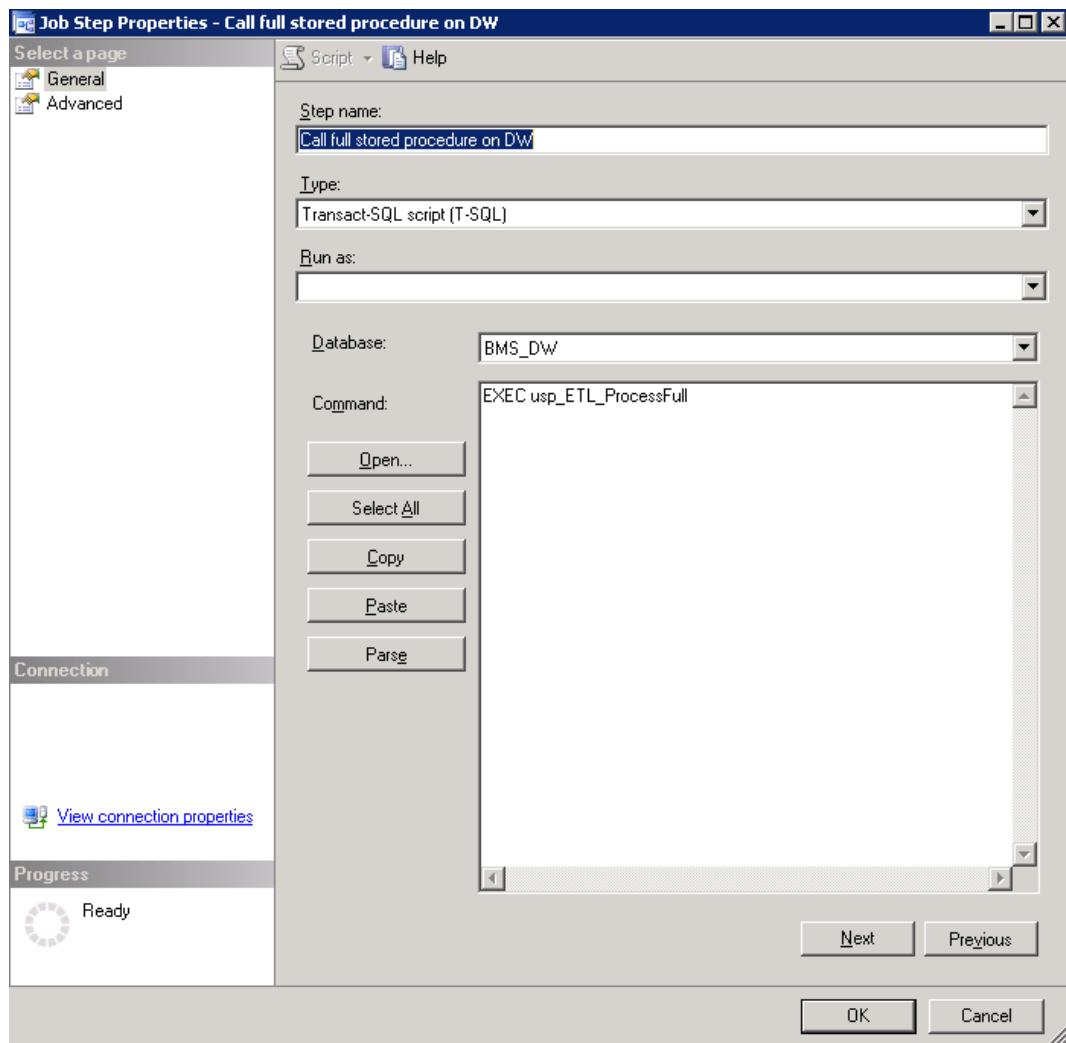


Figure 8 - BMS - Call Procedure Full

Step 7. Copy users in history database: adds users in user_h 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.

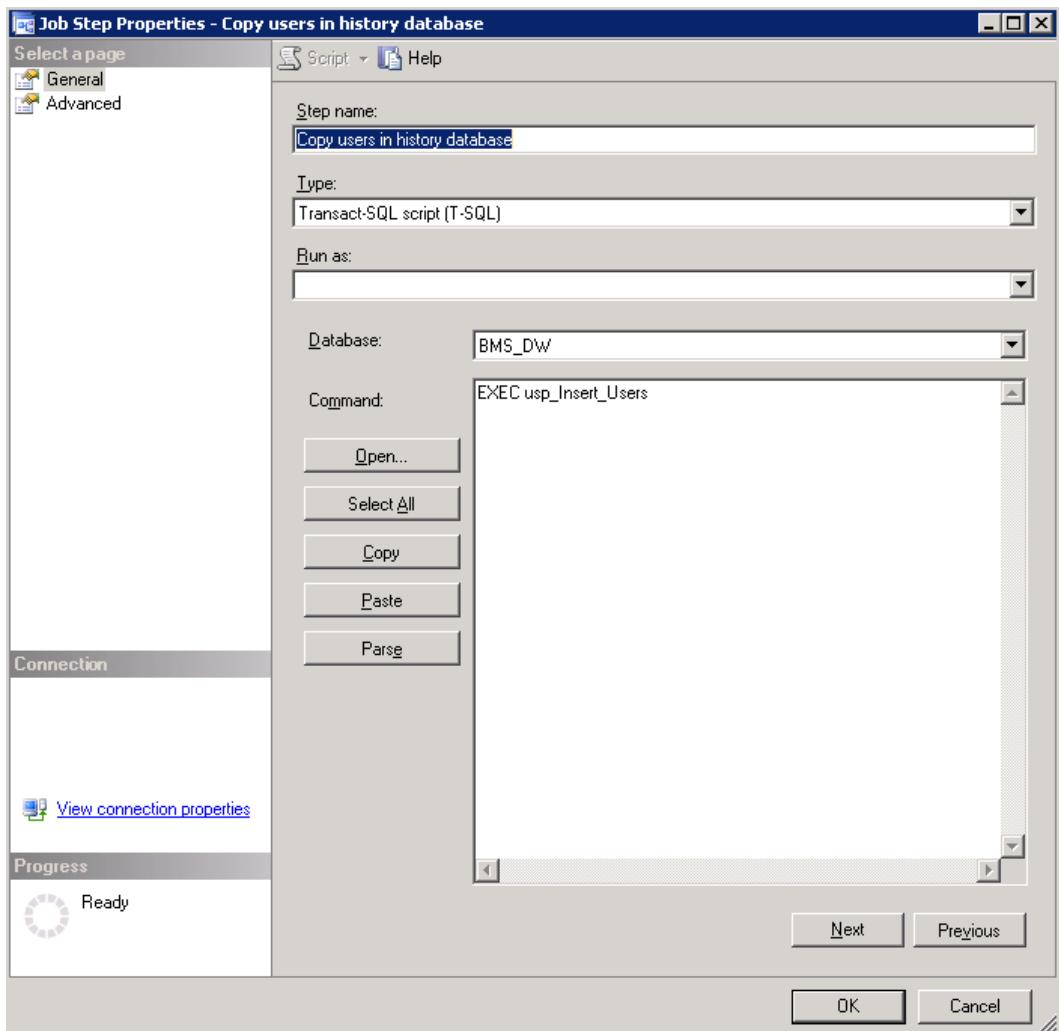


Figure 9 - Copy Users in History Database

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

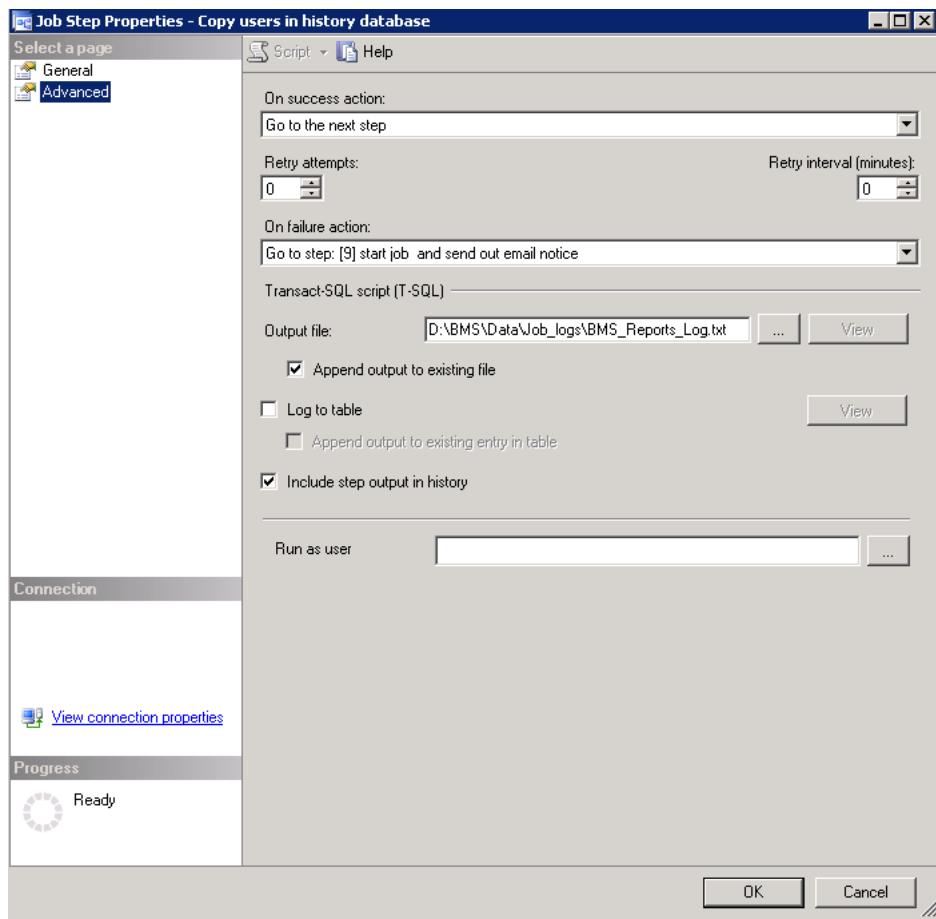
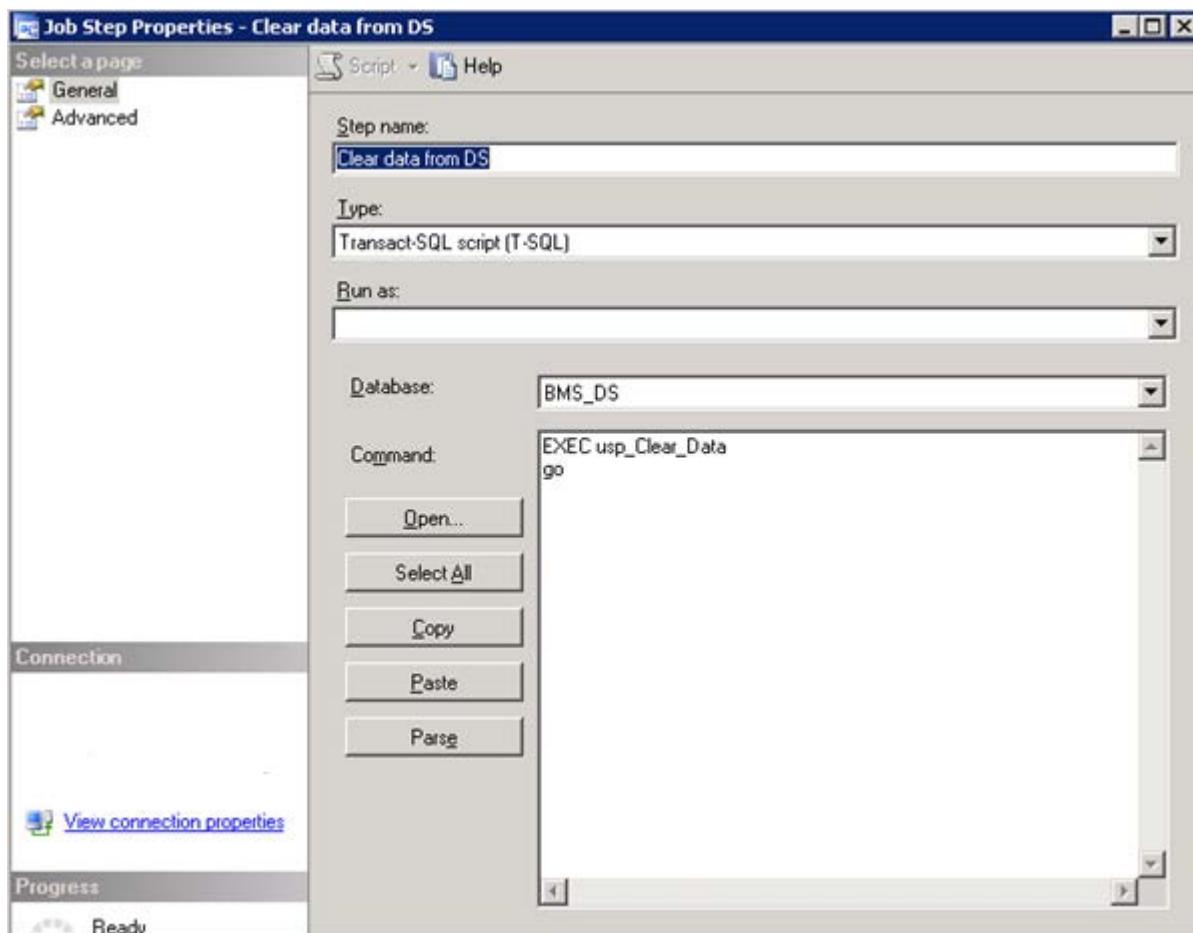


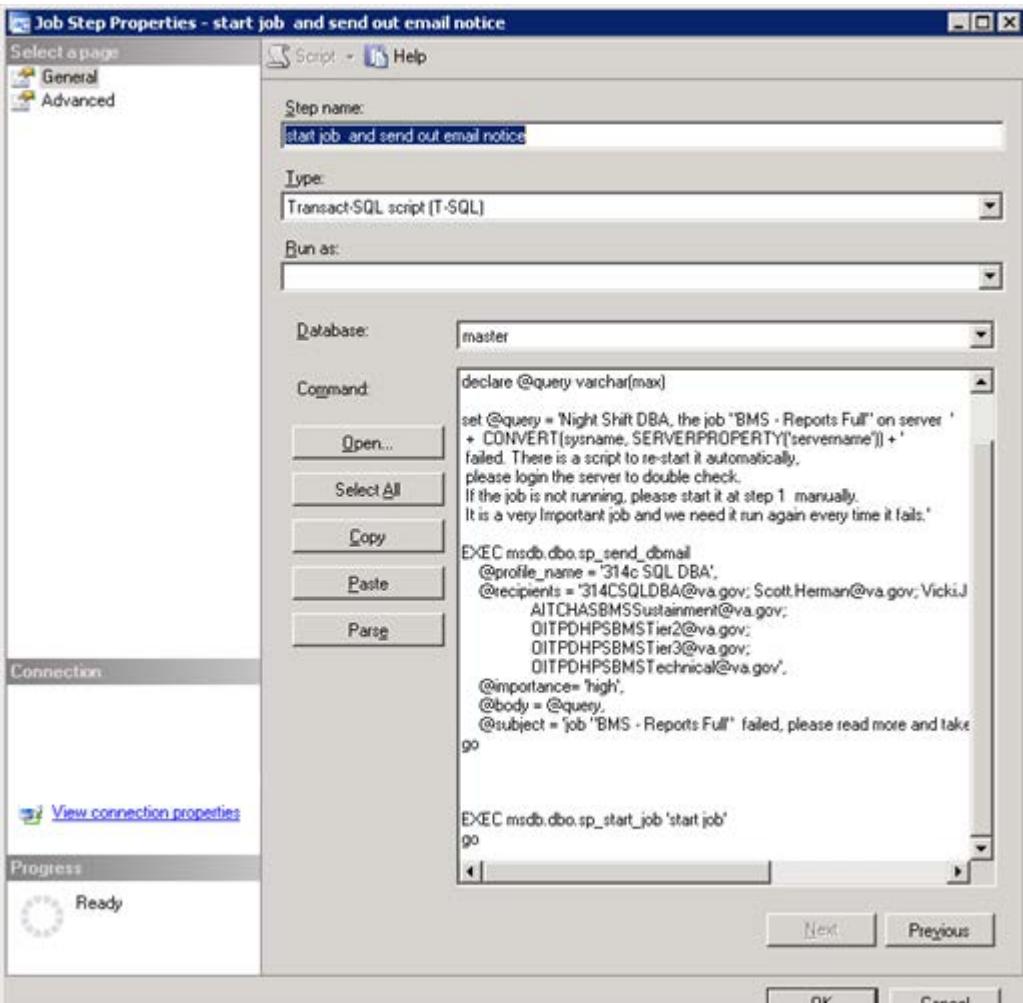
Figure 10 - BMS Reports Full Path File Log

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 8. Clear data from BMS DS database.



Step 9. 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.



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.

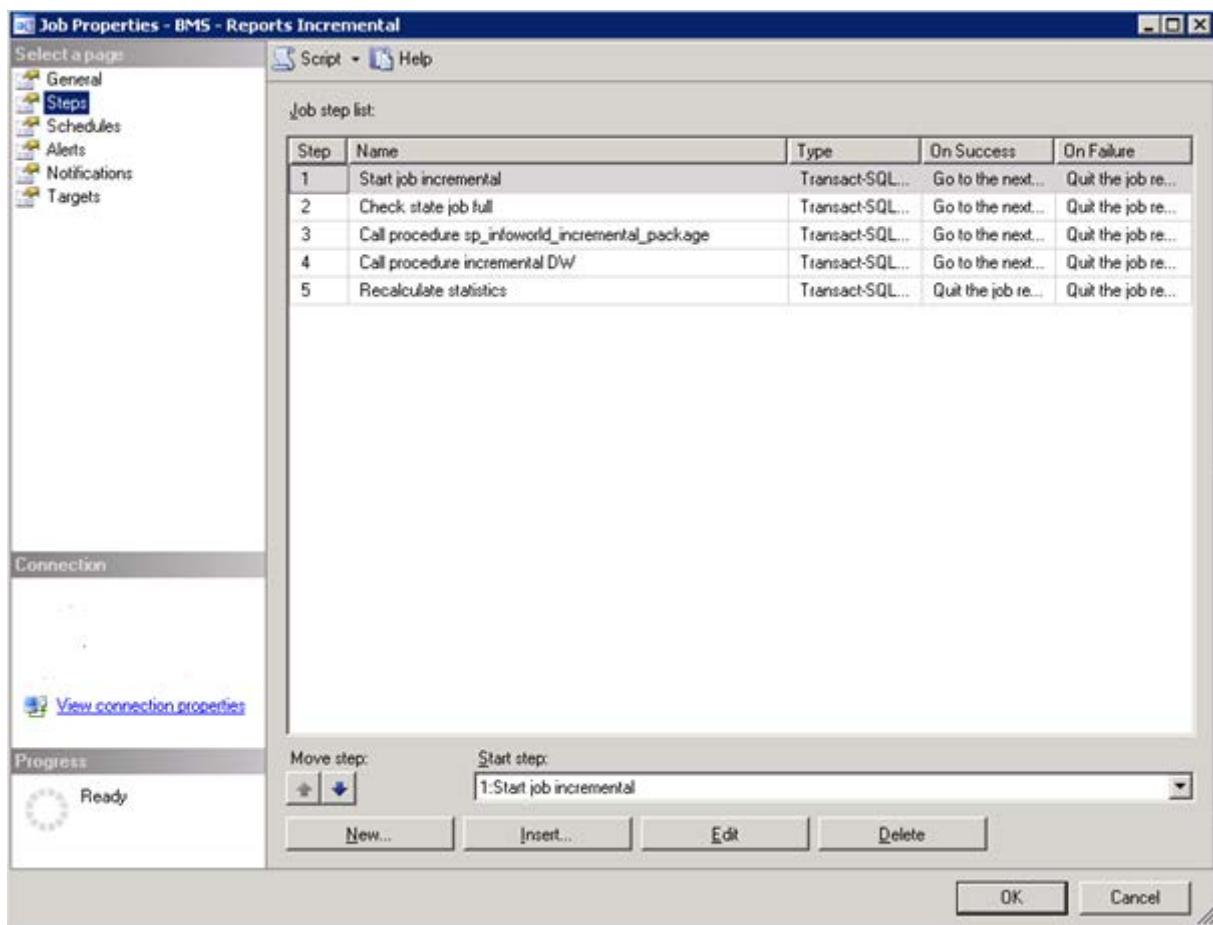


Figure 11 - BMS - Report Incremental Job

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

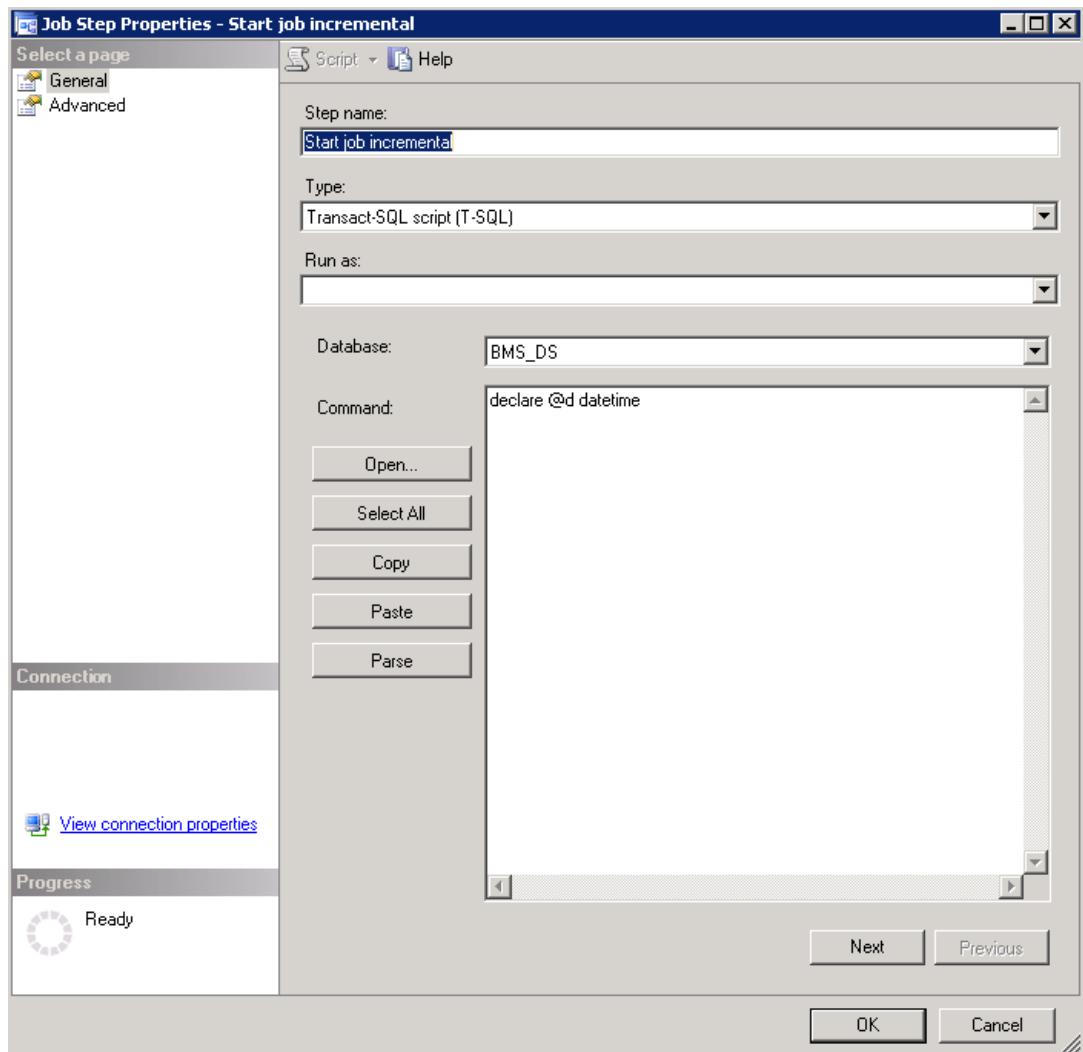


Figure 12 - BMS - Start Job Incremental

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.

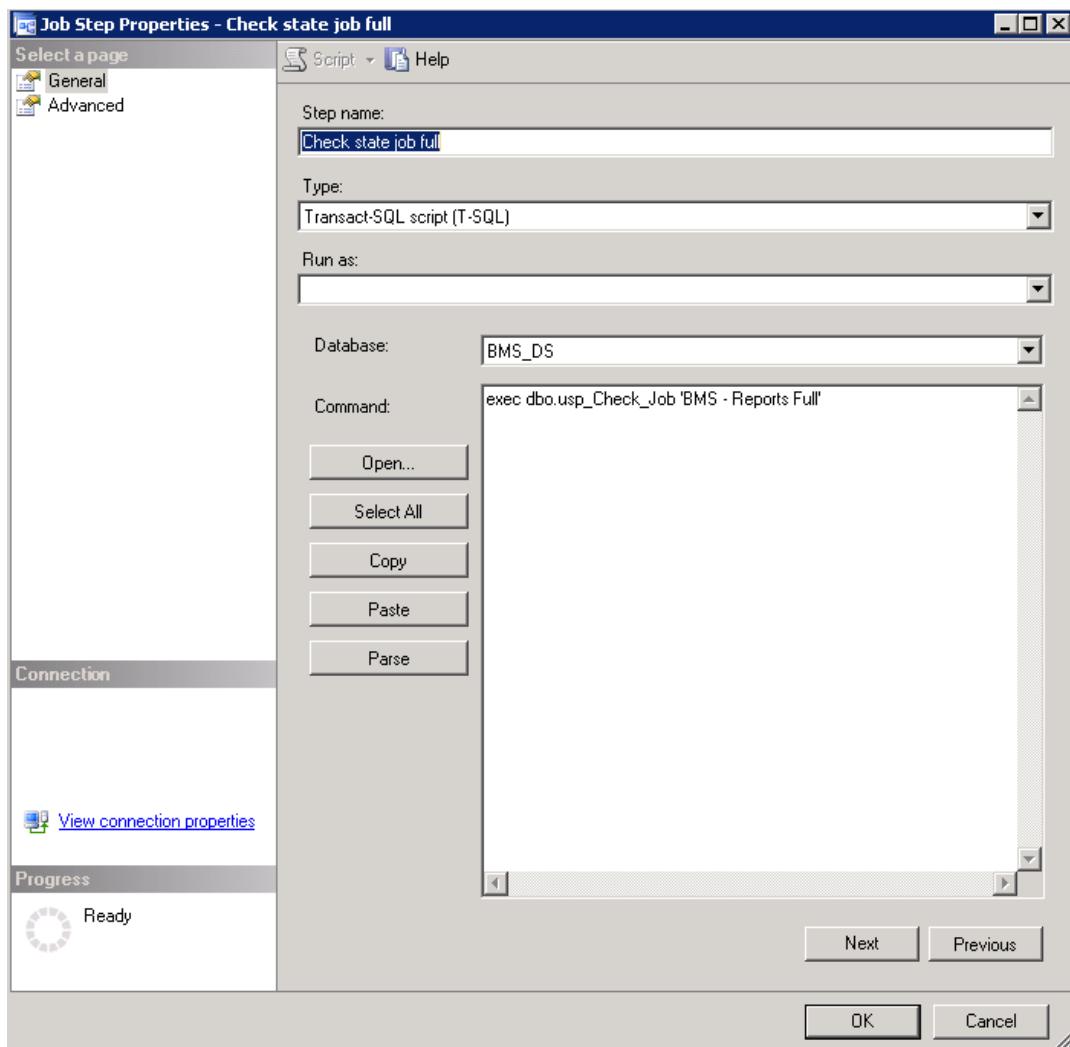


Figure 13 - BMS - Check State Job Full

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).

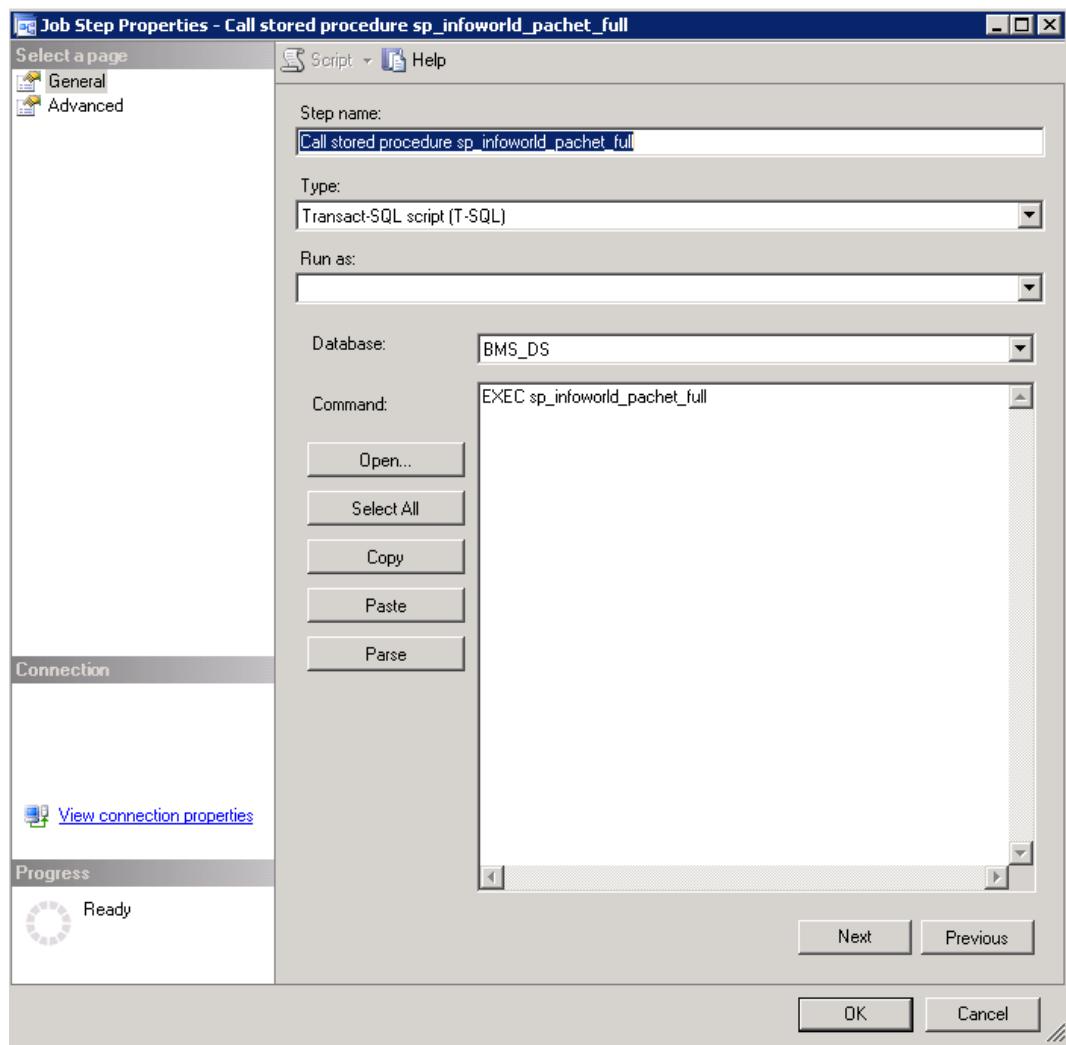


Figure 14 - BMS - Call Procedure Properties

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.

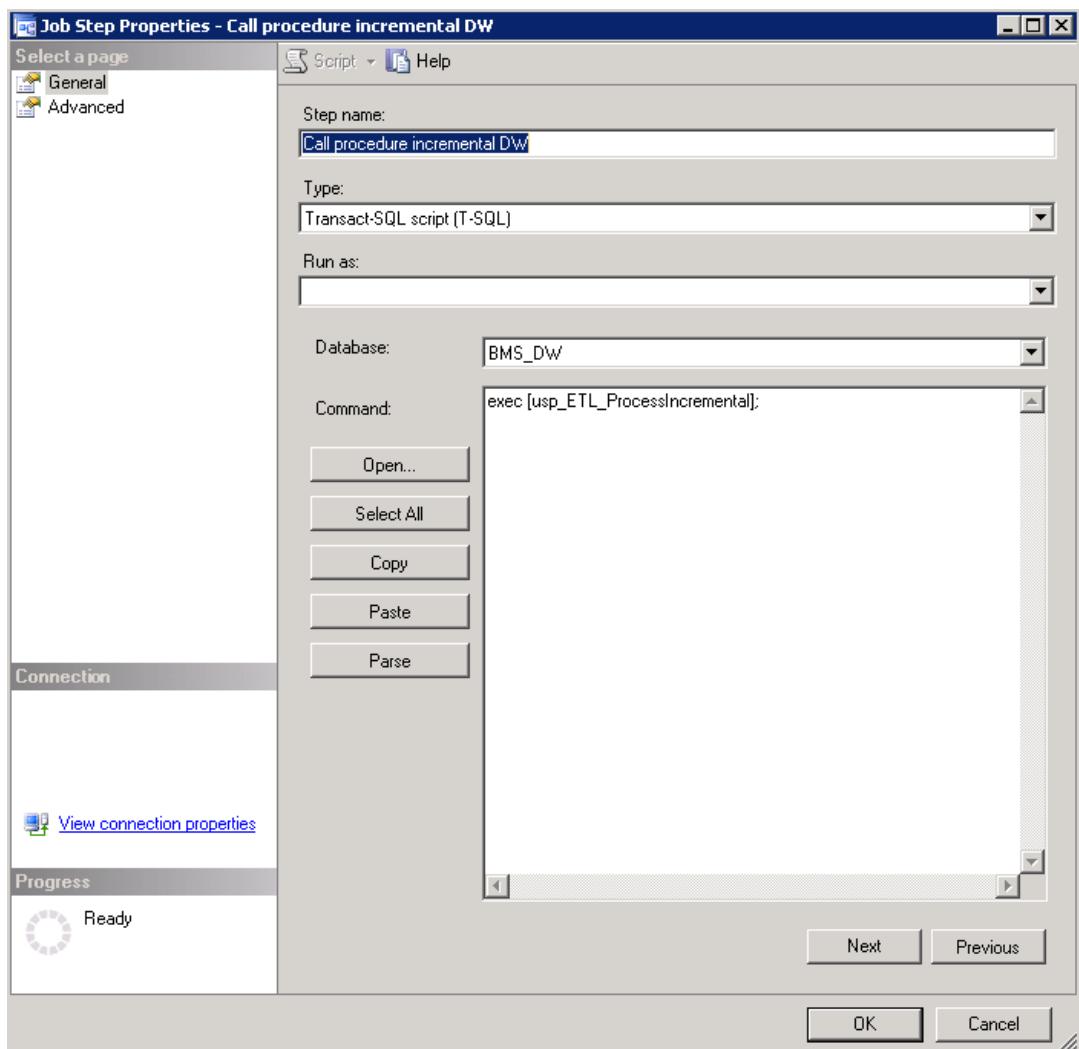


Figure 15 - BMS - Call Procedure Incremental

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

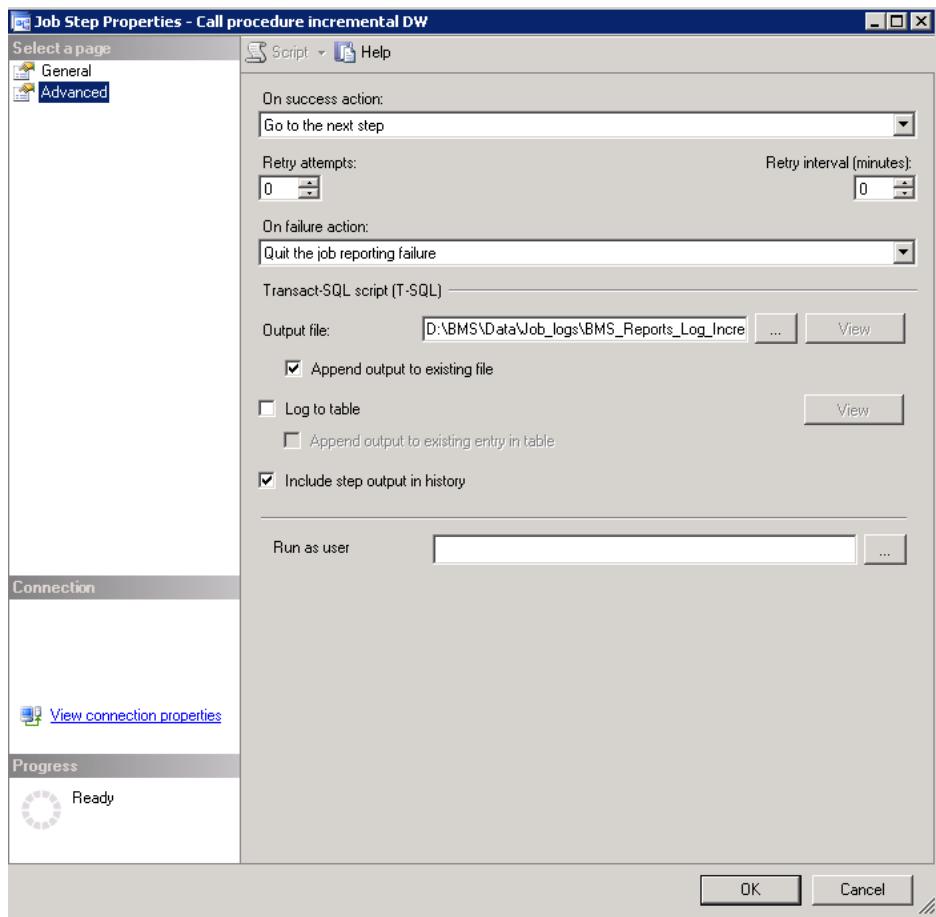


Figure 16 - BMS Incremental Path File Log

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.

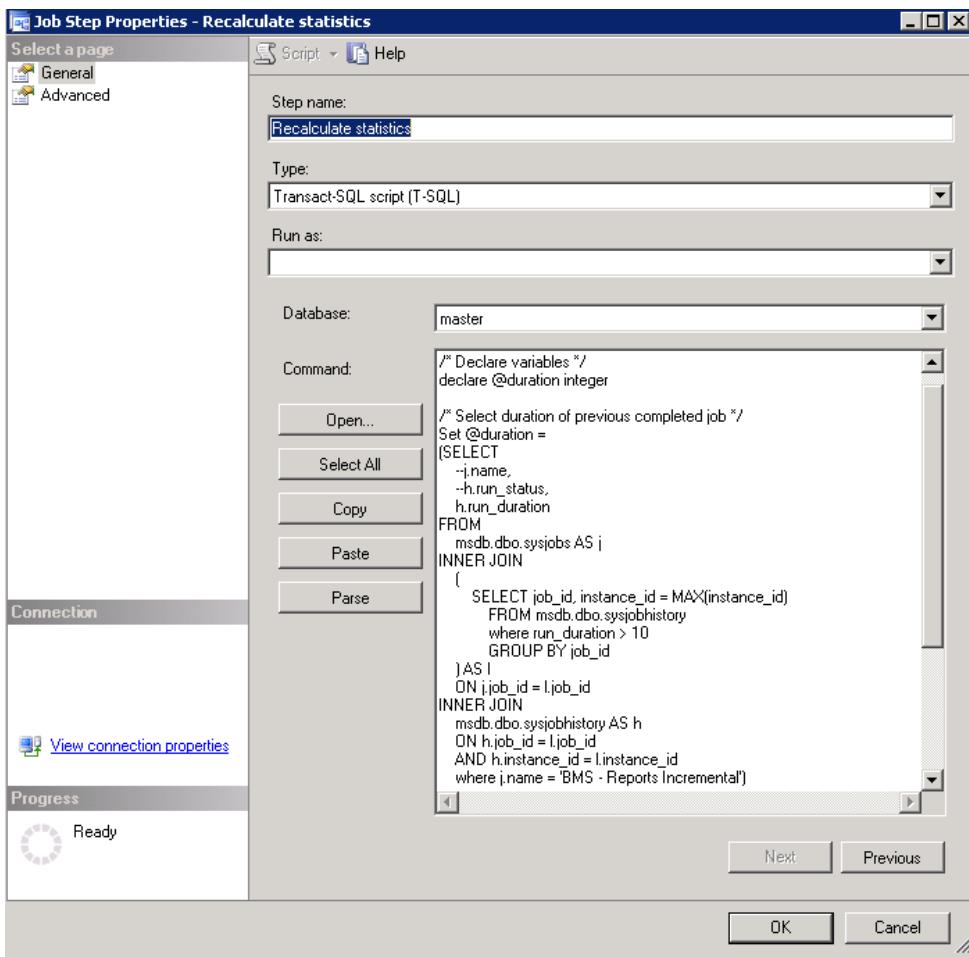


Figure 12 - BMS – Call procedure Recalculate Statistics

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:

1. 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.
 - 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.

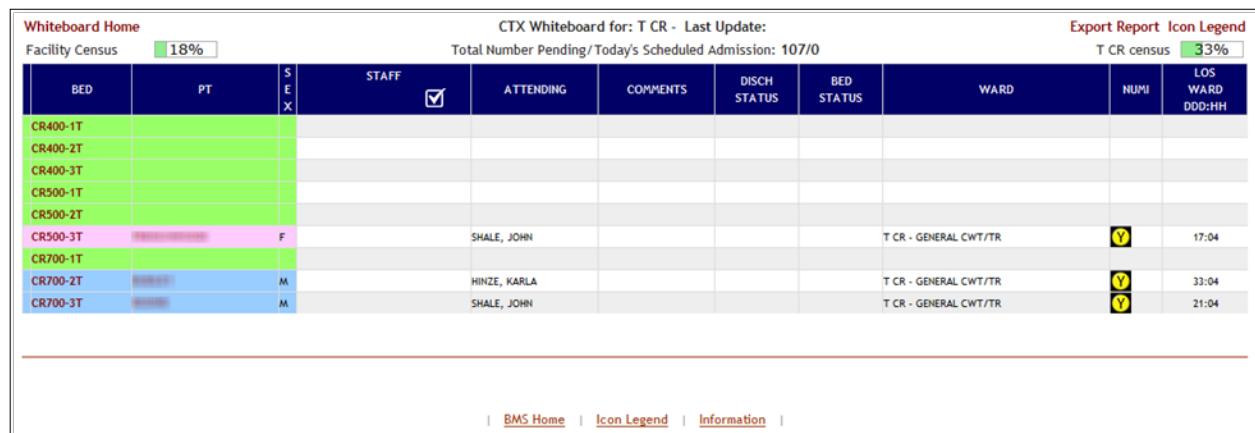


Figure 2 - BMS Ward Whiteboard Screen

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) Set up a default user for the kiosk. See details in [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://vaww.bms.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://vaww.bms.va.gov/WardWhiteboardUrl?facilityCode=BRK&wardName=ALL&splitScreen=No&displayPTCode=LastName&genderColorCode=Blue/Pink&displayFooterCensus=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: VHxxxxxxxx(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**

Return to Admin Page

Facility Configuration - VA NORTH TEXAS HEALTH CARE SYSTEM: DALLAS VA MEDICAL CENTER (NTX)

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:	JEFFREY.D.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: Whiteboard Kiosk Password: Whiteboard Kiosk Password Confirm:	vhantxbedmgmt

Submit Cancel

| BMS Home | Icon Legend | Information |

Figure 3 - 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 SECTION - USERADD/EDIT Logout

PARAMETER		OPTIONS		
Select Existing NT User Name		<input type="button" value="Select Default"/>		
NT User Name	v17.med.va.gov\vhantxbedmgmt			
Support User?	<input type="checkbox"/> No			
National User?	<input type="checkbox"/> No			
Regional User?	<input type="checkbox"/> No			
VISN User?	<input type="checkbox"/> No			
Admin User?	<input type="checkbox"/> No			
Audit Log User?	<input type="checkbox"/> No			
Site User?	<input type="checkbox"/> No			
EMS User?	<input type="checkbox"/> Yes			
EMS Supervisor User?	<input type="checkbox"/> No			
Guest User?	<input type="checkbox"/> No			
Default Region:	<input type="checkbox"/> 2			
Default VISN:	<input type="checkbox"/> 17			
Default Site:	NTX - VA NORTH TEXAS HEALTH CARE SYSTEM: <input type="checkbox"/>			
READ Access?	<input type="checkbox"/> Yes			
WRITE Access?	<input type="checkbox"/> Yes			
<input checked="" type="checkbox"/> Display only the facilities with permissions				
READ Access	WRITE Access	Region	VISN	Facility
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Region 2	VISN 17	DALLAS (549, NTX)
 <input type="button" value="Submit"/> <input type="button" value="Cancel"/>				

Figure 4 - Whiteboard Kiosk User Role Assignment Fields Filled in on the BMS Admin Section Add/Edit BMS User Page

- *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 login 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*

- Click on the screensaver button on the lower-right part of the page

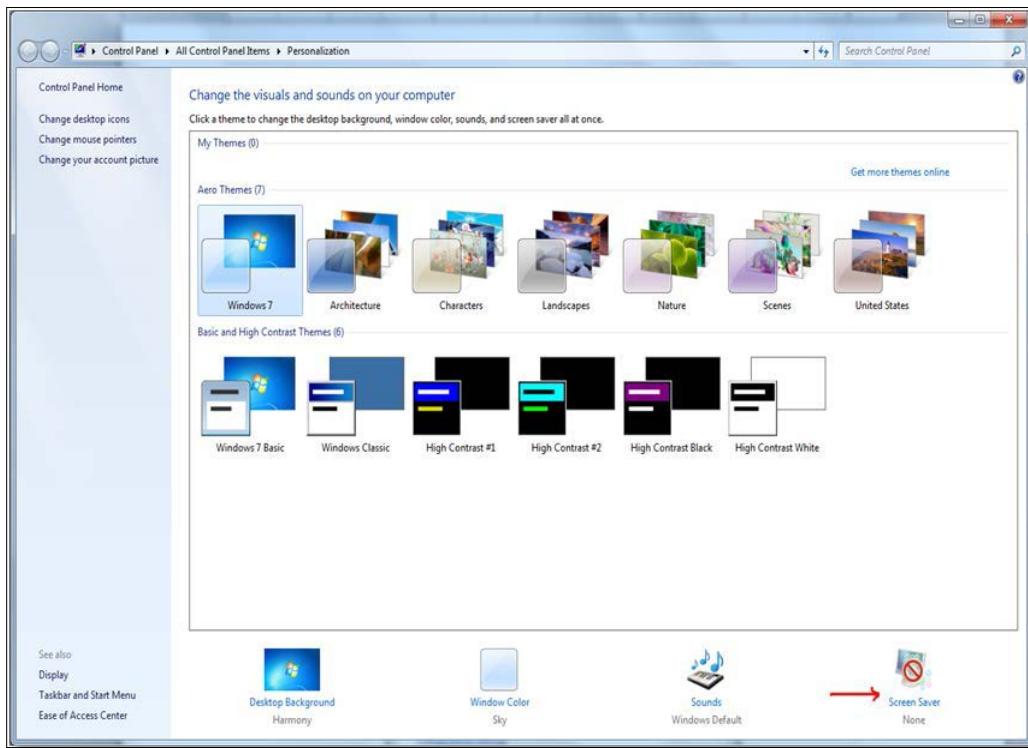


Figure 5 - Screen Saver Option

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

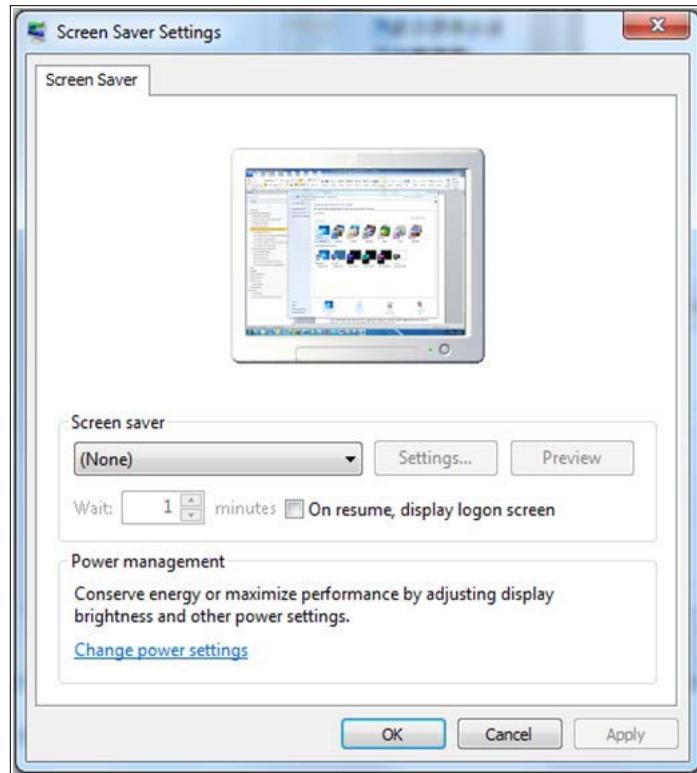


Figure 6 - Screen Saver Settings Window

- *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*

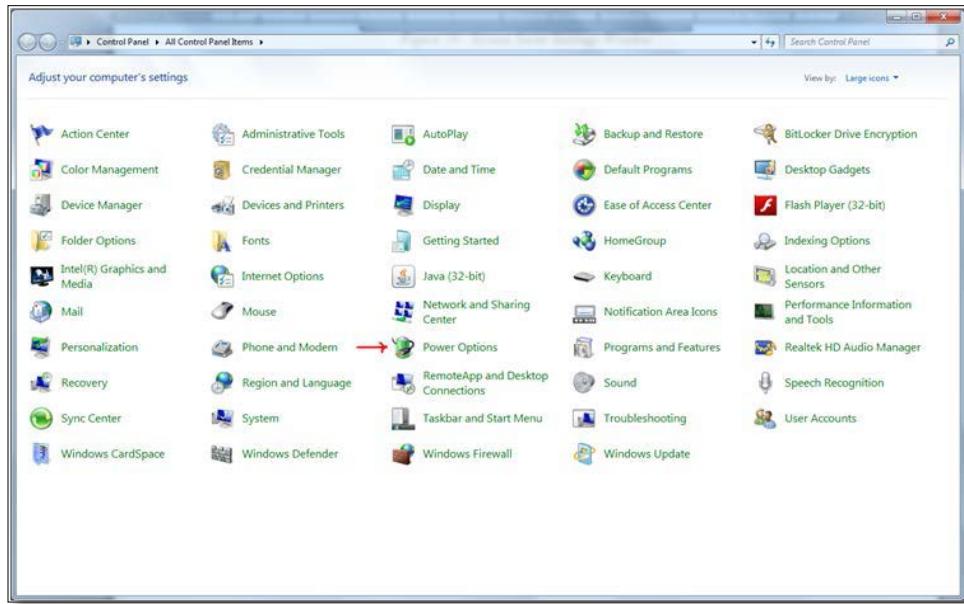


Figure 7 - Power Options

- Click on “Change Plan settings” for the active plan

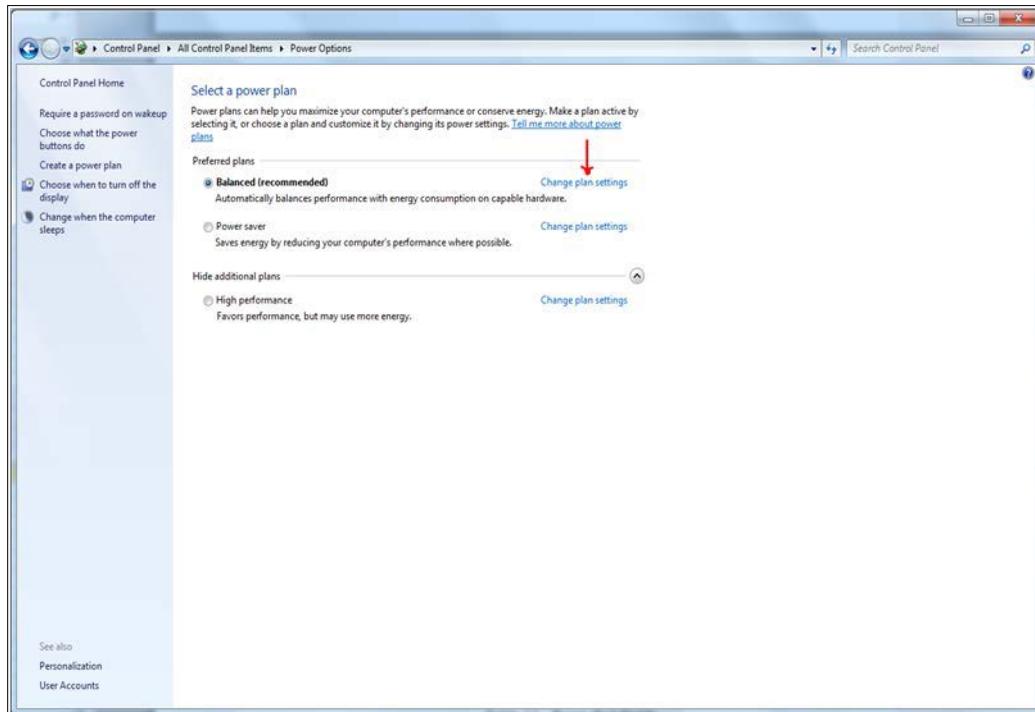


Figure 8 - Change Plan Settings Option

- Select “Never” from the drop downs associated with “Turn off the display” and “Put the computer to sleep”

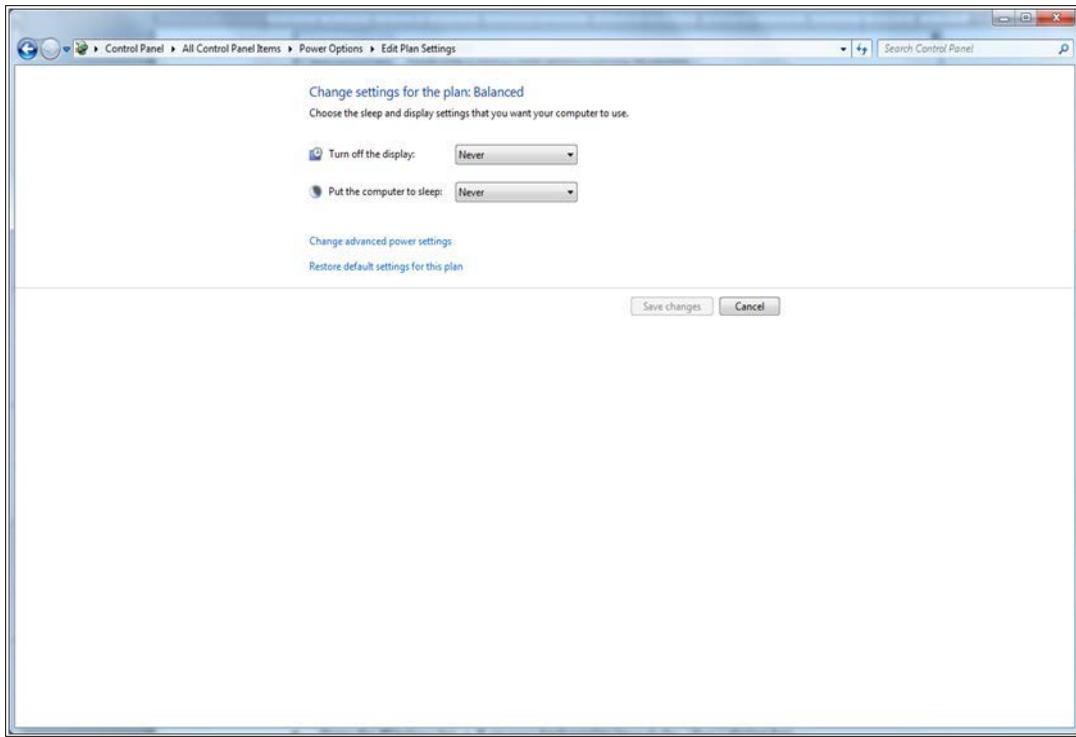


Figure 9 - Power Options Settings

- 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.

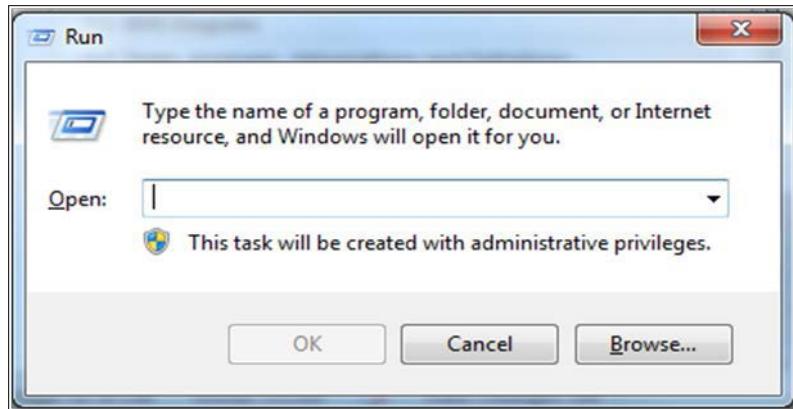


Figure 10 - Run Window

- Type in “control userpasswords2”

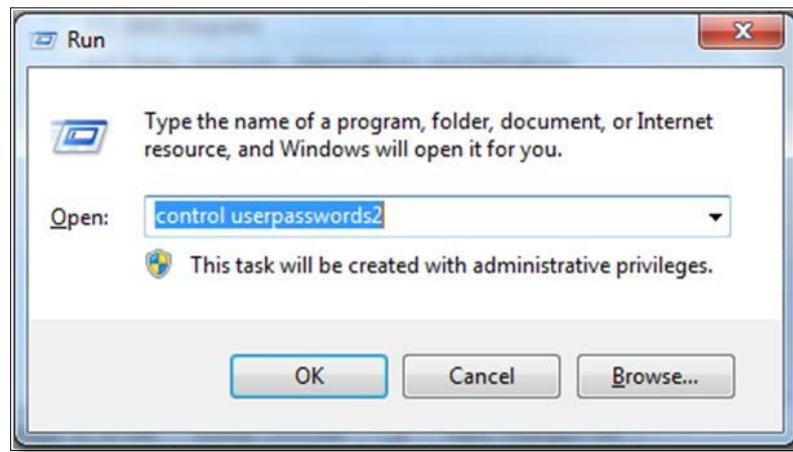


Figure 11 - Run Window with Command Entered

- Press Enter. The User Accounts window will display.

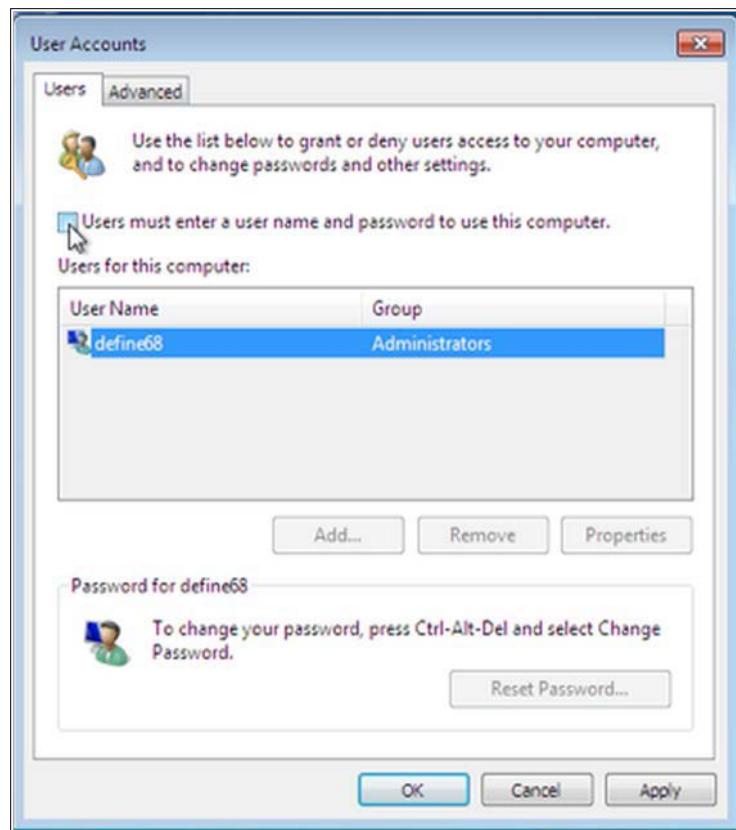


Figure 12 - User Accounts Window

- Uncheck the option “*Users must enter a user name and password to use this computer*” for the *BMS Default Kiosk User Account*



Figure 13 - User must enter a user name and password to use this computer option

- 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**

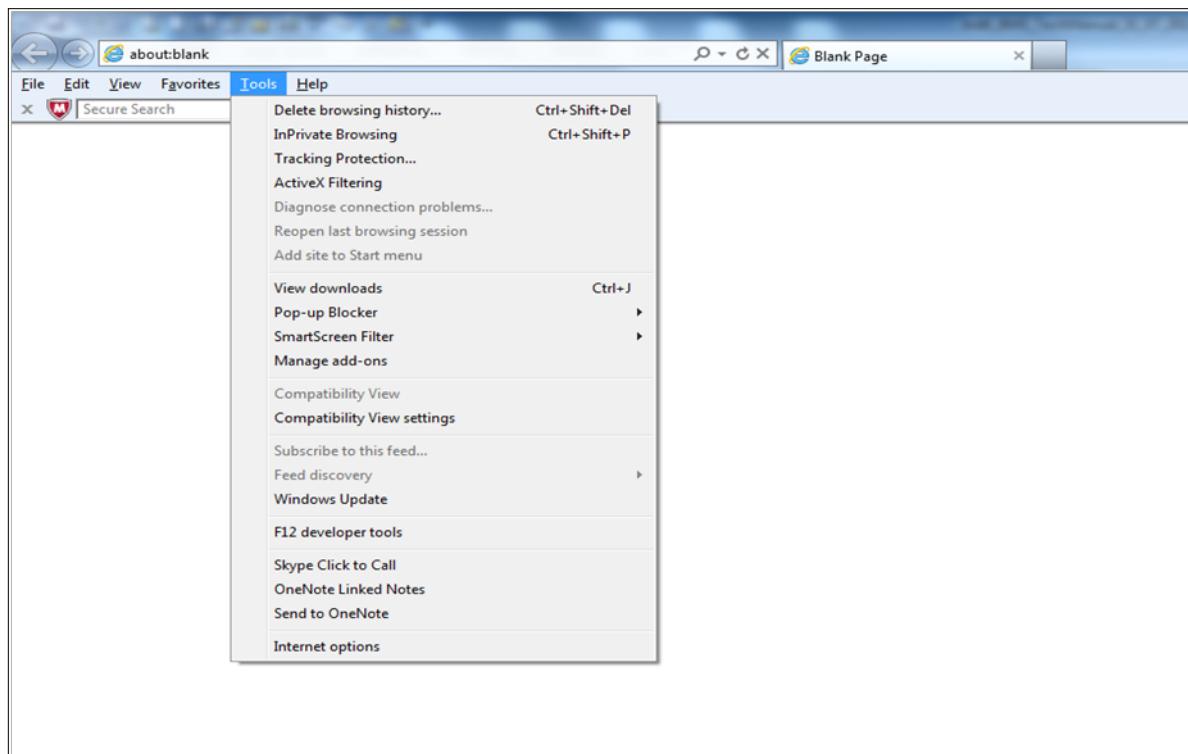


Figure 14 - Tools Menu of Internet Explorer

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

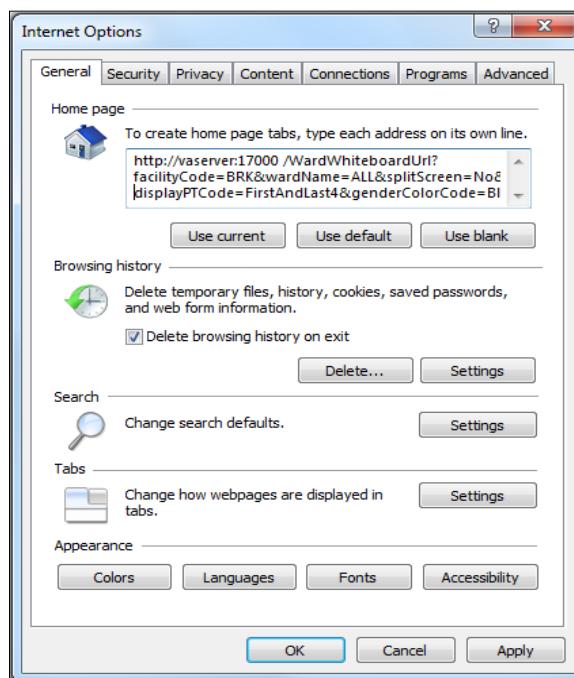


Figure 15 - General Tab of Internet Options

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://vaww.bms.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*

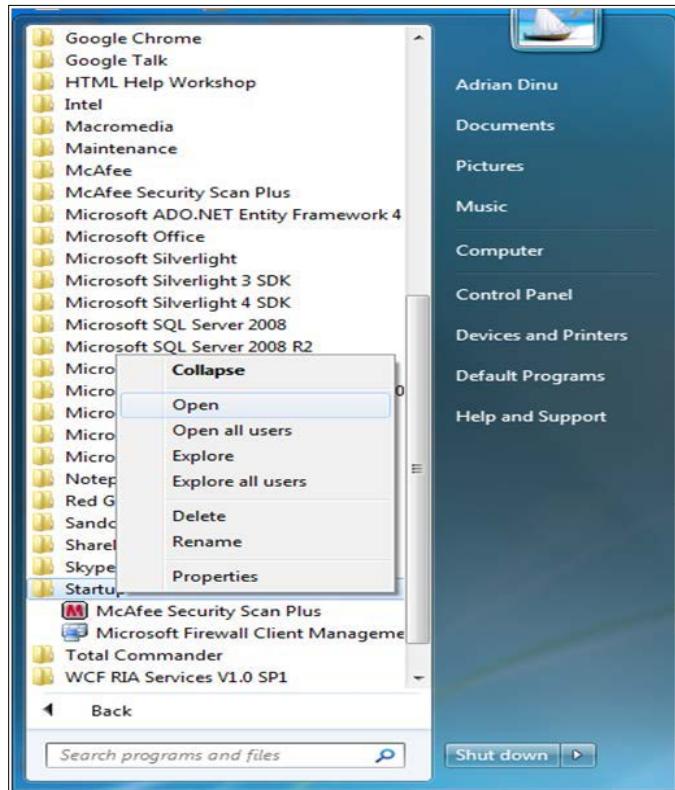


Figure 16 - Open Option

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

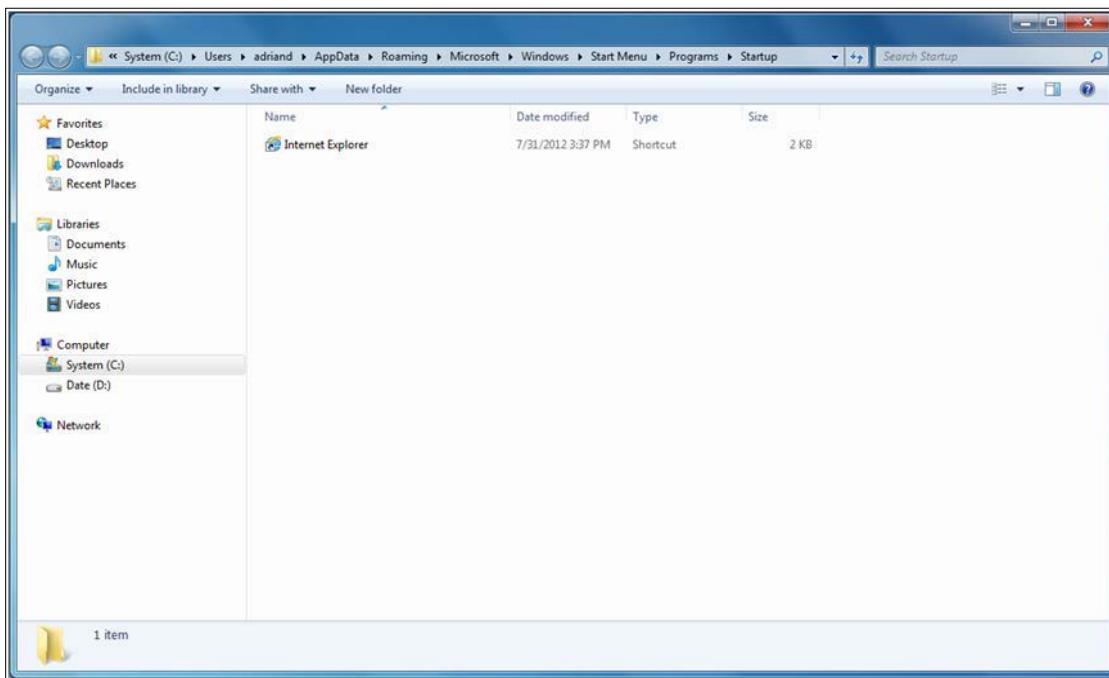


Figure 17 - Internet Explorer Shortcut

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]
"NoContextMenu"=dword:00000001
"NoFileOpen"=dword:00000001
"NoOpenInNewWnd"=dword:00000001
```

Figure 18 - Windows Registry Editor

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

2) Modify Local Group Policy Settings

For local group policy changes run gpedit.msc and make the following changes:

User Configuration\Administrative Templates\System\Ctrl+Alt+Del Options

Remove TaskManager	Disable
Remove Lock Computer.....	Enable
Remove Change Password.....	Enable
Remove Logoff	Enable

User Configuration\Administrative Templates\Control Panel\Display

o 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.

3) 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
- Right click on C drive
- Select New folder
- Enter the name of the folder, e.g. WhiteboardSnapshot

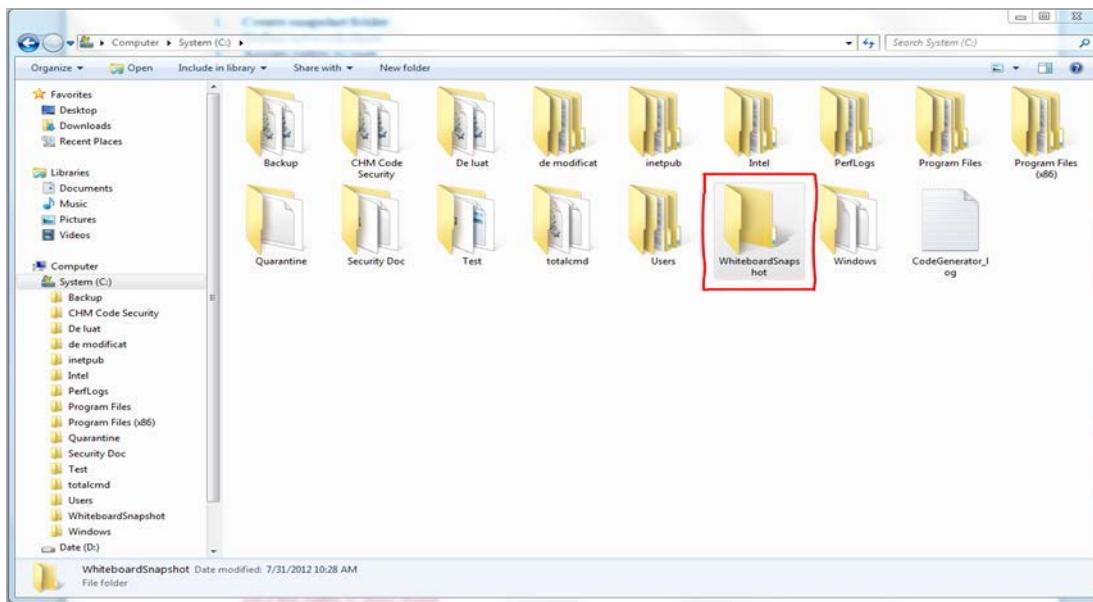


Figure 19: Whiteboard Snapshot Folder

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

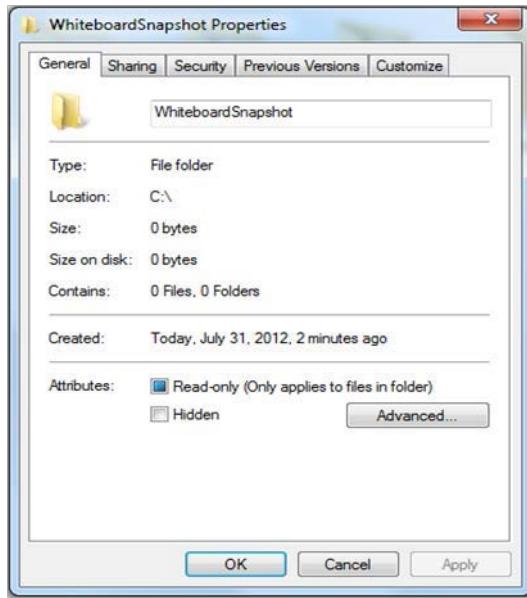


Figure 20: Whiteboard Snapshot Folder Properties

- Go to Sharing tab and select Advance Sharing option.

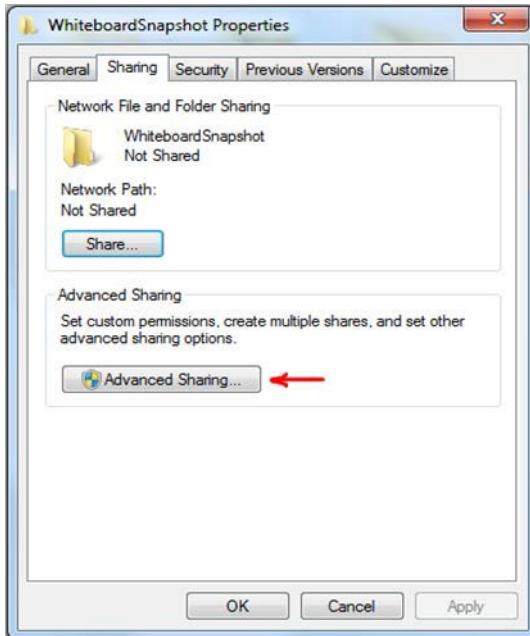


Figure 21: Advanced Sharing Option

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

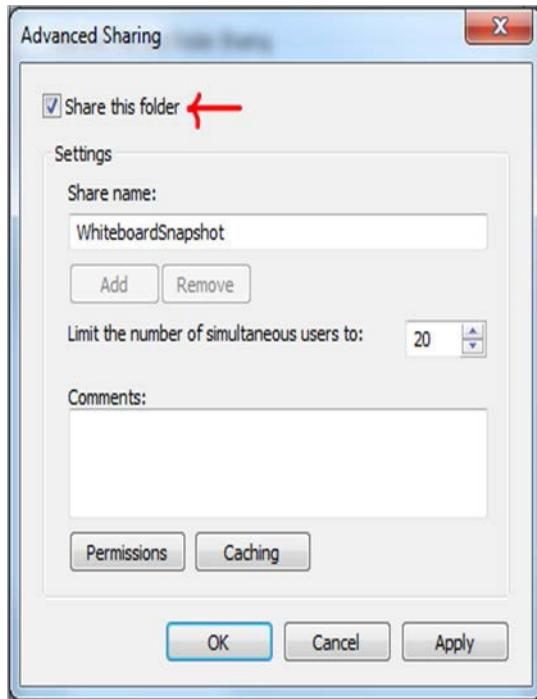


Figure 22: Share this folder Option

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\bms_svc_prod**) as the master service account that the BMS Services runs under. The Windows user (**aac\bms_svc_prod**) that is configured to be the Login that runs the four BMS Windows Services needs to have full rights to these shares.

This user ust 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.

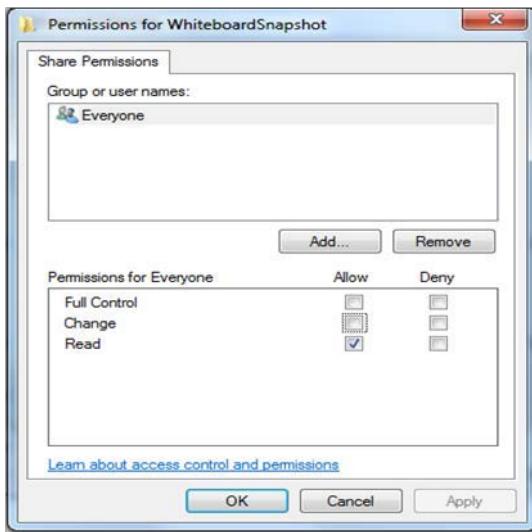


Figure 23: Permissions for Whiteboard Snapshot

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

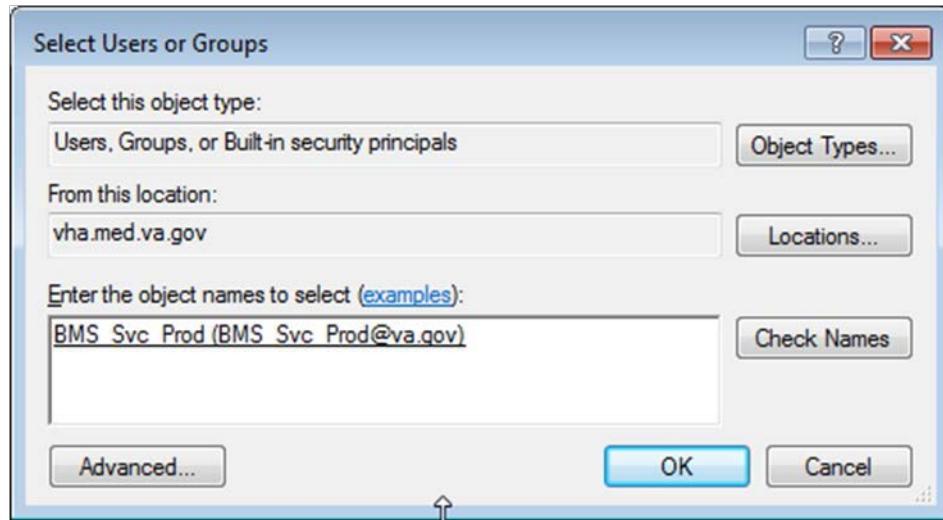


Figure 24: Select Users or Groups Window

- Click “Advanced” button to select user.

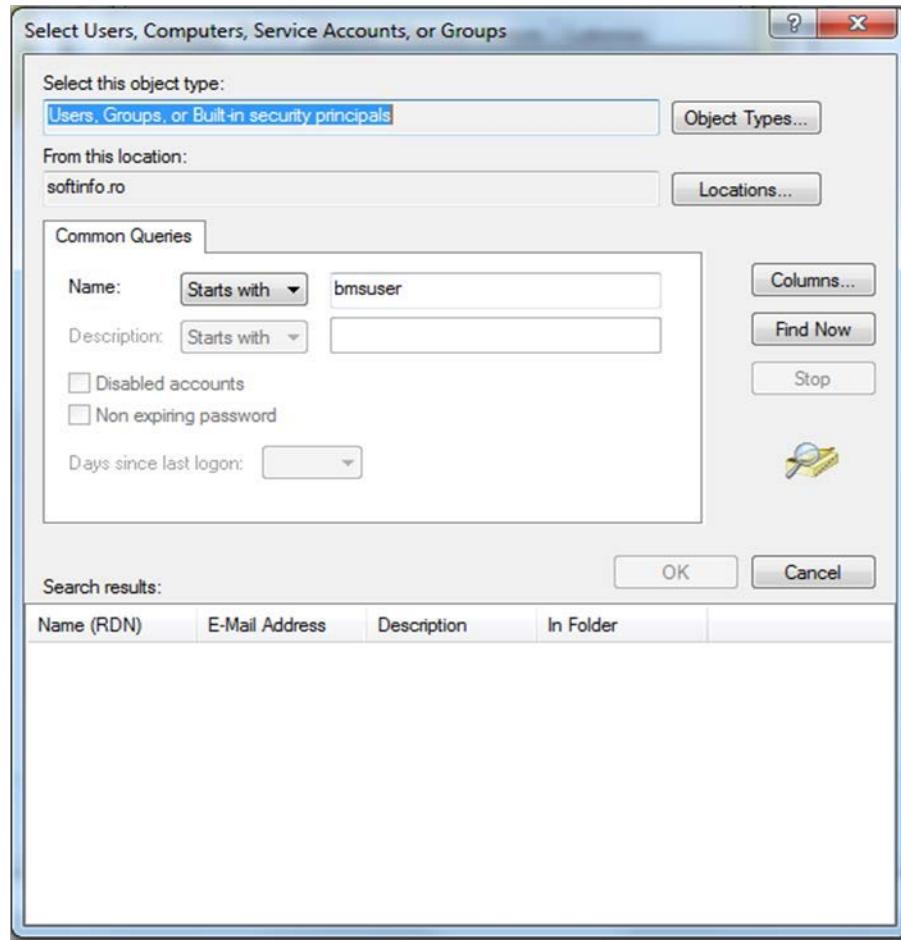


Figure 25: Advanced Section of Select Users or Groups Window

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

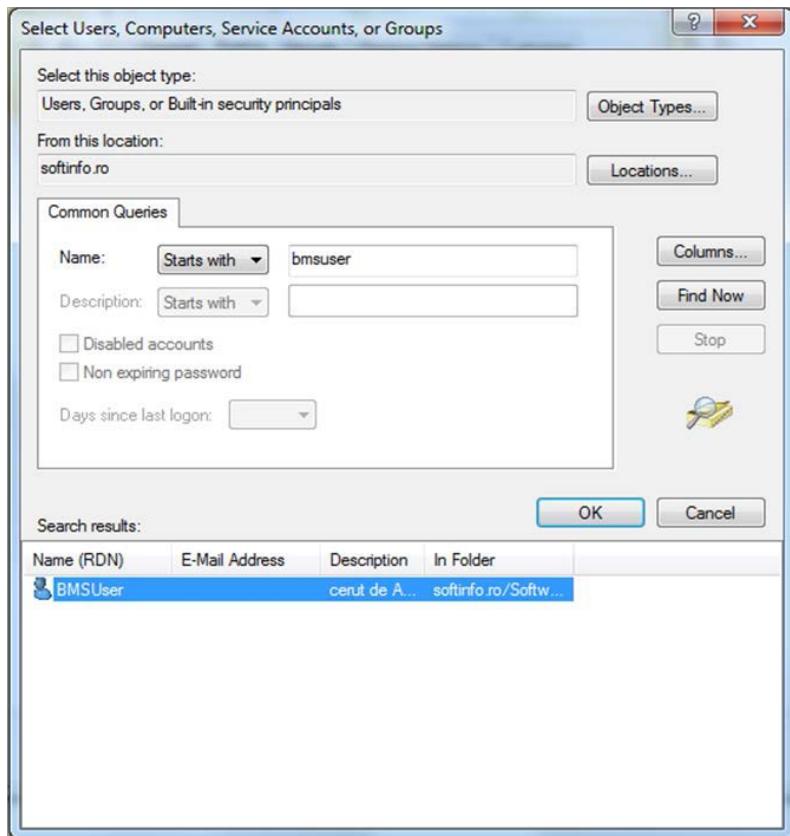


Figure 26: Search Result Section

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

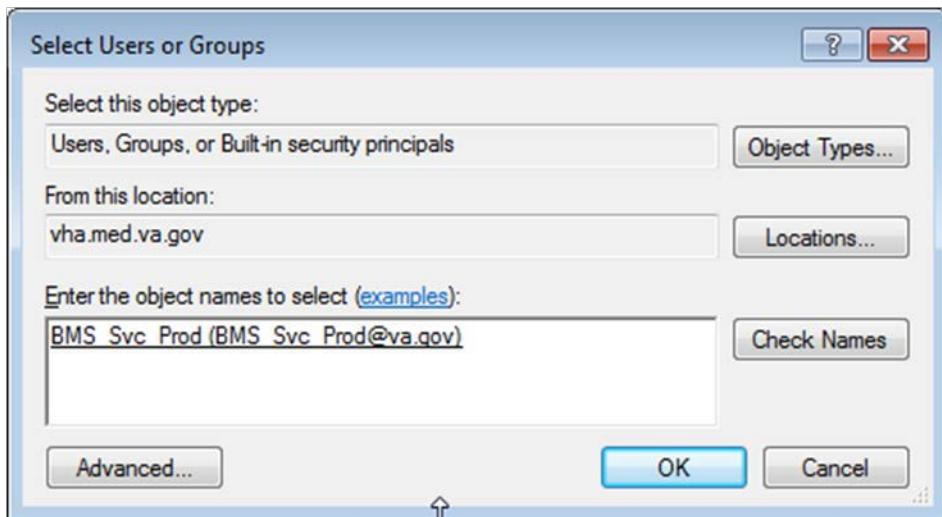


Figure 27: Object Names Section

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.

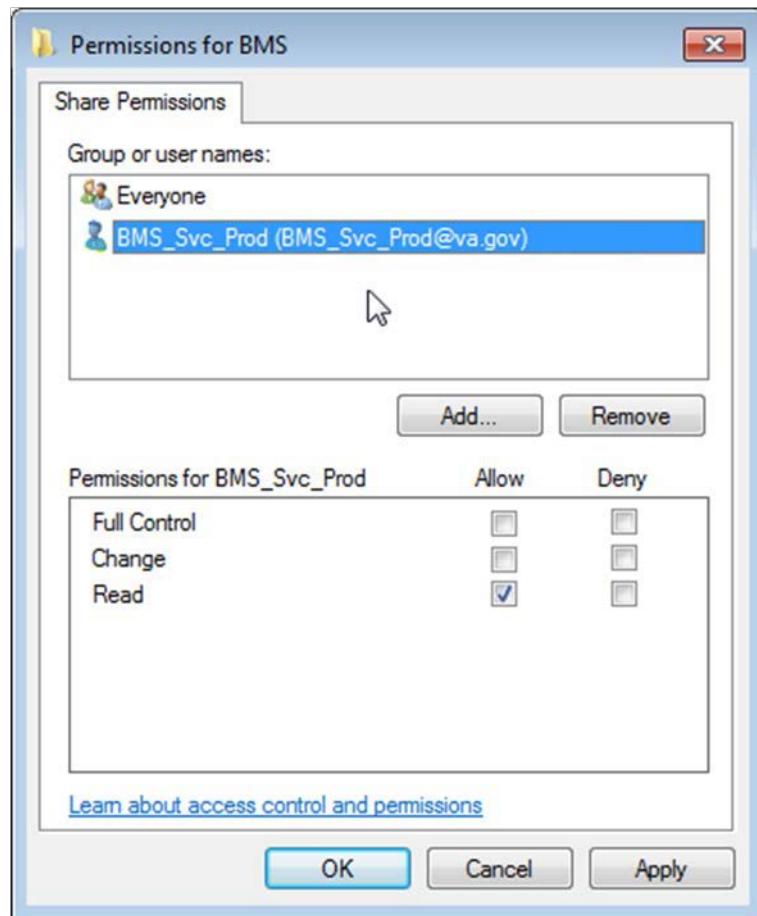


Figure 28: Permissions Window

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

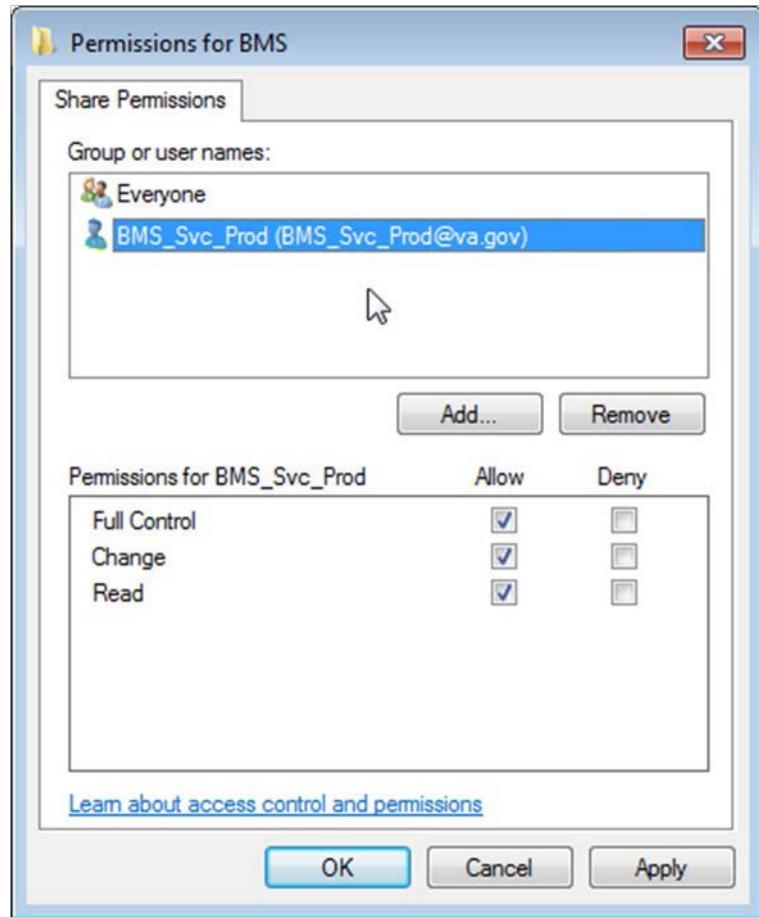


Figure 29: User Permissions

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

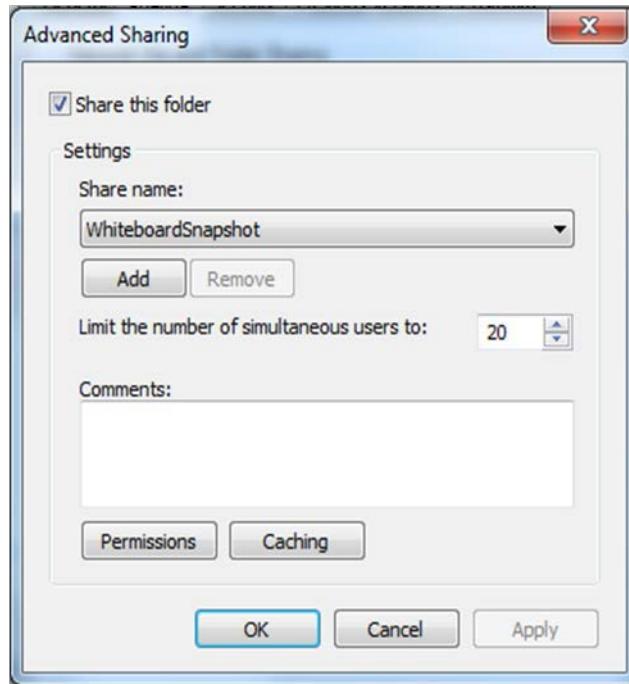


Figure 30: Advanced Sharing Window

- 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:

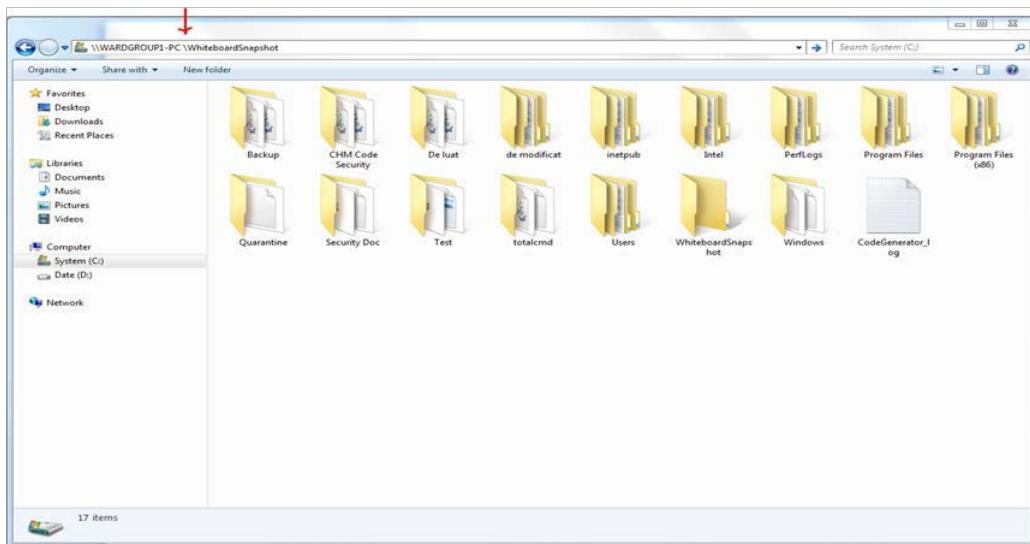


Figure 31: WardGroup1-PC Path

2.6.4 Assign Snapshot Folder Path to Ward Group

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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\bms_svc_prod) must have full read/write access to this folder.

The screenshot shows the 'Contingency Settings' page for 'VA BOSTON HEALTHCARE SYSTEM, BROCKTON CAMPUS (BRK)'. At the top left is a 'Return to Admin Main Page' link. The main content area has a header 'Contingency Settings - VA BOSTON HEALTHCARE SYSTEM, BROCKTON CAMPUS (BRK)'. Below this is a table with two columns: 'Ward Group' and 'Whiteboard Report Path'. The table contains three rows: 'WARD GROUP 1' with path '\\WARDGROUP1-PC\WhiteboardSnapshot', 'WARD GROUP 2' with path '\\WARDGROUP2-PC \WhiteboardSnapshot', and 'WG LILI' with an empty path field. A 'Save' button is located at the bottom right of the table. At the bottom of the page are links for 'BMS Home', 'Icon Legend', 'Information', and 'Help'.

Figure 32: 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.

The screenshot shows the 'Background Processors' page for 'VA BOSTON HEALTHCARE SYSTEM, BROCKTON CAMPUS (BRK)'. At the top left is a 'Return to Admin Page' link. The main content area has a header 'Background Processors - VA BOSTON HEALTHCARE SYSTEM, BROCKTON CAMPUS (BRK)'. Below this are two sections: 'Whiteboard Report' and 'Patients Pending Bed Placement List'. Each section contains a 'Current Scheduler:' field set to 'NONE', an 'Add/Update Method:' dropdown menu, and an 'Add/Update Scheduler:' dropdown menu. The 'Whiteboard Report' section has a 'Save Scheduler' button. The 'Patients Pending Bed Placement List' section also has a 'Save Scheduler' button. At the bottom right is a 'Cancel' button. At the very bottom of the page are links for 'BMS Home', 'Icon Legend', 'Information', and 'Help'.

Figure 33: 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](#)

Facility Configuration - VA NORTH TEXAS HEALTH CARE SYSTEM: DALLAS VA MEDICAL CENTER (NTX)	
PARAMETER	OPTIONS
BMS Server Time Zone	CENTRAL STANDARD TIME <input checked="" type="checkbox"/> CST <input type="checkbox"/> Yes <input type="checkbox"/> No
Facility Site Time Zone	
Auto-Removal Patients Pending Bed Placement List?	
Integrated Facility	
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: <input type="text" value="vhantxbedmgmt"/>	EMS Password: <input type="text" value="vhantxbedmgmt"/> EMS Password Confirm: <input type="text" value="vhantxbedmgmt"/>
Whiteboard Kiosk Default User Name: <input type="text" value="vhantxbedmgmt"/>	Whiteboard Kiosk Password: <input type="text" value="vhantxbedmgmt"/>
Whiteboard Kiosk Password Confirm: <input type="text" value="vhantxbedmgmt"/>	

[Submit](#) [Cancel](#)

↑

[BMS Home](#) | [Icon Legend](#) | [Information](#) |

Figure 34: 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

The screenshot shows the 'ADMINISTRATION SECTION - FACILITY EDIT' page. At the top, it displays 'Select Facility Name:' and 'NTX (549 - DALLAS)'. Below this, there's a table for facility details: Facility Site ID (NTX), Full Facility Name (VA NORTH TEXAS HEALTH CARE SYSTEM: DALLAS VA), Facility Point-of-Contact (JEFF ALLEN), Facility POC Email (JEFFREYD.ALLEN@VA.GOV), Facility POC Telephone (214 857-4007), Facility Address 1 (4500 S. LANCASTER RD.), Facility Address 2 (DALLAS, TEXAS 75216), Facility City/State/Zip (DALLAS, TX 75216). A 'User operations:' section contains a grid of users with checkboxes for 'Selected', 'User Name', 'BMS Read', and 'BMS Write'. The grid shows two rows: 'aac.dva.va.gov\VAACBAPJSJ' and 'aac.dva.va.gov\vaachernas'. Buttons for 'Add User' and 'Remove Selected' are present. Further down, there are sections for 'VSN' (17), 'Region' (2), 'BMS Active/Live Site?' (Yes), 'Integrated Facility?' (No), 'Integrated Site List' (Select Existing List), 'Ward Prefix' (empty), 'Ward Suffix' (empty), 'EMS Mail Sender' (VHANTXBMSMAILER@), 'Site Alias' (empty), 'Site Alias' (empty), 'EMS Default User Name' (vhantxadmngmt), 'EMS Password' (empty), 'EMS Password Confirm' (empty), 'BMS Server Time Zone' (Central Standard Time), 'Facility Site Time Zone' (Central Standard Time), 'Auto-Removal Patients Pending Bed Placement List?' (Yes), 'Medical Center ID #?' (SELECT MEDICAL CENTER), 'ADT Prefix' (empty), 'ADT Suffix' (empty), 'Event Mail Sender' (VHANTXBMSEVENTMA), 'Site Alias' (empty), 'Local Time Adjust' (0), 'Whiteboard Kiosk Default User Name' (vhantxadmngmt), 'Whiteboard Kiosk Password' (empty), and 'Whiteboard Kiosk Password Confirm' (empty). At the bottom, there are 'Submit' and 'Cancel' buttons.

Figure 35: 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://vaww.bms.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:

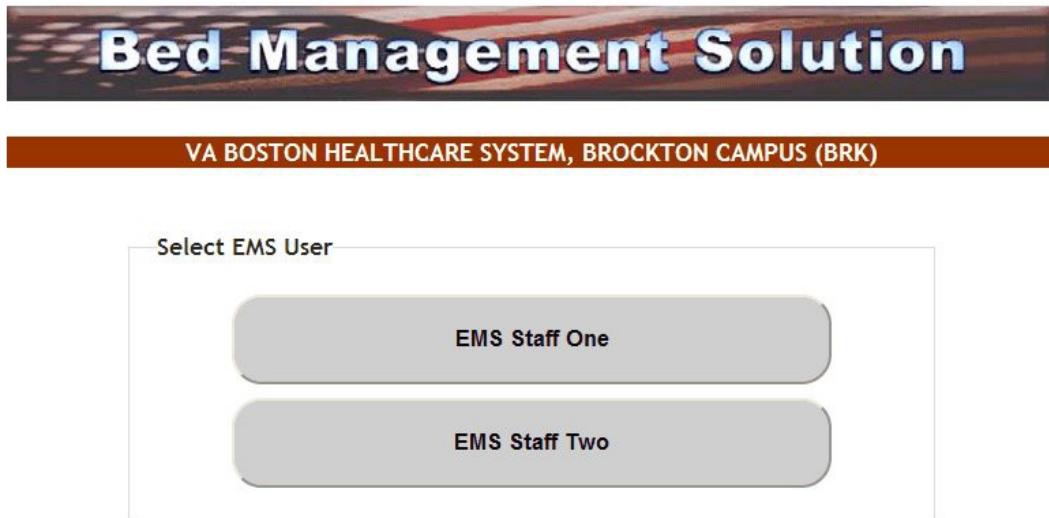


Figure 36: EMS Staff Page for Mobile Devices

2.8 VistA Integration

This chapter describes the process of importing vocabularies, entities, patient admission, transfer, Bed Management Solution (BMS) Technical Manual

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.

The screenshot shows the 'Background Processors' page under the 'Admin' menu. The 'VistA Sites' tab is selected. On the left, a sidebar lists 'Defined Vista Sites' with names like V03NYN - 630, V09LEX - 596, etc. In the main area, there's a 'VistA Site' section with 'Name' and 'Time Zone' fields. Below it is a 'Connections' section for 'ODBC' and 'MDWS'. The 'ODBC' section includes 'Connection string', 'User', and 'Password' fields, along with 'Test Connection' and 'Save' buttons. The 'MDWS' section includes 'Mdws Endpoint' and 'Test Connection' buttons. At the bottom are 'Save' and 'Cancel' buttons.

Figure 37: 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 and MDWS. Fill in the following data for the ODBC method:

Table 19: New VistA Site Parameters

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	The specific instance of MDWS that the individual site will bind too.

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 for details).

The Schedulers tab is displayed as in the following image:

Admin Menu Logout

Background Processors

VistA Sites Schedulers VistA Integration Audit Numi Whiteboard Report

Add new scheduler

every 2 minutes Every 4 hours Every hour	Name: Every hour
Recur every: 1	Day (s)
Time Zone: CST	
<input type="radio"/> Occurs once at: 01:00	
<input checked="" type="radio"/> Occurs every: 1	Hour: 01:00
	Start Time: 01:00
	End Time: 23:00

Save Delete Cancel

[Back to Regional Page](#)

Figure 38: Schedulers Tab

2.8.2.1 Adding a New Scheduler

To add a new scheduler follow the steps presented below.

- From the Background Processors page select the Schedulers tab.

- In the Schedulers tab fill in the following data:

Table 20: New Scheduler Parameters

Column	Description
Name	The name of the scheduler.
Recur 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:

The screenshot shows the VistA Integration tab with the following details:

- Admin Menu** and **Logout** buttons are at the top.
- VistA Sites**, **Schedulers**, **VistA Integration** (highlighted in blue), **Audit**, **Numi**, and **Whiteboard Report** tabs are present.
- The **Background Processors** section displays two scheduled tasks:

 - ADT**: Current Method is MDWS, Current Scheduler is Every 4 hours. In the Details panel, Data is set to Specialty, Method to MDWS, and Scheduler to Every 4 hours. Buttons for **Save** and **Cancel** are shown.
 - Entities**: Current Method is MDWS, Current Scheduler is every 2 minutes. In the Details panel, Data is set to Hospital Location, Method to MDWS, and Scheduler to every 2 minutes. In the Run Job panel, Method is set to MDWS, Start Time is 09/07/12 00:00, and End Time is 09/07/12 00:00. A **Run** button is present.

- Back to Regional Page** link is at the bottom.

Figure 39: VistA Integration Tab

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.

The screenshot shows the Audit tab of a software application. At the top, there is a navigation bar with tabs: Admin Menu, Logout, Background Processors, Vista Sites, Schedulers, Vista Integration, Audit (which is the active tab), Numi, and Whiteboard Report. The Audit tab contains several sections for filtering audit logs:

- Vista site:** V01BHS - 523
- Data types:** ADT, Patients Pending Bed Placement List, Orderable Item, Specialty, Treating Specialty, Facility Movement Type.
- and method:** ODBC, MDWS.
- with status:** Succeeded (selected), Failed, Running, Partially Succeeded.
- all audit log entries registered:** Today (selected), Last week, Last month, During this specific period (with date range 09/04/12 to 09/05/12).
- Filter By:** A button to execute the selected filters.
- Entities:** Hospital Location, Patient (selected), Room Bed, Ward Location, Medical Center Division.

At the bottom right of the form, there is a link: [Back to Regional Page](#).

Figure 40: 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.

Admin Menu		Background Processors										
Vista Sites	Schedulers	Vista Integration		Audit	Numi	Whiteboard Report						
Vista site, VDIBS	<input type="checkbox"/> data types <input type="checkbox"/> ADT <input type="checkbox"/> Waiting List <input type="checkbox"/> Vocabularies <input checked="" type="checkbox"/> Orderable Item <input checked="" type="checkbox"/> Specialty <input checked="" type="checkbox"/> Treating Specialty <input checked="" type="checkbox"/> Facility Movement Type <input type="checkbox"/> Entities <input checked="" type="checkbox"/> Hospital Location <input checked="" type="checkbox"/> Patient <input checked="" type="checkbox"/> Room Bed <input checked="" type="checkbox"/> Ward Location <input checked="" type="checkbox"/> Medical Center Division	and method <input type="checkbox"/> ODBC <input checked="" type="checkbox"/> MNHS	with status <input checked="" type="checkbox"/> Succeeded <input type="checkbox"/> Failed <input type="checkbox"/> Running <input type="checkbox"/> Partially Succeeded	all audit log entries registered <input checked="" type="radio"/> Today <input type="radio"/> Last week <input type="radio"/> Last month <input type="radio"/> During this specific period <input type="radio"/> Filter By	<input type="text" value="6/10/12"/> <input type="button" value="From"/> <input type="text" value="6/10/12"/> <input type="button" value="To"/>	<input type="text" value="6/10/12"/> <input type="button" value="From"/> <input type="text" value="6/10/12"/> <input type="button" value="To"/>						
VDIBS	ADWS	Specialty	112	06/10/12 10:19:51	06/10/12 10:19:54	Manual	(StartDate, 6/10/2012 12:00:00 AM)(EndDate, 6/10/2012 12:00:00 AM)					Successed
VDIBS	ADWS	Treating Specialty	99	06/10/12 10:19:54	06/10/12 10:19:55	Manual	(StartDate, 6/10/2012 12:00:00 AM)(EndDate, 6/10/2012 12:00:00 AM)					Successed
VDIBS	ADWS	Facility Movement Type	50	06/10/12 10:19:55	06/10/12 10:19:56	Manual	(StartDate, 6/10/2012 12:00:00 AM)(EndDate, 6/10/2012 12:00:00 AM)					Successed
VDIBS	ADWS	Orderable Item	2645	06/10/12 10:19:56	06/10/12 10:19:57	Manual	(StartDate, 6/10/2012 12:00:00 AM)(EndDate, 6/10/2012 12:00:00 AM)					Successed
VDIBS	ADWS	Specialty	113	06/10/12 10:20:49	06/10/12 10:20:50	Manual	(StartDate, 6/10/2012 12:00:00 AM)(EndDate, 6/10/2012 12:00:00 AM)					Successed
VDIBS	ADWS	Treating Specialty	61	06/10/12 10:20:49	06/10/12 10:20:51	Manual	(StartDate, 6/10/2012 12:00:00 AM)(EndDate, 6/10/2012 12:00:00 AM)					Successed
VDIBS	ADWS	Facility Movement Type	52	06/10/12 10:20:52	06/10/12 10:20:52	Manual	(StartDate, 6/10/2012 12:00:00 AM)(EndDate, 6/10/2012 12:00:00 AM)					Successed
VDIBS	ADWS	Orderable Item	2648	06/10/12 10:20:52	06/10/12 10:20:54	Manual	(StartDate, 6/10/2012 12:00:00 AM)(EndDate, 6/10/2012 12:00:00 AM)					Successed
VDIBS	ADWS	Orderable Item	2648	06/10/12 10:37:52	06/10/12 10:37:53	Manual	(StartDate, 6/10/2012 12:00:00 AM)(EndDate, 6/10/2012 12:00:00 AM)					Successed
VDIBS	ADWS	Hospital Location	83	06/10/12 10:41:40	06/10/12 10:41:53	Manual	(StartDate, 6/10/2012 12:00:00 AM)(EndDate, 6/10/2012 12:00:00 AM)					Successed
VDIBS	ADWS	Ward Location	21	06/10/12 10:41:53	06/10/12 10:41:58	Manual	(StartDate, 6/10/2012 12:00:00 AM)(EndDate, 6/10/2012 12:00:00 AM)					Successed
VDIBS	ADWS	Room Bed	87	06/10/12 10:41:58	06/10/12 10:44:40	Manual	(StartDate, 6/10/2012 12:00:00 AM)(EndDate, 6/10/2012 12:00:00 AM)					Successed
VDIBS	ADWS	Medical Center Division	8	06/10/12 10:44:40	06/10/12 10:44:40	Manual	(StartDate, 6/10/2012 12:00:00 AM)(EndDate, 6/10/2012 12:00:00 AM)					Successed
VDIBS	ADWS	Orderable Item	2649	06/10/12 10:46:27	06/10/12 10:46:28	Manual	(StartDate, 6/10/2012 12:00:00 AM)(EndDate, 6/10/2012 12:00:00 AM)					Successed
VDIBS	ADWS	Patient	365	06/10/12 10:46:56	06/10/12 10:46:57	Manual	(StartDate, 6/10/2012 12:00:00 AM)(EndDate, 6/10/2012 12:00:00 AM)					Successed
VDIBS	ADWS	Orderable Item	2650	06/10/12 11:03:54	06/10/12 11:03:56	Manual	(StartDate, 6/10/2012 12:00:00 AM)(EndDate, 6/10/2012 12:00:00 AM)					Successed
VDIBS	ADWS	Hospital Location	87	06/10/12 11:03:56	06/10/12 11:03:57	Manual	(StartDate, 6/10/2012 12:00:00 AM)(EndDate, 6/10/2012 12:00:00 AM)					Successed
VDIBS	ADWS	Room Bed	87	06/10/12 12:20:34	06/10/12 12:20:38	Manual	(StartDate, 6/10/2012 12:00:00 AM)(EndDate, 6/10/2012 12:00:00 PM)					Successed
VDIBS	ADWS	Room Bed	87	06/10/12 12:24:13	06/10/12 12:24:17	Manual	(StartDate, 6/10/2012 12:00:00 AM)(EndDate, 6/10/2012 12:00:00 PM)					Successed
VDIBS	ADWS	Room Bed	87	06/10/12 12:25:47	06/10/12 12:25:51	Manual	(StartDate, 6/10/2012 12:00:00 AM)(EndDate, 6/10/2012 12:00:00 PM)					Successed

Figure 41: View Audit Results

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

Table 21: View Audit Results Columns Report

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.

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 [Section 2.7.1](#).

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.



Figure 42: NUMI Tab

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

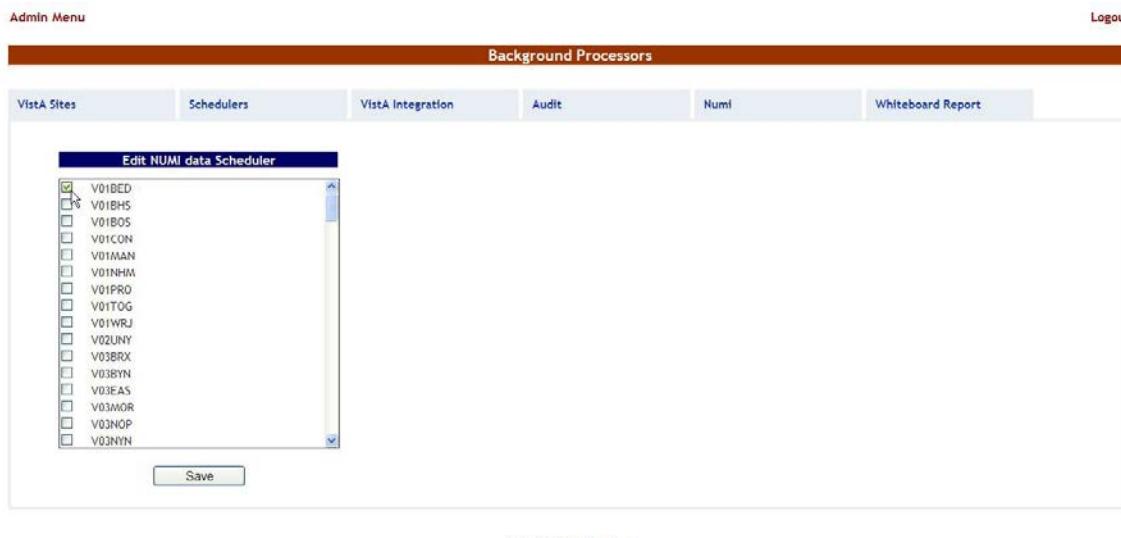


Figure 43: Selecting the VistA Site for Which to Gather NUMI Data

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)
- BMS Services (BMS Service and Win ServiceHost)
 - BMS Service

- Win Service Host (EIS Service, EVS Service, PAP service, PDP service, RS service and STS service)
- BMS Web Site
- 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
|   | \---LinqToSql
|   | \---LocalReportWhiteboard
|   | \---Scripts
| +---EIS
|   | \---DBRepository
| +---EVS
|   | \---DBRepository
| +---PAP
|   | \---DBRepository
| +---PDP
| +---RS
| +---Shared
| \---STS
+---WebSite
| +---bin
|   | \--- LocalReportWhiteboard
|   | \--- Scripts
| +---Content
|   | \---images
|   | \---themes
|   |   | +---base
|   |   | \---images
| +---Reporting
| +---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)
 - 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

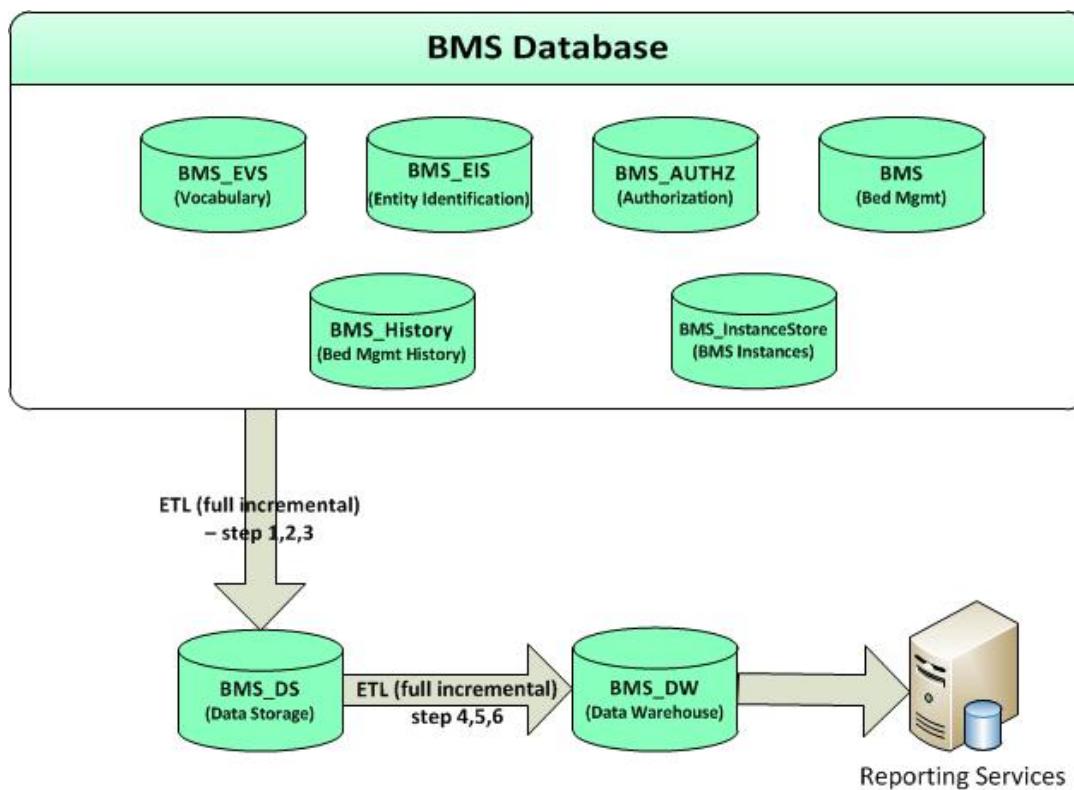


Figure 44: Database Architecture

3.4 Component Files

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

Table 22: BMS Database Files

Relative Path	File	Description
Bed Management Solution (BMS) Technical Manual		April, 2016

Relative Path	File	Description
Databases\SQLData Databases\SQLData2 Databases\SQLLogs	BMS_Data.mdf	Database files (BMS database, BMS Authz, BMS EIS, BMS EVS....)
	BMS_Data_F.ndf	
	BMS_Log.ldf	
	BMS_AUTHZ_Data.mdf	
	BMS_AUTHZ_Log.ldf	
	BMS_DS_Data.mdf	
	BMS_DS_Data_F.ndf	
	BMS_DS_Log.ldf	
	BMS_DW_Data.mdf	
	BMS_DW_Log.ldf	
	BMS_EIS_Data.mdf	
	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_Logs	BMS_Report_Log.txt	BMS Report Full job file log and BMS Incremental job file log.
	BMS_Report_Log_Incremental.txt	
Databases\SQLData\WMI_UserGroup	AdapterRepository.dll	Binaries of WMI UserGroup application.
	Common.dll	
	connectionConfiguration.config	
	Connections.SingleDatabase.dll	
	ContextWriter.dll	
	General.MT.dll	
	Infoworld.Configuration.dll	
	MiddleTier.dll	
	MS.Common.dll	

Relative Path	File	Description
	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	
Databases\SQLData\WMI_UserGroup\ DBRepository	Connections.xml InfoWorld.WMI_UserGroup.DTO.DTOUserGroupDomain.xml	File used to set the connection to the database. 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.

Table 23: BMS Service Files

Relative Path	File	Description
Services\BMS	AdapterRepository.dll AuditTrailSender.dll AuthenticationProxy.dll AuthorizationSubscriber.dll BMS.Contracts.dll BMS.Facade.dll BMS.Facade.Contracts.dll BMS.Host.dll BMS.MT.dll BMS.MT.dll.config BMS.Numi.dll	The binaries of the BMS Service.

Relative Path	File	Description
	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	
	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	

Relative Path	File	Description
	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 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	
Services\BMS\DBRepository	BMS.MT.Admission.xml BMS.MT.AdmissionInfo.xml BMS.MT.AdmissionLevelOfCare.xml BMS.MT.BedCleanInfo.xml BMS.MT.BedCleaning.xml BMS.MT.BedCleanMobileInfo.xml BMS.MT.BedDNDAndOOSFromVista.xml BMS.MT.BedOccupancyCount.xml BMS.MT.BedOccupancyInfo.xml BMS.MT.BedStaff.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 (Read), insert (Create), update (Update) and 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 database.
	BMS.MT.BedStaffHistory.xml	

Relative Path	File	Description
	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 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.VistalIntegrationLog.xml	

Relative Path	File	Description
	BMS.MT.VistaOperation.xml	
	BMS.MT.WaitingListItem.xml	
	BMS.MT.WaitingListReport.xml	
	ConfigurationService.DataAccess.ConfigurationsBE.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
Services\EIS	BindingExtensions.dll	Binaries of the EIS Service.
	DTOGenericService.dll	
	DTOHL7Service.dll	
	EISAuditUtil.dll	
	EISAutomaticLink.dll	
	EISCache.dll	
	EISContracts.dll	
	EISDataAccess.dll	
	EISNotifications.dll	
	EISServiceGenericImplementation.dll	
	EISServiceHL7Implementation.dll	
	EISServiceImplementation.dll	
Services\EIS\DBRepository	EISServiceImplementation.dll.config	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 (Read), insert (Create), update (Update) and delete (Delete). Stored procedure
	ICSharpCode.SharpZipLib.dll	
	Connections.xml	
	InfoWorld.EIS.DTOGenericService.DTOA utomaticLink.xml	
	InfoWorld.EIS.DTOGenericService.DTOD omain.xml	
	InfoWorld.EIS.DTOGenericService.DTOE ntity.xml	(Read), insert (Create), update (Update) and delete (Delete). Stored procedure
	InfoWorld.EIS.DTOGenericService.DTOE ntityType.xml	

Relative Path	File	Description
	InfoWorld.EIS.DTOGenericService.DTOEntityTypeClassifier.xml InfoWorld.EIS.DTOGenericService.DTOEntityTypeTraitCoresp.xml InfoWorld.EIS.DTOGenericService.DTOTrait.xml InfoWorld.EIS.DTOGenericService.DTOTraitAssignment.xml InfoWorld.EIS.DTOGenericService.EntityManagement.DTOEntityManageLink.xml InfoWorld.EIS.DTOGenericService.EntityManagement.DTOEntityMerge.xml InfoWorld.EIS.DTOGenericService.EntityManagement.DTOEntitySetStatus.xml InfoWorld.EIS.DTOGenericService.LinkAlgorithmManagement.LinkAlgorithmTrait.xml InfoWorld.EIS.DTOGenericService.LinkAlgorithmManagement.LinkAlgorithmTraits.xml InfoWorld.EIS.DTOGenericService.LinkAlgorithmManagement.Match.xml InfoWorld.EIS.DTOGenericService.QueryFunctions.DTOConflictingEntities.xml InfoWorld.EIS.DTOGenericService.QueryFunctions.DTOFindEntity.xml InfoWorld.EIS.DTOGenericService.QueryFunctions.DTOGetAllInfoPar.xml InfoWorld.EIS.DTOGenericService.QueryFunctions.DTOGetAllInformationForAnEntity.xml InfoWorld.EIS.DTOGenericService.QueryFunctions.DTOGetSupportedDomains.xml InfoWorld.EIS.DTOGenericService.QueryFunctions.DTOLinkedEntities.xml InfoWorld.EIS.DTOHL7Service.Address.xml InfoWorld.EIS.DTOHL7Service.Container.xml InfoWorld.EIS.DTOHL7Service.ContainerFiltr.xml InfoWorld.EIS.DTOHL7Service.ContainerInfo.xml InfoWorld.EIS.DTOHL7Service.Device.xml InfoWorld.EIS.DTOHL7Service.DeviceFiltr.xml InfoWorld.EIS.DTOHL7Service.DeviceInfo.xml	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_EIS database.

Relative Path	File	Description
	InfoWorld.EIS.DTOHL7Service.ManufacturedMaterial.xml InfoWorld.EIS.DTOHL7Service.ManufacturedMaterialFiltr.xml InfoWorld.EIS.DTOHL7Service.ManufacturedMaterialInfo.xml InfoWorld.EIS.DTOHL7Service.Material.xml InfoWorld.EIS.DTOHL7Service.MaterialFiltr.xml InfoWorld.EIS.DTOHL7Service.MaterialInfo.xml InfoWorld.EIS.DTOHL7Service.NonPersonLivingSubject.xml InfoWorld.EIS.DTOHL7Service.NonPersonLivingSubjectFiltr.xml InfoWorld.EIS.DTOHL7Service.NonPersonLivingSubjectInfo.xml InfoWorld.EIS.DTOHL7Service.Organization.xml InfoWorld.EIS.DTOHL7Service.OrganizationFiltr.xml InfoWorld.EIS.DTOHL7Service.OrganizationInfo.xml InfoWorld.EIS.DTOHL7Service.Person.xml 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.Telemcom.xml InfoWorld.WSEventing.DTO.CustomSubscriptions.xml InfoWorld.WSEventing.DTO.Endpoints.xml InfoWorld.WSEventing.DTO.FilterDialects.xml InfoWorld.WSEventing.DTO.Message.xml InfoWorld.WSEventing.DTO.MessageGet.xml	
	InfoWorld.WSEventing.DTO.MessageGetDeliveryTo.xml	

Relative Path	File	Description
	InfoWorld.WSEventing.DTO.Subscriptions.xml	
Services\EVS	ActionManager.dll BindingExtensions.dll CodingSystems.DAL.dll Configuration.dll connectionConfiguration.config Connections.Common.dll CTSEdit.dll CTSEdit.Utils.dll CTSEditBulk.dll CTSExport.dll CTSImport.dll CTSImportProxy.dll CTSService.Utils.dll DTOCodeMappingEdit.dll DTOMapping.dll 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	Binaries of EVS service.

Relative Path	File	Description
	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 VocabularyRuntime.DTO.dll XamlContracts.dll XamlDataContracts.dll XamlImpl.dll	
Services\EVS\DBRepository	Connections.xml InfoWorld.EVS.CTSEdit.DTO.Association.xml InfoWorld.EVS.CTSEdit.DTO.CodingSystem.xml InfoWorld.EVS.CTSEdit.DTO.Concept.xml InfoWorld.EVS.CTSEdit.DTO.ConceptAssociationsToCMultiAttrib.xml InfoWorld.EVS.CTSEdit.DTO.ConceptProperty.xml InfoWorld.EVS.CTSEdit.DTO.DSMap.xml InfoWorld.EVS.CTSEdit.DTO.DSMapEntry.xml InfoWorld.EVS.CTSEdit.DTO.DTOMergeAndValueSet.xml InfoWorld.EVS.CTSEdit.DTO.DTOValueSet.xml InfoWorld.EVS.CTSEdit.DTO.DTOVocabularyDomain.xml InfoWorld.EVS.CTSEdit.DTO.Relation.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 (Read), insert (Create), update (Update) and 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.ValueSets.xml	

Relative Path	File	Description
	InfoWorld.EVS.CTSMAPI.DTO.CodeSystemInfo.xml InfoWorld.EVS.CTSMAPI.DTO.DomainValueSetFiltr.xml InfoWorld.EVS.CTSMAPI.DTO.DSConceptsByCode.xml InfoWorld.EVS.CTSMAPI.DTO.DSConceptsByCodeProperties.xml InfoWorld.EVS.CTSMAPI.DTO.DSConceptsByDesignation.xml InfoWorld.EVS.CTSMAPI.DTO.DSConceptsByDesignationProperties.xml InfoWorld.EVS.CTSMAPI.DTO.DSFullValueSetDescription.xml InfoWorld.EVS.CTSMAPI.DTO.DSValueSetContextExpansion.xml InfoWorld.EVS.CTSMAPI.DTO.DSValueSetExpansion.xml InfoWorld.EVS.CTSMAPI.DTO.DSValueSetExpansionProperties.xml InfoWorld.EVS.CTSMAPI.DTO.DSValueSetExpansionReverse.xml InfoWorld.EVS.CTSMAPI.DTO.DSVocabularyDomainDescription.xml InfoWorld.EVS.CTSMAPI.DTO.GetFillInDetailsCD.xml InfoWorld.EVS.CTSMAPI.DTO.IsCodeInValueSet.xml InfoWorld.EVS.CTSMAPI.DTO.ValidateCode.xml InfoWorld.EVS.CTSMAPI.DTO.ValueSetCodeReference.xml InfoWorld.EVS.CTSMAPI.DTO.ValueSetFilter.xml InfoWorld.EVS.CTSMAPI.DTO.VocabularyDomainFiltr.xml InfoWorld.EVS.CTSMapping.DTO.DSMapConceptCode.xml InfoWorld.EVS.CTSMapping.DTO.DSMapEntry.xml InfoWorld.EVS.CTSMapping.DTO.DSSupportedMapsFiltr.xml InfoWorld.EVS.CTSVAPI.DTO.CodeSystem.xml InfoWorld.EVS.CTSVAPI.DTO.CodeSystemFiltr.xml	
	InfoWorld.EVS.CTSVAPI.DTO.CodingSchemeFiltr.xml InfoWorld.EVS.CTSVAPI.DTO.ConceptCodeValid.xml	

Relative Path	File	Description
	InfoWorld.EVS.CTSVAPI.DTO.ConceptDescription.xml InfoWorld.EVS.CTSVAPI.DTO.ConceptExpansion.xml InfoWorld.EVS.CTSVAPI.DTO.ConceptProperties.xml InfoWorld.EVS.CTSVAPI.DTO.ConceptsByDesignation.xml InfoWorld.EVS.CTSVAPI.DTO.ConceptsByProperty.xml InfoWorld.EVS.CTSVAPI.DTO.Designation.xml InfoWorld.EVS.CTSVAPI.DTO.RelatedConcepts.xml InfoWorld.EVS.DTOEditBulk.ConceptBulk.xml InfoWorld.EVS.DTOEditBulk.ConceptPropertyBulk.xml InfoWorld.EVS.DTOEditBulk.RelationBulk.xml InfoWorld.WSEventing.DTO.CustomSubscriptions.xml InfoWorld.WSEventing.DTO.Endpoints.xml InfoWorld.WSEventing.DTO.FilterDialects.xml InfoWorld.WSEventing.DTO.Message.xml InfoWorld.WSEventing.DTO.MessageGet.xml InfoWorld.WSEventing.DTO.MessageGetDeliveryTo.xml InfoWorld.WSEventing.DTO.Subscriptions.xml XamlDataContracts.DSXamlReverse.xml XamlDataContracts.RootXaml.xml XamlDataContracts.XAMLFiltr.xml	
Services\PAP	ActionManager.dll AuthorizationProxy.dll Configuration.dll connectionConfiguration.config	Binaries of PAP service.

Relative Path	File	Description
	Connections.Common.dll	

Relative Path	File	Description
	Microsoft.ApplicationBlocks.Data.dll Microsoft.ApplicationBlocks.ExceptionManagement.dll Microsoft.ApplicationBlocks.ExceptionManagement.Interfaces.dll Microsoft.Practices.EnterpriseLibrary.Common.dll Microsoft.Practices.EnterpriseLibrary.ExceptionHandling.dll Microsoft.Practices.EnterpriseLibrary.ExceptionHandling.Logging.dll Microsoft.Practices.EnterpriseLibrary.Logging.dll Microsoft.Practices.ObjectBuilder.dll MS.Caching.dll ObjectPickerHelper2.dll PAPProxy.dll PDPServiceAuthorizationManager.dll PolicyAdministrationPoint.dll PolicyAdministrationPoint.dll.config SecureChannel.dll Security.Null.dll	
Services\PAP\DBRepository	Connections.xml InfoWorld.DE.DataAccess.LabSet.xml InfoWorld.DE.DataAccess.LabSetId.xml InfoWorld.DE.DataAccess.SentStatus.xml InfoWorld.WSEventing.DTO.CustomSubscriptions.xml InfoWorld.WSEventing.DTO.Endpoints.xml InfoWorld.WSEventing.DTO.FilterDialects.xml InfoWorld.WSEventing.DTO.Message.xml InfoWorld.WSEventing.DTO.MessageGet.xml InfoWorld.WSEventing.DTO.MessageGetDeliveryTo.xml InfoWorld.WSEventing.DTO.Subscriptions.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 (Read), insert (Create), update (Update) and 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_AURHZ database.
	PolicyDecisionPoint.dll	

Relative Path	File	Description
Services\PDP	PolicyDecisionPoint.dll.config	Binaries of PDP service.
Services\RS	AuthorizationProxy.dll	Binaries of RS service.
	RS.Contracts.dll	
	RS.Proxy.dll	
	RS.ServiceImplementation.dll	
	RS.ServiceImplementation.dll.config	
Services\Shared	7zip.dll	Shared binaries by BMS Service and Win Service.
	AdapterRepository.dll	
	AuditTrailSender.dll	
	AuthorizationSubscriber.dll	
	BindingExtensions.dll	
	Common.dll	
	CommonResources.dll	
	Connections.SingleDatabase.dll	
	ContextWriter.dll	
	DataUtil.dll	
	General.MT.dll	
	HL7CDA.dll	
	HL7CMET.dll	
	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	Binaries of STS service.
	SecureTokenService.dll.config	
Services	WinServiceHost.exe	WinServiceHost files.
	WinServiceHost.exe.config	
	BMS-Services.log	

Table 25: BMS Web Site Files

Relative Path	File	Description
WebSite	CacheService.svc	The binaries of the BMS Web Site, web site configuration file.
	Global.asax	
	packages.config	
	Web.config	
	WebTrace.log	
	additional_login_msg.txt	Dynamic text for main 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	

Relative Path	File	Description
	HtmlSanitizationLibrary.dll	
	IContracts.dll	
	ICTSEdit.dll	
	Infoworld.Configuration.dll	
	log4net.dll	
	log4netAsync.dll	
	Microsoft.ReportViewer.Common.dll	
	Microsoft.ReportViewer.DataVisualization.dll	
	Microsoft.ReportViewer.ProcessingObjectModel.dll	
	Microsoft.ReportViewer.WebForms.dll	
	Microsoft.Web.Infrastructure.dll	
	Microsoft.Web.Mvc.dll	
	RS.Contracts.dll	
	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.Razor.dll	
	Tracing.dll	
	Xacml2.dll	
	XacmlCore.dll	
WebSite\bin\LocalReportWhiteboard	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	

Relative Path	File	Description
	BMSLogoV6.jpg	
	check_inv.png	
	edit_staff_cancel.png	
	edit_staff_save.png	
	FavIcon.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	
	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	
	jquery.ui.slider.css	
	jquery.ui.tabs.css	
	jquery.ui.theme.css	
WebSite\Content\themes\base\images	ui-bg_flat_0_aaaaaa_40x100.png	Images
	ui-bg_flat_75_ffffff_40x100.png	
	ui-bg_glass_55_bfb9ee_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	

Relative Path	File	Description
	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.tablesorter.js	
	jquery.tablesorter.min.js	
	jquery.tablesorter.js	
	jquery.tablesorter.min.js	
	jquery.ui.autocomplete.js	
	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	

Relative Path	File	Description
	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	Login/Logout user interface views.
	LogOn.cshtml	
WebSite\Views\Admin	AddEditUser.cshtml	Admin section user interface views.
	AddUserOperations.cshtml	
	CacheConfirmation.cshtml	
	FacilityEdit.cshtml	
	FacilityEditSaved.cshtml	
	Index.cshtml	
	RefreshUsersConfirmation.cshtml	
	RemoveUserOperations.cshtml	
	SelectUser.cshtml	
	SisterSiteAddEdit.cshtml	
	SisterSiteEditSaved.cshtml	
	UserEditHasSaved.cshtml	
	UserOperationsView.cshtml	
WebSite\Views\AdminSpecialtyAssociation	Delete.cshtml	Admin specialty association user interface views.
	Index.cshtml	
WebSite\Views\AdminUnavailableReason	AddConfirmation.cshtml	Admin unavailable reason user interface
	Delete.cshtml	
	DeleteConfirmation.cshtml	
	Edit.cshtml	
	EditConfirmation.cshtml	
	Index.cshtml	
	MissingUnavailableReasonText.cshtml	
	UnavailableReasonAlreadyExists.cshtml	
	UnavailableReasonList.cshtml	
WebSite\Views\AdminComments	Index.cshtml	
	NotifyChange.cshtml	
WebSite\Views\AdminWaitingArea	AddAction.cshtml	Admin waiting area user interface views.
	Delete.cshtml	

Relative Path	File	Description
	DeleteAction.cshtml	
	Edit.cshtml	
	EditAction.cshtml	
	Index.cshtml	
WebSite\Views\AdminWhiteboardReport	Delete.cshtml	Admin whiteboard report user interface
	Edit.cshtml	
	Index.cshtml	
WebSite\Views\AdtOrderableItems	Confirmation.cshtml	ADT Orderable Items user interface views.
	Index.cshtml	
	OrderableItemsList.cshtml	
WebSite\Views\BackgroundProcessors	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 interface view.
WebSite\Views\BedInformation	ClearAll.cshtml	Bed Information user interface views.
	Index.cshtml	
	NotifyChange.cshtml	
WebSite\Views\BedStatusReport	Index.cshtml	Patients Pending Placement Status report user interface view.
WebSite\Views\ContingencySettings	Confirmation.cshtml	Contingency settings user interface views.
	Index.cshtml	
WebSite\Views\DischargeClinic	Index.cshtml	Discharge clinic user interface views.
	MessageConfirmation.cshtml	
WebSite\Views\EmsBedStatusAdmin	Edit.cshtml	EMS bed status user interface views
	EMSBatchAssign.cshtml	
	Index.cshtml	
	SaveConfirmation.cshtml	
WebSite\Views\EMSMobile	EMSList.cshtml	EMS Mobile user interface views.
	Users.cshtml	
WebSite\Views\EMSMobileLogon	Index.cshtml	EMS Mobile Logon user interface view.
WebSite\Views\EmsNotification	AddEdit.cshtml	EMS Notification user interface views.
	AddEditAction.cshtml	
	Delete.cshtml	
	DeleteAction.cshtml	
	Index.cshtml	
WebSite\Views\EmsStaff	Delete.cshtml	EMS Staff user interface views.
	Edit.cshtml	

Relative Path	File	Description
	Index.cshtml	
WebSite\Views\EventNotification	AddConfirmation.cshtml	Event Notification user interface views
	AddEdit.cshtml	
	Delete.cshtml	
	DeleteConfirmation.cshtml	
	EditConfirmation.cshtml	
	Index.cshtml	
WebSite\Views\Exception	Index.cshtml	Exception user interface views.
	WFException.cshtml	
WebSite\Views\FacilityDiversion	Add.cshtml	Facility Diversion user interface views.
	Confirmation.cshtml	
	Edit.cshtml	
	Index.cshtml	
WebSite\Views\FacilitySettings	Index.cshtml	Facility Settings user interface views.
	SaveConfirmation.cshtml	
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	
	PatientInquiry.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.cshtml	Maintain Marquee user interface view.
	Saved.cshtml	
WebSite\Views\NationalAndRegiona l	Index.cshtml	National user interface views.
	PatientListView.cshtml	

Relative Path	File	Description
WebSite\Views\NewEvents	Index.cshtml	New events user interface view.
WebSite\Views\Numi	Delete.cshtml	NUMI user interface views.
	Edit.cshtml	
	Index.cshtml	
WebSite\Views\Patient	Admission.cshtml	Patient user interface views.
	Confirmation.cshtml	
	EvacuationData.cshtml	
	GenericWfFault.cshtml	
	PatientWaitingAdd.cshtml	
	Select.cshtml	
	Index.cshtml	Patient user interface views.
WebSite\Views\Reports		
WebSite\Views\Shared	_Layout.cshtml	Shared user interface views.
	_LayoutAdminPages.cshtml	
	_VistaIntegrationLayout.cshtml	
	CustomWebViewPage.cs	
	Error.cshtml	
	Header.cshtml	
	HtmlHelpers.cs	
	RequiredIfHelpers.cs	
WebSite\Views\SiteList	Index.cshtml	Site list user interface view.
WebSite\Views\SiteOptions	EvacuationConfirmation.cshtml	Site options user interface views.
	Index.cshtml	
	AddEditResult.cshtml	
	AddTransfer.cshtml	
	EditTransfer.cshtml	
WebSite\Views\Transfer	FinalizeResult.cshtml	
	Index.cshtml	
	PermissionAuth.cshtml	Unauthorized user interface view.
	Index.cshtml	User configuration views.
	SelectUser.cshtml	
WebSite\Views\UnavailableReason	UserEditHasSaved.cshtml	
	AddConfirmation.cshtml	Unavailable reason user interface views.
	Delete.cshtml	
	DeleteConfirmation.cshtml	
	Edit.cshtml	
	EditConfirmation.cshtml	

Relative Path	File	Description
	Index.cshtml	
	MissingUnavailableReasonText.cshtml	
	UnavailableReasonAlreadyExists.cshtml	
	UnavailableReasonList.cshtml	
WebSite\Views\VistaIntegration	Audit.cshtml	VistA integration user interface views.
	AuditLogEntries.cshtml	
	Categories.cshtml	
	DeleteScheduler.cshtml	
	EditScheduler.cshtml	
	EditVistASite.cshtml	
	ErrorDetail.cshtml	
	Index.cshtml	
	Schedulers.cshtml	
	VistASites.cshtml	
WebSite\Views\WaitingArea	AddAction.cshtml	
	Delete.cshtml	
	DeleteAction.cshtml	
	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: PolicyManager Files

Relative Path	File	Description
Consoles\PolicyManager	7zip.dll	Binaries of PolicyManager application
	AdapterRepository.dll	
	AuditTrailSender.dll	
	Infoworld.Configuration.dll	
	MS.Common.dll	
	MS.Configuration.dll	
	MS.Connections.dll	
	PAPPProxy.dll	
	PolicyEditor.dll	
	PolicyEditor.dll.config	
	PolicyManager.exe	
	PolicyManager.exe.config	
	ResourceSecurityProperties.dll	
	SecurityTokenCache.dll	
	WSEventing.dll	
	WSEventing.DataAccess.dll	
	WSEventing.DTO.dll	
Consoles\PolicyManager\ ro	PolicyEditor.resources.dll	Binaries used by Policy Manager.
	ResourceSecurityProperties.resources.dll	
Consoles\PolicyManager\ ro-RO	PolicyEditor.resources.dll	Binaries used by Policy Manager.
	ResourceSecurityProperties.resources.dll	

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:

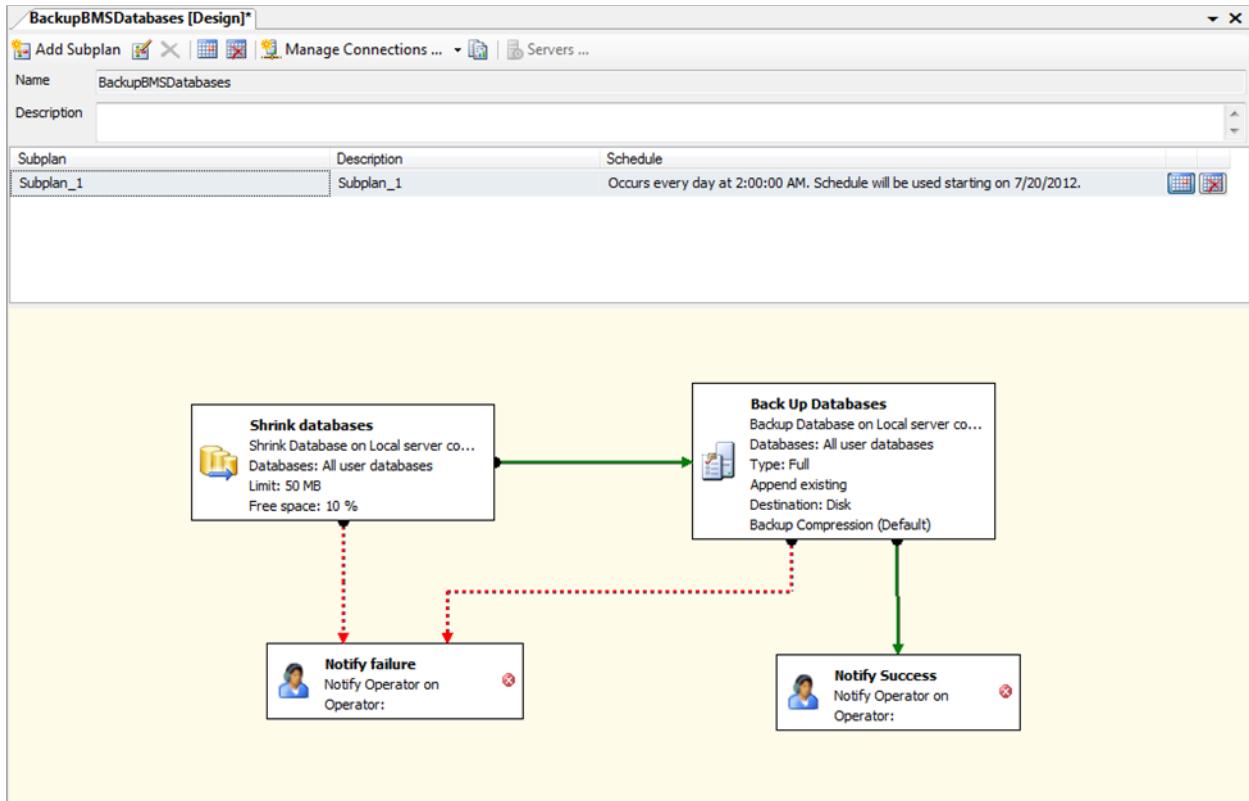


Figure 45: Backup Maintenance Plan

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):

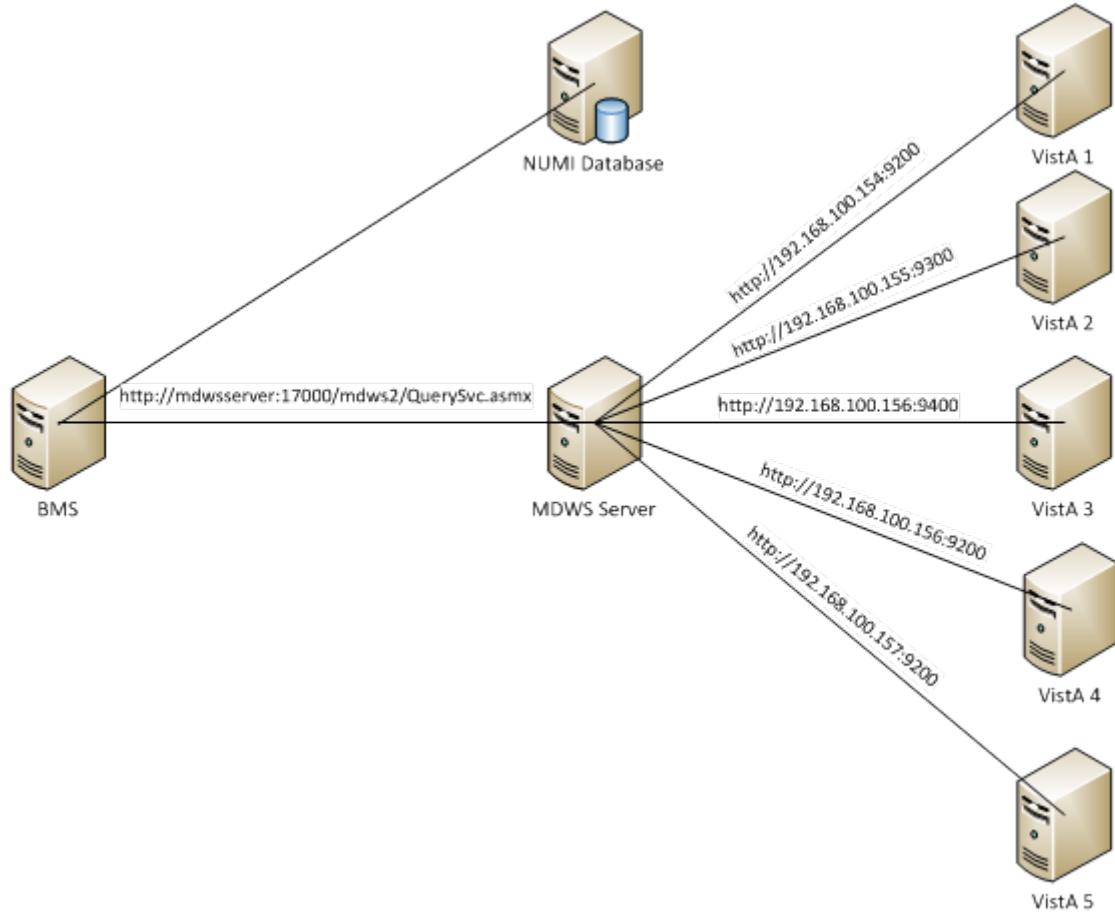


Figure 46: BMS External Interfaces

All the VISTA deployments will be connected through a Healthcare Integration Engine (MDWS version

2) to the BMS. MDWS v.2 is a suite of Service Oriented Architecture (SOA) middle-tier web services that exposes medical domain functionality, Medical Domain Objects (MDO).

In order to connect to MDWS v.2, BMS service configuration file (BMS.ServiceHost.exe.config) should be changed as follows, see *Table 4 - BMS ServiceHost Configuration Parameters* section:

- A MDWS client service endpoint should be set: `http://mdwsserver:17000/mdws2/QuerySvc.asmx`
- VistaIntegration.Enabled should be set to true: `VistaIntegration.Enabled=true`

The following configurations should be set in MDWS to be able to connect to VistA deployments:

- Application protocol: `http://192.168.100.156:9200`
- VistA DataSource connection string: `<DataSource modality="HIS" protocol="VISTA"`

```
source="192.168.100.156" status="active" port="9200"/>
```

These configurations should be done for each VistA deployment.

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.

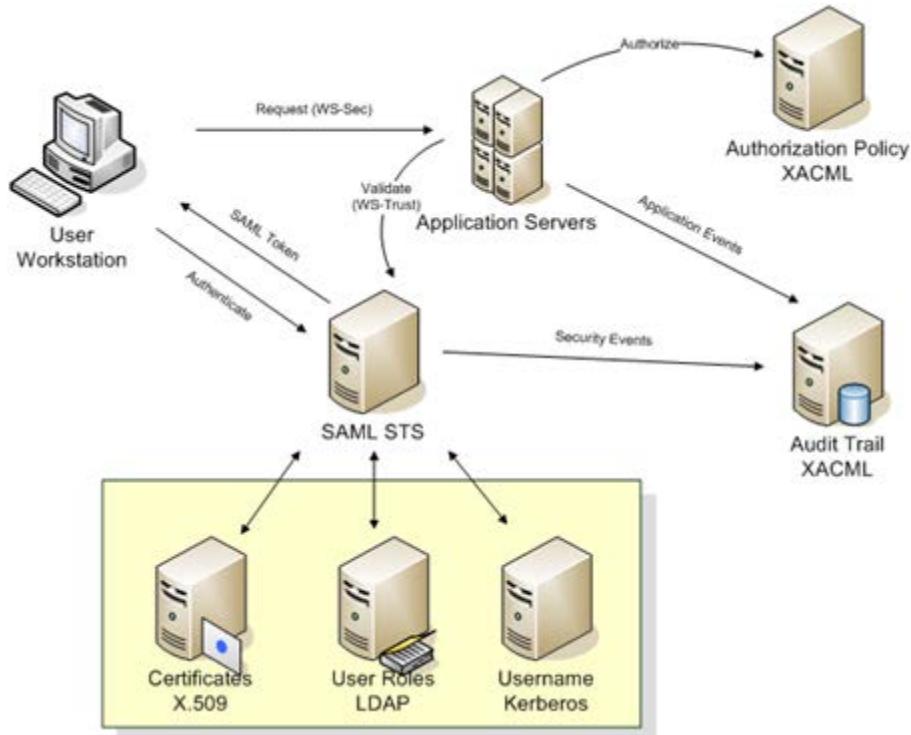


Figure 47 – Security services architecture

The security services consists 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:

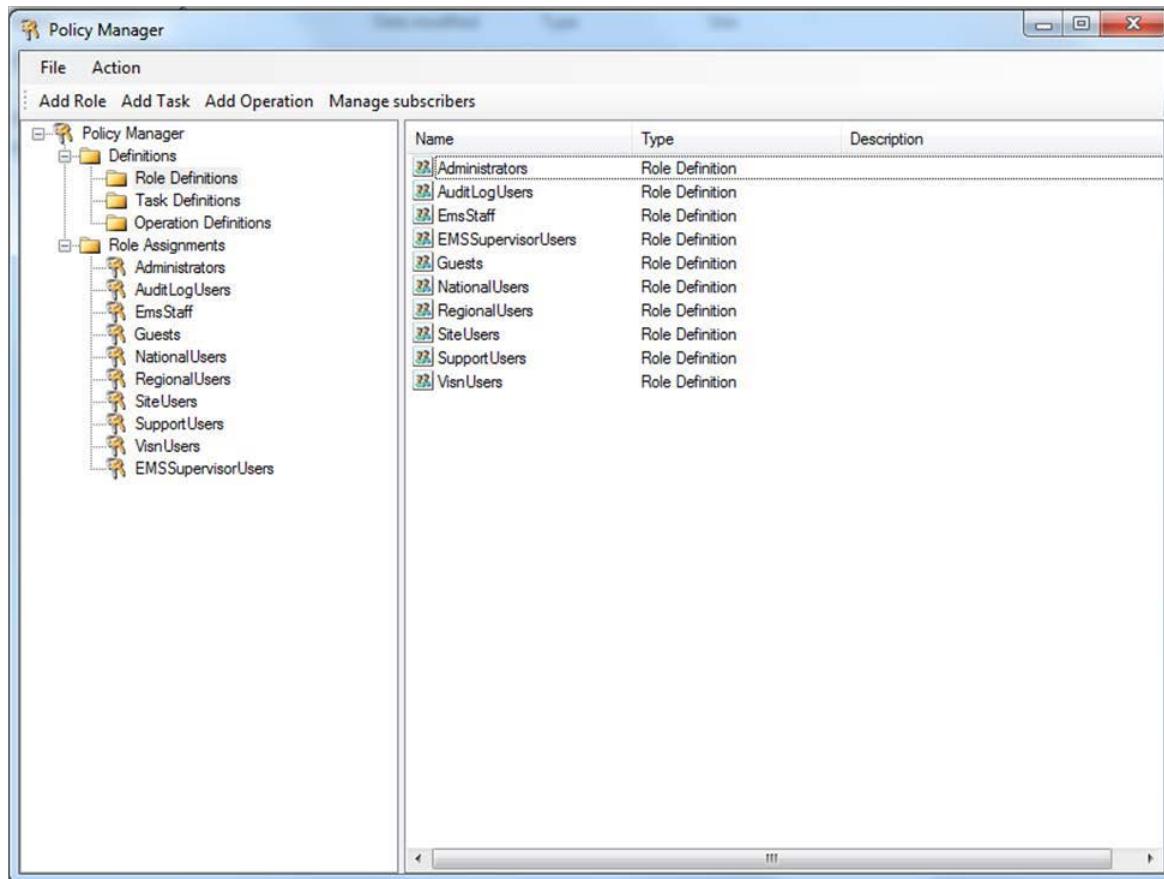


Figure 62 - Policy Manager Main Window

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:

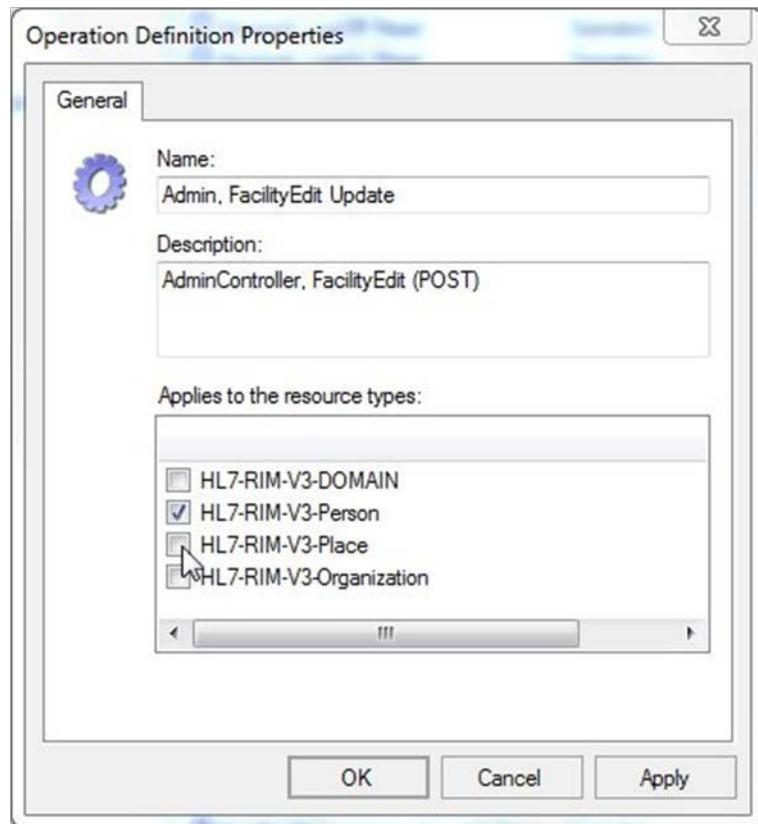


Figure 63 - Operation Definition

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 SECTION - Background Processor page
AdminWhiteboardReport, Delete Update	'Delete Record' button on ADMINISTRATION SECTION - Whiteboard Report Delete page (Background Processor Submenu)
AdminWhiteboardReport, Edit Update	'Save' button on ADMINISTRATION SECTION - Whiteboard Report Edit page (Background Processor Submenu)
AdtOrderableItems, Index Read	Site Options, ADT Orderable Items Add/Delete hyperlink
AdtOrderableItems, Delete Update	'Delete' hyperlink from the list of orderable items.
AdtOrderableItems, Index Update	'Add' button from the Bed Board ADT Orderable Items Configuration.

Operation Name	Operation Description
BackgroundProcessors, Index Read	'Background Processors' hyperlink from Site Options page.
BackgroundProcessors, Index Update	'Save Scheduler' button from Background Processors page within Site Options.
AuditLogReport, Index Read	'View audit log' link on ADMINISTRATION SECTION
rep, Audit Log Report	Access the Audit Log Report.
BedBoard, ChangeFacility Read	Click on a facility link from the VISN Network Bed Boards list.
BedBoard, Index Read	'Return to VISN Network' hyperlink from the home page.
BedBoard, ShowFacilityBedSummaryReport Read	Click on a Facility Summary Report on VISN Network Bed Boards list
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
EmsNotification, DeleteAction Update	'Delete Record' button from the EMS Bed Status Notification Delete page.
EmsNotification, Index Update	'Submit' button from the EMS Bed Notification Edit page or Notifications Add page.
EmsStaff, Delete Read	'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/GetDomains	Functions used in the Administration Section, Add/Edit BMS User and Edit BMS Site submenus.
http://tempuri.org/IAdministrativeFunctions/GetCurrentDomain	
http://tempuri.org/IAdministrativeFunctions/GetRoles	
http://tempuri.org/IAdministrativeFunctions/GetBulkPolicies	
http://tempuri.org/IAdministrativeFunctions/GrantPermission	
http://tempuri.org/IAdministrativeFunctions/RevokePermission	

Operation Name	Operation Description
http://tempuri.org/IAdministrativeFunctions/GetRoleByName	
http://tempuri.org/IAdministrativeFunctions/GetPermissionsByResourceType	
http://tempuri.org/IAdministrativeFunctions/GetAllUsersAndDomain	
http://tempuri.org/IAdministrativeFunctions/GetAllUserRoles	
http://tempuri.org/IAdministrativeFunctions/AssignUser	
http://tempuri.org/IAdministrativeFunctions/DeassignUser	
http://tempuri.org/IAdministrativeFunctions/GetPolicy	
http://tempuri.org/IAdministrativeFunctions/ClearPermissionsForResource	
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
http://tempuri.org/IAdministrativeFunctions/AssignRole
http://tempuri.org/IAdministrativeFunctions/ChangeUserPassword
http://tempuri.org/IAdministrativeFunctions/DeassignOperations
http://tempuri.org/IAdministrativeFunctions/DeassignRole
http://tempuri.org/IAdministrativeFunctions/DeleteActionEntityType
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/GetAvailableDomains
http://tempuri.org/IAdministrativeFunctions/GetCallerIsSuperUser
http://tempuri.org/IAdministrativeFunctions/GetConnectedRolesAndOperations
http://tempuri.org/IAdministrativeFunctions/GetEntityType
http://tempuri.org/IAdministrativeFunctions/GetOperationByName
http://tempuri.org/IAdministrativeFunctions/GetOperationByNameExcludingId

Operation Name	Operation Description
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	
http://tempuri.org/IAdministrativeFunctions/GetTaskByName	
http://tempuri.org/IAdministrativeFunctions/GetTaskByNameExcludingId	
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, Admission Read	'Edit' link from the Home page, Patients Pending Placement list.
Patient, Select Read	'Add New Patient' link from the Home page, Patients Pending Placement section.
Patient, Admission Update	'Submit' button from ADD/EDIT Patients Pending Placement page.

Operation Name	Operation Description
rep, Active Admission Orders Report	Access the Active Admission Orders Report.
rep, Active Discharge Orders Report	Access the Active Discharge Orders Report.
rep, Active Transfer Orders Report	Access the Active Transfer Orders Report.
rep, Antic Discharge Orders Report	Access the Antic Discharge Orders Report.
rep, BED AVAILABILITY STATUS REPORT	Access the BED AVAILABILITY STATUS REPORT.
rep, Bed Specialty Report	Access the Bed Specialty Report.
rep, Bed Specialty Roster	Access the Bed Specialty Roster.
rep, Bed Summary Report	Access the Bed Summary Report.
rep, Bed Turnaround Time Report	Access the Bed Turnaround Time 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	'Edit' link from the VISN page, Patients in Community

Operation Name	Operation Description
	Hospitals list.
Transfer, FinalizeTransfer Read	'Finalize' link from the VISN page, Patients in Community Hospitals list.
Transfer, Index Read	VISN page, Add New Patient button.
Transfer, AddTransfer Update	VISN page, Add New Patient button, Submit button from the Select Patient page, and Submit button from the Enter Patient Data page.
Transfer, EditTransfer Update	'Edit' link from the VISN page's Patients in Community Hospitals list and then Submit button.
Transfer, FinalizeTransfer Update	'Finalize' link from the VISN page's Patients in Community Hospitals list and then Submit button from the Finalize Patient Data page.
UnavailableReason, Delete Read	'Delete' link from the Bed Board Site Unavailable Reason page's list.
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.
VistalIntegration, Audit Read	'Audit' tab on ADMINISTRATION SECTION - Background Processors page (Background Processors Submenu) and 'Filter By' button from the 'Audit' tab.
VistalIntegration, Categories Read	'VistA Integration' tab on ADMINISTRATION SECTION - Background Processors page (Background Processors Submenu).
VistalIntegration, DeleteScheduler Read	'Add new scheduler' link and select a scheduled name from the 'Scheduled' tab.
VistalIntegration, Index Read	'Background Processors' link on ADMINISTRATION SECTION.
VistalIntegration, Schedulers Read	'Schedulers' tab on ADMINISTRATION SECTION - Background Processors page (Background Processors Submenu).
VistalIntegration, TestMDWSConnection Read	'TestMDWSConnection' button from the 'VistA Sites' tab.
VistalIntegration, TestODBCConnection Read	'TestODBCConnection' button from the 'VistA Sites' tab.
VistalIntegration, VistASites Read	'VistA Sites' tab on ADMINISTRATION SECTION - Background Processors page (Background Processors Submenu).
VistalIntegration, Categories Update	'Save and Run' buttons from the 'VistA Integration' tab.
VistalIntegration, DeleteScheduler Update	'Delete' link from the 'Scheduled' tab and then 'Delete Record' button.

Operation Name	Operation Description
VistalIntegration, Schedulers Update	'Save' button from the 'Scheduled' tab.
VistalIntegration, 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.

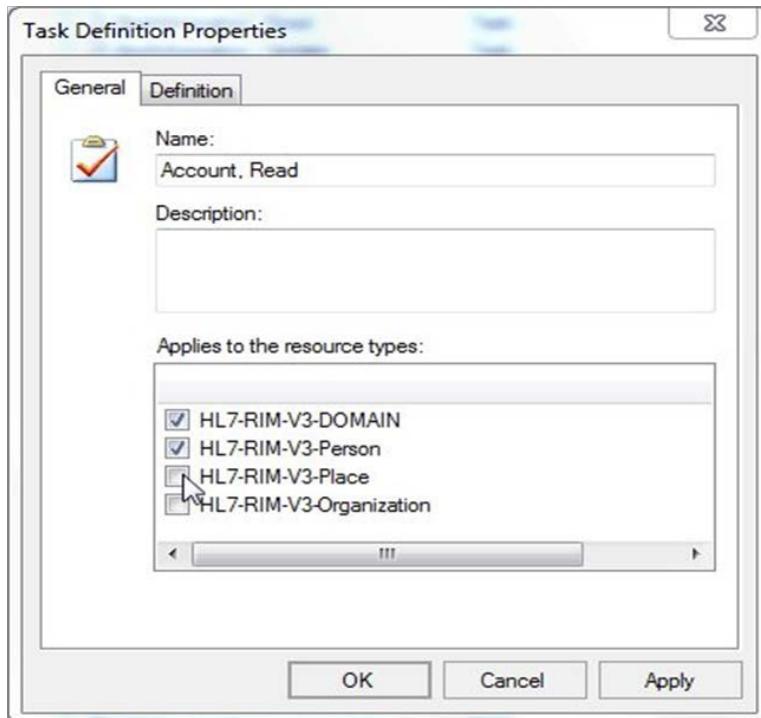


Figure 64 - Task Definition

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:

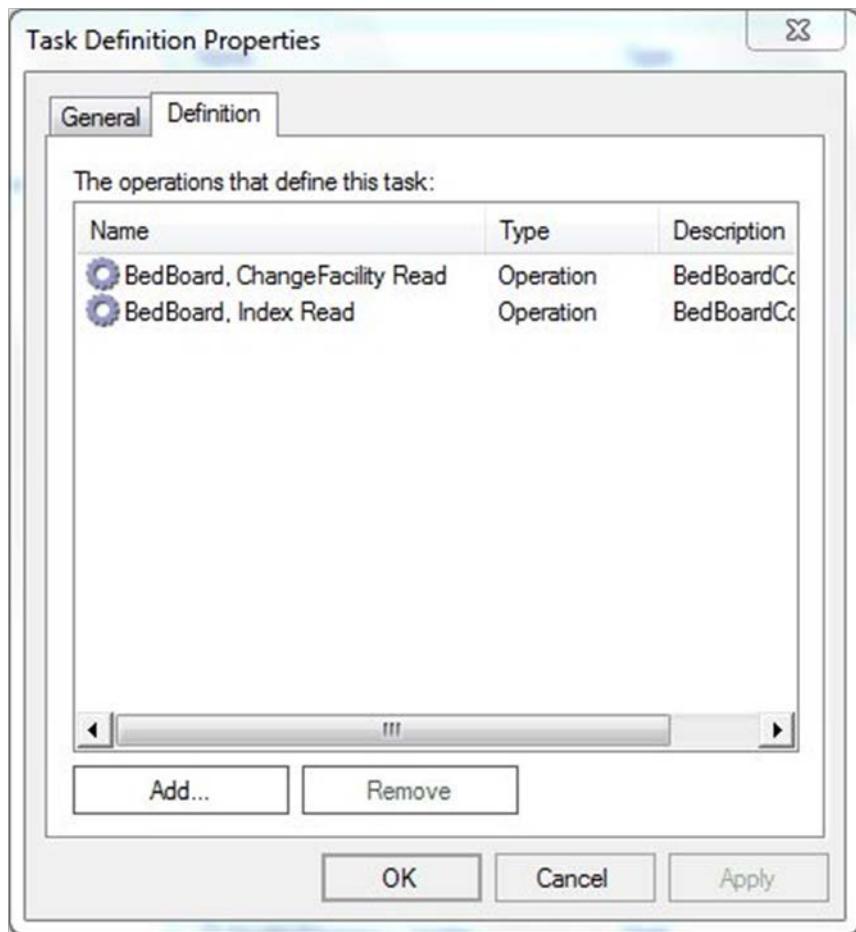


Figure 65 - Operations Defining a Task

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:

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Task Name	Task Description	Operation Name
Admin, Read	Admin Read permission, user has the right only to view data.	Admin, AddEditUser
		Admin, FacilityEdit R
		Admin, Index Read
		Admin, SelectUser R
		Admin, SisterSiteAdd
		Admin, AddUserOpe
		Admin, RemoveUser
		Admin, SearchUser R
		Admin, SearchUsers
		Admin, ClearCache F
Admin, Update	Admin Update permission, user has the right to modify data.	Admin, AddEditUser
		Admin, FacilityEdit U
		Admin, SisterSiteAdd
		Admin, AddUserOpe
		Admin, RemoveUser
AdminComments, Read	AdminComments Read Read permission, user has the right only to view data.	AdminComments, De
		AdminComments, Ec
		AdminComments, In
AdminComments, Update	AdminComments Update permission, user has the right to modify data.	AdminComments, Up
AdminIcon, Read	AdminIcon Read permission, user has the right only to view data.	AdminIcon, Delete R
		AdminIcon, Edit Read
		AdminIcon, Index Re
		AdminIcon, Search R
		AdminIcon, ViewIcon
AdminIcon, Update	AdminIcon Update permission, user has the right to modify data.	AdminIcon, Delete U
		AdminIcon, Edit Upd

Task Name	Task Description	Operation Name
		AdminIcon, Index Up
AdminSpecialtyAssociation, Read	AdminSpecialtyAssociation Read permission, user has the right only to view data.	AdminSpecialtyAssoc
		AdminSpecialtyAssoc
AdminSpecialtyAssociation, Update	AdminSpecialtyAssociation Update permission, user has the right to modify data.	AdminSpecialtyAssoc
		AdminSpecialtyAssoc

AdminUnavailableReason, Read	AdminUnavailableReason Read permission, user has the right only to view data.	AdminUnavailableRe
AdminUnavailableReason, Update	AdminUnavailableReason Update permission, user has the right to modify data.	AdminUnavailableRe
AdminWaitingArea, Read	AdminWaitingArea Read permission, user has the right only to view data.	AdminWaitingArea, D
AdminWaitingArea, Update	AdminWaitingArea Update permission, user has the right to modify data.	AdminWaitingArea, U
AdminWhiteboardReport, Read	AdminWhiteboardReport Read permission, user has the right only to view data.	AdminWhiteboardRe
AdminWhiteboardReport, Update	AdminWhiteboardReport Update permission, user has the right to modify data.	AdminWhiteboardRe
AdtOrderableItems, Read	AdtOrderableItems Read permission, user has the right only to view data.	AdtOrderableItems, I
AdtOrderableItems, Update	AdtOrderableItems Update permission, user has the right to modify data.	AdtOrderableItems, U
BackgroundProcessors, Read	BackgroundProcessors Read permission, user has the right only to view data.	BackgroundProcesso
BackgroundProcessors, Update	BackgroundProcessors Update permission, user has the right to modify data.	BackgroundProcesso
AuditLogReport, Read	AuditLogReport Read permission, user has the right	AuditLogReport, Inde

Task Name	Task Description	Operation Name
	only to view data.	rep, Audit Log Repor
BedBoard, Read	BedBoard Read permission, user has the right only to view data.	BedBoard, ChangeF
BedBoardModule, Read	BedBoardModule Read permission, user has the right only to view data.	BedBoardModule, Index Rea
BedBoardModule, Update	BedBoardModule Update permission, user has the right to modify data.	BedBoardModule, ShowFac
BedInformation, Read	BedInformation Read permission, user has the right only to view data.	BedInformation, ShowVIS
BedInformation, Update	BedInformation Update permission, user has the right to modify data.	BedInformation, Inde
ContingencySettings, Read	ContingencySettings Read permission, user has the right only to view data.	ContingencySettings
ContingencySettings, Update	ContingencySettings Update permission, user has the right to modify data.	ContingencySettings

DischargeClinic, Read	DischargeClinic Read permission, user has the right only to view data.	DischargeClinic, Index
DischargeClinic, Update	DischargeClinic Update permission, user has the right to modify data.	DischargeClinic, Delete
EmsBedStatusAdmin, EMS Supervisor	EmsBedStatusAdmin EMS Supervisor permission, user has the right to re-assign the bed cleaning to another person and to batch assign the cleaning to a person.	EmsBedStatusAdmin
EmsBedStatusAdmin, Read	EmsBedStatusAdmin Read permission, user has the right only to view data.	EmsBedStatusAdmin
EmsBedStatusAdmin, Update	EmsBedStatusAdmin Update permission, user has the right to modify data.	EmsBedStatusAdmin
EMSMobile, Read	EMSMobile Read permission, user has the right only to	EMSMobile, EMSList

Task Name	Task Description	Operation Name
	view data.	EMSMobile, Users Read
EMSMobile, Update	EMSMobile Update permission, user has the right to modify data.	EMSMobile, EMSList
EmsNotification, Read	EmsNotification Read permission, user has the right only to view data.	EmsNotification, Add
EmsNotification, Update	EmsNotification Update permission, user has the right to modify data.	EmsNotification, Delete
EmsStaff, Read	EmsStaff Read permission, user has the right only to view data.	EmsStaff, Edit Read
EmsStaff, Update	EmsStaff Update permission, user has the right to modify data.	EmsStaff, Edit Update
EventNotification, Read	EventNotification Read permission, user has the right only to view data.	EventNotification, Add
EventNotification, Update	EventNotification Update permission, user has the right to modify data.	EventNotification, Index
Exception, Read	Exception Read permission, user has the right only to view data.	Exception, Index Read
FacilityDiversion, Read	FacilityDiversion Read permission, user has the right only to view data.	FacilityDiversion, Add
		FacilityDiversion, Edit
		FacilityDiversion, Delete
		FacilityDiversion, Filter
		FacilityDiversion, Index

FacilityDiversion, Update	FacilityDiversion Update permission, user has the right to modify data.	FacilityDiversion, Index
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Task Name	Task Description	Operation Name
FacilitySettings, Read	FacilitySettings Read permission, user has the right only to view data.	FacilitySettings, Index
FacilitySettings, Update	FacilitySettings Update permission, user has the right to modify data.	FacilitySettings, Index
Home, Read	Home Read permission, user has the right only to view data.	Home, Index Read Home, Index2 Read Home, PatientInquiry Home, RemoveAdmin Home, UndoRemove
Home, Update	Home Update permission, user has the right to modify data.	Home, RemoveAdmin Home, UndoRemove
IconLegend, Read	IconLegend Read permission, user has the right only to view data.	IconLegend, Index Read
IconLibrary, Read	IconLibrary Read permission, user has the right only to view data.	IconLibrary, Edit Read IconLibrary, Index Read IconLibrary, ResetCount
IconLibrary, Update	IconLibrary Update permission, user has the right to modify data.	IconLibrary, Edit Update IconLibrary, Index Update IconLibrary, ResetCount
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, Change
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, Update	NUMI Update permission, user has the right to modify data.	Numi, Delete Update Numi, Edit Update
		http://tempuri.org/IAd http://tempuri.org/IAdomain

PAP, User	PAP permission, the right to access methods exposed by PAP service.	http://tempuri.org/IAd http://tempuri.org/IAdies http://tempuri.org/IAdision http://tempuri.org/IAdission http://tempuri.org/IAdame http://tempuri.org/IAdonsByResourceType http://tempuri.org/IAdAndDomain http://tempuri.org/IAdoles http://tempuri.org/IAder http://tempuri.org/IAd http://tempuri.org/IAdisionsForResource http://tempuri.org/IAdityType http://tempuri.org/IAdn http://tempuri.org/IAd http://tempuri.org/IAd http://tempuri.org/IAdtions http://tempuri.org/IAd http://tempuri.org/IAdes
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Task Name	Task Description	Operation Name
		Password http://tempuri.org/IAderations http://tempuri.org/IAdre http://tempuri.org/IAdEntity http://tempuri.org/IAdtion http://tempuri.org/IAdssionForResourceAn http://tempuri.org/IAdssionsForResources http://tempuri.org/IAd http://tempuri.org/IAdityTypes http://tempuri.org/IAdDomains http://tempuri.org/IAduperUser http://tempuri.org/IAdedRolesAndOperatio http://tempuri.org/IAdes

<http://tempuri.org/IAdnByName>
<http://tempuri.org/IAdnByNameExcludingId>
<http://tempuri.org/IAdns>
<http://tempuri.org/IAdameExcludingId>
<http://tempuri.org/IAdnition>
<http://tempuri.org/IAdnitionIntersect>
<http://tempuri.org/IAdns>
<http://tempuri.org/IAdions>

Task Name	Task Description	Operation Name
		http://tempuri.org/IAdmName http://tempuri.org/IAdmNameExcludingId http://tempuri.org/IAdmNtition http://tempuri.org/IAdmP http://tempuri.org/IAdmSerName http://tempuri.org/IAdmSnedRoles http://tempuri.org/IAdmUpld http://tempuri.org/IAdms http://tempuri.org/IAdsionForResourceAnd http://tempuri.org/IAdsionsForResourcesA http://tempuri.org/IAdce http://tempuri.org/IAdhe http://tempuri.org/IAdhe http://tempuri.org/IAdomain http://tempuri.org/IAdIISubscribers http://tempuri.org/IAdation http://tempuri.org/IAd http://tempuri.org/IAd
Patient, Read	Patient Read permission, user has the right only to view data.	Patient, Admission R Patient, Select Read
Patient, Update	Patient Update permission, user has the right to modify data.	Patient, Admission U

Reporting Services, Fetch	Reporting Services Fetch permission, the right to bring	rep, Active Admission
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Task Name	Task Description	Operation Name
	the list of reports from Reporting Services.	rep, Active Discharge
		rep, Active Transfer
		rep, Antic Discharge
		rep, BED AVAILABILITY
		rep, Bed Specialty R
		rep, Bed Specialty R
		rep, Bed Summary R
		rep, Bed Turnaround
		rep, Beds Out of Ser
		rep, Beds Out of Ser
		rep, Discharges In P
		rep, Emergency Man
		rep, Icon Usage Rep
		rep, Patient Inquiry
		rep, Patient Moveme
		rep, Patient Moveme
		rep, Patients w Disch
		rep, Scheduled Admin
		rep, Scheduled Admin
		rep, VISN Bed Summ
		rep, VISN Network A
		rep, VISN Network A
		rep, VISN Network C
		rep, VISN Network D
		rep, Wait List Status
Reports, Read	Reports permission, user has the right only to view data.	Reports, Index Read
SiteOptions, Read	SiteOptions permission, user has the right only to view data.	SiteOptions, Index R
SiteOptions, Update	SiteOptions Update permission, user has the right to	SiteOptions, Index U

Task Name	Task Description	Operation Name
	modify data.	SiteOptions, Evacuate
Transfer, Read	Transfer permission, user has the right only to view data.	Transfer, AddTransfe
		Transfer, EditTransfe
		Transfer, FinalizeTra
		Transfer, Index Read
Transfer, Update	Transfer Update permission, user has the right to modify data.	Transfer, AddTransfe
		Transfer, EditTransfe
		Transfer, FinalizeTra

UnavailableReason, Read	UnavailableReason Read permission, user has the right only to view data.	UnavailableReason, UnavailableReason, UnavailableReason,
UnavailableReason, Update	UnavailableReason Update permission, user has the right to modify data.	UnavailableReason, UnavailableReason, UnavailableReason,
UserConfiguration, Read	UserConfiguration permission, user has the right only to view data.	UserConfiguration, UserConfiguration, UserConfiguration, S
UserConfiguration, Update	UserConfiguration Update permission, user has the right to modify data.	UserConfiguration, UserConfiguration, I
VistaIntegration, Read	VistaIntegration permission, user has the right only to view data.	VistaIntegration, VistaIntegration, Audit
VistaIntegration, Update	VistaIntegration Update permission, user has the right to modify data.	VistaIntegration, VistaIntegration, Category
		VistaIntegration, Delete
		VistaIntegration, Index
		VistaIntegration, Insert
		VistaIntegration, Schedule
		VistaIntegration, Test
		VistaIntegration, Test
		VistaIntegration, Vista
		VistaIntegration, Vista
		VistaIntegration, Category
		VistaIntegration, Delete
		VistaIntegration, Insert

Task Name	Task Description	Operation Name
WaitingArea, Read	WaitingArea permission, user has the right only to view data.	VistaIntegration, Vista
WaitingArea, Update	WaitingArea Update permission, user has the right to modify data.	WaitingArea, Delete
WaitingArea, Read	WaitingArea permission, user has the right only to view data.	WaitingArea, Edit
WaitingArea, Update	WaitingArea Update permission, user has the right to modify data.	WaitingArea, Index
WardConfiguration, Read	WardConfiguration permission, user has the right only to view data.	WaitingArea, Delete
WardConfiguration, Update	WardConfiguration Update permission, user has the right to modify data.	WaitingArea, Edit
WardOccupancy, Read	WardOccupancy permission, user has the right only to view data.	WaitingArea, Index
WardWhiteboard, Read	WardWhiteboard permission, user has the right only to view data.	WardConfiguration, Delete
		WardConfiguration, Insert
		WardConfiguration, Index
		WardConfiguration, Test
		WardWhiteboard, Delete
		WardWhiteboard, Insert
		WardWhiteboard, Index
		WardWhiteboard, Test
		WhiteboardStaff, Index
		WardWhiteboard, Share

		WardWhiteboard, Su
		WardWhiteBoard, W
		WardWhiteboard, Cle
WardWhiteboard, Update	WardWhiteboard Update permission, user has the right to modify data.	WardWhiteBoard, W WhiteboardStaff, Ind WardWhiteboard, Ed

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:

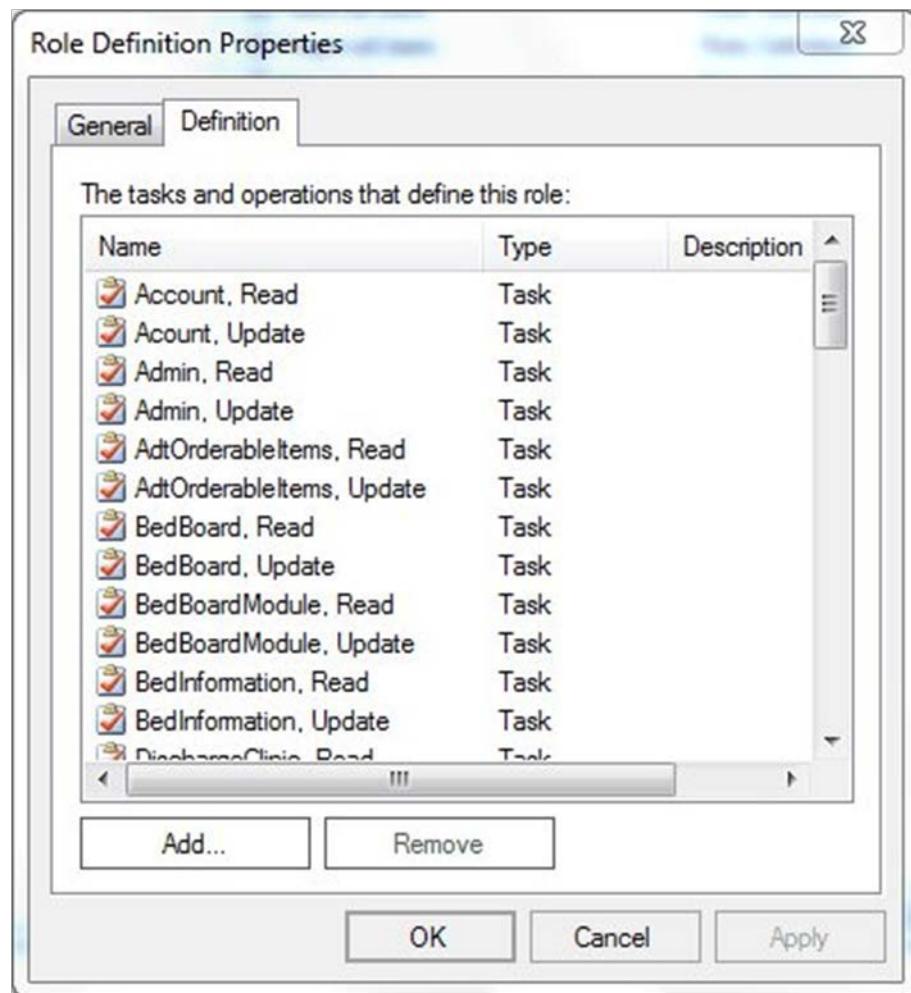


Figure 66 - Role Definition

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.

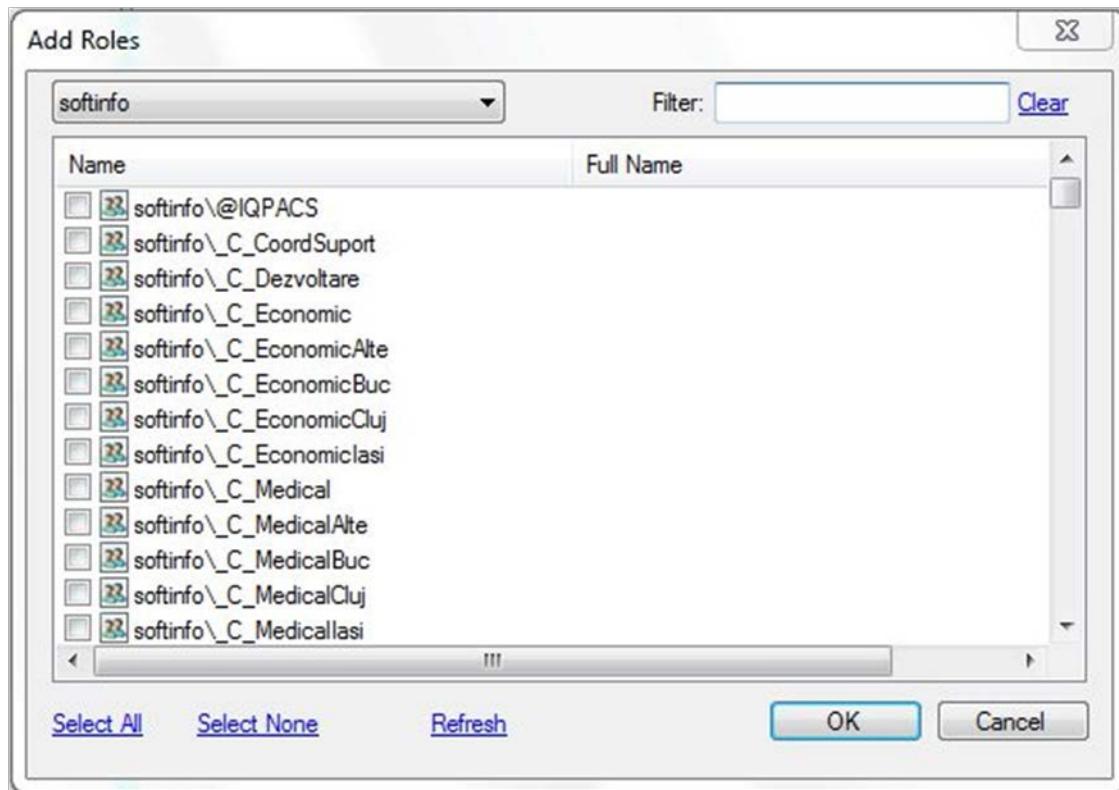


Figure 67 - Assigning Roles to Users

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:

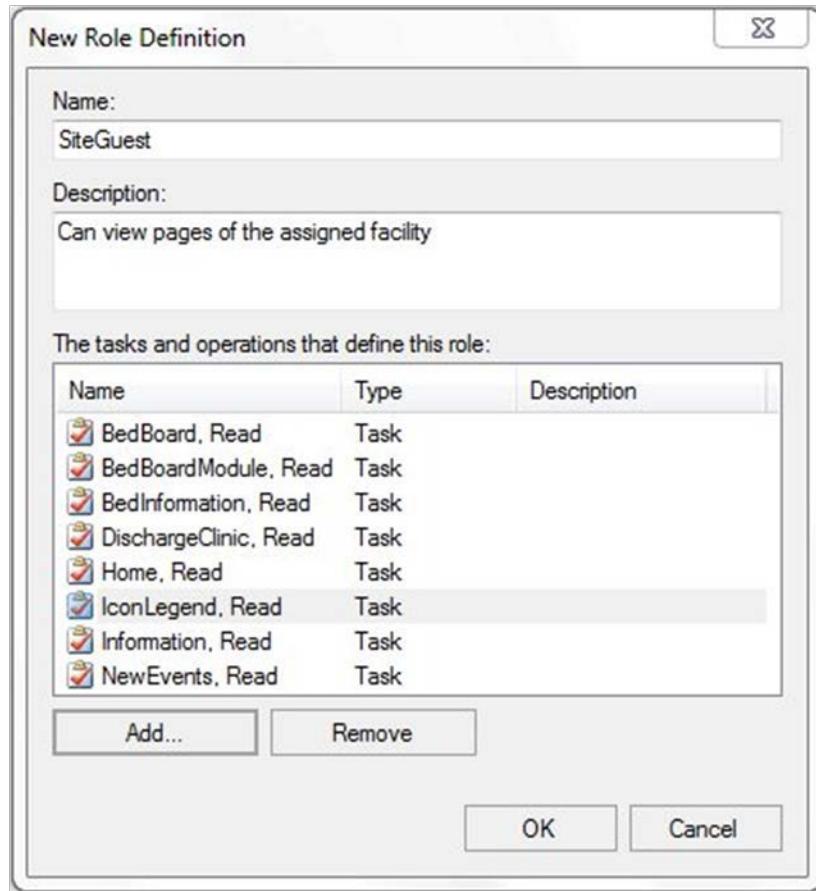


Figure 68 - New Role Definition

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:

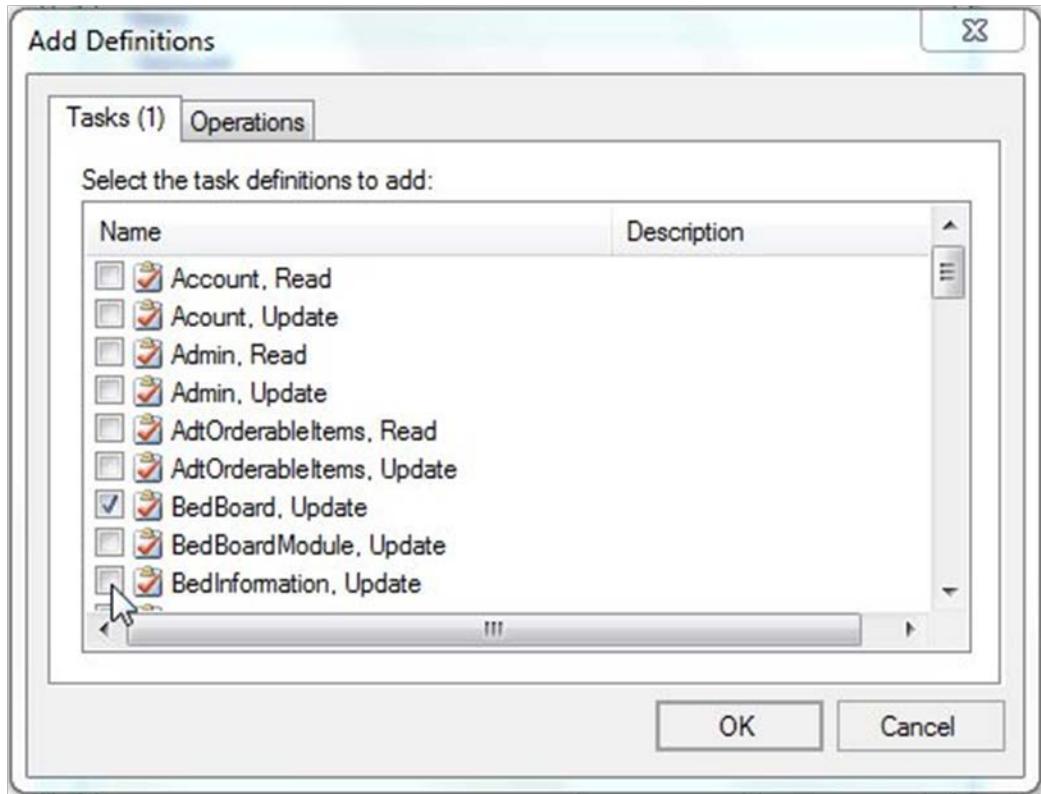


Figure 69 - Adding Tasks and Operations to a Role

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:

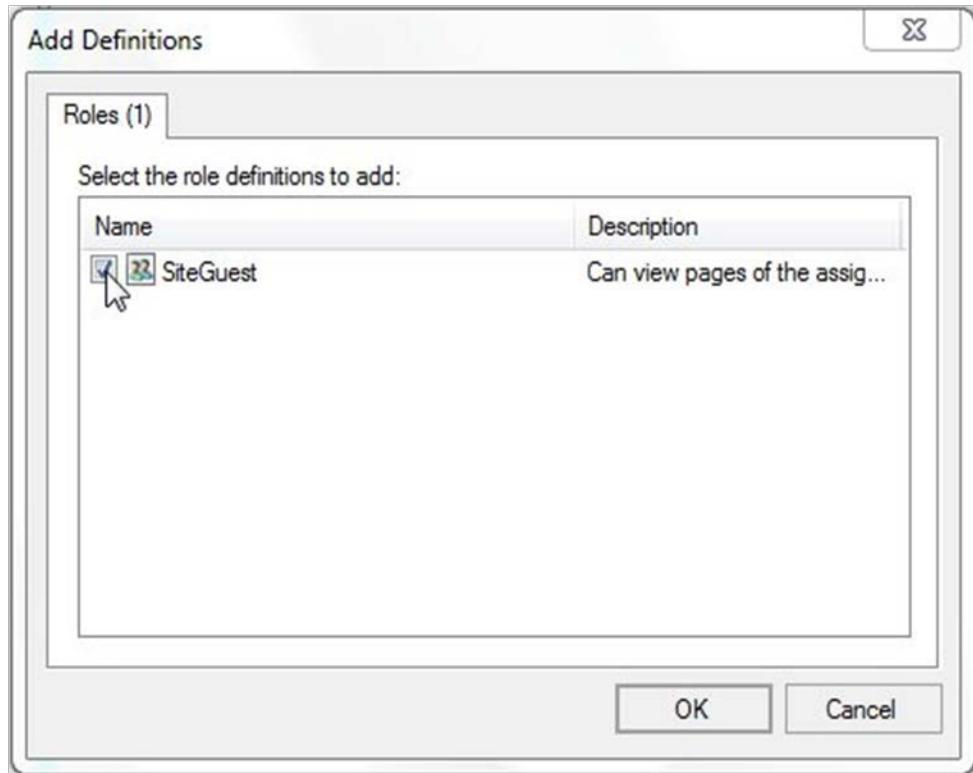


Figure 70 - Add Role to Role Assignments List

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:

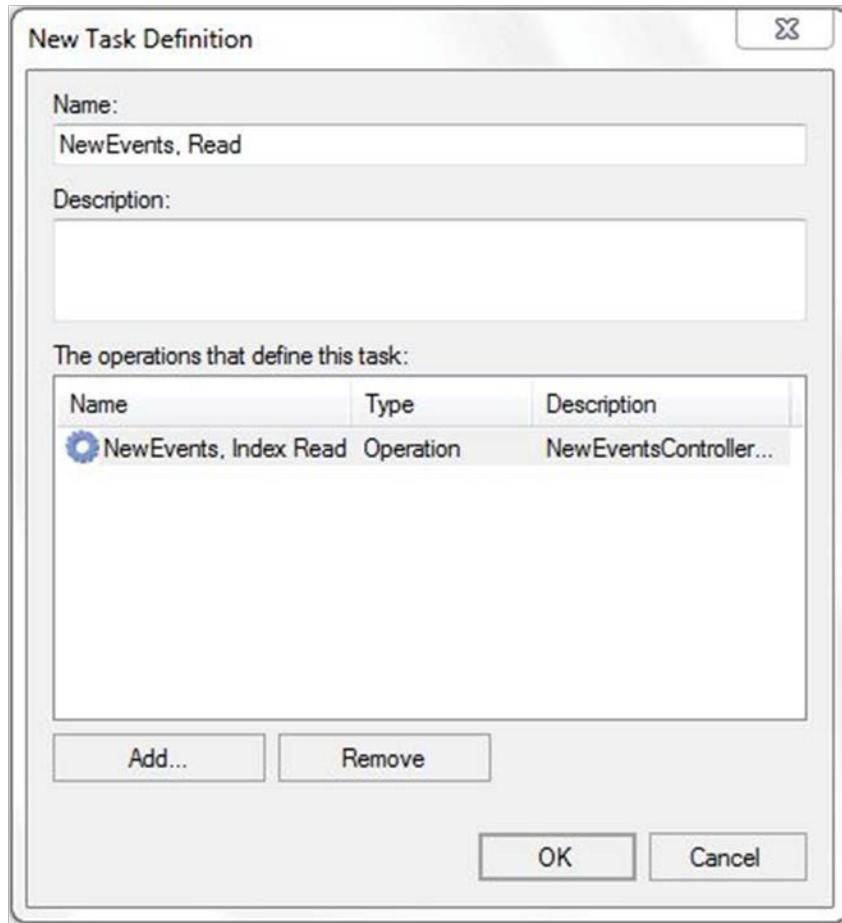


Figure 71 - New Task Definition

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:

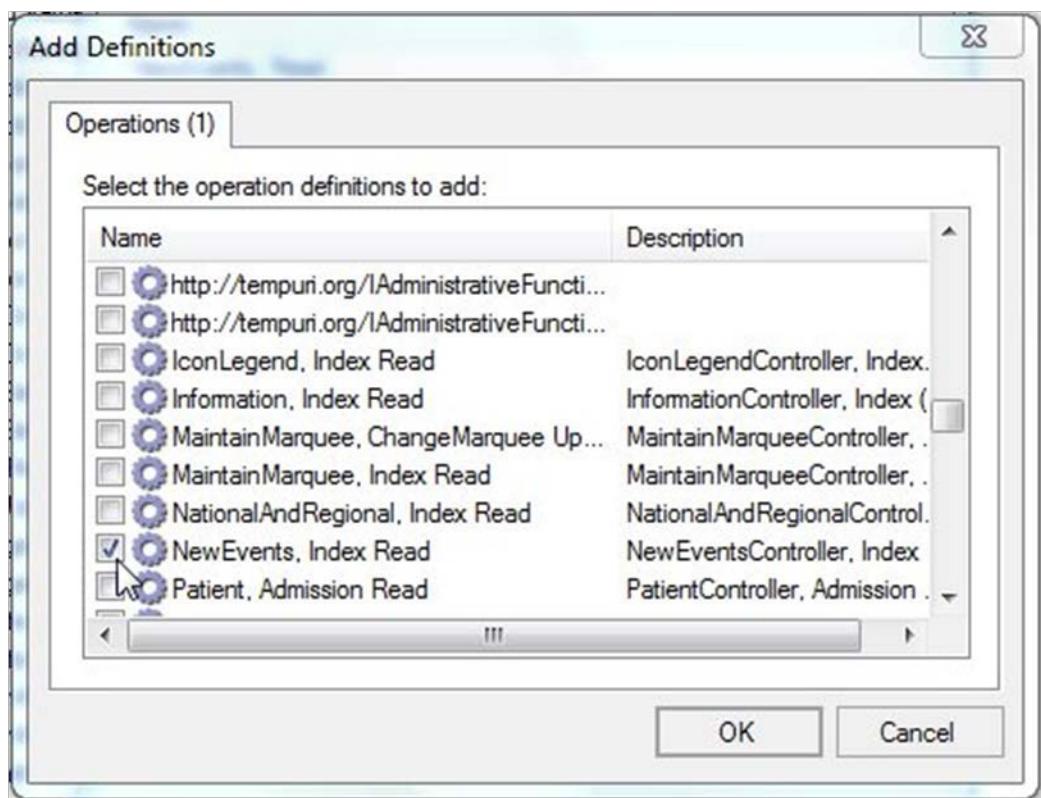


Figure 72 - Adding Operations to a Task

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.

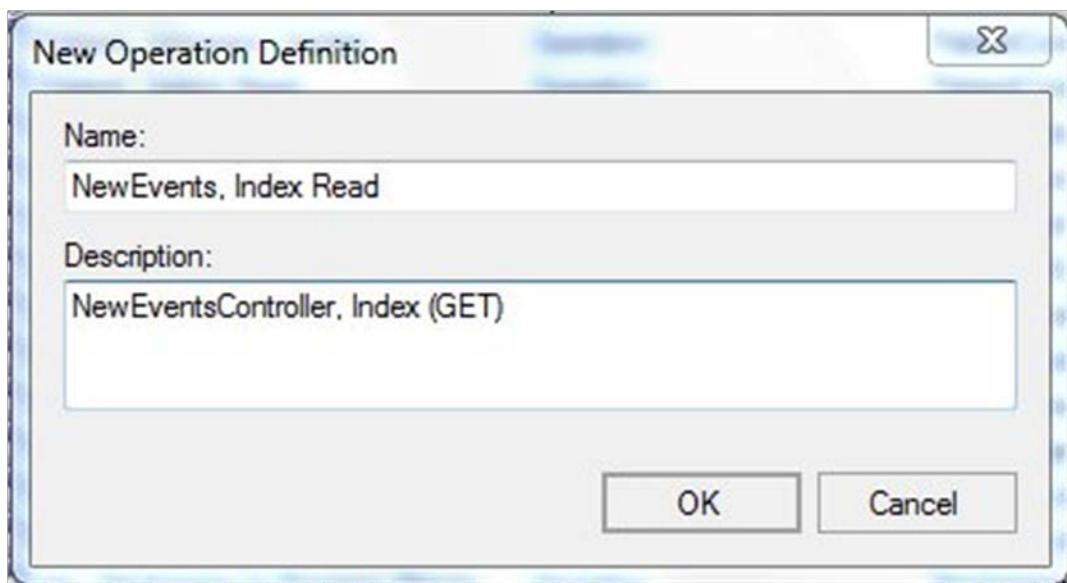


Figure 48 - New Operation Definition

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 49– 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	<ol style="list-style-type: none"> 1. The client application will send the user and the password or windows credentials 2. The system verifies the login information. 3. The system returns the result of the verification to the client application.
Alternative paths	<ol style="list-style-type: none"> 1. The client application will send the X509 certificate of his user 2. The system verifies the certificate 3. The system return the result

Authorization

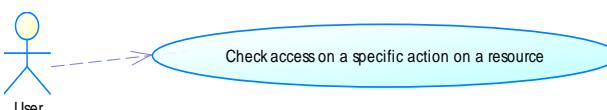


Figure 50 – Authorization use cases

Section	Description
Use Case Name	User authorization
Summary	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.
Preconditions	The users, actions and resources must be defined in an Active Directory structure that the Security Service is using.
Triggers	External
Basic course of events	<ol style="list-style-type: none"> 1. The client application will invoke a check access method for a specified action on a specific resource 2. The system will find the actions that the requesting users has access 3. The system returns true/false if the action requested is among the users defined actions

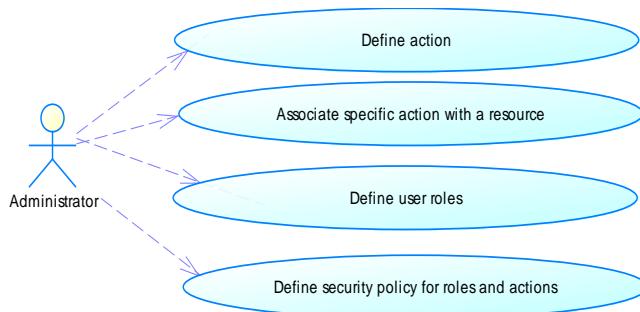


Figure 51 – Authorization administration use cases

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	<ol style="list-style-type: none"> 1. The client application will invoke a create action 2. The system will try to create requested action. 3. 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	<ol style="list-style-type: none"> 1. The client application will invoke a create role 2. The system will try to create requested role. 3. 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 an 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 serve for PDP. The PDP service exposes one method: CheckAccess, whilst PAP service has specific functions for policy administration.

Detailed functional model on each interface

STS – Security Token Service

- Authenticate

Business friendly name	User authentication
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 friendly name	User authorization – check Access
Signature	<i>Message CheckAccess(Message request);</i>
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	<i>String name</i> – name of the new role <i>String description</i> – role description	<i>String</i> – new role's id
Delete Role	Delete a role	<i>String id</i> – role's id	<i>String</i> – deleted role's id
Update Role	Update a role	<i>String id</i> – role's id <i>String name</i> – role's name <i>String description</i> –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	<i>String id</i> – task's id <i>String name</i> –task's name <i>String description</i> –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	<i>String id</i> – operation's id <i>String name</i> –operation's name <i>String description</i> –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	<i>String id</i> – operation id	<i>bool</i> – operation result
Assign User	Assign an user to a role	<i>String userId</i> – user's id (SID) <i>String roleId</i> – role's id	-
DeassignUser	Delete an association between an user and a role	<i>String userId</i> – user's id (SID) <i>String roleId</i> – role's id	-
Grant	Grant access to a	<i>string resourceId, string actionId,</i>	-

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

Users	users associated to a specific role		
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	<i>String</i> resourceId – resource's id	<i>List<Role_Operation></i> – list with role-operations associations
Clear Permissions For Resource	Removes all permissions for a certain resource (all associations to this resource)	<i>String</i> resourceId – resource's id	-
Delete PermissionFor Resource And Operation	Deletes a permission form a role based on the resource and operation sent.	<i>String</i> resourceId – resource's id <i>String</i> roleId – role's id <i>String</i> 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.	<i>String</i> resourceId – resource's id <i>String</i> roleId – role's id <i>String</i> 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

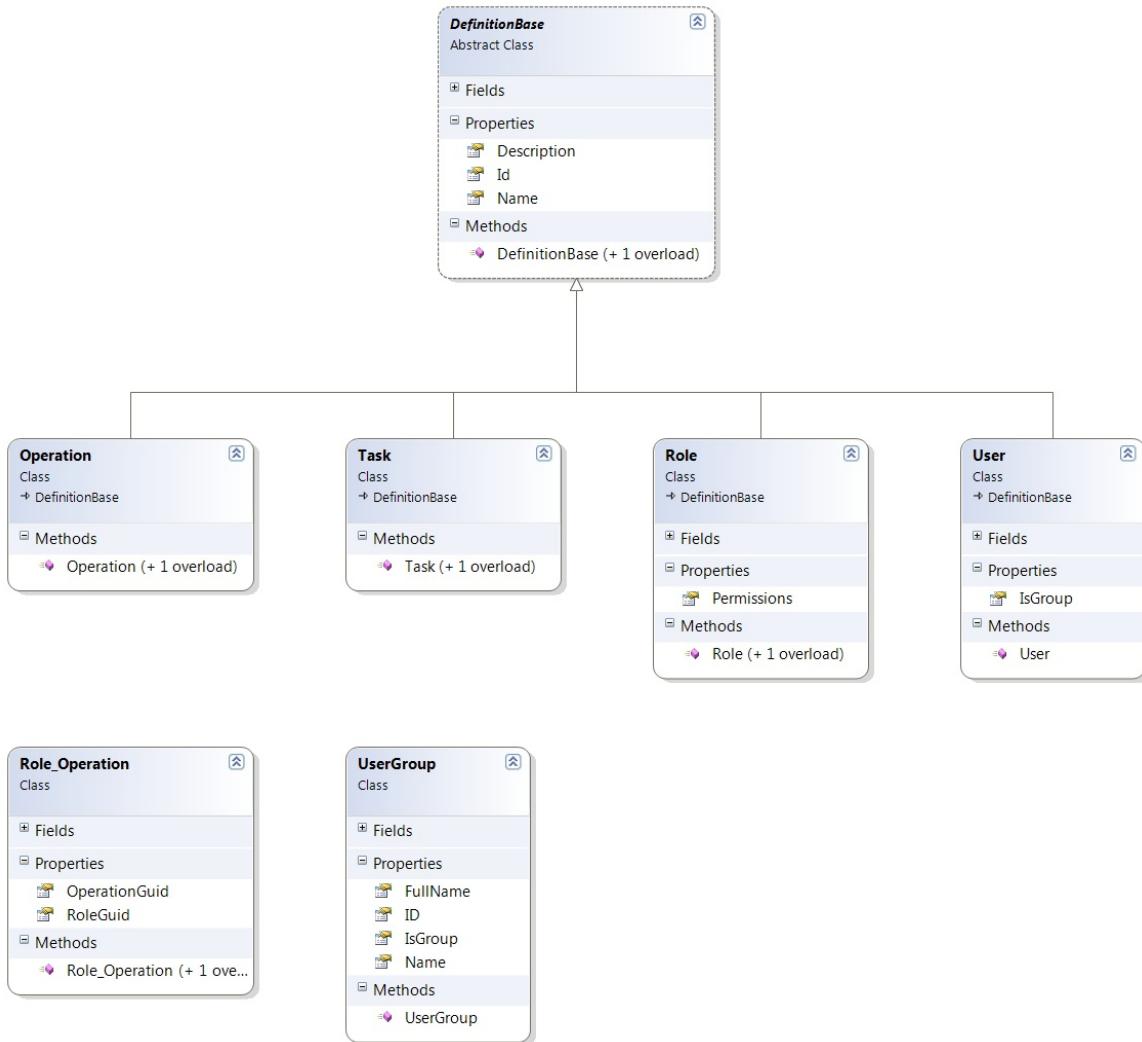


Figure 52 – Class diagram for data contracts in PAP and PDP

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 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.

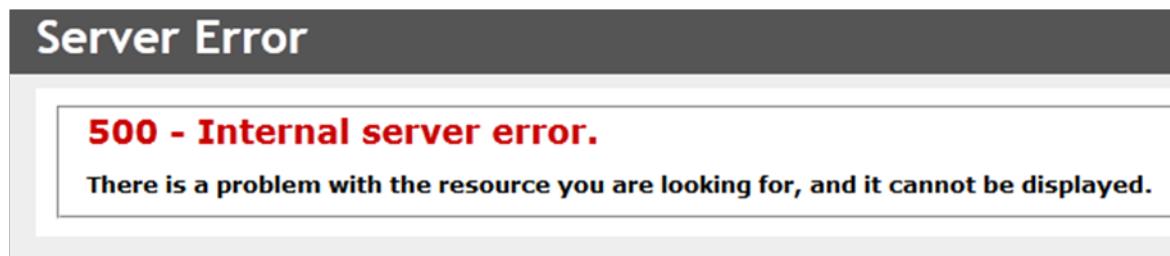
VISN Users: This type of user will have access to the pages of different facilities within the VISN where they have been granted access.

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:



Problem

IIS is not started/running.

Diagnoses and Solutions

Figure 53: 500 Internal Server Error

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:

The screenshot shows a web browser window with the title "Bed Management Solution". Below the title, a red error message reads: "Login was unsuccessful. Please correct the errors and try again." followed by a bullet point: "• Can't get the facilities: There was no endpoint listening at http://testaresoft2:17050/STS/Windows that could accept the message. This is often caused by an incorrect address or SOAP action. See InnerException." The main content area is a "Login" form with fields for "User name" (bmsuser) and "Password" (redacted). A third field labeled "Facility (Required)" contains the message "There are no facilities". At the bottom of the form is a "Connect" button and a link "Go To Facility Bed Cleaning Page (EMS Staff Only)".

Figure 54: There are no Facilities

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:



Diagnoses and Solutions

Figure 55: Unhandled Exception

- 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:

The screenshot shows a 'Login' window with the following details:

- User name: bmsuser
- Password: (redacted)
- Facility (Required): BROCKTON (523A5, BRK) (highlighted in blue)
- Message at the top: "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."
- Buttons: Connect, Go To Facility Bed Cleaning Page (EMS Staff Only)

Diagnoses and Solutions

Figure 56: Login Unsuccessful

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

Symptom 5

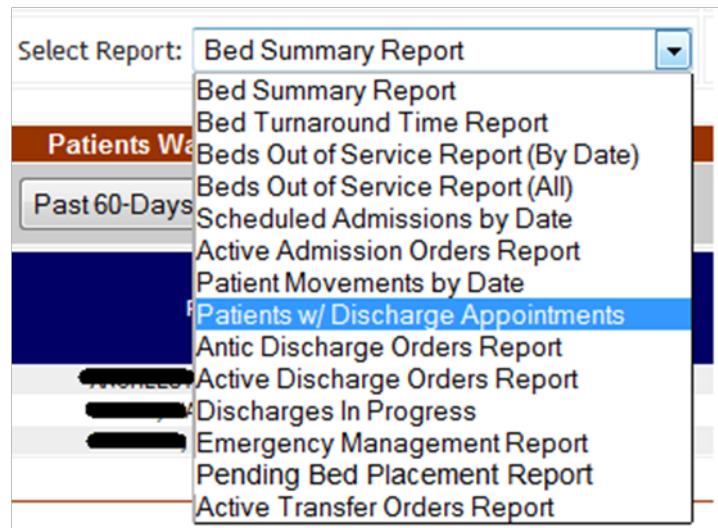
Data does not appear in the reports. Data does not get refreshed in the reports.

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)*).



Diagnoses and Solutions

Figure 57: EMS Bed Status Report is Missing

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:



Diagnoses and Solutions

Figure 58: Report Cannot be Found

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 (vaausbmssqlx5) D:\BMS\Bin.
- The SecurityHost log file is named BMS-Security.log and its location is on the application server (vaausbmssqlx5) D:\BMS\Bin.
- The BMS.ServiceHost logfile is named BMS.trace.log and its location is on the application server (vaausbmssqlx5) at D:\BMS\Bin\BMS.
- The BMS.VI.ServiceHost logfile is named BMS.VI.trace.log and its location is on the application server (vaausbmssqlx6) 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\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 more tricky 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

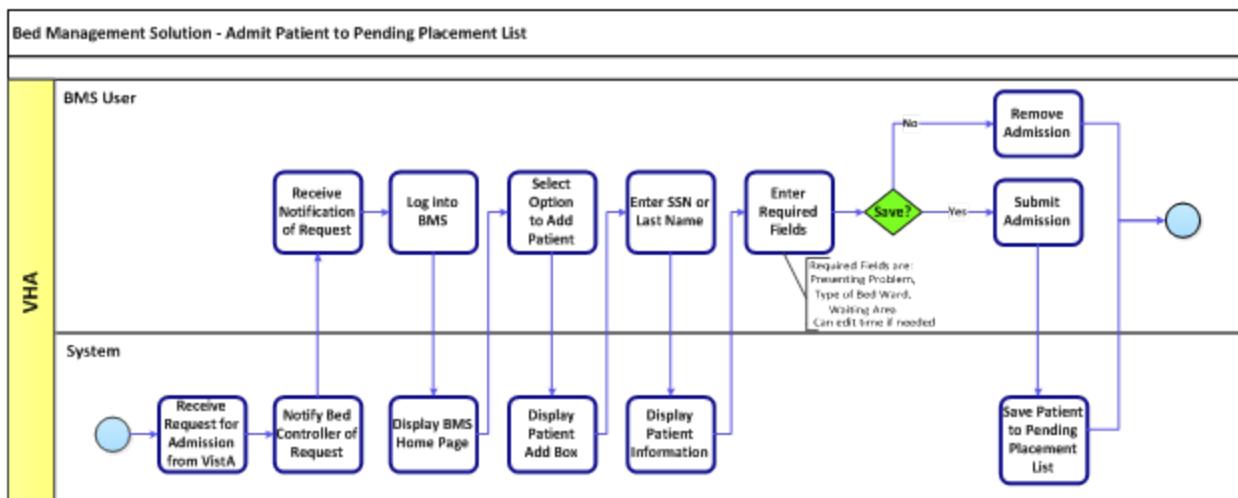


Figure 59: Admit Patient to Patients Pending Bed Placement Business Process

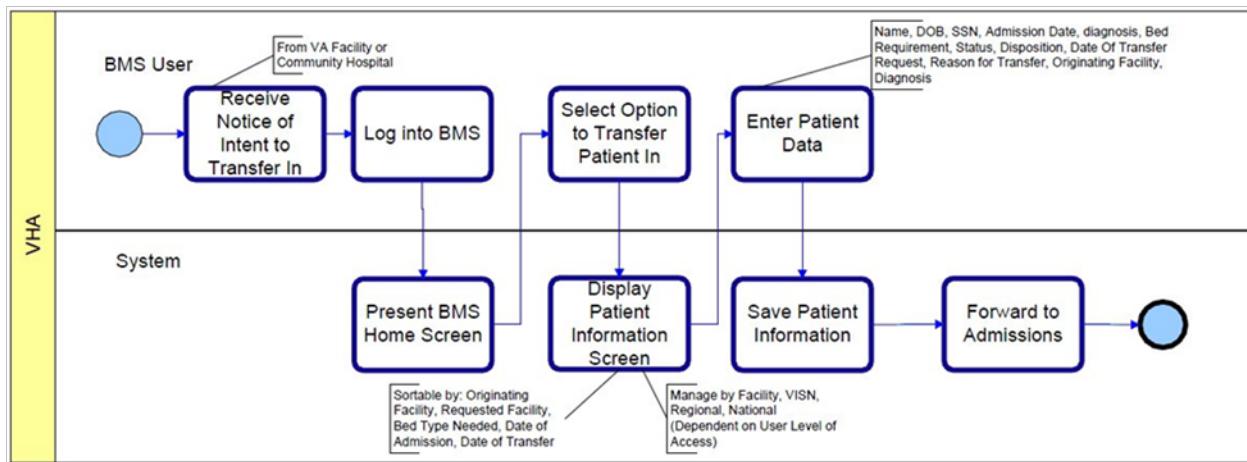


Figure 60: Transfer Patients Pending Bed Placement Business Process

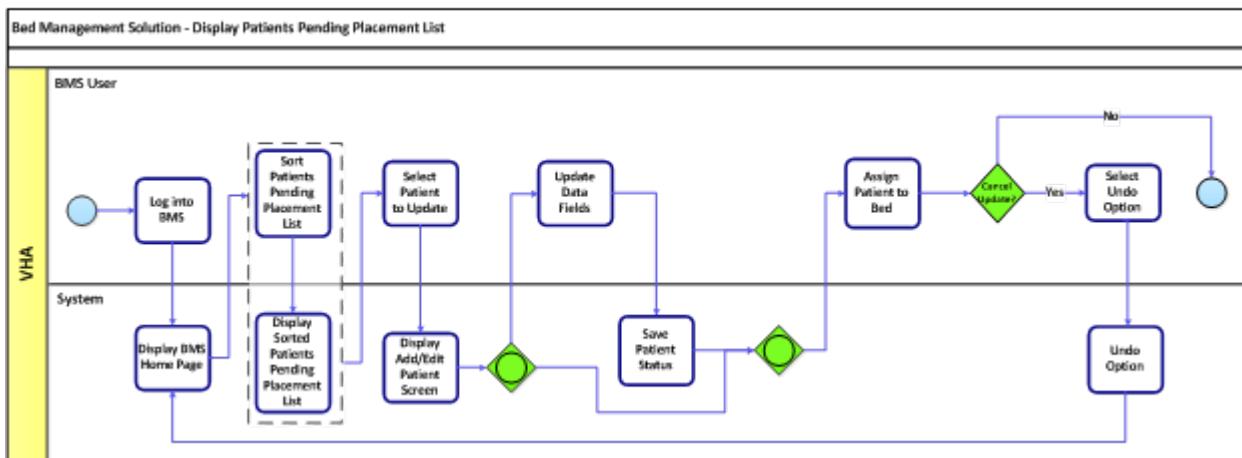


Figure 61: Display and Update Patients Pending Bed Placement Business Process

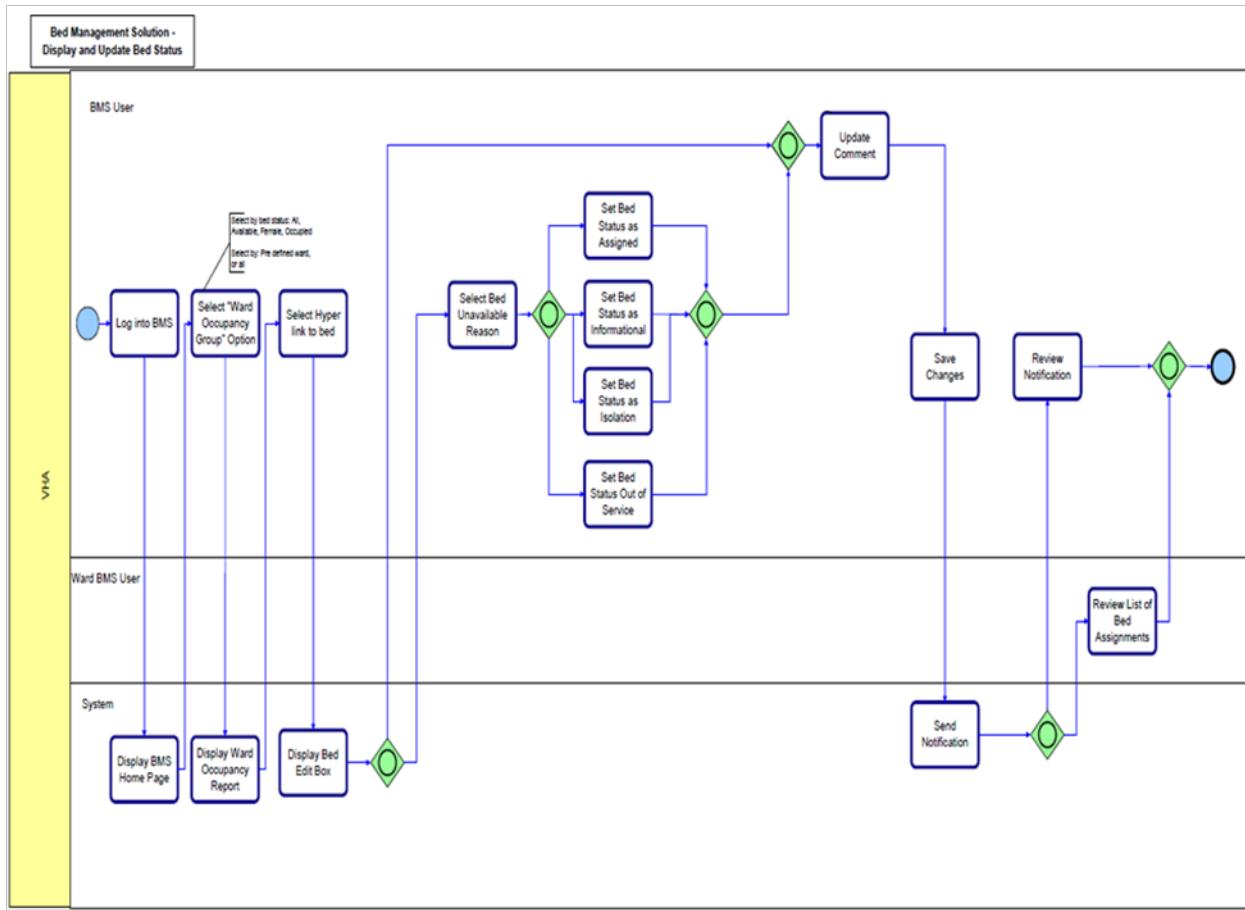


Figure 62: Display and Update Bed Status Business Process

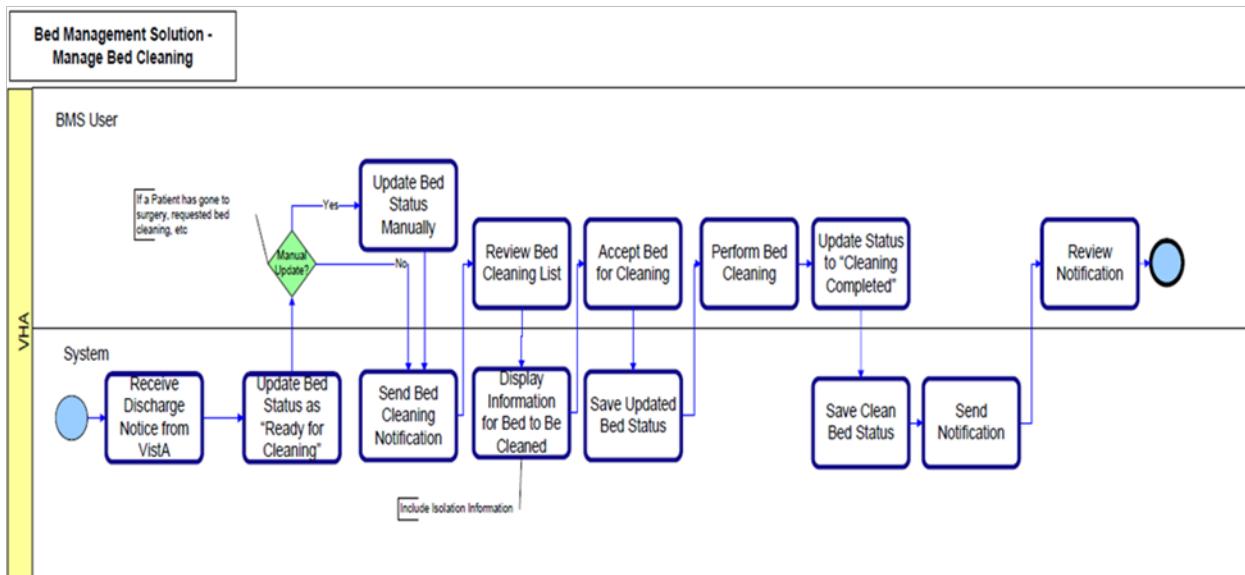


Figure 63: Manage Bed Cleaning Business Process

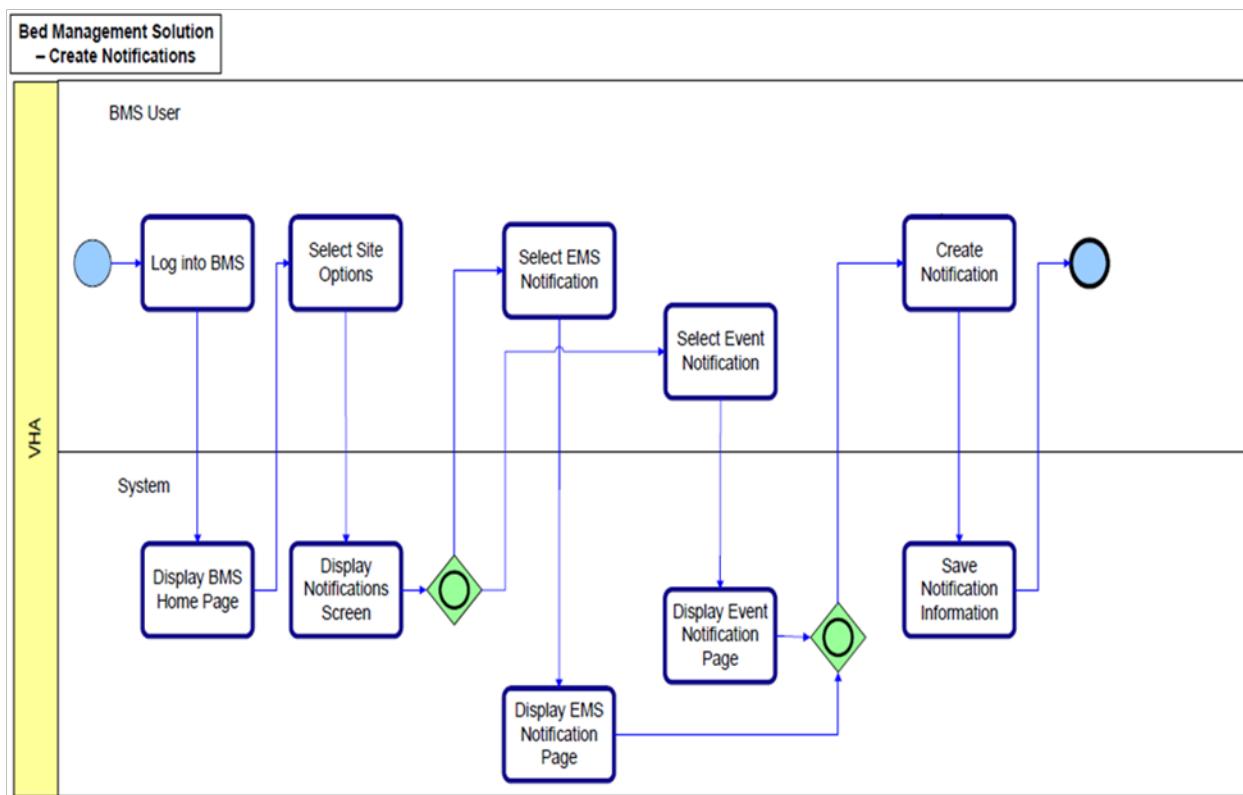


Figure 64: Create Notification Business Process

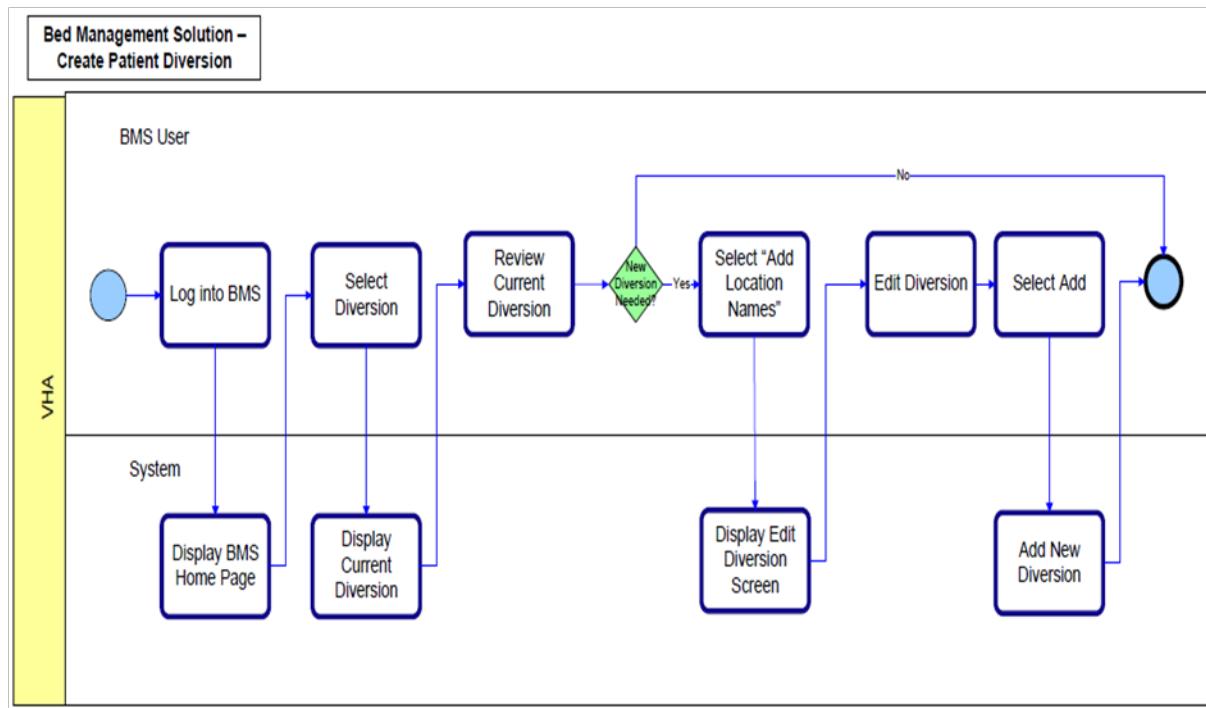


Figure 65: Create Facility Diversion Business Process

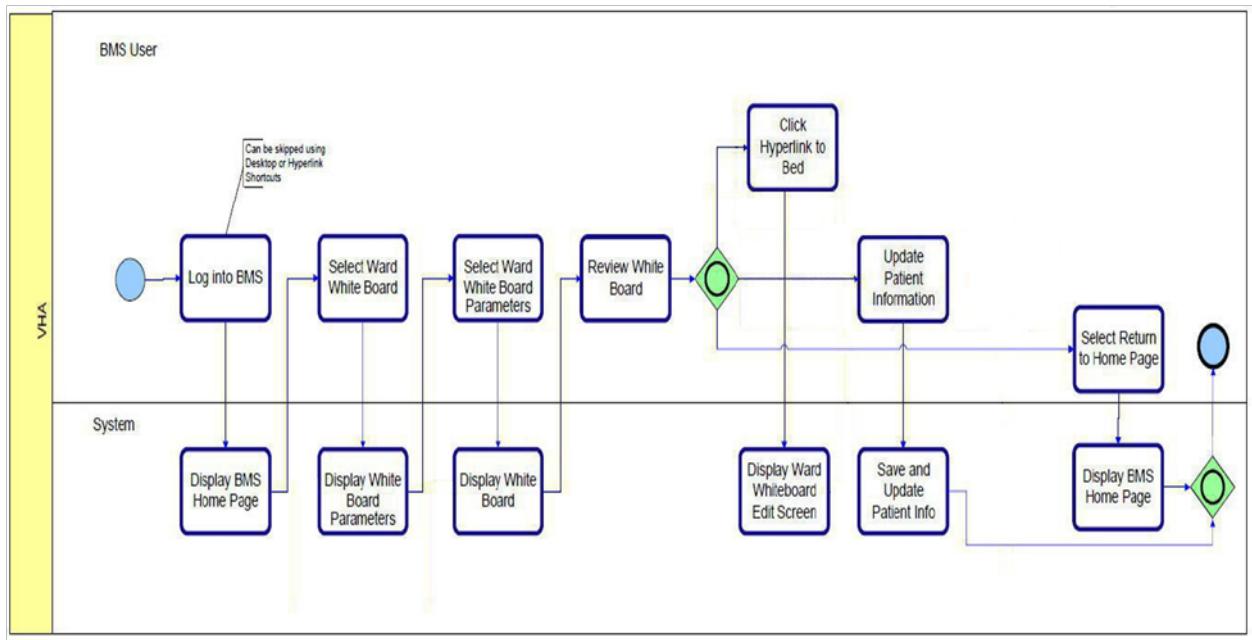


Figure 66: Manage Whiteboard Business Process

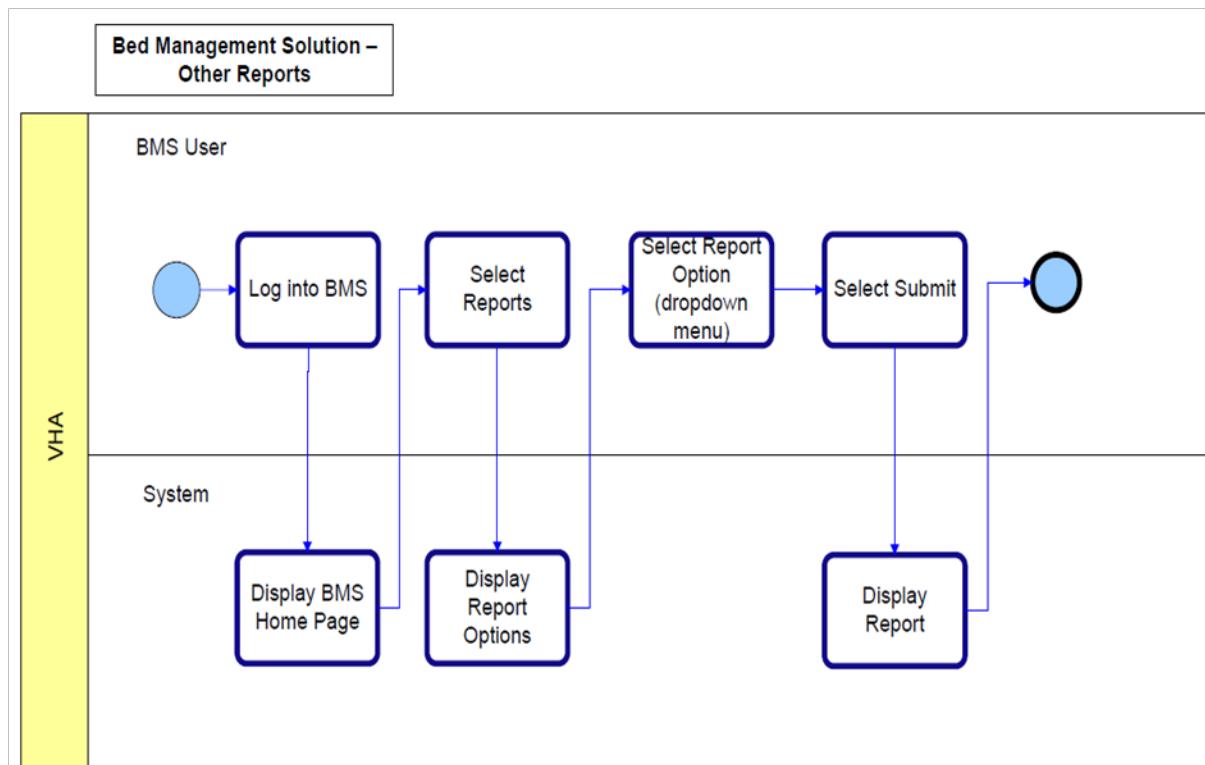


Figure 67: Reports Business Process

10.2 Activity Diagram

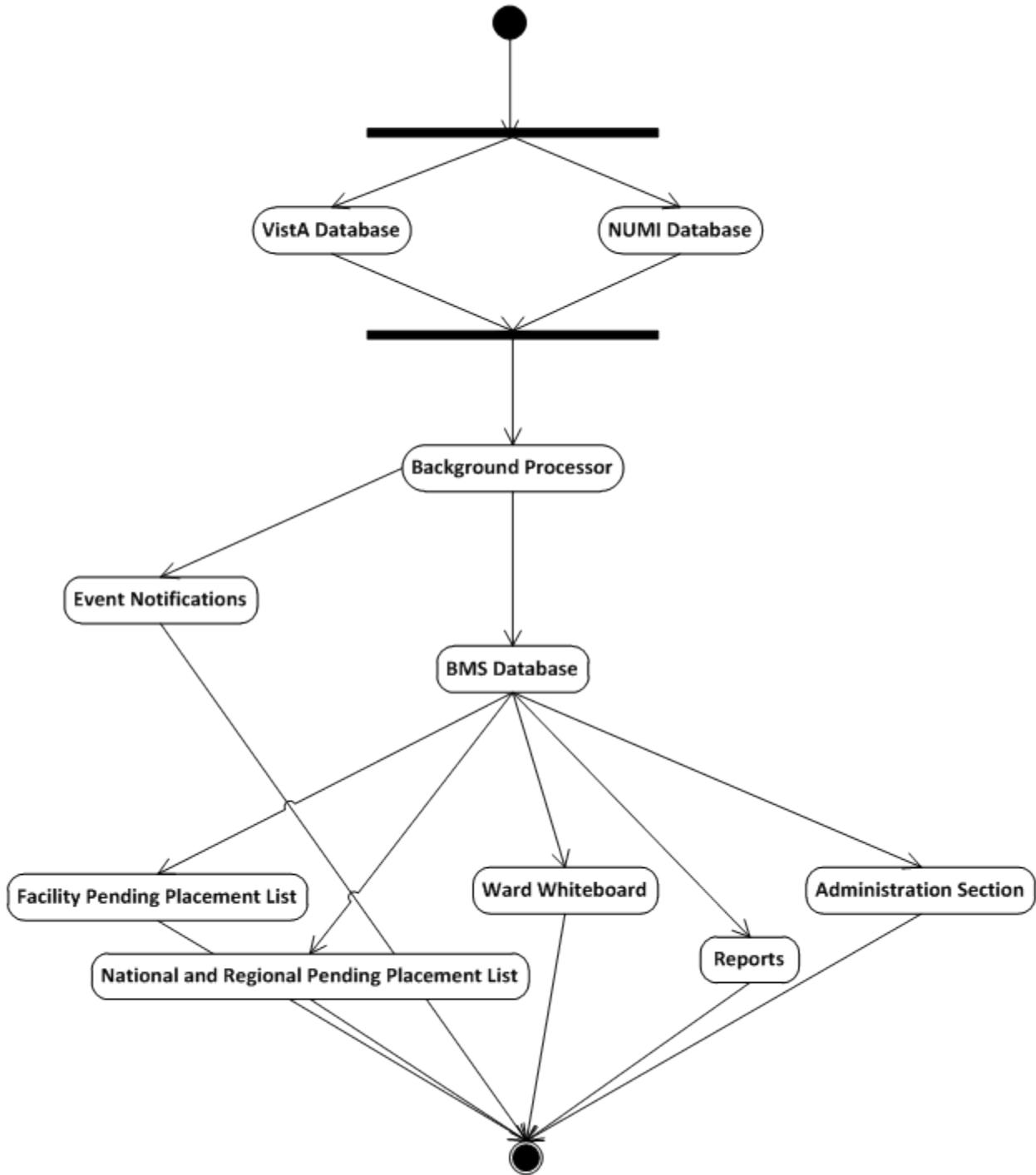


Figure 68: BMS Overview Activity Diagram

10.3 Functional Flow Diagram

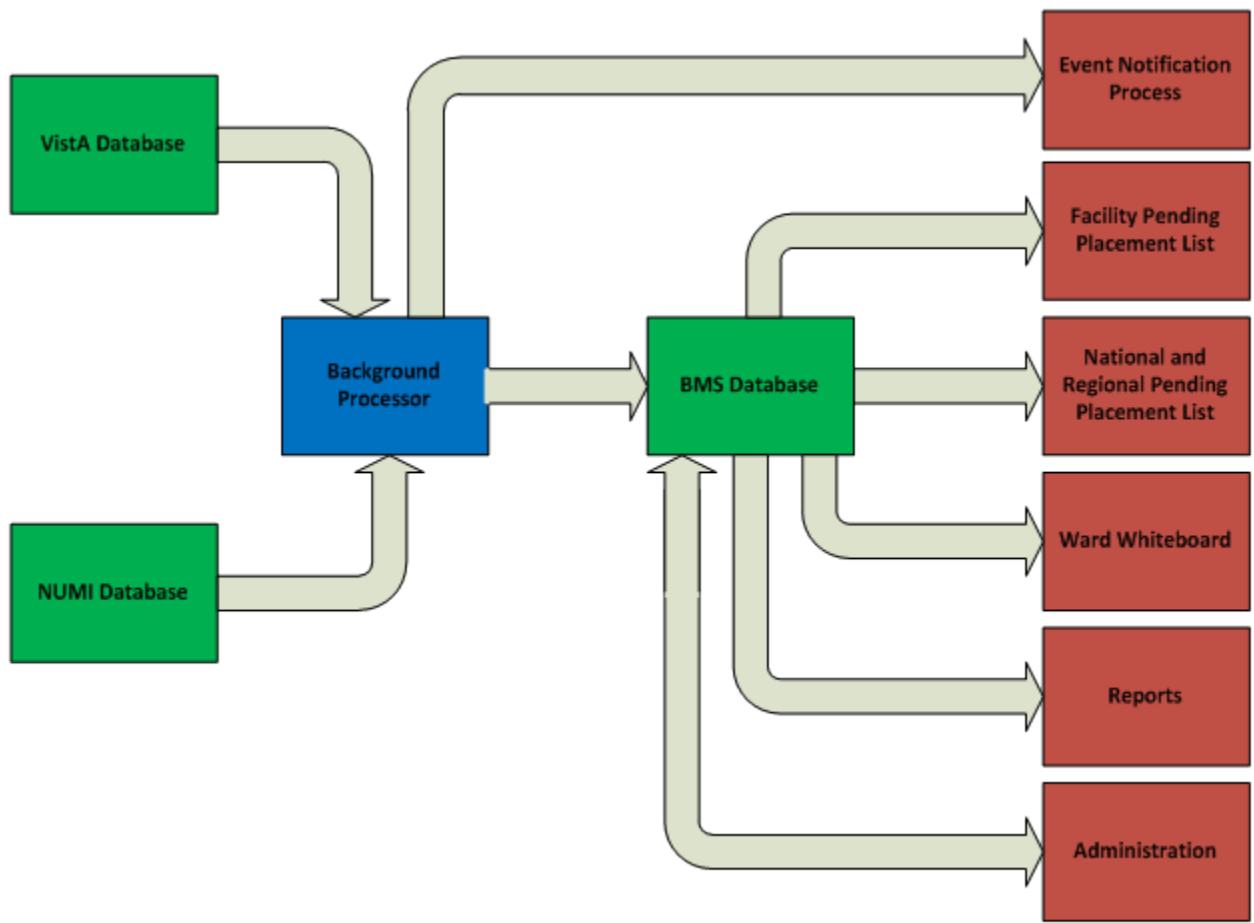


Figure 69: BMS Overview Functional Flow Diagram

9.4 Data Flow Diagram

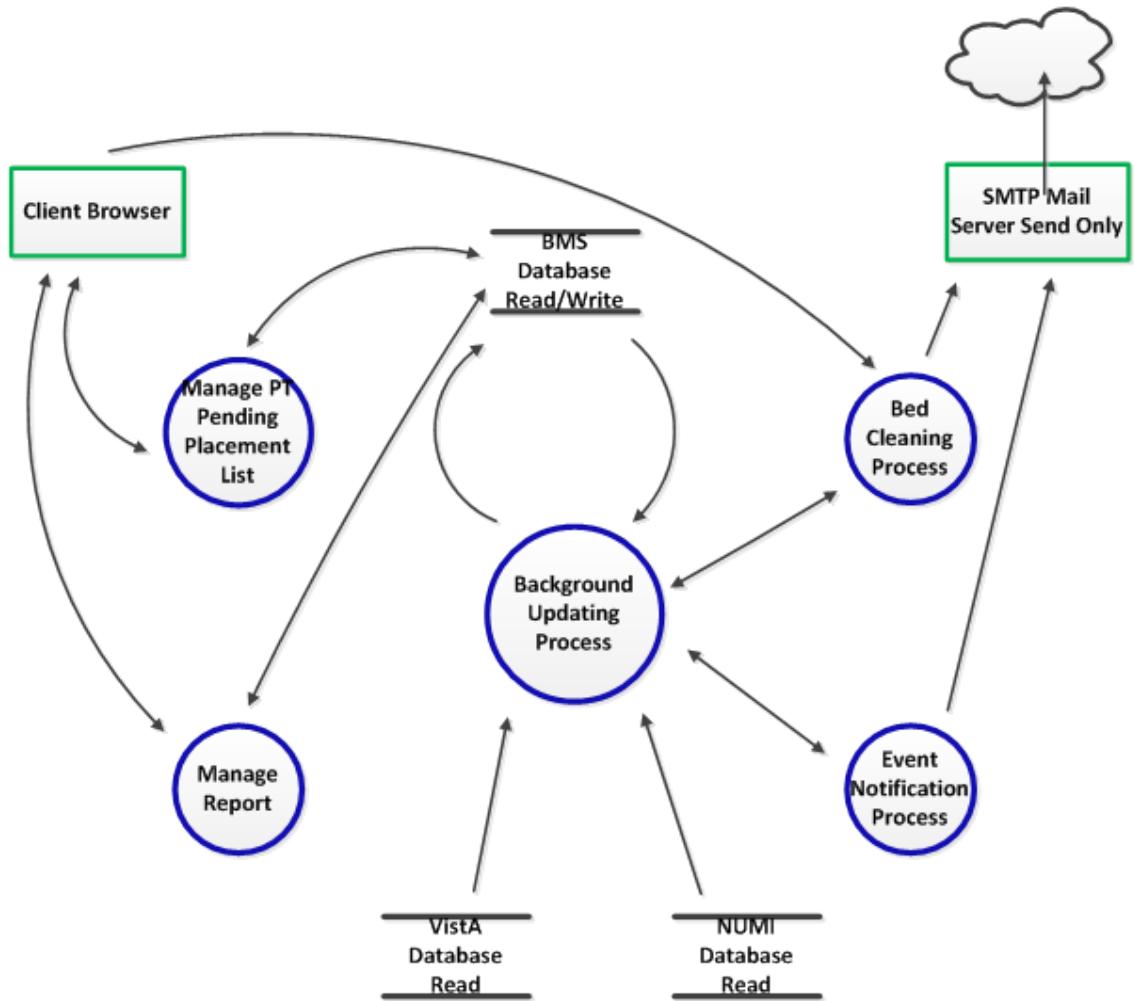
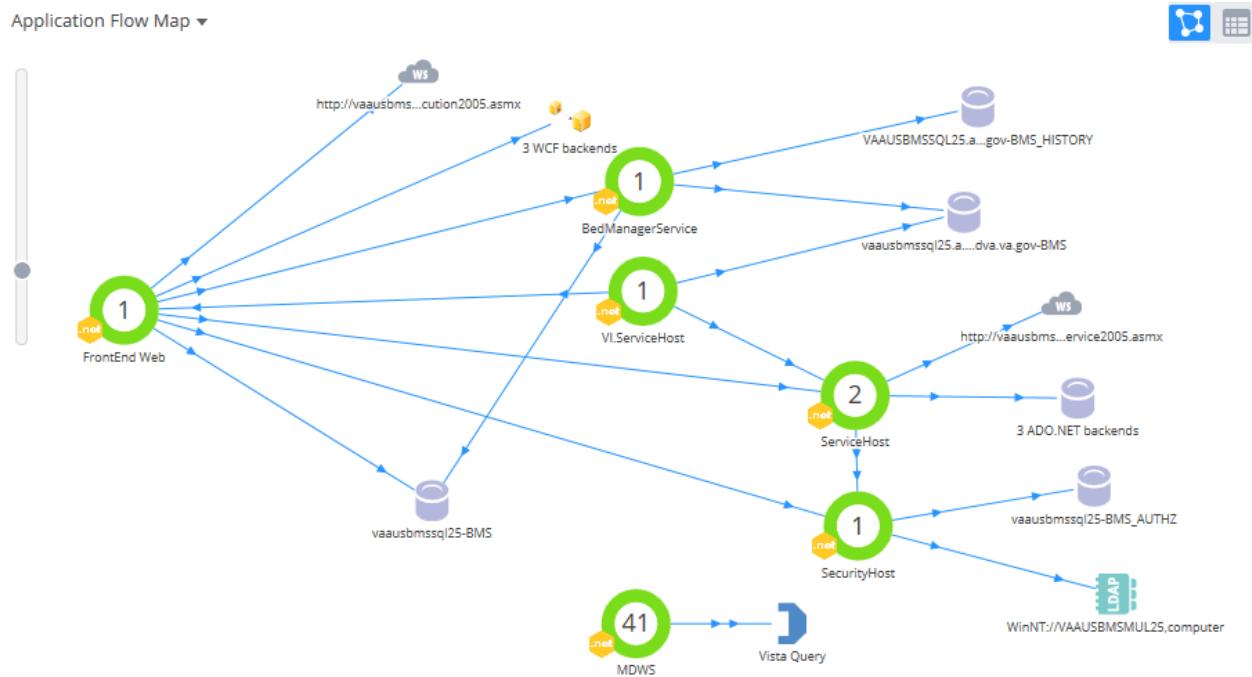


Figure 70: BMS Overview Data Flow Diagram

9.5 Application Flow Map from APPDYNAMICS



1.1 10 Appendix B - Terms, Acronyms, and Abbreviations

Table 27: Terms, Acronyms, and Abbreviations

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 queue 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
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