

State of Vermont

Guidance on the Re-use of Software Products, Shared Components, and Hosted Platform Environment Capabilities for MMIS

Introduction

The State of Vermont (SoV) has adopted a high-level architecture that provides a contemporary and robust approach to meeting Vermont's Healthcare Services Enterprise (HSE) vision.

As readers of the MMIS RFP should be familiar, over the past year the State has labored to create a Healthcare Services Enterprise Platform (HSEP) that aligns with the HSE vision. The State has expended much effort to create this platform through the investing in licenses and resources, procuring a Hosting Provider, and by focused planning and oversight. This document will provide guidance to prospective vendors so that they can better understand how to craft their proposals in order to leverage the Software Products, Shared Components, and Hosted Platform Environment Capabilities that the State has created.

Design for Reusability.

As an enduring and seldom amended rule and guideline, enterprise architecture frameworks use Principles to set about how the enterprise platform fulfills its mission for the business. A fundamental principle followed by the State of Vermont is "Design for Reusability." This principle states that applications developed across the enterprise are preferred over the development of similar or duplicative applications. This principle aligns with CMS' "Leverage Condition" standard which states " solutions should promote sharing, leverage, and reuse of Medicaid technology and systems within and among state."¹ Therefore, the State of Vermont requires vendors to use as much of the current HSE-Platform applications for re-use. Instructions for re-use follow below. As a reference to the Current State of the Vermont HSE-P please consult the HSEP Platform and Charter Matrix.

Instructions

Wherein a design a vendor needs to use a **Software Product**, the vendor should examine the Software Product list (displayed below) to see if the State has an established standard and has already purchased the software licenses.

If the vendor solution needs a certain technology capability, then the vendor should examine the list of **Shared Components** that are available (expected availability FALL 2014) in the HSE platform and plan to use the available component. The status for these shared components is available in the **HSEP_Platform_and_Charter_Matrix.xlsx** document now located in the Procurement Library. (Note, Shared Components are sometime referred to as Capabilities or Platform Capabilities.)

Lastly, if a vendor needs an Environment, like DEV or TEST Environments, or needs to understand the currently deployed systems within the Production Environment, the prospective Vendor can review the current list of shared components listed in the **HSEP Development Environment** and the **HSEP Production Environment** sections. Both are listed the last 2 sections of this document.

¹ CMS

Medicaid IT Supplement (MITS-11-01-v1.0)

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Software Product Standards

The State has categorized the Software Product standards as it relates to the MMIS solution into two groups: Mandatory and Preferred.

Mandatory means, that when it comes to choosing the functional software product, the Vendor when creating their proposal must use the software product that has been purchased by the State which satisfies this function.

Preferred means, that when it comes to choosing the functional software product, the Vendor when creating their proposal has some discretion to propose another software product. If the Vendor chooses to do this, the Vendor must provide an explanation and justification for its choice of software product

Mandatory Software Products

SoV has licensed the following products on an enterprise/unlimited basis	
Functional Software Product Category	Software Products
Database Products	Oracle Database Enterprise Edition
	Real Application Clusters
	Partitioning
	Advanced Security
	Database Vault
	Oracle Advanced Compression
	Oracle Active Data Guard
	Diagnostics Pack
	Tuning Pack
	Change Management Pack
	Provisioning and Patch Automation Pack for Database
	Configuration Management Pack for Oracle Database
	Oracle Data masking Pack
	Business Intelligence Publisher

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Rule Engine Products	Oracle Policy Automation, Oracle Policy Modeling, Oracle Policy Automation Connectors for Siebel
Reporting and Business Intelligence	Oracle Business Intelligence Suite Enterprise Edition Plus
	Oracle Business Intelligence Management Pack:
	Partner Analytics Fusion Edition
	Contact Center Telephony Analytics Fusion Edition
	Service Analytics Fusion Edition
	Case Management Analytics Fusion Edition
	Oracle Data Integrator
	Oracle BI Publisher
Identity and Access Management	Identity Analytics -This product is not currently installed. When it is installed, it will have little direct effect on other projects that are implemented on the HSEP
	Identity and Access Management Suite Plus (License may be limited)
	Oracle Virtual Directory
	Oracle Identity Manager
	Oracle Internet Directory Oracle Internet Directory
	Oracle Access Manager
	Oracle Unified Directory
	Oracle Adaptive Access Manager* Licensing currently limited
	Identity Manager Connector – Database Applications Table
	Identify Manager Connector - Database User Management
	Identify Manager Connector - Microsoft Active Directory
	Identify Manager Connector - Microsoft Exchange
	Identify Manager Connector - PeopleSoft Enterprise Applications
	Identify Manager Connector - Database Microsoft Windows
	Identify Manager Connector - UNIX
	Identify Manager Connector - RSA Authentication Manager
	Identify Manager Connector - Siebel Enterprise Applications
	Identify Manager Connector - IBM RACF
	Management Pack Plus for Identity Management
Portal Products	WebCenter Suite (does not include Content Management)
	WebCenter Suite Plus upgrade
Enterprise Content Management Products	Oracle Web Center Capture 10gR3 Oracle Recognition and Content License of above may be limited.

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Service Orientated Software Platform Products / BPM	WebLogic Suite
	SOA Management Pack Enterprise Edition
	WebLogic Server Management Pack Enterprise Edition
	SOA Suite for Oracle Middleware
	Includes Oracle BPEL
	Includes Oracle Mediator
	Includes Oracle Human Workflow
	Includes Oracle Service Bus
	Includes Oracles Business Activity Monitoring
	Unified Business Process Management Suite
	Enterprise Repository
	Service Registry
	Healthcare Adaptor
	Application Integration Architecture
	MDM-CRM Integration PIP
	Oracle Application Management Suite for Siebel
Master Data Management and Data Quality Products	Oracle Customer Hub Data Steward
	Oracle Customer Hub B2B
	Oracle Customer Hub B2C
	Oracle Activity Hub B2B for Oracle Customer Hub B2B
	Oracle Activity Hub B2C for Oracle Customer Hub B2C
	Oracle Customer Master Data Management Integration Base Pack
	Oracle Enterprise Data Quality (OEDQ) Matching Server - limited to 4 Processors
	Oracle Governance, Risk, and Compliance Manager
Secure Email System	Voltage Secure Email (hosted by State)

Preferred Software Products

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CRM/Case Management Products	Siebel Public Sector CRM- implemented in Siebel Open UI to avoid legacy browser limitations per http://www.oracle.com/us/products/applications/siebel/siebel-crm-open-ui-1872031.pdf , Siebel Base CRM, Siebel Public Sector Partner Portal, Siebel Public Sector eService, Siebel Partner Manager
Training Management	Oracle UPK
Notice Generation	Thunderhead Now v5.1 WCP/WLS
Financial Management	PeopleSoft General Ledger
	PeopleSoft Accounts Payable
	PeopleSoft Billing
	PeopleSoft Accounts Receivable
	PeopleSoft Cash Management
	PeopleSoft Projects
	PeopleSoft Grants

HSEP Hosting Environments

A Vendor can expect the Production environment with the proposed expansion in capacity to be available for use as required for its proposed solution. A Vendor may also wish to request similar development and/or testing environments provisioned by State of Vermont’s Hosting Provider for its own purposes until it is time to merge a Solution into a shared environment. There six environments used for HSEP.

Environment	Description and Use	Status as of 3/1/2014
Dev	Development environment. This environment is used solely by developers to manage code base, implement new functionality, initial unit testing, trouble shoot, etc. Developers are sole users of this environment	IN USE
Test	Testing environment. This environment is used for functional and system integration testing by developers.	IN USE
Train	Training environment. This environment is used to training employees.	INUSE
Staging	Staging environment. Mirrors the production environment. Code changes move here before going to the production environment. Release management. User acceptance testing.	See Note

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Production	Production environment. The environment that is Live or will go Live. Also for security and performance testing prior to Go Live.	See Note
Disaster Recovery	Disaster recovery environment. Failover “warm” continuity of operations site for Live production environment. Target RPO 30 minutes and Target RTO is 4 hours.	See Note

Note: Currently the Staging and Production environments are swapped in functionality. There is a plan in place to migrate the Staging Environment (current Production) to the design Production environment. Currently the Disaster Recovery requirements have been reduced to RPO 30 minutes but RTO of approximately 5 days. The Disaster Recovery environment is a mirror of current Production and after the migration of Staging to Production, the DR site requirements will be aligned as originally required.

State of Vermont has procured the services of a hosting provider for the build out, maintenance and operation of a private cloud in support of the HSE Platform. Below is a snap-shot of the HSEP DEV and Production Environments. Extensive detailed technology architecture diagrams of each environment are available.

HSEP Development Environment

Count	#	TIER	Application Comment 1 (SW and version, etc)	Web/App/DB Zones from Visio	O/S	#vCPU	MEM (GB)
1	1	Web	OneGate /LifeRay (HBE Portal) Weblogic-OIM Weblogic OHS x 2 (Auth/Self Service Password) HTTP/ESB DMZ for external FTP/SFTP/FTPS Services	SOV Private Web WAN (Partner/SOV Entry) Security Zone AA VLAN AA	Linux 64bit	4	8
1	2	Web	Siebel-SWE Siebel CRM OHS + OAM Webgate	SOV Private Web WAN (Partner/SOV Entry) Security Zone AA VLAN AA	Linux 64bit	2	4

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1	3	Web	OneGate/LifeRay IDM Self Service IDM Management OBIEE Web Front Ends WebCenter Content ECM Web Frontend OHS x4 + OAM Webgate x4	SOV Private Web WAN (Partner/SOV Entry) Security Zone AA VLAN AA	Linux 64bit	4	8
1	4	Web	ESB (Console/Mgmt) Master Data Management (MDM) Siebel UCM App.Mgm.Web Frontend HTTP / ESB (Execution) (all internal ESB calls traverse these) OHS + OAM Webgate	SOV Private Web WAN (Partner/SOV Entry) Security Zone AA VLAN AA	Linux 64bit	2	4
1	5	Web	Oracle WebCenter Capture - Index/Scan/Commit, Forms/Barcode recognition and Import Oracle 11 g client - for connection to the Oracle database (Windows IIS enabled)	SOV Private Web WAN (Partner/SOV Entry) Security Zone AA VLAN AA	Windows	0	0
1	6	App	Siebel Object Manager (AOM) Siebel CRM Oracle Client 32bit	Siebel Product Suite Security Zone BB VLAN BB	Linux 64bit	8	16
1	7	App	Siebel Gtwy/FS/NonAOM Siebel CRM BI Publisher Oracle Client 32bit	Siebel Product Suite Security Zone BB VLAN BB	Linux 64bit	8	16
1	8	App	WebCenter Capture WebCenter Dist Capture Siebel CTI Server (future) (Windows)	WebCenter Capture Security Zone BB VLAN BB	Windows	2	4

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1	9	App	OneGate/Liferay WebLogic Use WLS x64 for Liferay and OneGate and x64 for Thunderhead, SOA, WebCenter, IDM,etc	LifeRay/OneGate Security Zone BB VLAN BB	Linux 64bit	2	16
1	10	App	Thunderhead / WCP /WLS WebLogic WebCenter Content Secure Enterprise Search Use WLS x64 for Liferay and OneGate and x64 for Thunderhead, SOA, WebCenter, IDM,etc	Enterprise Content Management (ECM) Security Zone BB VLAN BB	Linux 64bit	2	8
1	11	App	MDM/Cust Hub B2C,Data Steward/ Siebel UCM OEDQ Oracle Client 32bit WebLogic	Master Data Management (MDM) Security Zone BB VLAN BB	Linux 64bit	8	16
1	12	App	OPA Engine OPA WebLogic	Oracle Policy Automation (OPA) Security Zone BB VLAN BB	Linux 64bit	2	4
1	13	App	Oracle Identity Manager WebLogic OIM SOA	IDM, OAM, OVD, OID Security Zone BB VLAN BB	Linux 64bit	4	16
1	14	App	Oracle Access Manager WebLogic OAM OAAM	IDM, OAM, OVD, OID Security Zone BB VLAN BB	Linux 64bit	4	16
1	15	App	OVD ODSM OVD OUD ODSM OUD	OVD, OUD Security Zone CC VLAN CC	Linux 64bit	4	16

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1	16	App	Weblogic – OBIEE OBIEE ETL - ODI OBIA Oracle Client 64bit	Business Int/ETL/OBIEE/Informatica Security Zone BB VLAN BB	Linux 64bit	4	8
1	17	App	WebLogic WSM SOA BPM AIA OSB, BAM, OneGate Components SOA Suite	Oracle Enterprise Service Bus (ESB/OSB) Security Zone BB VLAN BB	Linux 64bit	8	16
1	18	App	IE Sandbox server – WebLogic, WSM,SOA BPM, AIA , OSB, BAM, OneGate Components	Oracle Enterprise Service Bus (IE SANDBOX) Security Zone BB VLAN BB	Linux 64bit	4	16
1	19	App	OER / WebLogic	Oracle Enterprise Service Bus (ESB/OSB) Security Zone BB VLAN BB	Linux 64bit	0	0
1	20	App	Siebel Admin Console Siebel Tools Siebel CRM (Windows 2008)	Administrative Environment (AM) Security Zone BB VLAN BB	Linux 64bit	2	4
1	21	App	WebLogic WebCenter Capture (For POC on latest version – Only in Dev)	WebCenter Capture Security Zone BB VLAN BB	Linux 64bit	2	8
1	22	Database	OLTP Transaction (Oracle 64bit)	Oracle Database (DB) Environment Security Zone DD VLAN DD	Linux 64bit	12	32
1	23	Database	OLAP Analytics (Oracle 64bit)	Oracle Database (DB) Environment Security Zone DD VLAN DD	Linux 64bit	12	32

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Count	#	TIER	Application Comment 1 (SW and version, etc)	Web/App/DB Zones from Visio	O/S	#vCPU	MEM(GB)
1	1	Web	OneGate /LifeRay (HBE Portal), Landing Page Weblogic IDM Self Service OHS + OAM Webgate Weblogic-OIM (Authen/ Self Service)	Public Web DMZ (Citizens/SOV Entry) Security Zone PRD_DMZ (Public) (User based)	Linux 64bit	4	8
1	2	Web	OneGate /LifeRay (HBE Portal), Landing Page Weblogic IDM Self Service OHS + OAM Webgate Weblogic-OIM (Authen/ Self Service)	Public Web DMZ (Citizens/SOV Entry) Security Zone PRD_DMZ (Public) (User based)	Linux 64bit	4	8
1	3	Web	HTTP / ESB DMZ for external OAM Webgate	Public Web DMZ (Service) Security Zone PRD_DMZ_2 (Public) (services based)	Linux 64bit	2	4
1	4	Web	HTTP / ESB DMZ for external OAM Webgate	Public Web DMZ (Service) Security Zone PRD_DMZ_2 (Public) (services based)	Linux 64bit	2	4

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1	5	Web	FTP/SFTP/FTPS Services OAM Webgate	Public Web DMZ (Service) Security Zone PRD_DMZ_2 (Public) (services based)	Linux 64bit	2	4
1	6	Web	Siebel-SWE Siebel CRM OHS + OAM Webgate	SOV Private Web WAN (Partners/SOV Entry) Security Zone PRD_DMZ_3 (Private) (User based)	Linux 64bit	2	4
1	7	Web	Siebel-SWE Siebel CRM OHS + OAM Webgate	SOV Private Web WAN (Partners/SOV Entry) Security Zone PRD_DMZ_3 (Private) (User based)	Linux 64bit	2	4
1	8	Web	ECM Web Frontend IDM Management OBIEE Web Front Ends WebCenter Content OHS x3 + OAM Webgate x3	SOV Private Web WAN (Partners/SOV Entry) Security Zone PRD_DMZ_3 (Private) (User based)	Linux 64bit	4	8
1	9	Web	ECM Web Frontend IDM Management OBIEE Web Front Ends WebCenter Content OHS x3 + OAM Webgate x3	SOV Private Web WAN (Partners/SOV Entry) Security Zone PRD_DMZ_3 (Private) (User based)	Linux 64bit	4	8
1	10	Web	OneGate /LifeRay (HBE Portal), Landing Page IDM Self Service OHS + OAM Webgate	SOV Private Web WAN (Partners/SOV Entry) Security Zone PRD_DMZ_3 (Private) (User based)	Linux 64bit	4	8

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1	11	Web	OneGate /LifeRay (HBE Portal), Landing Page IDM Self Service OHS + OAM Webgate	SOV Private Web WAN (Partners/SOV Entry) Security Zone PRD_DMZ_3 (Private) (User based)	Linux 64bit	4	8
1	12	Web	HTTP / ESB (Execution) (all internal ESB calls traverse these) OAM Webgate	SOV Private Web WAN(Partners/SOV Entry) Security Zone PRD_DMZ_4 (Private) (Service based)	Linux 64bit	2	4
1	13	Web	HTTP / ESB (Execution) (all internal ESB calls traverse these) OAM Webgate	SOV Private Web WAN(Partners/SOV Entry) Security Zone PRD_DMZ_4 (Private) (Service based)	Linux 64bit	2	4
1	14	Web	Master Data Management (MDM) Siebel UCM App.Mang.Web Frontend ESB (Console/Mgmt) OAM Webgate	SOV Private Web WAN(Partners/SOV Entry) Security Zone PRD_DMZ_5 (Private) (Management based)	Linux 64bit	2	4
1	15	Web	SFTP – Internal SOV WAN Interface	SOV Private Web WAN(Partners/SOV Entry) Security Zone PRD_DMZ_4 (Private) (Service based)	Linux 64bit	2	4
1	16	App	Siebel Object Manager (AOM) Siebel CRM Oracle Client 32bit	Siebel Product Suite Security Zone PRD_APPS	Linux 64bit	8	16

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1	17	App	Siebel Object Manager (AOM) Siebel CRM Oracle Client 32bit	Siebel Product Suite Security Zone PRD_APPS	Linux 64bit	8	16
1	18	App	Siebel Gtwy/FS/NonAOM Siebel CRM BI Publisher Oracle Client 32bit	Siebel Product Suite Security Zone PRD_APPS	Linux 64bit	8	16
1	19	App	Siebel Gtwy/FS/NonAOM Siebel CRM BI Publisher Oracle Client 32bit	Siebel Product Suite Security Zone PRD_APPS	Linux 64bit	8	16
1	20	App	WebCenter Capture WebCenter Distributive Capture (Windows)	Enterprise Content Management (ECM) Security Zone PRD_APPS	Windows	2	4
1	21	App	Siebel CTI Server (Windows)	Siebel Product Suite Security Zone PRD_APPS	Windows	8	16
1	22	App	OneGate/Liferay Weblogic	Liferay/OneGate Security Zone PRD_APPS	Linux 64bit	2	16
1	23	App	OneGate/Liferay Weblogic	Liferay/OneGate Security Zone PRD_APPS	Linux 64bit	4	8
1	24	App	WebLogic WebCenter Content Secure Enterprise Search	Enterprise Content Management (ECM) Security Zone PRD_APPS	Linux 64bit	4	8
1	25	App	WebLogic WebCenter Content Secure Enterprise Search	Enterprise Content Management (ECM) Security Zone PRD_APPS	Linux 64bit	4	16

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1	26	App	MDM/Cust Hub B2C,Data Steward/ Siebel UCM OEDQ Oracle Client 32bit WebLogic	Master Data Management (MDM) Security Zone PRD_APPS	Linux 64bit	8	16
1	27	App	MDM/Cust Hub B2C,Data Steward/ Siebel UCM OEDQ Oracle Client 32bit WebLogic	Master Data Management (MDM) Security Zone PRD_APPS	Linux 64bit	8	16
1	28	App	OPA Engine OPA WebLogic	Oracle Policy Automation (OPA) Security Zone PRD_APPS	Linux 64bit	4	16
1	29	App	OPA Engine OPA WebLogic	Oracle Policy Automation (OPA) Security Zone PRD_APPS	Linux 64bit	4	16
1	30	App	Oracle Identity Manager WebLogic OIM SOA	IDM,OAM,OVD,OID Security Zone PRD_APPS	Linux 64bit	4	16
1	31	App	Oracle Identity Manager WebLogic OIM SOA	IDM,OAM,OVD,OID Security Zone PRD_APPS	Linux 64bit	4	16
1	32	App	Oracle Access Manager WebLogic OAM OAAM	IDM,OAM,OVD,OID Security Zone PRD_APPS	Linux 64bit	4	16
1	33	App	Oracle Access Manager WebLogic OAM OAAM	IDM,OAM,OVD,OID Security Zone PRD_APPS	Linux 64bit	4	16

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1	34	App	Oracle Access Manager WebLogic OAM OAAM	IDM,OAM,OVD,OID Security Zone PRD_APPS	Linux 64bit	4	16
1	35	App	ODSM OVD ODSM OVD	IDM,OAM,OVD,OID Security Zone PRD_APPS2	Linux 64bit	4	16
1	36	App	ODSM OVD ODSM OVD	IDM,OAM,OVD,OID Security Zone PRD_APPS2	Linux 64bit	4	16
1	37	App	OBIEE (Presentation & OBI) OBIA ETL – ODI WebLogic Oracle Client 64bit	Business Intelligence/ETL OBIEE Security Zone PRD_APPS	Linux 64bit	8	16
1	38	App	OBIEE (Presentation & OBI) OBIA ETL – ODI WebLogic Oracle Client 64bit	Business Intelligence/ETL OBIEE Security Zone PRD_APPS	Linux 64bit	8	16
1	39	App	BI Publisher	Business Intelligence/ETL OBIEE Security Zone PRD_APPS	Linux 64bit	2	4

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1	40	App	WebLogic WSM SOA BPM AIA OSB ,BAM OneGate Components	Oracle Enterprise Service Bus (ESB/OSB) Security Zone PRD_APPS	Linux 64bit	8	16
1	41	App	WebLogic (WSM, SOA , BPM, AIA , OSB, BAM , OneGate Components	Oracle Enterprise Service Bus (ESB/OSB) Security Zone PRD_APPS	Linux 64bit	8	16
1	42	App	Siebel Admin Console Siebel Tools Siebel CRM (Windows)	Administrative Environment (AM) Security Zone PRD_APPS	Windows	2	4
1	43	App	Thunderhead / WCP /WLS WebLogic	Enterprise Content Management (ECM) Security Zone PRD_APPS	Linux 64bit	4	8
1	44	App	Thunderhead / WCP /WLS WebLogic	Enterprise Content Management (ECM) Security Zone PRD_APPS	Linux 64bit	4	8
1	45	App	13 NFS file Systems, 1 for each WebLogic cluster in the App Zone Siebel Shared Storage	NFS File Service Security Zone PRD_APPS	Linux 64bit	2	16
1	46	App	13 NFS file Systems, 1 for each WebLogic cluster in the App Zone Siebel Shared Storage	NFS File Service Security Zone PRD_APPS	Linux 64bit	2	16
1	47	App	Windows Server Oracle WebCenter Distributed Capture Recognition Server	Enterprise Content Management (ECM) Security Zone PRD_APPS	Windows	2	4

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1	48	App	Windows Server Oracle WebCenter Distributed Capture Commit and Import Server	Enterprise Content Management (ECM) Security Zone PRD_APPS	Windows	2	4
1	49	App	Physical Server	PRD_APPS	Linux 64bit	4	16
1	50	App	Physical Server	PRD_APPS	Linux 64bit	4	16
1	51	Database	OLTP Transaction Cluster (64bit)	Physical Oracle Database (DB) Environments Security Zone PRD_DB	Linux 64bit	12	32
1	52	Database	OLTP Transaction Cluster (64bit)	Physical Oracle Database (DB) Environments Security Zone PRD_DB	Linux 64bit	12	32
1	53	Database	OLAP Analytics Cluster (64bit)	Physical Oracle Database (DB) Environments Security Zone PRD_DB	Linux 64bit	12	32
1	54	Database	OLAP Analytics Cluster (Oracle 64bit)	Physical Oracle Database (DB) Environments Security Zone PRD_DB	Linux 64bit	12	32
1	55	Database	IDM Configuration, metadata, Security Cluster (Oracle 64bit)	Physical Oracle Database (DB) Environments Security Zone PRD_DB	Linux 64bit	12	32
1	56	Database	IDM Configuration, metadata, Security Cluster (Oracle 64bit)	Physical Oracle Database (DB) Environments Security Zone PRD_DB	Linux 64bit	12	32
1	57	Database	RMAN NFS (3) 500 GB Exports 1 per cluster	Virtual Security Zone PRD_DB	Linux 64bit	2	4