



PROJECT REPORT

ON

VERITAS Entitlement Management System

FOR

Veritas Technologies LLC

BY

Vivek Khisti

SAVITRIBAI PHULE PUNE UNIVERSITY MASTER IN COMPUTER APPLICATION MAHARASHTRA EDUCATION SOCIETY'S INSTITUTE OF MANAGEMENT AND CAREER COURSES (IMCC), PUNE-411038 2016-17



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CERTIFICATE

This is to certify that the Project Report entitled "VERITAS Entitlement Management System" is prepared by Vivek Khisti a student of M.C.A. Course for the Academic Year 2016-17 at M.E.Society's Institute of Management & Career Courses (IMCC), Pune - 411038. M.C.A Course is affiliated to Savitribai Phule Pune University.

To the best of our knowledge, this is original study done by the said student and important sources used by him/her have been duly acknowledged in this report.

The report is submitted in partial fulfillment of M.C.A Course for the Academic Year 2016-1' as per the rules & prescribed guidelines of Savitribai Phule Pune University.

Dr. Santosh Deshpande HOD, Computer Dept. IMCC Dr. Vikas Inamdar Director, IMCC

External Examiner

Internal Examiner



VERITAS

March 29, 2017

Statement of Employment for Vivek Khisti

To Whom It May Concern:

This letter is to confirm that Vivek Khisti is a Full time employee of Veritas Software Technologies India Pvt Ltd hired on January 16, 2017 and is currently a Intern - Master's Level. The employee's length of service may include time with acquired companies.

Please note, this statement is issued on the employee's request.

In accordance with our normal practice, this statement is given without acceptance of any liability on the part of Veritas Software Technologies India Pvt Ltd. It is not our practice to comment further in employment statements.

Sincerely,

wic

Leucadia Milly Sandeep India Human Resources Veritas Software Technologies India Private Limited



CERTIFICATE

This is to certify that Vivek Khisti has completed the project work entitled *"VERITAS Entitlement Management System"* under my guidance. The report is submitted in partial fulfillment of M.C.A. Course for the Academic Year 2016-2017 as per the rules & prescribed guidelines of Savitribai Phule Pune University.

His/Her work is found to be satisfactory and complete in all respects.

Venugopal Narsingoju (Internal Project Guide)



Acknowledgment

I present with pride and pleasure the project report on "Veritas Entitlement Management System" aimed to the supplement attachment has required under the regulation of the Savitribai Phule Pune University. I would like to wish sincere gratitude to Mr's. Smita Vagyani, VERITAS LLC India Private Limited who have helped in making this project. Words are inadequate to express the feelings of infinite gratitude's to him, but for my gratification I have this acknowledgment. I am highly indebted to the project guide Prof. Venugopal .S.Narsingoju, Assistant Professor, I.M.C.C. And Mr. Abhijit Naik for their guidance and constant inspection in each and every stage of project without which project work would not have taken this shape and form. I wish to offer most sincere thanks to Dr. Santosh Deshpande, HOD, Computer Department, IMCC for encouraging and providing with all the facilities. I wish to offer sincere thanks to Dr. Manasi Bhate, TPH for providing the necessary co-operation. Particular thanks to Dr. V. H. Inamdar, Director I.M.C.C. who allotted us with enough time for the project. Finally, I



am extremely thankful to teaching and non-teaching staff for their kind and whole co-operation.

Vivek Khisti



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CHAPTER 1 INTRODUCTION



1.1 <u>Company Profile</u>

Veritas Technologies LLC develops and delivers backup and recovery, business continuity, information governance, and storage management solutions worldwide. The company provides backup and recovery products comprising system recovery solutions for protecting desktops, laptops, servers, and virtual machines; and NetBackup appliances that provide backup and recovery for data centres, remote offices, and virtual environments. Its business continuity products include Info Scale Enterprise, which provides business continuity and software-defined storage for critical services across data centres; Backup Exec, a backup and recovery solution for mid-sized organizations; and Disaster Recovery Orchestrator that offers disaster recovery for business applications.



The company's information governance products include Data Insight, a file analysis solution that provides the tracking and reporting necessary to deliver organizational accountability for file usage and security. It also provides education services; business critical services; consulting services; managed services that include monitoring, management, and support of backup and archiving environments; and appliance installation and custom configuration services. It offers unstructured data growth, multi-vendor hybrid cloud, healthcare, and government solutions. Its software and hardware products enable Fortune 500 companies to protect, identify, and manage data within environments ranging from traditional data centers to private, public, and hybrid clouds. The company was incorporated in 2015 and is based in Mountain View, California.

The exponential growth of data and the resources needed to manage it is one of the most pressing issues facing business today. And it's not just the amount of data. It's where it lives and how it travels between private clouds, public clouds and back to on premises.



In these increasingly complex IT environments, it's important to focus on what's constant: the data.

Every one of our information management solutions – from business continuity to back up and recovery to software defined storage and information governance – is designed around the principle that information is more important than infrastructure. Veritas has the privilege to help the world's organizations - including 86% of the global Fortune 500 - collect, protect, analyze and optimize their data, even in the most demanding environments.

Chief Executive Officer: Bill Coleman is the Chief Executive Officer at Veritas. Coleman is an industry veteran who has spent 25 years running prominent Silicon Valley companies including his years as the founder/CEO of BEA Systems.



1.2 Existing System and Need of the System

Current challenges faced by organization with existing system

- The Current system is third party System.
- The current system include large amount of costs which is not profitable to the organization.
- Incorporating new change is the system is difficult and includes greater costs
- Business Requirement

In order to overcome limitations in existing system, there arises a need to develop a new system. The desired system should be able to overcome the flaws of the existing system and should be able to provide additional features.

The need for the system arises due to some problems in the current system or if the user is unable to cope up with the current system. The user might not be comfortable with the current system due to which the need for new system arises.

- Create an in-house system that can manage the licensing process.
- Maintain and improve the system within the organization itself.
- Create a system which can seamlessly integrate with others systems like ERP and data sources.



1.3 Scope of Work

- The goal of the VEMS is to provide the users the ability to generate licenses for the products and to download product binaries.
- The overall goal of Licensing Portal is to provide a seamless integration between MyVeritas.com and End User Portal.
- The Solution will include a combined user login, user creation, and use account management module for the licensing applications.
- The solution will have an impact on the install base. Service contract as they are all affected by the customer registration/product activation process.
- All the processes i.e. Create Entitlement, Process Order ,Different Version of VERITAS product binaries download, manage enterprise contracts will be done through the portal.
- License Generation Should be done automatically through SIG and LUNA key generation server



1.4 Operating Environment –

Hardware and Software

- ✓ Client Side & Server Side
- HARDWARE REQUIREMENTS
 - 2.3 Core I3 3rd Gen or above
 - 2GB RAM

• SOFTWARE REQUIREMENTS

- Windows/Linux/Mac OS
- Web Browser (IE/Chrome/Firefox/Safari)
- Good Internet Connection

✓ Developer Side

• HARDWARE REQUIREMENTS

- Core I5 Gen or above
- 4GB DDR 3 RAM

• SOFTWARE REQUIREMENTS

- Windows/Linux/Mac OS
- Web Browser (IE/Chrome/Firefox/Safari)
- Good Internet Connection
- Eclipse (latest version is better)
- Visual Studio Code
- Tomcat (latest version)



- Java 1.6 or above
- Framework used: Spring Boot, Maven



1.5 Description of Technology used

Angular 2

AngularJS is by far the most popular JavaScript framework available today for creating web applications. And now Angular 2 and Typescript are bringing true object oriented web development to the mainstream, in a syntax that is strikingly close to Java 8.

Angular 2 is not an MVC framework, but rather a componentbased framework. In Angular 2 an application is a tree of loosely coupled components.

Cross Platform

Progressive web apps

Use modern web platform capabilities to deliver app-like experiences. High performance, offline, and zero-step installation.

Native

Build native mobile apps with strategies from Ionic Framework, Native Script, and React Native.

Desktop

Create desktop-installed apps across Mac, Windows, and Linux using the same Angular methods you've learned for the web plus the ability to access native OS APIs.



Speed and Performance

Code generation

Angular turns your templates into code that's highly optimized for today's JavaScript virtual machines, giving you all the benefits of hand-written code with the productivity of a framework.

Universal

Serve the first view of your application on node.js, .NET, PHP, and other servers for near-instant rendering in just HTML and CSS. Also paves the way for sites that optimize for SEO.

Code splitting

Angular apps load quickly with the new Component Router, which delivers automatic code-splitting so users only load code required to render the view they request.

Productivity

Templates

Quickly create UI views with simple and powerful template syntax.

Angular CLI

Command line tools: start building fast, add components and tests, and then instantly deploy.

IDEs

Get intelligent code completion, instant errors, and other feedback in popular editors and IDEs.



Full Development Story

Testing

With Karma for unit tests, you can know if you've broken things every time you save. And Protractor makes your scenario tests run faster and in a stable manner.

Animation

Create high-performance, complex choreographies and animation timelines with very little code through Angular's intuitive API.

Accessibility

Create accessible applications with ARIA-enabled components, developer guides, and built-in ally test infrastructure.

✤ SPRINGBOOT

Spring Boot makes it easy to create stand-alone, production-grade Spring based Applications that you can "just run". We take an opinionated view of the spring platform and third-party libraries so you can get started with minimum fuss. Most Spring Boot applications need very little Spring configuration.

Features

- Create stand-alone Spring applications
- Embed Tomcat, Jetty or Undertow directly (no need to deploy WAR files)
- Provide opinionated 'starter' POMs to simplify your Maven configuration
- Automatically configure Spring whenever possible



- Provide production-ready features such as metrics, health checks and externalized configuration
- Absolutely **no code generation** and **no requirement for XML** configuration

• ORACLE

Oracle database (Oracle DB) is a relational database management system (RDBMS) from the Oracle Corporation. Originally developed in 1977 by Lawrence Ellison and other developers, Oracle DB is one of the most trusted and widely-used relational database engines.

The system is built around a relational database framework in which data objects may be directly accessed by users (or an application front end) through structured query language (SQL). Oracle is a fully scalable relational database architecture and is often used by global enterprises, which manage and process data across wide and local area networks. The Oracle database has its own network component to allow communications across networks. Oracle DB is also known as Oracle RDBMS and, sometimes, just Oracle.

Oracle DB runs on most major platforms, including Windows, UNIX, Linux and Mac OS. Different software versions are available, based on requirements and budget. Oracle DB editions are hierarchically broken down as follows:

• <u>Enterprise Edition</u>: Offers all features, including superior performance and security, and is the most robust

• <u>Standard Edition:</u> Contains base functionality for users that do not require Enterprise Edition's robust package

• <u>Express Edition (XE)</u>: The lightweight, free and limited Windows and Linux edition

• <u>Oracle Lite:</u> For mobile device.



CHAPTER 2 PROPOSED SYSTEM



2.1 Proposed System

- The overall goal of Licensing Portal is to provide a seamless integration between MyVeritas.com and End User Portal.
- The Solution will include a combined user login, user creation, and use account management module for the licensing applications.
- The solution will have an impact on the install base. Service contract as they are all affected by the customer registration/product activation process.
- All the processes i.e. Create Entitlement, Process Order ,Different Version of VERITAS product binaries download, manage enterprise contracts will be done through the portal.
- License Generation Should be done automatically through SIG and LUNA key generation server



2.2 Objective of System

- Ability to integrate with Single Sign on, My VERITAS Portal.
- Ability to support SMB retail packs via an anonymous registration to capture entitlement data for sales opportunity and deliver license keys if necessary.
- Customer has purchased a VERITAS product, Customer should be able to login from MyVeritas.com and click "Licensing" tab, customer should manage the entitlements and download product in portal.
- Customer has purchased the product from retailer, Customer should be able to register SMB Serial Number via an anonymous registration to capture entitlement data for sales opportunity and deliver license keys if necessary.
- The solution will include a combined login, user creation, and user account management module for the licensing application.



2.3 User Requirements

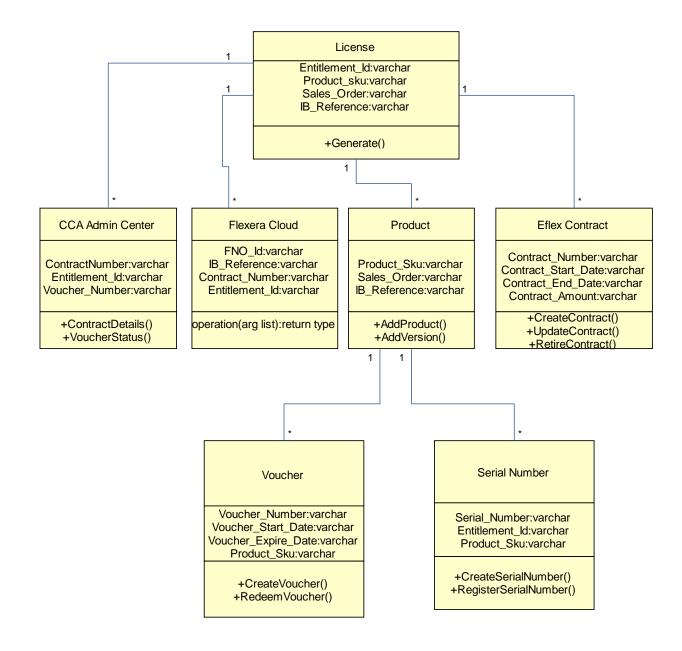
- User should be able to login to the system using the credentials provided to him.
- User should be able to generate the license keys for the products.
- User should be able to download the software products for which he has generated licenses.
- User should be able to create and view different entitlements for the product.
- User should be able to view the contracts.
- User should able to view the information regarding contract amount and start and end date of the license and quantity of products.
- User must be able to search or the basis of various parameters.



CHAPTER 3 ANALYSIS AND DESIGN



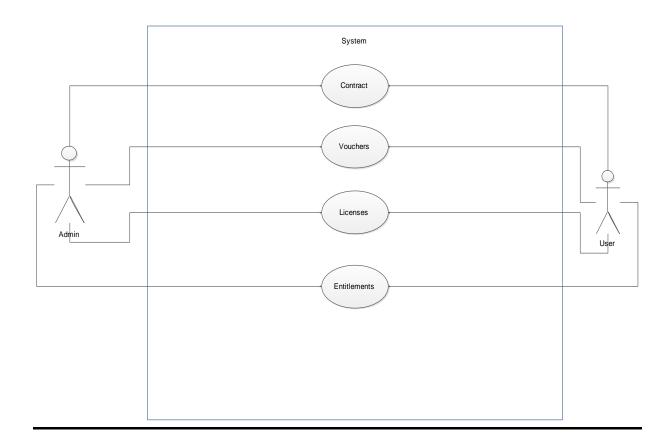
3.1 Class Diagram





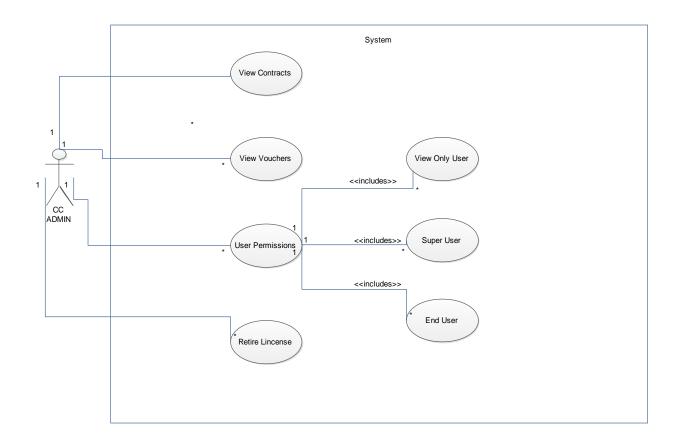
3.2 Use Case Diagrams

System Use Case



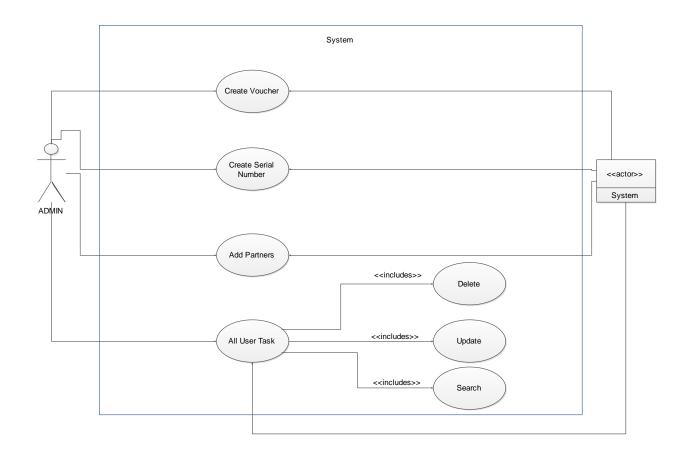


CCADMIN USECASE



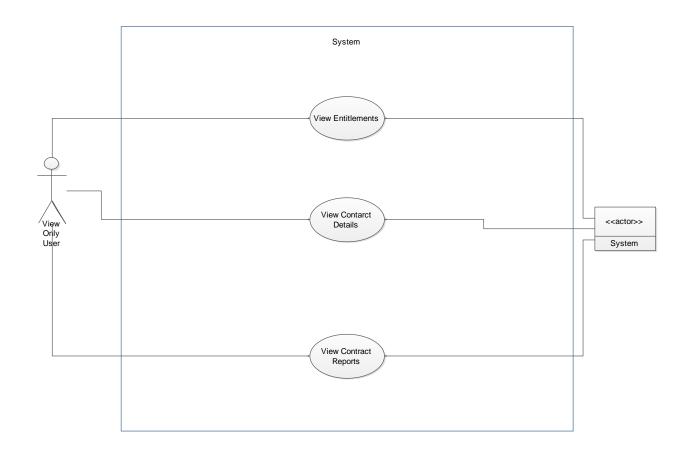


ADMIN USECASE



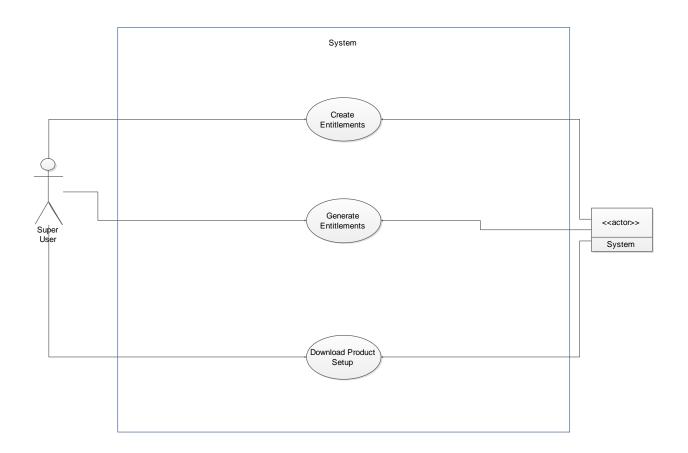


View Only User USECASE



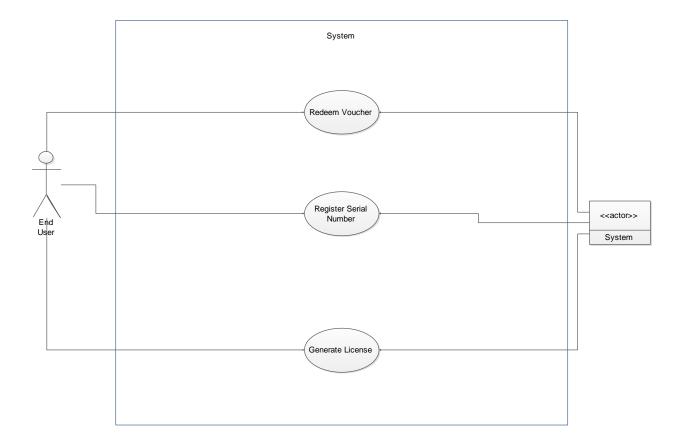


Super User USECASE



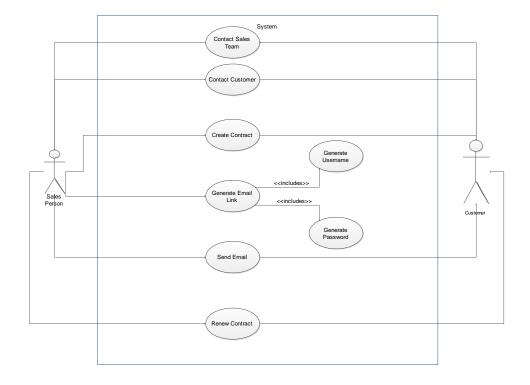


End User USECASE





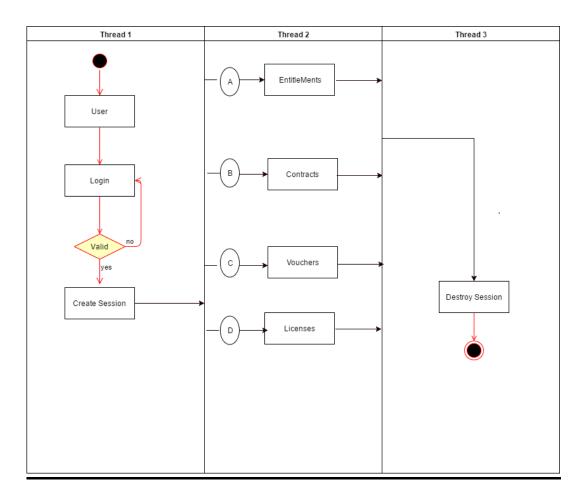
Sales Person USECASE



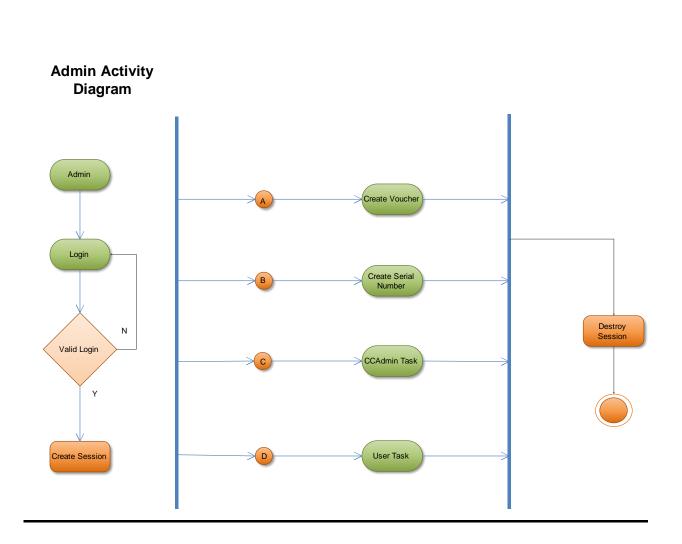


3.3 Activity Diagrams

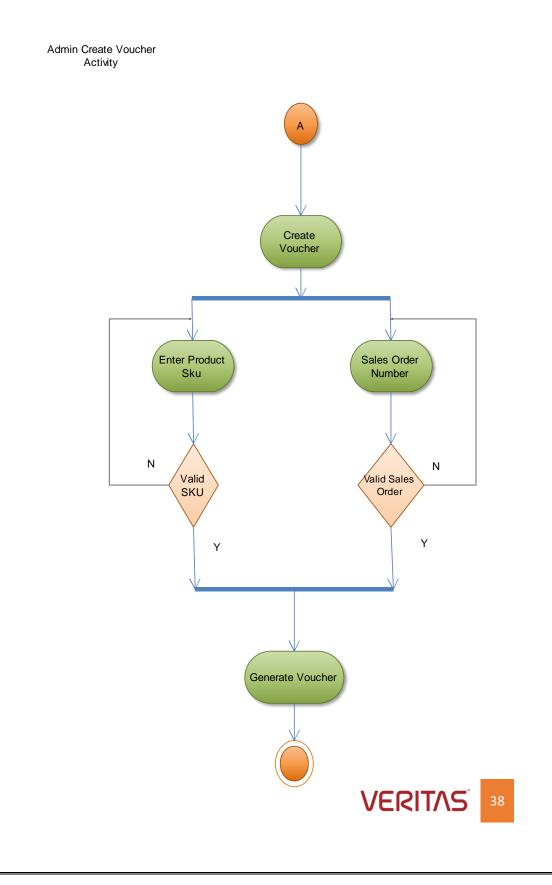
System Activity

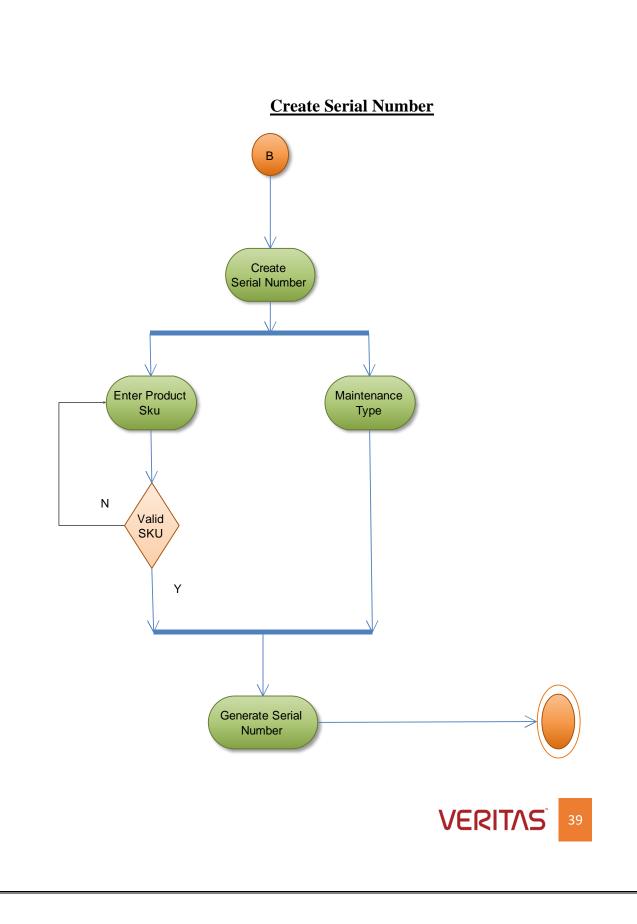




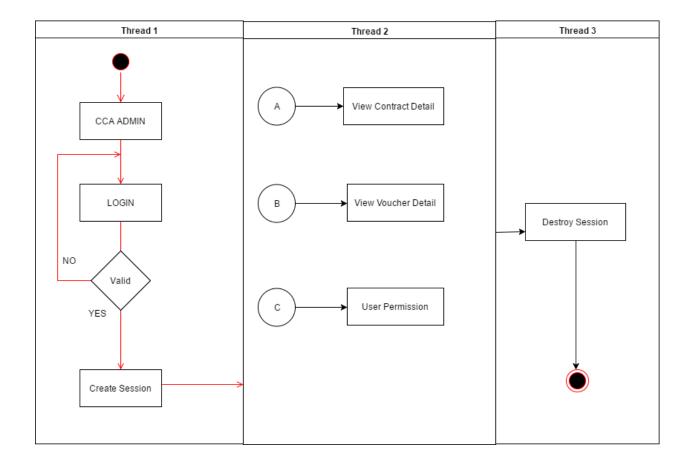






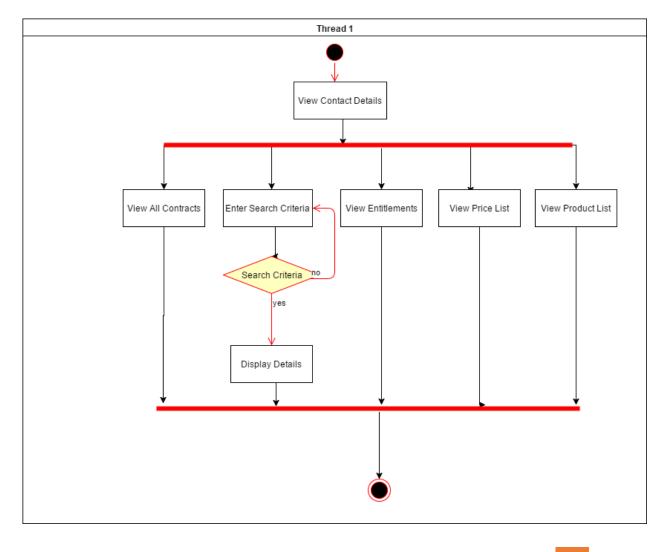


CCADMIN Activity



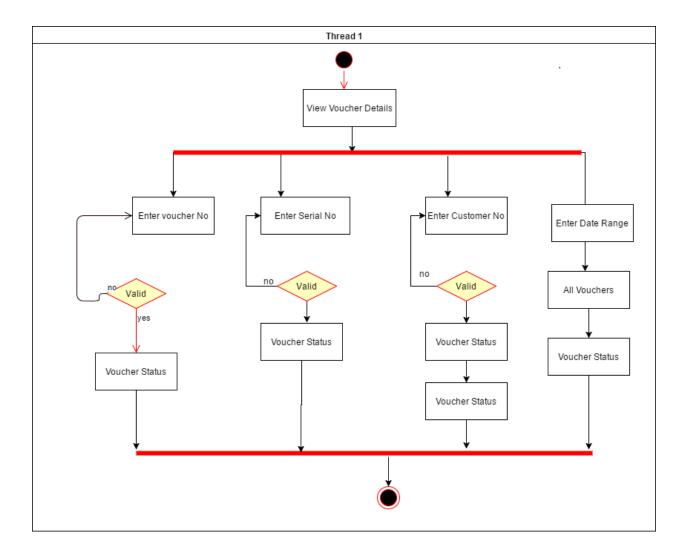


ViewContractDetails

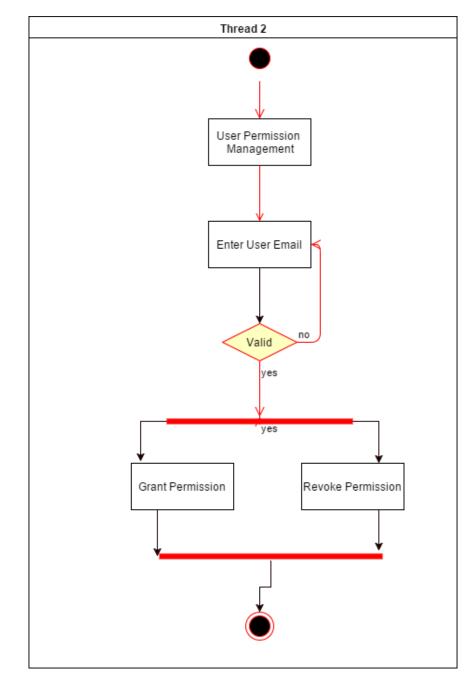


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View Voucher Details



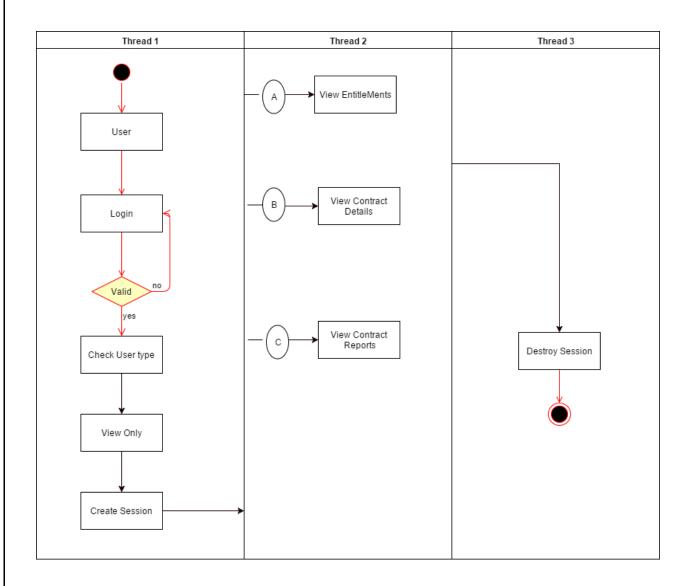




User Permission

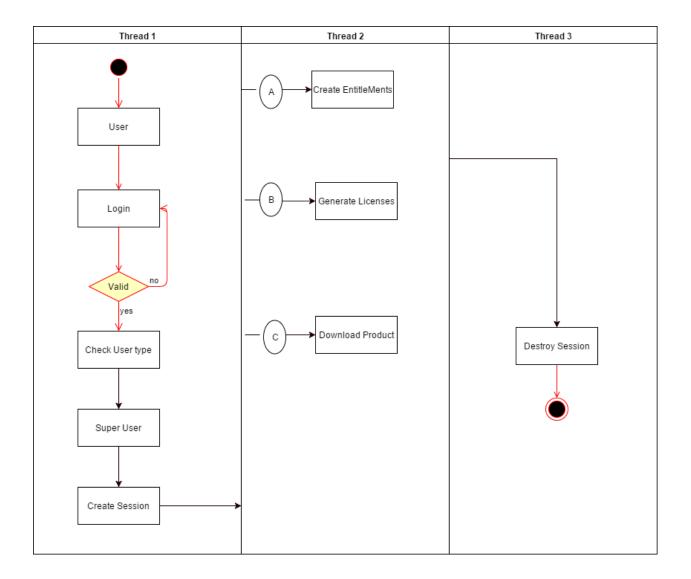


View Only User



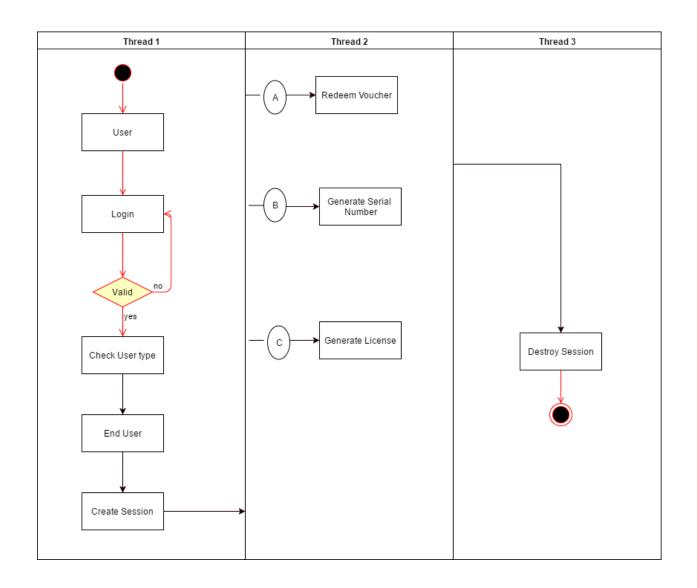


Super User



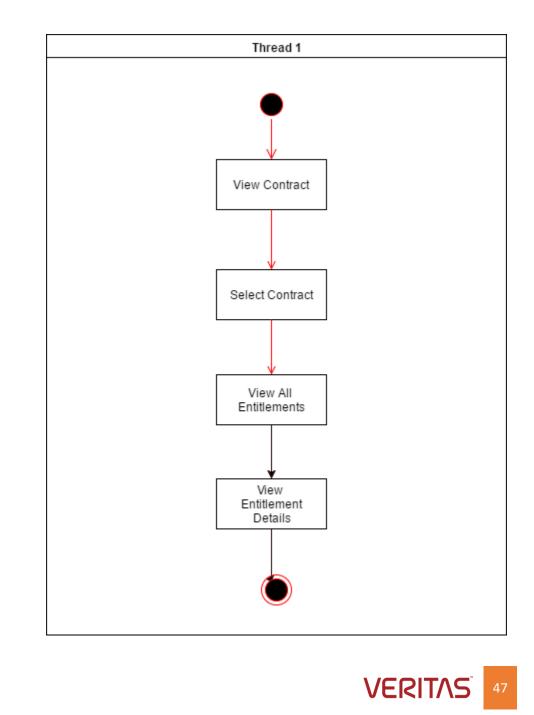


End User

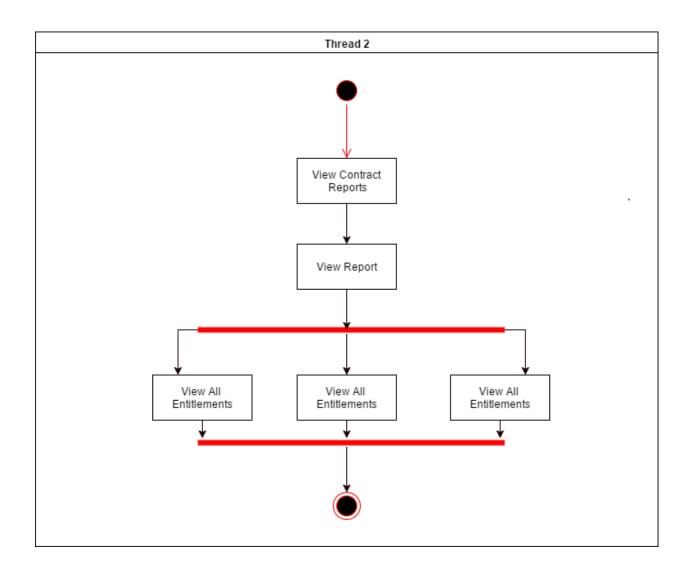




<u>View Entitlement Details</u>

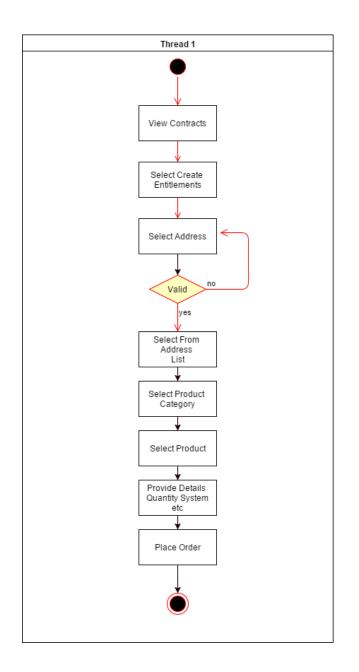


View Contract Reports

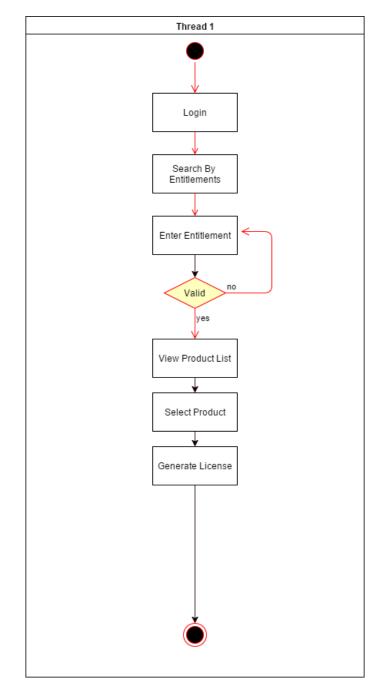




Create Entitlements





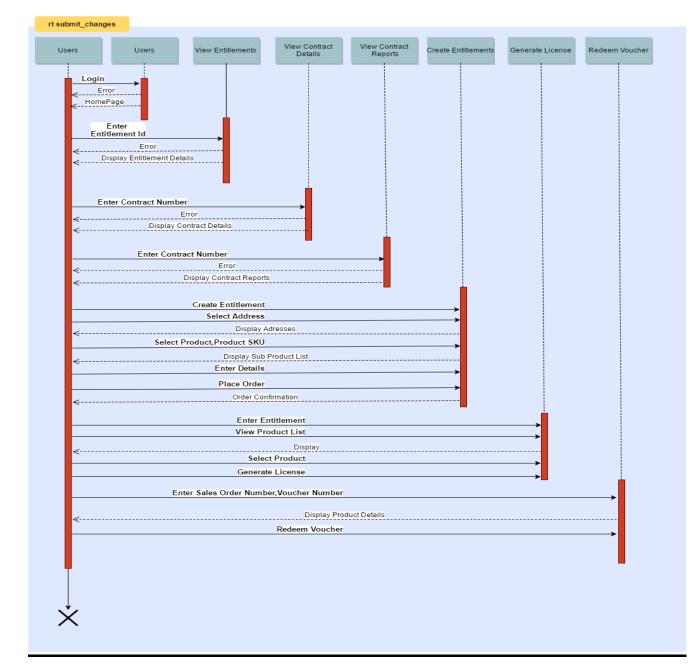


Generate License



3.4 Sequence Diagrams

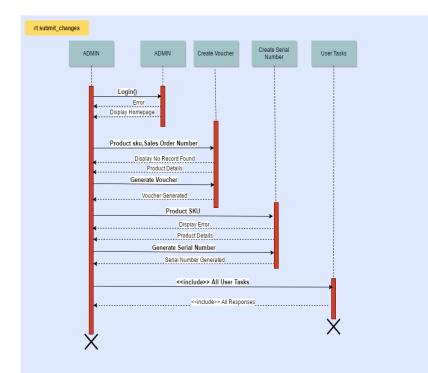
<u>User</u>





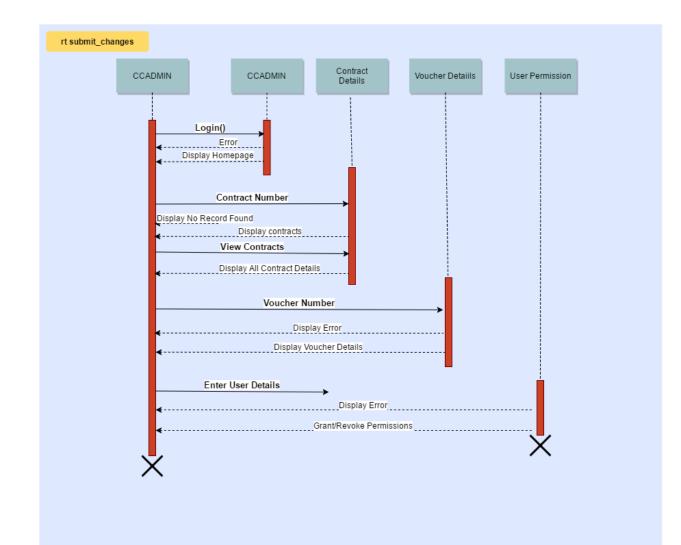


<u>Admin</u>



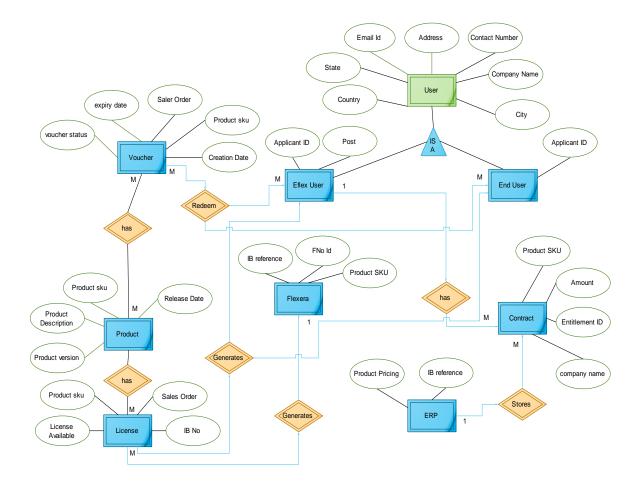


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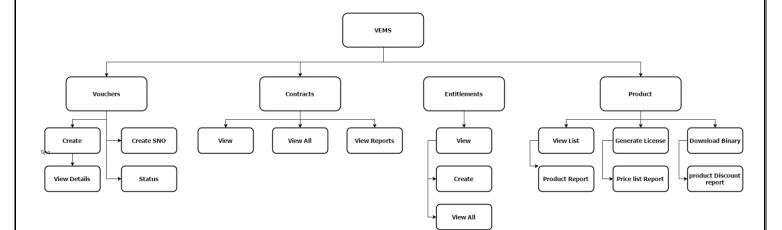


3.5 Entity Relationship Diagram



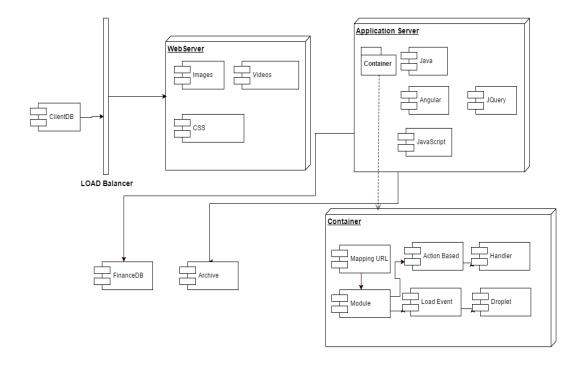






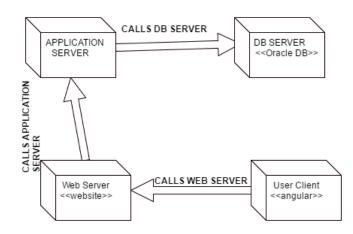


3.7 Component Diagram





3.8 Deployment Diagram





3.9 Module Specification

• Voucher

This module contains the details of the voucher a user can use. The vouchers are created by the admin and serial number is generated by the admin.

• Contracts

This module contains the user contracts and the details of the contracts and corresponding reports.

• Entitlements

Entitlements module is used to create entitlements for a product and generate licenses for the corresponding entitlements.

• Product

Product module list all the products the licenses can be generated for the products and product binaries can be downloaded. Various reports can be generated for the products.



3.10 User Interface

Main Dashboard

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DEC 25, 2016	A3573154663	TURNER & TOWNSEND GROUP LTD ID: 508557	STORAGE FOUNDATION	STORAGE FOUNDATION ENT HA/DR S64LNX 10 SPVU ONPREMISE STANDARD PERPETUAL LICENSE	6.0	4	ESSENTIAL	615309770	JAN 26, 2017	0	EFL00054100.0	AB001243	L
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My Accounts

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Account	Account Id	User Type	Entitlement	Users	Account Note	
AT & T Services	213408689	Administrator	08	10		۳
ADB	214342349	Administrator	04	20		۳
Bank Indonesia	423423452	Partner	10	15		H
Belgacom	235232643	Partner	05	20		۳
Microsoft	213480689	Administrator	08	10		۳
Adobe	214342349	Administrator	04	15		۳
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Entitlements

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NOV 11, 2016	A8589296201	NETWORLD CORPOR- ATION (SSLPVL) ID: 53823058	NETBACKUP	NETBACKUP SAP AGENT WLS 1 SERVER HARDWARE TIER 1 ONPREMISE STANDARD PERPETUAL LICENSE	1.0	6	BASIC	IE00008379	JAN 25, 2017	0	EFL00041628.0	F80B2657	* 7	5
OCT 25, 2016	A9299296290	ERIC L DAVIS ENGINEERING INC ID: 508557	STORAGE FOUNDATION CLUSTER FILE SYSTEM	STORAGE FOUNDATION CLUSTER FILE SYSTEM ENT HA UX 10 SPVU ONPREMISE STANDARD PERPETUAL LICENSE	4.0	4	ESSENTIAL	IE00024979	JAN 25, 2017	8		WR80B29	± 9	3
OCT 24, 2016	A1129296278	ERIC L DAVIS ENGINEERING INC ID: 508557	STORAGE FOUNDATION CLUSTER FILE SYSTEM	STORAGE FOUNDATION ENT HA/ DR UX 1 SERVER HARDWARE TIER A ONPREMISE STANDARD PERPETUAL LICENSE	4.2	9	ESSENTIAL	IE00028465	APR 08, 2017	0		D358B80	± ,	
OCT 22, 2016	A3190296212	ERIC L DAVIS ENGINEERING INC ID: 508557	STORAGE FOUNDATION CLUSTER FILE SYSTEM	STORAGE FOUNDATION FOR SYBASE ASE CE ENT UX 1 SERVER HARDWARE TIER C ONPREMISE STANDARD PERPETUAL LICENSE	1.2	2	ESSENTIAL	IE00028465	APR 12, 2017	0		D323558	± 9	8
OCT 21, 2016	A1129296278	ERIC L DAVIS ENGINEERING INC ID: 508557	STORAGE FOUNDATION CLUSTER FILE SYSTEM	STORAGE FOUNDATION ENT HA/ DR UX 1 SERVER HARDWARE TIER A ONPREMISE STANDARD PERPETUAL LICENSE	4.2	9	ESSENTIAL	IE00028465	APR 08, 2017	0		D358B80	± 7	
OCT 22, 2016	A3190296212	ERIC L DAVIS ENGINEERING INC	STORAGE FOUNDATION	STORAGE FOUNDATION FOR SYBASE ASE CE ENT UX 1 SERVED HADDWADE TIED C	1.2	2	ESSENTIAL	IE00028465	APR 12, 2017	8		D323558	± 9	5

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Entitlements

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Entitlements													
Updated Date		Entitlemen	nt Id		TURN	ER & TOWNS	END GROUP L	TD		Product Line			~
Product Name		Version			Entitle	d Quantity				Service Type			
Service Contract Number	~	Service E	Expiry		Verita	s Agreement	Number		~	Project ID			~
Tag 1	٠		Current Month Next 6 Months Next 1 Year	Clear					Exp	oort View 2	10 v <	1 2 <mark>3</mark> 4	40 >
Updated Entitlement Id Date	Account	Pt	Next 1 Year Plus		Entitled Quantity	Service Type	Service Contract No.	Service Expiry	Service Status	Veritas Agreement No.	Customer Project Identifier	Acti	ion
DEC 25, 2016 A3573154663	TURNER & TOWNSEND GROUP LTD ID: 508557	S ⁻ FOUNDATION	HA/DR S64LNX 10 SPVU ONPREMISE STANDARD PERPETUAL LICENSE		4	ESSENTIAL	615309770	JAN 26, 2017	0	EFL00054100.0	AB001243	4	•
DEC 18, 2016 A3573154663	TURNER & TOWNSEND GROUP LTD ID: 508557	STORAGE FOUNDATION	STORAGE FOUNDATION ENT HA/DR UX 1 SERVER HARDWARE TIER K ONPREMISE STANDARD PERPETUAL LICENSE	2.1	2	ESSENTIAL	615309345	JAN 25, 2017	0	EFL00054100.0	AER01243	*	R
DEC 10, 2016 A6187296253	MINTEK ID: 508557	STORAGE FOUNDATION	STORAGE FOUNDATION STD UX 1 SERVER HARDWARE TIER F ONPREMISE STANDARD PERPETUAL LICENSE	1.2	2	ESSENTIAL	IE00000006	JAN 25, 2017	8		XY0B2114	*	\$
NOV 11, 2016 A8589296201	NETWORLD CORPOR- ATION (SSLPVL) ID: 53823058	NETBACKUP	NETBACKUP SAP AGENT WLS 1 SERVER HARDWARE TIER 1 ONPREMISE STANDARD PERPETUAL LICENSE	1.0	6	BASIC	IE00008379	JAN 25, 2017	0	EFL00041628.0	F80B2657	2	•
OCT 25, 2016 A9299296290		STORAGE FOUNDATION CLUSTER FILE SYSTEM	STORAGE FOUNDATION CLUSTER FILE SYSTEM ENT HA UX 10 SPVU ONPREMISE STANDARD PERPETUAL LICENSE	4.0	4	ESSENTIAL	IE00024979	JAN 25, 2017	8		WR80B29	*	<mark>\$</mark>
OCT 24, 2016 A1129296278	ERIC L DAVIS ENGINEERING INC ID: 508557	STORAGE FOUNDATION CLUSTER FILE SYSTEM	STORAGE FOUNDATION ENT HA/ DR UX 1 SERVER HARDWARE TIER A ONPREMISE STANDARD PERPETUAL LICENSE	4.2	9	ESSENTIAL	IE00028465	APR 08, 2017	0		D358B80	Ł	P
OCT 22, 2016 A3190296212	ERIC L DAVIS ENGINEERING INC ID: 508557	STORAGE FOUNDATION CLUSTER FILE SYSTEM	STORAGE FOUNDATION FOR SYBASE ASE CE ENT UX 1 SERVER HARDWARE TIER C ONPREMISE STANDARD PERPETUAL LICENSE	1.2	2	ESSENTIAL	IE00028465	APR 12, 2017	0		D323558	*	9
OCT 21, 2016 A1129296278	ERIC L DAVIS ENGINEERING INC		STORAGE FOUNDATION ENT HA/ DR UX 1 SERVER HARDWARE TIER A ONPREMISE STANDARD	4.2	9	ESSENTIAL	IE00028465	APR 08, 2017	0		D358B80	1	4



Entitlements

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Entitlements		-											
Updated Date		Entitlement Id			TURNI	ER & TOWNSI	END GROUP L	TD		Product Line			~
Product Name		Version			Entitle	l Quantity				Service Type			
Service Contract Number	Ŷ	Service Expl	iry		Veritas	Agreement I	Number		~	Project ID			~
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Updated Entitlemen Date	nt id Account	Product line P	roduct Name	Version	Entitled Quantity	Service Type	Service Contract No.	Service Expiry	Service Status	Veritas Agreement No.	Customer Project Identifier	Actic	n
DEC 25, 2016 A35731546	63 TURNER & TOWNSEN GROUP LTD ID: 508557	FOUNDATION H	TORAGE FOUNDATION ENT IA/DR S64LNX 10 SPVU INPREMISE STANDARD VERPETUAL LICENSE	6.0	4	ESSENTIAL	615309770	JAN 26, 2017	0	EFL00054100.0	AB001243	Ł	R



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Product Version					Actions
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INFOSCALE STOPAGE WIN 1 CORE ONPREMISE STANGA	RO PERPETUAL LICENSE	VERSION: 4.0			
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INFOSCALE STOPAGE WIN 1 COHE ONPREMISE STANDA	RD PERPETUAL LICENSE	VERSION: 5.0			
INFOSCALE STORAGE WIN 1 CORE ON PREMISE STANDA	RO PERPETUAL LICENSE	VERSION: 5.0			13
INFOSCALE STOPAGE WIN 1 CORE ON PREMISE STANDA	PD PERPETUAL LICENSE	VERSION: 4.2			E3
INFOSCALE STORAGE WIN 1 CORE ON/PREMISE STANCA	RO PERPETUAL LICENSE	VERSION: 1.0			13
INFOSCALE STORAGE WIN 1 CORE ONPREMISE STANDA		VERSION 5.0			173



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Download The software you are about to download is subject will not knowingly, without prior authorization from software downloaded from this website to any pro Read More Download	t to export control olaws and regulations. By downlo the competent government authorities, export or re hibited destination, end - user or end - use.	oading this software, you agree that you eexport - directly or indirectly - any		Дом	mload History
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File Name VERITAS_INFOSCALE_7.2_WINDOWS.ISO	File Description NETBACKUP APPLIANCE 5330 APPLIANCES SERV		Digital Signature MD576392n4629djwnc73927492ksu39	Platform ↓ Linux	Action
		/ER 2.1.0.0 README IE.TXT 531.2 KB			
VERITAS_INFOSCALE_7.2_WINDOWS.ISO	NETBACKUP APPLIANCE 5330 APPLIANCES SERV	VER 2.1.0.0 README IE.TXT 531.2 KB	MD576392h4629djwnc73927492ksu39	Linux	
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Licenses

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Nore options								Export	View 20	▼ 4 1 ··· 5 6 7 8 ··· 4
Entitlement Id	Account	Product line	Product name	Date Generated	Version	Quantity	Email	License Key	View Comments	Actions
A3573154663	TURNER & TOWNSEND GROUP LTD ID: 508557	STORAGE FOUNDATION	STORAGE FOUNDATION ENT HA/DR S64LNX 10 SPVU ONPREMISE STAN- DARD PERPETUAL LICENSE	DEC 25, 2016	6.0	04	Johnroot@gmail.com	A7433242888 QTY17 BE 15 AGENT APP DB _LIC 309942407.slf	9	₽ 🖹 👼 🖂
A3573154663	TURNER & TOWNSEND GROUP LTD ID: 508557	STORAGE FOUNDATION	STORAGE FOUNDATION ENT HA/DR UX 1 SERVER HARDWARE TIER K ONP- REMISE STANDARD PERPETUAL LICENSE	DEC 10, 2016	1.2	10	Johnroot@gmail.com	BIDB9247QTY17 B87H 15AGENT APP DB LIC 3423.slf	9	2 E 🖶 🖂
A6187296253	MINTEK ID: 508557	STORAGE FOUNDATION	STORAGE FOUNDATION STD UX 1 SERVER HARD- WARE TIER F ONPREMISE STANDARD PERPETUAL LICENSE	NOV 11. 2016	2.0	01	Johnroot@gmail.com	AZEHN - 1241F - OE104 - MN2R1	9	2 E 🖶 🖂
A8589296201	NETWORLD CORPORATION (SSLPVL) ID: 53823058	NETBACKUP	NETBACKUP SAP AGENT WLS 1 SERVER HARDWARE TIER 1 ONPREMISE STAND- ARD PERPETUAL LICENSE	OCT 25, 2016	5.0	05	Johnroot@gmail.com	12328376ARFD 012 BE 15 AGENT APP DB LIC HABH.sif	9	2 E 🖡 🖂
A9299296290	ERIC L DAVIS ENGINEERING INC ID: 508557	STORAGE FOUNDATION CLUSTER FILE SYSTEM	STORAGE FOUNDATION CLUSTER FILE SYSTEM ENT HA UX 10 SPVU ONPREMISE STANDARD PERPETUAL LICENSE	AUG 08, 2016	4.0	06	Johnroot@gmail.com	GNBDH - 1127G - 0E104 - MN232	9	2 8 7 M
A1129296278	ERIC L DAVIS ENGINEERING INC ID: 508557	STORAGE FOUNDATION CLUSTER FILE SYSTEM	STORAGE FOUNDATION ENT HA/DR UX 1 SERVER HARDWARE TIER A ONPRE- MISE STANDARD PERPETU- AL LICENSE	MAR 01, 2016	4.2	04	Johnroot@gmail.com	A7433242888 OTY17 BE 15 AGENT APP DB LIC 309942407.sif	9	
A3190296212	EBIC L DAVIS	NETBACKUP	STORAGE FOUNDATION	MAR 01.	11	10	Johnroot@gmail.com	A7433242888 OTY17 BE	0	?



Generate License

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GENERATE KEY				
STORAGE FOUNDATION ENT ONPREMISE STANDARD PERI		PVU		Generated License Keys 02
Account Name: MINTEK Entitlement ID: A3573154663 IB Ref No: Service Expiry Date: 26-Jan-2017 Project ID:	Account No: ID: 508 Entitled Qty.: 4 SC No.: VAN.:	557		
Product Version				
STORAGE FOUNDATION ENT HAVOR SHUNK 10	SPVU ONPREMISE STANOARD PI	OPPETUAL LICENSE	Venion 6.0	
STORAGE FOUNDATION ENT HAVER BEHLINK 10	SPVJ ONPREMISE STANDARD PI	PAPETUAL LICENSE	Version: 4.0	
STORAGE POUNDATION ENT HALDRIDGHUNK TO	SPVJ ONPREMISE STANDARD PI	PAPETUAL LICENSE	Version: 1.0	
STORAGE FOUNDATION ENT HALDR SEALING IS	SPVJ ONPREMISE STANDARD PI	DAPETUAL LICENSE	Version: 6,0	
STORAGE FOUNDATION ENT HALOR BEHLINK 10	SPVU ONPREMISE STANDARD PI	ERPETUAL LICENSE	Version: 5.0	
STORAGE FOUNDATION ENT HAVDR SEAUNX 10	SPVU ONPREMISE STANDARD PI	INPETUAL LICENSE	Venior: 4.2	
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ADMIN

Manage User		Manage Effax User		Manage Group									
Add New Member Add Account to	a existing Member												
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ther Name													
Select Entitioment Subgroups													
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Account	Account ID	Administrator	Download	License									
AT & T IM UNLIMITED FLEX	508557												
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BELGACOM UNLIMITED FLEX CONTRACTS	103457												
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Register New Account

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your purchase specifically sa	y for few customers who h ays that you need to regist	ter your products. If yo	ur product does not rea	quire registration, the	en you may have	ration if the documentation pr an issue with your license por Portal. If you have any questio	al account.	 I have a certifi I have a vouch Serial Number or I Add More 	er Document	number
License Information										
First Name John		Last Name Root			Email	root1982@abc.com		Company Name		
Phone Number	Extension	Address			City			State/ Province		
Zip/ Postal Code		Country			OEM	Partner Email Address				
Trade Compliance										
GMP: Is the end user a go	overnment, military or polic	ce entity or is the end u	iser government milita	ry and police entity o	or related to gove	mment, military or police?			O Yes	O No
Nuclear: Is the end-user n	elated to any nuclear activ	vities included includin	g, but not limited to exp	plosive activities, cer	tain safe guarde	d and unguarded nuclear activi	ities or in a maritime nucle	ar propulsion project?	O Yes	O No
Space: Is the end-user rel	ated to the design, develo	pment, production or u	ise of space launch vel	nicles?) Yes	O No
Missile: Is the end-user re	elated to the design, develo	opment, production or	use of space launch m	lssiles?					O Yes	O No
Complete Registration	on									



Create Serial Number

VERITAS		Q	Register	Login	Help EN
Create Serial Number					
Product SKU	Number of serial numbers to create				
21344324	2 Submit				
SKU:	21344324				
SKU:	21344324				
Description:	BACKUP EXEC 15 AGENt FOR				
	APPLICATION AND				
	DATABASES WIN ML PER				
	SERVER BNDL BUS PAC				
	BASIC 12 MONTHS				
SKU Status:	NS-Active				
No. of Serial Number:	2				
Cancel Continu					



Voucher Creation

VERITAS	Dashboard	My Accounts	Entitlements	Download	Licenses	Enterprise Flex		🛆 🛆 Username	🗘 Help	Eng
Voucher Creation	Manage Vouchers	SKU Mapping								
Create Vouchers										
SKU (S) will be	oformation to create vou	icher(s).								
Sales Order		Sales	Order Date							
1345		Jan	✓ 18 ✓	2017 🗸						
Voucher generated wil		ner								
Submit										
								_		
							VERIT		71	

3.11 Data Dictionary

EntCntrDtls

				Veritas Entitlement Header ID -
				Sequence
1	ID	NUMBER	PK	VEMS_CONTRACT_DTLS_S
		VARCHAR		Entitlement Source such as
2	ENTSOU	2(30)		ELA/SMB/VC
				Account ID will be populated from
3	CUSTACCID	NUMBER		Vems-Cust_accounts
		VARCHAR		
4	NUMBER	2		Service Contract Number
		VARCHAR		
5	NUMMODIFIER	2(120)		Renewed Service contract modifier
		VARCHAR		
6	AGREEMENTNO	2(120)		Veritas agreement number
7				
7	AMT	NUMBER		Contract Amount
8	BAL	NUMBER		Contract Available Balance
		VARCHAR		Service Contract Status and EFLEX
9	STATUS	2(30)		contract status
10				
10	TARTDATE	DATE		Contract start date
11	ENDDATE	DATE		Contract end date



<u>ENT</u>

				Veritas Entitlement ID -
1	ID	NUMBER	PK	Sequence VEMS_ENT_S
2	CONTRDTLSID	NUMBER		ID from contract details table
3	INSTANCENUMBER	VARCHAR2(30)		IB Instance number from ERP
				Veritas Entitlement ID - Unique
				number generated with an
4	VEMSID	VARCHAR2(11)		algorithm
				Random Number will be
				generated and '.7' will appended
5	LICSLID	VARCHAR2	30	to the random number
6	QUANTITY	NUMBER		Install Base quantity

CUSTMAP

1	ID	NUMBER	PK	Unique Sequence
				:VEMS_CUST_SKU_MAP_S
2	PRDVERID	NUMBER		Veritas SKU id
3	MAINTPRDVERID	NUMBER		Associated maintenance
				product (
				VEMS_PRD_VER_ID from
				VEMS_SYSTEM_PRODUCT)
				with base product
4	CUSTOMERSKU	VARCHAR2	240	Corresponding Customer SKU,
				will be entered by customer





5	VEMSCUSTACCOU NTID	NUMBER		SKU Permission to OEM Partner. Partner ID will be
				populated here
6	STATUS	VARCHAR2	30	Active / Not Active

ENTPROD

				Entitlement Line Product ID
1	ID	NUMBER	PK	
2	ENTID	NUMBER		VEMS Entitlement line id
				PRDVERID (unique sequence
				Number) from System product
3	PRDVERID	NUMBER		Table
4	STATUS	VARCHAR2	30	Status
				Who Columns to tack the
5	CREATEDBY	NUMBER		record insert/update
				Who Columns to tack the
6	CREATIONDATE	DATE		record insert/update
				Who Columns to tack the
7	LASTUPDATEDBY	NUMBER		record insert/update
				Who Columns to tack the
8	LASTUPDATEDATE	DATE		record insert/update



Prod

PRDVERID	NUMBER	PK	Unique Sequence, PRDVERS
PRODLINE	VARCHAR2	240	Product Line
BASESKU	VARCHAR2	40	Item Number from ERP
SKU_DESCRIPTION	VARCHAR2	240	Item Description from ERP
PRODCODE	VARCHAR2	60	Versioned Product Identifier
PRODDESC	VARCHAR2	240	Versioned Product Description
PRODVER	NUMBER		Version Number
			Status of the product if active or
PRODSTATUS	VARCHAR2	10	Inactive
PRODPLATFORM	VARCHAR2	150	Product Usage Type From ERP
PRODTYPE	VARCHAR2	150	Product Type From ERP
PRODSUBTYPE	VARCHAR2	150	Product Sub Type From ERP
PRODUSAGETYPE	VARCHAR2	150	Product Usage Type From ERP
PRODENTTYPE	VARCHAR2	150	Product Entitlement Type
PRODEXT	VARCHAR2	150	Product Entitlement Type
PRODFULTYPE	VARCHAR2	150	Product Entitlement Type
LICTYPE	VARCHAR2	30	Type of License file it will generate
			Product Variable Price only stored
PRODPRICE	NUMBER		here
	PRODLINE BASESKU BKU_DESCRIPTION PRODCODE PRODDESC PRODVER PRODVER PRODSTATUS PRODPLATFORM PRODPLATFORM PRODTYPE PRODSUBTYPE PRODSUBTYPE PRODENTTYPE PRODENTTYPE PRODEXT PRODFULTYPE LICTYPE	PRODLINEVARCHAR2BASESKUVARCHAR2BASESKU_DESCRIPTIONVARCHAR2PRODCODEVARCHAR2PRODDESCVARCHAR2PRODVERNUMBERPRODSTATUSVARCHAR2PRODPLATFORMVARCHAR2PRODTYPEVARCHAR2PRODSUBTYPEVARCHAR2PRODENTTYPEVARCHAR2PRODENTTYPEVARCHAR2PRODENTTYPEVARCHAR2PRODEXTVARCHAR2PRODFULTYPEVARCHAR2PRODFULTYPEVARCHAR2PRODFULTYPEVARCHAR2PRODFULTYPEVARCHAR2PRODFULTYPEVARCHAR2PRODFULTYPEVARCHAR2PRODFULTYPEVARCHAR2PRODFULTYPEVARCHAR2PRODFULTYPEVARCHAR2PRODFULTYPEVARCHAR2PRODFULTYPEVARCHAR2PRODFULTYPEVARCHAR2PRODFULTYPEVARCHAR2	PRODLINEVARCHAR2240BASESKUVARCHAR240BKU_DESCRIPTIONVARCHAR2240PRODCODEVARCHAR260PRODDESCVARCHAR2240PRODVERNUMBER9PRODSTATUSVARCHAR210PRODPLATFORMVARCHAR2150PRODSUBTYPEVARCHAR2150PRODSUBTYPEVARCHAR2150PRODENTTYPEVARCHAR2150PRODENTTYPEVARCHAR2150PRODEXTVARCHAR2150PRODFULTYPEVARCHAR2150PRODFULTYPEVARCHAR2150PRODFULTYPEVARCHAR2150PRODFULTYPEVARCHAR230ICTYPEVARCHAR230



PRODFILES

1	ID	NUMBER	PK	Unique Sequence
2	PRDVERID	NUMBER		PRDVERID of the systemproducts, the
				file is associated with
3	FNAME	VARCHAR2	30	Name of the file
4	FDESC	VARCHAR2	240	File Description
5	FSIZE	NUMBER		Size of the file in bytes
6	LIMITDOWNLD	VARCHAR2	1	If the download is limiting to Max
				number
7	DOWNLDCNT	NUMBER		Number of Download

CUSTACC

1	CUSTACCID	NUMBER	РК	Unique Sequence
2	PARTYNO	VARCHAR2	30	Party Number from ERP
3	PARTYNAME	VARCHAR2	360	Party Name
4	ACCNO	VARCHAR2	30	Customer Account Number
5	ACCNAME	VARCHAR2	360	Account Name
6	STATUS	VARCHAR2	10	Status of the account
7	NOTIFYPRIMARY	VARCHAR2	1	If Yes, all email communication will be
				sent to the primary contact only
8	SALESCHANNELCDE	VARCHAR2	30	Sales channel Code from ERP

CUSTADDR

1	CUSTADDRID	NUMBER	PK	Unique Sequence
2	CUSTACCID	NUMBER		VEMS customer ID
3	PARTYSITENO	VARCHAR2	30	Site Number from ERP
4	SITEUSECODE	VARCHAR2	30	Site use code such as bill_to, Ship_to



5	ADDRESS1	VARCHAR2	240	address 1 of the site
6	ADDRESS2	VARCHAR2	240	address 1 of the site
7	ADDRESS3	VARCHAR2	240	address 1 of the site
8	ADDRESS4	VARCHAR2	240	address 1 of the site
9	CITY	VARCHAR2	60	City of the site location
10	STATE	VARCHAR2	60	State of the site
11	PROVINCE	VARCHAR2	60	Province of the site
12	POSTAL_CODE	VARCHAR2	30	Zip code or postal code of the site
13	COUNTRY	VARCHAR2	60	County of the site

LICENSE

1	LICID	NUMBER	РК	Unique Sequence
2	PRDID	NUMBER		PRD for which the license is generated
3	KBID	NUMBER		KB line ID if it is Key bank transaction
4	SIGKEYSTRING	VARCHAR2	4000	IF License type is SIG
5	FNAME	VARCHAR2	4000	If License type is VXML or SIG Key
6	LICFILE	CLOB		If License type is VXML or SIG Key
7	KEYGENDATE	DATE		Date on which the key is generated
8	KEYGENBY	NUMBER		(IF it is IPL, then generated by should IPL.veritas.com (will be refer as -99 or some number), otherwise contact id)
0	KET OLIVD I	NOWIDER		Generated Quantity for which license is
9	GENQTY	NUMBER		generated Quality for which needse is
				Random generated number unique for each license key generation with '.7'
10	FULFILMENTID	VARCAHR2	30	appended



1	ID	NUMBER	PK	Veritas Entitlement Header ID - Sequence
-		VARCHA		
2	ENTSOU	R2(30)		Entitlement Source such as ELA/SMB/VC
3	CUSTACCID	NUMBER		Account ID will be populated from Custaccounts
4	NUMBER	VARCHA R2		Service Contract Number
5	NUMMODIFIE R	VARCHA R2(120)		Renewed Service contract modifier
6	AGREEMENT NO	VARCHA R2(120)		Veritas agreement number
7	AMT	NUMBER		Contract Amount
8	BAL	NUMBER		Contract Available Balance
9	STATUS	VARCHA R2(30)		Service Contract Status and EFLEX contract status
10	TARTDATE	DATE		Contract start date
11	ENDDATE	DATE		Contract end date
12	ID	NUMBER	PK	Veritas Entitlement ID - Sequence
13	CONTRDTLSI D	NUMBER		ID from contract details table
14	INSTANCENU MBER	VARCHA R2(30)		IB Instance number from ERP
15	VEMSID	VARCHA R2(11)		Veritas Entitlement ID - Unique number generated with an algorithm
16	LICSLID	VARCHA R2	30	Random Number will be generated and '.7' will appended to the random number
17	QUANTITY	NUMBER		Install Base quantity
18	ID	NUMBER	PK	Unique Sequence :VEMS_CUST_SKU_MAP_S
19	PRDVERID	NUMBER		Veritas SKU id

3.12 <u>Table Specification</u>



20	MAINTPRDVE RID	NUMBER		Associated maintenance product (VEMS_PRD_VER_ID from VEMS_SYSTEM_PRODUCT) with base product
21	CUSTOMERSK U	VARCHA R2	240	Corresponding Customer SKU, will be entered by customer
22	VEMSCUSTAC COUNTID	NUMBER		SKU Permission to OEM Partner. Partner ID will be populated here
23	STATUS	VARCHA R2	30	Active / Not Active
24 25	ID	NUMBER	РК	Entitlement Line Product ID
26	ENTID	NUMBER		VEMS Entitlement line id
27	PRDVERID	NUMBER		PRDVERID (unique sequence Number) from System product Table
28	STATUS	VARCHA R2	30	Status
29	CREATEDBY	NUMBER		Who Columns to tack the record insert/update
30	CREATIONDA TE	DATE		Who Columns to tack the record insert/update
31	LASTUPDATE DBY	NUMBER		Who Columns to tack the record insert/update
32	LASTUPDATE DATE	DATE		Who Columns to tack the record insert/update
33	PRDVERID	NUMBER	PK	Unique Sequence, PRDVERS
34	PRODLINE	VARCHA R2	240	Product Line
35	BASESKU	VARCHA R2	40	Item Number from ERP
36	SKU_DESCRIP TION	VARCHA R2	240	Item Description from ERP
37	PRODCODE	VARCHA R2	60	Versioned Product Identifier
38	PRODDESC	VARCHA R2	240	Versioned Product Description



39	PRODVER	NUMBER		Version Number
40	PRODSTATUS	VARCHA R2	10	Status of the product if active or Inactive
41	PRODPLATFO RM	VARCHA R2	150	Product Usage Type From ERP
42	PRODTYPE	VARCHA R2	150	Product Type From ERP
43	PRODSUBTYP E	VARCHA R2	150	Product Sub Type From ERP
44	PRODUSAGET YPE	VARCHA R2	150	Product Usage Type From ERP
45	PRODENTTYP E	VARCHA R2	150	Product Entitlement Type
46	PRODEXT	VARCHA R2	150	Product Entitlement Type
47	PRODFULTYP E	VARCHA R2	150	Product Entitlement Type
48	LICTYPE	VARCHA R2	30	Type of License file it will generate
49	PRODPRICE	NUMBER		Product Variable Price only stored here
50	ID	NUMBER	PK	Unique Sequence
51	PRDVERID	NUMBER		PRDVERID of the systemproducts, the file is associated with
52	FNAME	VARCHA R2	30	Name of the file
53	FDESC	VARCHA R2	240	File Description
54	FSIZE	NUMBER		Size of the file in bytes
55	LIMITDOWNL D	VARCHA R2	1	If the download is limiting to Max number
56	DOWNLDCNT	NUMBER		Number of Download
57	CUSTACCID	NUMBER	РК	Unique Sequence
58	PARTYNO	VARCHA R2	30	Party Number from ERP



59	PARTYNAME	VARCHA R2	360	Party Name
60	ACCNO	VARCHA R2	30	Customer Account Number
61	ACCNAME	VARCHA R2	360	Account Name
62	STATUS	VARCHA R2	10	Status of the account
63	NOTIFYPRIM ARY	VARCHA R2	1	If Yes, all email communication will be sent to the primary contact only
64	SALESCHANN ELCDE	VARCHA R2	30	Sales channel Code from ERP
65	CUSTADDRID	NUMBER	РК	Unique Sequence
66	CUSTACCID	NUMBER		VEMS customer ID
67	PARTYSITEN O	VARCHA R2	30	Site Number from ERP
68	SITEUSECODE	VARCHA R2	30	Site use code such as bill_to, Ship_to
69	ADDRESS1	VARCHA R2	240	address 1 of the site
70	ADDRESS2	VARCHA R2	240	address 1 of the site
71	ADDRESS3	VARCHA R2	240	address 1 of the site
72	ADDRESS4	VARCHA R2	240	address 1 of the site
73	CITY	VARCHA R2	60	City of the site location
74	STATE	VARCHA R2	60	State of the site
75	PROVINCE	VARCHA R2	60	Province of the site
76	POSTAL_COD E	VARCHA R2	30	Zip code or postal code of the site



77	COUNTRY	VARCHA R2	60	County of the site
78	LICID	NUMBER	PK	Unique Sequence
79	PRDID	NUMBER		PRD for which the license is generated
80	KBID	NUMBER		KB line ID if it is Key bank transaction
81	SIGKEYSTRIN G	VARCHA R2	400 0	IF License type is SIG
82	FNAME	VARCHA R2	400 0	If License type is VXML or SIG Key
83	LICFILE	CLOB		If License type is VXML or SIG Key
84	KEYGENDAT E	DATE		Date on which the key is generated
85	KEYGENBY	NUMBER		(IF it is IPL, then generated by should IPL.veritas.com (will be refer as -99 or some number), otherwise contact id)
86	GENQTY	NUMBER		Generated Quantity for which license is generated
87	FULFILMENTI D	VARCAH R2	30	Random generated number unique for each license key generation with '.7' appended



3.13 Test Procedures and Implementation

TESTING

Testing plays a vital role in the success of the system. System testing makes a logical assumption that if all parts of the system are correct, the goal will be successfully achieved. Once program code has been developed, testing begins. The testing process focuses on the logical internals of the software, ensuring that all statements have been tested, and on the functional externals, that is conducted tests to uncover errors and ensure that defined input will produce actual results that agree with required results.

TYPES OF TESTING:

- Unit testing
- Integration testing
- Validation testing
- System testing
- Negative testing

1) Unit testing:

Unit testing focuses verification effort on the smallest unit of software design the module. Unit testing exercise specific paths in the module's control structure to ensure complete coverage and maximum error detection.

i) Black Box Testing: In black box testing, test cases are designed from an examination of the input/output values and no knowledge of design or code is requires.



ii) White Box Testing: There are several white box testing strategies. Each testing is based on some heuristic. White box testing strategy is based on heuristic. White box testing is stronger than other strategy, if all types of errors detected by the first strategy are also detected by the second testing strategy & the second strategy additionally detects some more types of errors.

2) Integration Testing:

Integration testing addresses the issues associated with the dual problems of verification & program construction. After the software has been integrated a set of high-order tests are conducted/

The following are the types of Integration Testing:

Top-Down Integration:

This method is an incremental approach to the construction of program structure. Modules are integrated by moving downward through the control hierarchy, beginning with the mail program module.

Bottom-Up Integration:

This method begins the construction & testing with the modules at the lowest level in the program structure. Since the modules are integrated from the bottom up, processing required for modules subordinate to a given level is always available & the need from stubs is eliminated.

3) Validation Testing:

At the end of Integration Testing, software is completely assembled as a package, interfacing errors have been uncovered and correction testing begins.



Software Testing & Validation is achieved through serried of black box tests that demonstrate conformity with the requirements. A test plan outlines the classes of tests to be conducted and a test procedure defines specific test cases that will be used to demonstrate conformity with requirements.

Both, the plan and the procedure are designed to ensure that all functional requirements are achieved, documentation is correct and other requirements are met.

4) System testing:

System testing is series of different tests whose primary purpose is to fully exercise the computer based system. Although each test has a different purpose, all the work should verify that all system elements have been properly integrated and perform allocated functions.

There are essentially three kinds of system testing:

I) <u>Alpha Testing</u>: Alpha testing refers to the system testing carried out by the test team within the development organization.

ii) <u>Beta Testing</u>: Beta testing is the system testing performed by a select group of friendly Users.

iii) <u>Acceptance Testing</u>: Acceptance testing is the system testing performed by the Users to determine whether to accept or reject the delivery of system.

5) Negative Testing:

Negative testing ensures that your application can gracefully handle invalid input or unexpected user behaviour. For example, if a user tries to type a letter in a numeric field, the correct behaviour in this case



would be to display the "Incorrect data type, please enter a number" message.

Test	Objective	Action	Expected	Actual	Status
Case			Result	Result	
ID					
1	Incorrect	Display error	Error at Sign in	Error	Pass
	username and	message	at for wrong	message gets	
	Password		username or	displayed.	
			Password		
			Message		
	~		display.		
2	Correct	Redirect	Redirected to	Redirected	Pass
	username and		Home Page	to Home	
	password		D 11 1	Page	
3	User	Redirect to	Redirected to	Can redirect	Pass
	Authorization	authorized	authorized		
	~ 1	dashboard	dashboard	D 11 1	
4	Check	Open	Dashboard	Dashboard	Pass
	whether	dashboard	should get	get	
	dashboard is	page	displayed in	displayed in	
	displaying in		right way	right manner	
	right manner	0	T 1 :	A 11 / 1	D
5	All tabs are	Open dashboard	Tabs in	All tabs are visible to	Pass
	visible to user		dashboard		
		page	should be	user	
6	Alianmant of	0	displayed	Alionmont	Pass
0	Alignment of	Open dashboard	Alignment of	Alignment of	Pass
	charts, DIVs,		component is intact.	01	
	grids are not changed	page and go through each	intact.	component is intact.	
	changeu	Ũ		is intact.	
7	Check if	component Click on	details about	Accounts is	Pass
,	Accounts tab	Accounts label	that label must	working	1 400
	is working		get displayed		
8	Check if	Click on	Details about	details	Pass
	Entitlement	Entitlement	that label must	displayed	
	tab is working	label	get displayed	were	
			accurately	accurate	



9	Check if	Values	Graphs must	Graphs are	Pass
,	graphs are	displayed in	get displayed	displayed to	1 455
	displayed	graph with	correctly	user	
	correctly	data &	concerty	user	
	concerty	visibility if			
		legends			
10	Dashboard is	Open	Dashboard must	Dashboard	Fail
10	responsive	dashboard	get opened in	getting	1 411
	responsive	page in	device & visible	opened in all	
		different	according to	devices but	
		devices of	device size	for small	
		different size	device size	devices, it	
		different size		has problem	
				of visibility	
11	Check if	Click on	Details about	details	Pass
	Download tab	Download	that label must	displayed	
	is working	label	get displayed	were	
	C C		accurately	accurate	
12	Check if	Click on	Details about	details	Pass
	License tab is	License label	that label must	displayed	
	working		get displayed	were	
	C C		accurately	accurate	
13	Check if	Click on	Details about	details	Pass
	Enterprise	Enterprise	that label must	displayed	
	Flex tab is	Flex label	get displayed	were	
	working		accurately	accurate	
14	Check the	Click on more	More options	Options are	Pass
	more Options	options in	should be	displayed	
	on	entitlement	displayed	and input is	
	Entitlement	tab.	properly and	accepted	
	tab		input should be		
			accepted		
15	Check if	Click on	All the	Details	Pass
	entitlements	entitlement	entitlement	Displayed	
	details are	ID.	details should be	properly	
	displayed		displayed.		
	when we click				
	on				
	Entitlement				
	ID on				
	Homepage				



CHAPTER 4 USER MANNUAL



4.1 User Manual

Login

- 1. Login to My VERITAS Portal.
- 2. Click Licensing Tab.
- 3. Portal Landing Page.
- 4. Select Software Download 4.1. Download
- 5. Select Entitlement Activate
 - 5.1. Activate
 - 5.2. Download License

Update User Profile

- 1. Login to My VERITAS.
- 2. Edit User Profile
- 3. Update Profile



4.2 Menu Explanation

Menu Explanation

- 1. User logs into My VERITAS Portal.
 - 1.1. Applications
 - 1.2. Licensing
 - 1.3. Support
- 2. User Clicks on Licensing
 - 2.1. Home
 - 2.2. Accounts
 - 2.3. Entitlements
 - 2.4. Download
 - 2.5. Licenses
 - 2.6. Admin
 - 2.7. Eflex
- 3. When use click Home, Dashboard is displayed.
- 4. When User Clicks on Eflex the flexera page is displayed.
- 5. When User clicks on Entitlements user can see all the entitlements regarding that contracts.
- 6. When user clicks on admin the user can monitor its sub user of the contract.



4.3 Program Specification

Module: View Voucher Details

Program Name	Constraint	Description			
View Voucher	The voucher number	Displays the			
Details	should be valid.	voucher status and			
		other details			

Module: Generate License

Program Name	Constraint	Description
Generate License	The Entitlement ID	Generates a license
	should be valid.	for an entitlement
		for a product.

Module: Create Entitlement

Program Name	Constraint	Description
Create Entitlement	The address should	Is used to create and
	be valid.	entitlement for an
		product.

Module: User Permission

Program Name	Constraint	Description
User Permission	User email should	Admin can grant or
	be valid.	revoke permission to
		user.



Drawbacks and Limitations

- Internment issues regarding network connection problem.
- Portal needs to be down when certain patching is going on server so user has to face downtime.
- As there is continuous synchronization between oracle R12 and Golden gate there might be delay in synchronization for the user may not get correct data sometimes.



Enhancement

Any future enhancement not yet decided as this portal is redeveloped for the 1st use for VERITAS technologies the user will provide the future enhancements if needed.



Conclusion

Working on the project was good experience. I understand the importance of Planning and designing as a part of software development. Developing the project has helped us some experience on real-time development Procedures. The project made me realize the significance of developing software for client, where the sole aim is to learn.

During the project, the real importance for following all principle of System Analysis and Design dawned on me. I felt the necessity of going through the several stages because only such a process could make one understand the problem at data stored involved in their manipulations.

Finally I can conclude that, the system has been developed for Veritas to show real time reporting dashboard. The software has been tested results are found to be satisfactory. The system is developed through SpringBoot, Angular2 and Oracle the product is implemented on Microsoft windows platform. The user has to login through first screen then he/she will get the access provide for the user, which are configured for it.



Bibliography



WEB Bibliography

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- www.stackoverflow.com
- www.github.com
- <u>www.mvnrepository.com</u>

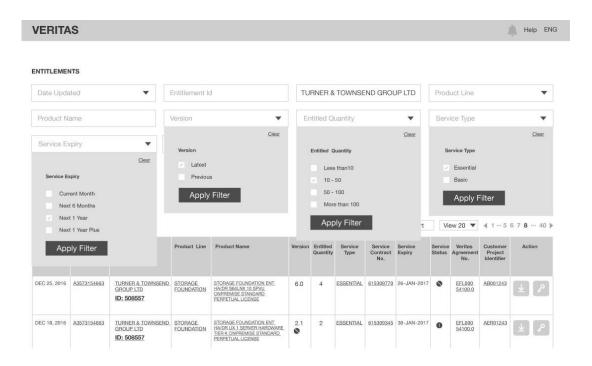


Annexures



Annexure 1: User Interface Screens

Entitlement Screen





Entitlement Result

VERITAS Dashboard My Av	ccounts Entitlements Downle	oad Lic	censes	Enterpri	e Flex			8	Usemame	LP Hel	p Eng
Entitlements											
Updated Date	Entitlement ld		TURNE	ER & TOWNSE	ND GROUP L	rD		Product Line			~
Product Name	Version		Entitled	d Quantity				Service Type			
Service Contract Number	Service Expiry		Veritas	Agreement f	lumber	,	-	Project ID			~
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Updated Entitlement Id Account Date	Product line Product Name	Version	Entitled Quantity	Service Type	Service Contract No.	Service Expiry	Service Status	: Veritas Agreement No.	Customer Project Identifier	Actio	
DEC 25, 2016 A3573154663 TURNER & TOWINSEND GROUP LTD ID: 508557	STORAGE STORAGE FOUNDATION ENT FOUNDATION HA/DR S64LNX 10 SPVU ONPREMISE STANDARD PERPETUAL LICENSE	6.0	4	ESSENTIAL	615309770	JAN 26, 2017	0	EFL00054100.0	AB001243	± (٩



Generate License

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< Back				
GENERATE KEY				
STORAGE FOUNDATION ENT ONPREMISE STANDARD PERI		Generated License Keys 02		
Account Name: MINTEK Entitlement ID: A3573154663 B Ref No: Service Expiry Date: 26-Jan-2017 Project ID:	Account No: ID: 508557 Entitled Cty.: 4 SC No.: VAN.:			
Product Version				
ETOPAGE FOUNDATION ENT HAVOR SERVICE 10	SPVU CHIPPENISE STANCAPO PERPE	TUAL LICENSE	Version 6.0	
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STORAGE FOUNDATION ENT HAUDR SEALINK 10	SPVJ ONPREMISE STANDARD PERPE	TUAL LICENSE	Version: 6.0	
STORAGE FOUNDATION ENT HALDRI SHRINK 10	SPVU ONPREMISE STANGARD PERPE	NAL LICENSE	Version: 5.0	
STORAGE FOUNDATION ENT HAVDR SHUNK 10	SPVU ONPREMISE STANDARD PERPE	TUAL LICENSE	Version: 4.2	
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Select Address	City	State	Province/ Region	ZIP/Postal Code	ew 20 💙 < 1 2 3 4 … 40 > Country		
1920 CUSTOMER SERVICE WAY	ATWATER	CALIFORNIA	-	95301	UNITED STATES OF AMERICA		
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Create Entitlement

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	324345		
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	123894	CLUSTER SERVER HA/DR UX10 SPUCY ONPRIMISE STANDARD PERPETUAL LICENSE	
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Review Order



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	Review Order 4 Confirm Order 5 Order Co contract combination. The selected address will be used fi		Address 1920 CUSTOMER SERVICE WAY ATWATER, CALIFORNIA 9530 UNITED STATES OF AMERICA
Review Order			Product CLUSTER SERVER HA/DR UX10 SPUCV ONPRIMISE
Contract	Product	Date Of Deployment	
LMDFUD974	Cluster Server HA/DR UX10 SPUCV Onprim	Mar ✔ 04 ✔ 2017 ✔	
Customer Number 87458	Select Version	Quantity	
	0.0 · · · · · · · · · · · · · · · · · ·	quantity	
Recipient Emails			
Contract Defined Information			
Finance	Sales	HRM	
Comments			
		Add to Cart	

Confirm Order



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< Back Create Entitlement										
This page provides information	on th products	t 3 Review Ord	•		er Confirmation and license specific	information for each product in y	our cart.			
Please review your order details Confirm Order	s before placing	g your order.					Add	to Cart S	ave Cart	Place Order
Order Details Customer Name (number) : Contract Description: Address 1: Address 2: Address 3: Address 4: City: State: Province: Zip: Country:	AT & T IM U 1401 ENEA Atwater California 95301	Jnlimited Flex								
Delete Product							Version	Quantity	Cost	
ENTERPRISE VAULT FILE :	SYSTEM ARCH	AND SEARCH WIN 1 US	ER ONPREMISE STAND	ARD PERPATUAL LIC	ENSE (10919)		6.0	1	USD 41.25	
Note: The following values will b	be carried forw	ard from the last prod	uct added to the cart	when you add aditi	onal products. (Cor	tract Define Fields)				Place Order



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Order Details					
and second					
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Address 4: City:	Atwater				
State:	California				
Province:					
Zip:	95301				
Country:	United States of America				
Product Description			rakan	Quantity	Cost
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					1100 11 07
Total					USD 41,25
End-User Information					
Name:	Chetan Moolky				
Title:					
Company:	AT & T IM Services				
Address : City:	555 Long Wharf Drive, 123 Main St.				
State	New Haven				
Zip:	06511				
Country:	United States of America				
Phone	0015551234Wxt:1				
Fax: Email Address:					
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Joanse Kmail Details					
CORDER EXTERN EXPENSES					
Name	Chetan Mooiky (1500050244)				



A Heb ENG

Annexure 2: Reports

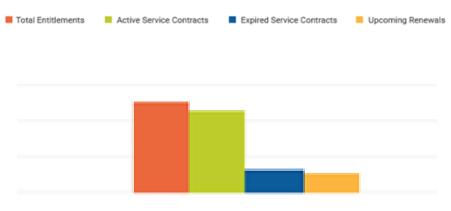


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Active Service Contracts Expired Service Contracts Upcoming Renewals

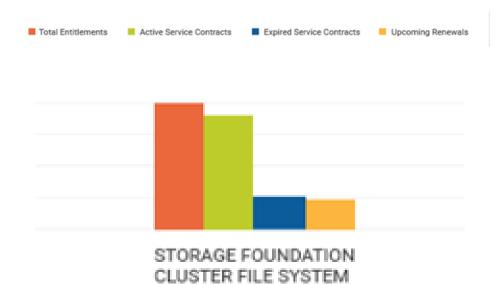
Entitlements Dashboard STORAGE FOUNDATION



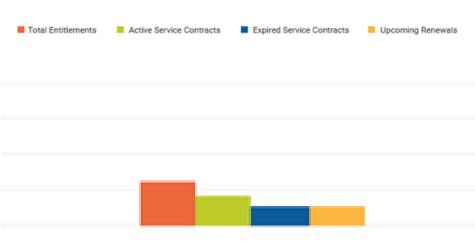






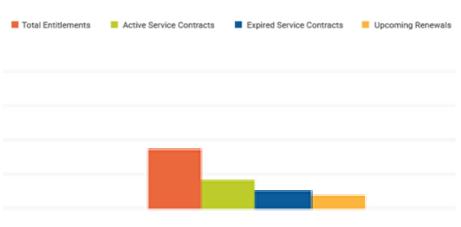






STORAGE FOUNDATION





NETBACKUP



VERITAS

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ITITLEMENT DETAILS	± 2 0 🕏
Product Name:	STORAGE FOUNDATION ENT HA/DR S64LNX 10 SPVU
	ONPREMISE STANDARD PERPETUAL LICENSE
Account Name: Account ID:	TURNER & TOWNSEND GROUP LTD 508557
Account IU: Entitlement ID:	508557 A3573154663
Entitlement Quantity:	A 4
IB Ref Number:	3376132
SC Number:	991919T
Service Expiry:	Jan 26, 2017
VAN	
Project ID:	
Support ID:	
SC Service Type:	Deserves
License Expiration Date: License Date Added:	Permanent
Sold as SKU:	Sep 11, 2015
Sold as SKU Description:	Commercial
Appliance Serial Number:	Commercial
Order Number:	
Customer RO.:	EFL00141335.0
Partner Account Number:	
IB Status:	Created
IB Termination Date:	
SC Line Status:	
SC Termination Reason:	
SC Termination Date:	
Veritas Agreement Number:	
Veritas Agreement Description:	Euro Green Tech Unlimited
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	Onpremise Stamland Perpetual	Liseence (11845)		
Product/Version:				
Quantity:	1			
System: Type:	N/8.			
Price Tier:	NR.			
Commentat Version:	HA.			
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Annexure 3: Sample Program Code

ApplicationContext.xml

<?xml version="1.0" encoding="UTF-8"?> <beans xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:context="http://www.springframework.org/schema/context" xmlns:mvc="http://www.springframework.org/schema/mvc" xsi:schemaLocation="http://www.springframework.org/schema/bea ns

http://www.springframework.org/schema/beans/spring-beans-3.0.xsd

http://www.springframework.org/schema/context http://www.springframework.org/schema/context/spring-context-3.0.xsd

http://www.springframework.org/schema/mvc http://www.springframework.org/schema/mvc/spring-mvc-3.0.xsd">

<context:annotation-config />

<!-- Scans the classpath for annotated components that will be autoregistered as Spring beans.

For example @Controller and @Service. Make sure to set the correct base-package-->

<context:component-scan base-package="com.veritas.mft" />

<!-- Configures the annotation-driven Spring MVC Controller programming model.

Note that, with Spring 3.0, this tag works in Servlet MVC only! --> <mvc:annotation-driven />

</beans> Spring-security.xml



<?xml version="1.0" encoding="UTF-8"?> <beans xmlns="http://www.springframework.org/schema/beans" xmlns:beans="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:security="http://www.springframework.org/schema/security"

xsi:schemaLocation="http://www.springframework.org/schema/bea ns

http://www.springframework.org/schema/beans/spring-beans-3.0.xsd http://www.springframework.org/schema/security http://www.springframework.org/schema/security/spring-security-4.0.xsd">

<!-- This is where we configure Spring-Security --> <security:http auto-config="true" use-expressions="true" disableurl-rewriting="false"> <security:access-denied-handler error-page="/denied"/>

```
<security:intercept-url pattern="/login" access="permitAll"/>
<security:intercept-url pattern="/admin" access="permitAll"/>
<!-- access="hasRole('ADMINISTRATOR')" -->
<security:intercept-url pattern="/common" access="permitAll"/>
<security:intercept-url pattern="/dashboard" access="permitAll"/>
<security:intercept-url pattern="/index" access="permitAll"/>
```

```
<security:form-login
login-page="/login"
login-processing-url="/j_spring_security_check"
username-parameter="j_username"
password-parameter="j_password"
authentication-failure-url="/login?error=true"
default-target-url="/index"/>
```

<security:session-management invalid-session-url="/login" session-fixation-protection="newSession" >



<security:concurrency-control max-sessions="1" error-if-maximumexceeded="*true*" /> </security:session-management>

<security:logout invalidate-session="true" logout-success-url="/login" logout-url="/j_spring_security_logout"/> /mft/auth/login?logout=true -->

<!--

</security:http>

<security:authentication-manager>

<security:ldap-authentication-provider

user-search-filter="(sAMAccountName={0})"
user-search-base="ou=people"
group-search-base="ou=People"
group-search-filter="(sAMAccountName={1})"
user-context-mapper-ref="customUserContextMapper"/>

<!-- group-role-attribute="<u>cn</u>" --> </security:authentication-manager> <bean id="customUserContextMapper" class="com.veritas.mft.security.MyCustomAuthoritiesPopulator"/>

<bean id="initialDirContextFactory"
class="org.springframework.security.ldap.DefaultSpringSecurityCo
ntextSource"><constructor-arg
prod.community.veritas.com:389/DC=community,DC=veritas,DC=
com" />



```
<property name="userDn" value="CN=mft.dev,OU=Non-
Privileged_Standard,OU=Service
Accounts,DC=community,DC=veritas,DC=com" />
<property name="password" ref="deobfuscatedPasswordFinanceui"
/>
</bean>
```

<!-- Automatically receives AuthenticationEvent messages --> <bean id="loggerListener" class="org.springframework.security.authentication.event.LoggerLis tener" />

<bean id="deobfuscatedPasswordFinanceui" factorybean="obfuscationAdapterFinanceui" factorymethod="deObfuscation"></br><constructor-arg</td>type="java.lang.String"
value="978EE8B850EFDDE1E132D08D" /></bean>

<bean id="obfuscationAdapterFinanceui"
class="com.veritas.it.core.encryption.tools.ObfuscationAdapter">
class="com.veritas.it.core.encryption.tools.ObfuscationAdapter">
value="com.veritas.it.core.encryption.tools.ObfuscationAdapter">
value="com.veritas.it.core.encryption.tools.ObfuscationAdapter">
value="com.veritas.it.core.encryption.tools.ObfuscationAdapter">
value="com.veritas.it.core.encryption.tools.ObfuscationAdapter">
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</beans>





