

JISA Softech Pvt. Ltd.



CryptoBind[®] KMS Operation Manual

v1.0.0







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JISA Softech Pvt. Ltd. will, if required explain queries related to specific product.



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Csr Info
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Active Directory
Quorum Policy
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Download Kms Logs

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We are a young Information Technology company providing various Authentication products and Solutions.

All our Public Key Infrastructure (PKI) & Cryptographic solutions are sold under brand name JISA. With strong core competencies in Cryptography and PKI, JISA offers solutions built around Public Key Infrastructure (PKI), the framework that brings confidentiality, authentication, privacy, and non-repudiation.

"JISA has an entire range of software applications based on cryptographic algorithms and protocols"

We at JISA are focused on the design, develop, sales and support of various Hardware and Software solutions. We have done an extensive market research on various requirement of market and included suitable solution in our Solution Portfolio.

JISA India R&D centre situated in Pune, is a core of a team with excellent technicians and think-tankers with the only objective of delivering simple, efficient and powerful device that meets one's, particularly routine requirements on technological front. It is our endeavour to provide our consumers, a taste of the technology ahead.



ABOUT DOCUMENT

This document is targeted at users who will use JISA's CryptoBind DSS. Readers should also read the following related documents for complete understanding.

WHAT IS CRYPTOBIND DSS ADMIN PORTAL

JISA provides EKMS Admin Portal which is the administration console for managing CryptoBind DSS. This EKMS Admin Portal is simple interface which enables user to manage various operations using features available with the portal.

The main features of CryptoBind EKMS Admin Portal are mentioned below

- **Dashboard** help for keeping track of available users, keys, applications and other metrics of DSS.
- Role-based access control (RBAC) lets user define policies to ensure authorized access to portal.
- Key Management enables user to perform various key operations viz. key generate, key list, key discovery, key import, BYOK.
- **Applications Management** enables user to onboard the application for use cases like tokenisation and encryption.
- TDE Management
- **Configuration** section lets users configure their email servers, sms server, active directory integration.
- Logs let user analyse the portal operations.

Select Server	~	
Email address		
Password	10	
Forgot/	Reset Password?	
Varning : The Password p	olicy configured olicy. Please imum-	
eview the configured Mini laximum length of Passw	ord.	
view the configured Mini taximum length of Passw pliance Serial Nu M2303111	imber :	

Fig 1. Admin Portal





SIGN IN

The below given image refers to the login screen of EKMS Admin Portal. Through this interface the user will sign into the EKMS Admin Portal from where the EKMS functions can be managed. (**Note:** Please use EKMS Admin Portal credentials handed over by JISA engineer)

To sign in to EKMS admin portal, user may follow below given steps

1. Open Google Chrome web browser on your computer

2. Type & open below URL:

https://<KMS_IP_ADDRESS>:5001/cryptobind-jisa

3. Enter your registered email id i.e. username & password received on your registered mobile no &/or email ID

4. Click on Sign In button

aloat Sanior	
Select Server	
Email address	
Password	3
Forgot	Reset Password
Forgot Sign In	/Reset Password
Forgot Sign In rning : The Password p ress secure than older p iew the configured Mir ximum length of Passy	/Reset Password policy configured policy. Please himum- word.

Figure 2: Sign In to EKMS Admin Portal

JISA JISA

Note: The configuration of email OTP and SMS OTP has to be added explicitly based on the client requirement viz. email template and sms template specifications. KMS Admin Portal has provision to support the same but is not supplied with the configuration by default.





FORGOT/RESET PASSWORD

In case the user forgets his or her login credentials, he/she can reset the credentials using Reset button. To reset password, user may follow below steps:

1. Open Google Chrome web browser on your computer

2. Type & open below URL:

https://<KMS_IP_ADDRESS>:5001/cryptobind-jisa

3. Click on Forgot Password as shown in Figure 3

Email address Password Forgot/Reset PasswordP Sign In arning : The Password policy configured ess secure than older policy. Please few the configured Minimum- bandmum length of Password. Diance Serial Number :	Select Server	~	
Password Forgot/Reset Password? Sign In arning : The Password policy configured ess secure than older policy. Please few the configured Minimum- balanum length of Password. Diance Serial Number :	Email address		
Forgot/Reset Password? Sign In arning : The Password policy configured ess secure than older policy. Please rise with configured Minimum- tximum length of Password. Dilance Serial Number :	Password	R	
Sign In aming : The Password policy configured ess secure than older policy. Please iew the configured Minimum- ximum length of Password.	Forgot/Rese	t Password?	-
rrning : The Password policy configured ess secure than older policy. Please iew the configured Minimum- ximum length of Password.	Sign In		
/2303111	arning : The Password policy ess secure than older policy view the configured Minimun uximum length of Password.	configured .Please n-	
	bliance Serial Numb 12303111	Jer.	

Fig 3 Forgot /Reset Password





EMAIL CONFIGURATION

To send DSS operation updates to users, email alerts can be configured using **Email** Configuration tab in Configuration.

Below shown is the snapshot for **Email Configuration List** under **Configuration >>Email Configuration**. You can add a new email configuration by clicking on **Add** button.

孢 Dashboard	Configuration Management	🐣 / Configuration / Email List
💄 User Management 🛛 🖌	Configuration Management	, conigatatori / ciriai coc
🔎 Key Management 🛛 <	Email List	Add New Email 📓 Excel 📓 PDF
lacktrian Applications		
X Application Deboarding	Search:	Show 10 ¢ entries
Tokenization <	SrNo TI Host TI From Email TI UserName TI Port TI Enabled SSL TI Enabled TLS	11 Actions 11
🛢 TDE Management <	No data available in table	
📽 Configuration 🗸 🗸		
O Email	Showing 0 to 0 of 0 entries	Previous Next
О ѕмѕ		
O Cluster		
O CSR Info		
O RootOfTrust		
O Active Directory		
O Quorum Policy		
Æ Logs <		
		🚺 JISA
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Fig 4. Email Configuration List

To view existing email configuration list, admin may follow below given steps:

- 1. Go to **Configuration** (Considered if user is logged in to any other module of KMS admin portal at present)
- 2. Click on Email Configuration
- 3. Admin will be redirected to Email Configuration List
- 4. Below details are shown on the tab
 - a. Sr No
 - b. Host
 - c. From Email - Email ID from which email will be sent
 - d. Username
 - e. Port
 - f. IsEnabled SSL
 - g. Action By clicking on the edit icon (given under Action column) the admin can update existing Email Configuration information

By clicking on delete/remove button, admin can remove existing email configuration details





Add Email Configuration

- 1. Go to **Configuration** (Considered if user is logged in to any other module of KMS admin portal at present)
- 2. Click on Email Configuration
- 3. Admin will be redirected to Email Configuration List
- 4. Click on Add button given on right side side of your screen
- 5. Enter requested details on your screen:
 - a. Host name
 - b. From email ID Email ID from which email will be sent
 - c. Username
 - d. Password
 - e. Port number
 - f. Select SSL Option Yes/No
- 6. Click on Save.

Below shown is the snapshot of Add Email Configuration under Configuration

🔁 Dashboard	Configuration		😚 / Configuration / Email List / Add Email Configuration
💄 User Management 🛛 🖌	Comgaration		
🔑 Key Management 🛛 <	Add Email Configuration		
& Applications			
X Application Deboarding	Host	From Email Address	Username
Tokenization <	Password	Port	Enable SSL
🛢 TDE Management <			
🗱 Configuration 🗸 🗸	Enable TLS		
O Email			
О ѕмѕ			Rock Sove
O Cluster			
O CSR Info			
O Active Directory			
O Quorum Policy			
Æ Logs 🗸			
			💽 JISA
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VIEW SMS LIST

- 1. Go to Configuration
- 2. Click on SMS to view the SMS List

孢 Dashboard	Configuration Management	Configuration / SMS List
💄 User Management 🛛 🖌	conniguration management	
🔑 Key Management 🛛 <	SMS List	Add New SMS 📓 Excel 📓 PDF
🖧 Applications		
X Application Deboarding	Search:	Show 10 ¢ entries
Tokenization <	Sr.No TI URL TI Sender TI Username TI DLT Entity Id TI SMS Type	11 Action 11
🛢 TDE Management <	No data available in table	
📽 Configuration 🗸 🗸		
O Email	Showing 0 to 0 of 0 entries	Previous Next
O SMS		
O Cluster		
O Active Directory		
O Quorum Policy		
Æ Logs <		
		🚺 JISA
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Fig 6 SMS List

ADD SMS CONFIGURATION

- 1. Click on Add New SMS button located on the upside right corner
- 2. Enter the details mentioned in tab :
- a) SMS URL
- b) Sender Name
- c) Username
- d) Password
- e) DLT Entity Id
- f) Select SMS Type
- g) Click on save button



🙆 Dashboard		Configuration				Add SMS Configuration
💄 User Management	۲	comgaration				3
🔑 Key Management	۰	Add SMS Configuration				
lacktrian Applications						
X Application Deboarding		SMS URL		Sender Name	Username	
Tokenization	۲	Password	ષ્ટ	DLT Entity Id	Select SMS Type	~
TDE Management	<					
Configuration	~					
O Email						Back Save
O sms						
O Cluster						
O CSR Info						
O Active Directory						
O Quorum Policy						
Æ Logs	۲					
						U JISA [°]
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Fig 7. Add SMS

1. After clicking on the link, you will get validation code on your registered email ID/Mobile no as given below *Dear Sir/Madam*,

There was a request to change your password! If you did not make this request then please ignore this email. Otherwise, please click this link to change your password Link: https://10.177.31.165:5001/Login/SetPassword/343r8ubsdiusba56b1324a21e2c2ea00b784b862862ff5e536a Use your secret code! 96680078 Regards

JISA Softech

2. Enter the Validation Code as shown in Figure 8







EKMS Portal
- Email admin@lisasoftech.com
Validation Code
Validate Code
Warning : The Password policy configured is less secure than older policy. Please review the configured Minimum- Maximum length of Password.

Fig 8 Validation Code

- 3. After successful validation of code, you will see Reset Password window as shown in Figure 7
- 4. Enter New Password & Confirm the same
- 5. Click on Submit

regrations regrations	Reset Password	EXEMPENDENCIAL Image deminage/assoftseth.com Validation Code B3308976 Validation Code Sa308976 Validation Code Braining: The Possword policy configured States secure than older policy. Please review the configured Minimum- Maximum length of Possword.







DASHBOARD

Once logged in, by default Dashboard will be opened. You can check summary such as *License Details, Management*

Summary etc. On left side of screen, various modules are available.

After successfully login to the to the EKMS Admin Portal, Dashboard screen will appear as shown in Figure 10



Fig 10 Dashboard

The dashboard shows below information:

- Basic Details
- Keys Details
- Management Summary
- Profile Summary & Logout button
- Module List





BASIC

Basic details of EKMS admin portal are shown as given in figure 9.

 Dashboard User Management 	<	Dashboard				Dashboard
 Key Management Applications Application 	٢	Basic Consignment	9		6	R
Tokenization	< <	User List More info 🗣	Role List	More info	Application List More info 오	
E Logs	<					
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Fig 11 Dashboard- Basic details

These details will be with respect to the users, roles & application added.

- User List
- Widget is provided with total user count. Once you click on More Info, you will get detailed user list.
- Role List Widget is provided with total role count. Once you click on More Info, you will get detailed role list.
- Application List
 Widget is provided with total application count. Once you click on More Info, you will get detailed application list.





Management summary shows below mentioned details as shown in Figure 12. These details will be with respect to the license procured. Here the server refers to CryptoBind DSS (Key Management Solution)

- Appliance Serial Number KMS appliance number which is configured to access the EKMS Admin Portal
- Server name Refers to the domain name of your CryptoBind DSS
- Server Time Date & time of server
- Last Login
 Date & time of last login to EKMS Admin Portal
- High Availability Whether high availability is configured or not
- Home Directory
- Home directory through which the EKMS admin portal operates

Below shown is the snapshot for Management under Dashboard

Dashboard User Management	<	Dashboard		Dashboard
👂 Key Management	۲	Basic Keys Management		
locations &		tentime e Andel Kombor	A served based	
X Application Deboarding		NSM2303III	pe2ckmsdssuat2	
Tokenization	۲	Last Login	High Availability	
🛢 TDE Management	۲	29/06/2023 11:09:47 AM	Not Configured	
🗱 Configuration	۲	Home Directory		
Æ Logs	۲	/ norne/ cryptobina=kms/kms/kms_pottal/auninportal/ekmsportalNohWinPub/	1/05/2024 06.26.55 pm	
			٤	owwedby ryptoBind *
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Fig 12. Dashboard - Management





KEY DETAILS

Details of configured keys are shown under this menu



Fig 13. Key Details

Keys List

Widget is provided with total Keys count. Once you click on More Info, you will get detailed keys list.

• Vulnerable Keys

Widget is provided with % of Vulnerable keys in system. Once you click on More Info, you will get detailed keys list.

• Key Expiring in 5 days

Widget is provided which shows number of keys which will be expired in 5 days.





LOGOUT

The top right corner of Dashboard displays the Logout button & and provides the logout button to logout from the existing EKMS session. You can also maximize the screen by clicking on maximize option

key Management () Applications Deboarding To Kenization () TDE Management () Configuration () E Logs	Dashboard User Management <
Structuring Contriguration Contrigu	Key Management < Applications
Image Image </th <th>Application Deboarding</th>	Application Deboarding
The Management C Configuration C Logs C	Tokenization <
E Logs C	TDE Management
Convident & 2024, IISA SOFTECH BYT, UD, All debts reserved	

Fig 14. Dashboard- Logout





MODULES LIST

On the left side panel of the dashboard the user will be able to see modules to manage the DSS viz. Refer **Figure 15**



Fig 15 Dashboard- Module List

• Dashboard

As seen in previous section, dashboard given high level view of users , keys , roles etc.

- User Management
 - It is used for below mentioned functionality
 - O This helps to manage users

o To create, manage, delete and implement different access control for managing KMS Admin Portal functionality

- Key Management
 - Key Management module is used for below functionality
 - o To manage encryption key lifecycle
 - o creation, storage and retrieval of crypto keys.
 - o View encryption key list
- Tokenization
- TDE Management
- Configuration
 - This module is used for below purpose

o This menu is used for Email configuration. Day to day DSS activities alerts can be shared with users by configuring email alerts given under Configuration Manager.

- o Cluster Configuration
- Logs

Audit Management module is used to perform below mentioned activities o To view and access audit logs



USER MANAGEMENT

With user management, Admin can give access of various features to other users. User Management lets user to create, manage, delete and implement different access control for managing KMS Admin Portal functionality.

ROLE LIST

Role in KMS Admin Portal defines and refers to user access control for entity to assign function specific roles to various authorised personnel. KMS Admin Portal comes with a SUPER ADMIN user access by default for company to start operating CryptoBind KMS. This super admin can further create the separate users for specific roles. While creating User Roles, admin has to select the actual features which the user with this new role will be accessing.

Existing user Role List can be fetched using this menu. New role can be added by clicking on Add button.

Below shown is the snapshot for Role List under User Management

2 Dashboard User Management	User Manag	gement		😤 / User Management / Role List
O User List	User Roles			Add New Role 🔀 Excel 🖹 PDF
O Role List				
🔑 Key Management 🛛 <	Search:			Show 10 ¢ entries
locations	Sr No		Created On	1 Actions 1
X Application Deboarding	31 140.			
🏾 Tokenization 🛛 🗸		All ACCESS	05/04/2023 05.17.03 PM	
🛢 TDE Management \prec	2	standard2	27/07/2023 06:22:24 PM	IE
🗱 Configuration 🛛 🖌				
Æ Logs 〈	3	Standard	25/05/2023 12:19:34 PM	IE
	4	standardl	29/05/2023 03:10:01 PM	I
	5	Approver	29/05/2023 03:15:59 PM	E
	6	standard5	27/09/2023 10:01:57 PM	I
	7	Swati	09/10/2023 03:43:06 PM	=
	8	standard3	25/08/2023 07:03:04 PM	

Fig 16 Fetch Role List

To see the role list, admin may follow below mentioned steps:

- 1. Go to **User Management** (Considered if user is logged in to any other module of KMS Admin Portal at present)
- 2. Click on Role List tab inside User Manager tab
- 3. The user will now be redirected onto Role List page.
- 4. Below mentioned details are shown on the Role list tab
 - a. Role Role name





- b. User Type User type viz Standard, Management
- c. Created On Role creation date
- 5. By clicking on eye icon under Action column, user can see features assigned to that particular role.

CREATE ROLE

To create a new role, admin may follow below mentioned steps

- 1. Go to User Management (Considered if user is logged in to any other module of KMS Admin Portal at present)
- 2. Go to Role List tab inside User Manager tab
- 3. The user will now be redirected onto Role List page.
- 4. Click on **Add** button given on the right side of your screen

Dashboard	User Mana	agement		🐐 / User Management / Role List
💄 User Management 👻		-		
O User List	User Roles			Add New Role 🔀 Excel 🖹 PDF
O Role List				
👂 Key Management 🛛 🖌	Search:			Show 10 ¢ entries
& Applications	Sr No		Created On	1 Actions 1
X Application	51 140.	NOIS NOTING		Actions
Deboarding	1	All Access	05/04/2023 05:17:03 PM	I
🛱 Tokenization 🛛 🖌				
🛢 TDE Management <	2	standard2	27/07/2023 06:22:24 PM	=
🗱 Configuration 🖌				
Æ Logs ≮	3	Standard	25/05/2023 12:19:34 PM	i=
	4	standardl	29/05/2023 03:10:01 PM	≣
	5	Approver	29/05/2023 03:15:59 PM	E
	6	standard5	27/09/2023 10:01:57 PM	E
	7	Swati	09/10/2023 03:43:06 PM	=
	8	standard3	25/08/2023 07:03:04 PM	

Fig 17 Add Role Button

- 5. Admin shall enter the Role name
- 6. Select the tabs/ features to be assigned for that role.
- 7. Click on Save.

Below shown is the snapshot for Create Role under User Management





Dashboard User Management	User Management		🕋 / User Management / Role List / Add Role
O User List	Role Details	Role Permissions	
Key Management <	Role Name	User Management	^
Applications		Key Management	~
Deboarding		Application	~
TDE Management		Tokenization	~
😂 Configuration <		Configuration Management	^
徑 Logs 🛛 🖌		Logs	~
			Back Save
			powered by CryptoBind*
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Fig 18 Add Role





USER LIST

Existing user list can be fetched using *User Management>>User List* menu. You can also click on Add button to create or add new user.

Below shown is the snapshot for User List under User Management

 Dashboard User Management 	~	User Mar	agement						🏶 User Management / User	⊁r List
O User List O Role List		Users List							d New User 🛛 🖹 Excel 📓 Pi	PDF
Key Management Applications	<	Search:							Show 10 ≎ ent	tries
		Sr. No 11	Name	TI Email	Role Name	Туре	KMIP Access	Status	Actions	
조 Tokenization	<	1	Appres 1, 1	(1,1) = (1,1) = (1,1) = (1,1)	Approver	Approver	Not Allowed	Active	2 盲 🏜	
TDE Management Configuration	< <	2	C ^{alance} at an and	1 - 10 alla - Cuoncom	standard2	Standard	Not Allowed	Active	2	
æ Logs	<	3			All Access	Super Admin	Allowed	Active	c 🔋 🏜	
		4	roau.	transparationer	Standard	Standard	Allowed	Active	2	
		5	CtandardE	·	standard5	Standard	Not Allowed	Active	6	
		6		t - Line contain	Swati	Standard	Not Allowed	Active	c 🔋 🏜	
		7	<u>ٿي ''</u>		Standard	Standard	Not Allowed	Active	Devered by	
		8	<u></u>	: '	Standard	Standard	Not Allowed	Active		nd*

Fig 19. User List

To see the user list, admin may follow below mentioned steps:

- 1. Click on **User Management** (Considered if user is logged in to any other module of KMS Admin Module at present)
- 2. Go to User Registration tab inside Admin Module tab
- 3. The user will now be redirected onto User List page.
- 4. Below mentioned details are shown on the user list tab
 - a. User Name Registered email ID which can be used for logging into the KMS Admin Portal
 - b. Display Name
 - c. Contact
 - d. Role
 - e. User Type
 - f. Actions By clicking on the edit icon (given under **Action** column) the admin can update existing user information.





ADD USER

To add new user, admin may follow below mentioned steps:

- 1. Go to **User Management** (Considered if user is logged in to any other module of KMS Admin portal at present)
- 2. Click on User Registration
- 3. Go to User List tab inside User Manager tab
- 4. The user will now be redirected onto **User List** page.
- 5. Click on Add button (given on right side of your screen)

 Dashboard User Management 	User Mar	nagement					â	/ User Management / U	Jser List
O User List O Role List	Users List						Add	New User 🚺 Excel 📔	PDF
Key Management < & Applications	Search:							Show 10 \$	entries
	Sr. No	Name	14 Email	11 Role Name	ті Туре	KMIP Access	14 Status	11 Actions	
Deboarding	1	Approx. 1, 11		Approver	Approver	Not Allowed	Active	2	
TDE Management < Configuration <	2	5 ****************	r i anetter ésonoom	standard2	Standard	Not Allowed	Active	2 1	
Æ Logs 🖌 🕻	3		in@linenoft	All Access	Super Admin	Allowed	Active	2 1	
	4	roating	tr i diggi soonoone :	Standard	Standard	Allowed	Active	2 1	
	5	Ctandard ^r	·	standard5	Standard	Not Allowed	Active	2	
	6	ondu	1	Swati	Standard	Not Allowed	Active	2	
	7	<u>۾</u> ن "		Standard	Standard	Not Allowed	Active	Dowered by	
	8	<u></u>	! 'എത്രംപ്	Standard	Standard	Not Allowed	Active	Crypto	3ind*

Fig 20. Add new user button

6. Admin will be redirected to Add User page



🔀 Dashboard		User Management	😚 / User Management / User List / Add user
🐣 User Management	~	oser Management	- ,,,
O User List		Add User	
O Role List			
🔎 Key Management	۲.	Enable Active Directory User	
& Applications			
X Application Deboarding		Email address	Display Name
Tokenization	<		User Type
🛢 TDE Management	۲.	Mobile Number	Select User Type 🗸
🗘 Configuration	۲.	- Role	
Æ Logs	<	Select Role +	Do You Want To Register With KMIP Server?
			Back Sove
			💟 JISA
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- 1. Enter below user details as given on your screen:
 - a. Email- Enter user email address
 - b. Display name Enter user's name to be displayed on screen on top right corner.
 - c. Mobile Number
 - d. User Type
 - e. Role Role to be assigned to the new user
- 2. Once the data is entered click on Save button
- 3. Admin will be now redirected to User List page





KEY MANAGER

Using Key Management facility admin can control core functionality of DSS i.e. creation, storage and retrieval of crypto keys.

With this user will be able to Generate new keys & List existing keys.

SECRET

- Secret Name
- Secret Data

🔁 Dashboard 💄 User Management 🛛 🖌	Secret	🎓 / Key Management / Secret
🔎 Key Management 🛛 🗸	Secret	
O Secret		
O Key List	Secret Name	
O Key Discovery Request	Secret Data	
O Key Import		
О вуок		
O Keys Approval		
locations		Back
& Application Deboarding		
Tokenization <		
🛢 TDE Management 🔇 🕻		
📽 Configuration 🛛 🖌		
Æ Logs 🖌 🖌		
		JISA
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Fig 22. Secret Data





KEYS LIST

Key list tab lets user maintain the record of the generated keys from KMS Admin Portal

Below shown is the snapshot for Keys List screen under Keys Management module.

Dashboard	Koylis	+							💣 / Key Management / Key List
💄 User Management <	Key LIS								
🔎 Key Management 🛛 🗸	KMIP	PKCS#11							
O Secret									
O Key List	Search f	or Key-labe Q Reset							Add New Key 📓 Excel 📓 PDF
O Key Discovery Request									Show 50 ¢ entries
O Key Import	Scho	Key I g bel	Key Algorithm	Sizo	Key Type	Origin	Perceptoge	Source	Actions
О вуок	51 NO.	Key Lubel	Key Algonanin	5120	кеутуре	Ongin	Percentage	Source	Actions
O Keys Approval	1	keytestsbil2345	RSA	2048	PrivateKey	cloned: UAT1	NA	KMIP	
locations									
X Application Deboarding	2	Testbfhgssbiuatl	AES	256	SymmetricKey	cloned: UAT1	NA	KMIP	0 b
Tokenization <	3	Testkeysbi213	AES	256	SymmetricKey	cloned: UATI	NA	KMIP	. ■
TDE Management									
	4	TestKey1103UAT1	AES	256	SymmetricKey	cloned: UAT1	NA	KMIP	
r= Logs K	5	Test070324	RSA	2048	PrivateKey	cloned: UAT1	NA	KMIP	0 II b b
	6	Test0503	RSA	2048	PrivateKey	generated	100	KMIP	0 II b II II
	7	UATIJVLKEYI	AES	256	SymmetricKey	cloned: UAT1	NA	KMIP	Powered by CryptoBind*
	8	Testservicel	AES	256	SymmetricKey	cloned: UAT1	NA	KMIP	0 b , t

Fig 23. Key List

To list the generated keys, user may follow below mentioned steps

- 1. Go to **Keys Management** (Considered if user is logged in to any other module of KMS Admin Portal at present)
- 2. Click on Keys List
- 3. The user will now be redirected onto Keys List page
- 4. The page displays below mentioned information
 - a. Sr. No
 - b. Key Label Also referred to as key alias and key name
 - c. Algorithm
 - d. Key Length
 - e. Key Type (RSA/AES/EC)
- 5. User can also redirect to the Generate Key page by clicking onto the **Add** button located on top right end of the page.





GENERATE KEY

- 1. Go to **Key Manager** (Considered if user is logged in to any other module of KMS Admin Portal at present)
- 2. Click on Keys List
- 3. Go to Add tab inside Key Manager

Dashboard	Key Lis	t							😤 / Key Management / Key List
🛎 User Management <	KMIP	PKCS#11							
O Secret	Search fr	or Key-labe Q Reset							Add New Key 📓 Excel 📓 PDF
O Key List									Show 50 ¢ entries
О кеу Import О вуск	Sr No.	Key Label	Key Algorithm	Size	Кеу Туре	Origin	Percentage	Source	Actions
O Keys Approval	3	keytestsbil2345	RSA	2048	PrivateKey	cloned: UATI	ΝΑ	КМІР	
& Applications	2	Testbfhgssbiuatl	AES	256	SymmetricKey	cloned: UAT1	NA	КМІР	0 b .
Tokenization (3	Testkeysbi213	AES	256	SymmetricKey	cloned: UATI	NA	KMIP	•
Configuration	4	TestKey1103UAT1	AES	256	SymmetricKey	cloned: UATI	NA	КМІР	0 e , i
Æ Logs 〈	5	Test070324	RSA	2048	PrivateKey	cloned: UATI	NA	KMIP	• = b , b
	6	Test0503	RSA	2048	PrivateKey	generated	100	KMIP	• = b
	7	UATIJVLKEYI	AES	256	SymmetricKey	cloned: UATI	NA	KMIP	Prowered by CryptoBind*
	8	Testservicel	AES	256	SymmetricKey	cloned: UAT1	NA	KMIP	0 B 1

Fig 24. Add New Key Button

- 4. The user will now be redirected onto Generate Key page
- 5. Enter key label Refers to key alias/ key name.
- 6. Select key type Refers to key algorithm
 - a. RSA algorithm
 - b. AES Algorithm
 - c. EC Algorithm
- 7. Select key size Refers to key size
 - a. RSA Key Size 1024 bits, 2048 bits, 3072 bits, 4096 bits
 - b. AES Key Size 128 bits, 192 bits, 256 bits
 - c. EC Key Size secp256k1
- 8. Once the data is entered, click on **Save** button



🙆 Dashboard	Add Key	🌋 / Key Management / Key List / Add Key
💄 User Management	Add Ney	, top management , top bot , had top
🔎 Key Management	- Add-Key	
O Secret		
O Key List	Key Label	
O Key Discovery Reques	Key like mise	
O Key Import	O Tokenization Sianing DE	
О вуок		
O Keys Approval		
la Applications	Astrineuro	
& Application Deboarding	C AES	
Tokenization	Key Size	
🛢 TDE Management	Select Key Size	~
😂 Configuration	< Key Usage	
Æ Logs	< 🔽 Sign 🔽 Verify 🔽 Encrypt 🔽 Derivekey 💟 Decrypt 🔽 Wrapkey 🔽 UnwrapKey	
	Owner ID	
	Select Key Owner ID	·
		Deek Pare
		DUCK SUVE
		🚺 JISA
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Fig 25. Add Key

9. The key is now generated. Go to List and check the entry for your generated key

)





KEY DISCOVERY REQUEST

DISCOVER BY- HOSTNAME/IP ADDRESS

To Discover by Hostname / IP Address follow below steps

🙆 Dashboard	Key Management	🐔 / Key Management / Key Discovery Job
💄 User Management \prec	Key Multugenient	
 Key Management Secret 	Discover-by O Hostname / IP Address O IP Address Range From File Subnet	
O Key List O Key Discovery Request	Hostname / IP Address	
O Key Import	Time-Out	
О вуок	Seconds per resouce	
 Keys Approval Applications 	Port	
X Application Deboarding	Select Landing Server v	
Tokenization <	UserName	
Configuration	Password 🍋	
Æ Logs ∢	Bock Discover	
		powered by CryptoBind*
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Fig 26. Key Discover - Host name/ IP Address

- 1.Follow below mentioned steps -
- a) Enter Host name / IP Address
- b) Enter the Time Out
- c) Enter the Port
- d) Select the landing server
- e) Click on the **Discover** button





DISCOVER BY - IP ADDRESS RANGE

To Discover by IP Address Range follow below steps

🔁 Dashboard	Key Management	😤 / Key Management / Key Discovery Job
Key Management Secret	Discover-by Hostname / IP Address O IP Address Range From File	Subnet
O Key List O Key Discovery Request	Start IP	
О Key Import О вуок	End IP	
O Keys Approval	Exclude IP Address	
Application Deboarding	Time-Out	
Fokenization TDE Management Optimization	Seconds per resouce Port	
Æ Logs <	Landing Server	
	UserName	
	Password	
	Back Discover	U JISA

Fig 27. Key Discover and IP Address Range

- 1.Follow below mentioned steps -
- a) Enter the Start IP
- b) Enter the End IP
- c) Enter the Exclude IP Address
- d) Enter Time Out
- e) Enter the Port
- f) Select the appropriate Landing Server from the drop-down menu
- g) Click on the **Discover** button





DISCOVER BY- FROM FILE

To Discover by From File follow below steps

ಔ Dashboard ≜ User Manaaement ∢	Key Management	🐐 / Key Management / Key Discovery Job
Key Management Secret	Discover-by Hostname / IP Address I IP Address Range Subnet	
O Key List	Choose file Browse	
Key Discovery Request Key Import BYOK Keye Approval	Time-Out Seconds per resouce Landing Server Select Landing Server	
Application Deboarding	UserName	
Tokenization <	Password Real Discover	
ta Logs ∢		
		🚺 JISA
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Fig 28. Key Discover – From File

- 1.Follow below mentioned steps -
- a) Choose the file by clicking on the browse button.
- b) Enter the Time Out
- c) Select the landing server
- d) Click on the **Discover** button





DISCOVER BY - SUBNET

To Discover by the Subnet follow below steps -

🔁 Dashboard	Koy Management	/ Key Management / Key Discovery Joh
💄 User Management <	key Management	
🔎 Key Management 🛛 🗸		
O Secret	DISCOVER Dy Hostname / IP Address Range From File Subnet	
O Key List	IP Address [CIDR Format]	
O Key Discovery Request	, research and rese	
O Key Import	Eveluate ID Addresse	
О вуок	Exclude IP Address	
O Keys Approval	One IP-Address line	
& Applications	Time-Out	
X Application Deboarding	Seconds per resouce	
🛣 Tokenization 🛛 🖌	Port	
🛢 TDE Management <	Landing Server	
🗱 Configuration 🛛 🖌	Select Landing Server 👻	
Æ Logs 🛛 🕻	UserName	
	Password	
	Bock Discover	
		CryptoBind*

Fig 29. Key Discovery Subnet

- 1.Follow below mentioned steps -
- a) Enter the Start IP
- b) Enter the Exclude IP Address
- c) Enter the Time Out
- d) Enter the Port
- e) Select the landing server
- f) Click on the **Discover** button





KEY IMPORT

- The user will now be redirected to the Key Import Page as shown in figure 30
- a) Enter the "key-size" and the "key algorithm" in the key filter which is at the top.
- b) Select the key label from the results
- c) After selecting the key label, select the key-owner and key-usage by clicking on the drop down button.
- d) Click on preview button

🔁 Dashboard	Key Management	😚 / Key Management / Import Keys
💄 User Management 🛛 🖌	Roy Management	
🔎 Key Management 🛛 🗸	Keys	🖹 Excel 🚺 PDF
O Secret		
O Key List	Search:	Show 10 \$ entries
O Key Discovery Request		
O Key Import	TI Sr.No. TI Key Label TI Key Type TI Key Size TI Key Source TI Key-Owner TI Key-UseCase	11 Key-Usage 11
О вуок	No data available in table	
O Keys Approval		
locations	Showing 0 to 0 of 0 entries	Previous Next
X Application Deboarding		Reset
🛪 Tokenization 🛛 🗸		
🛢 TDE Management <		
🗱 Configuration 🛛 🖌		
Æ Logs 🗸		
		🚺 JISA
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BYOK - BRING YOUR OWN KEY

The user will now be redirected to the BYOK Page as shown in figure 31

- a) Select Key Type
- b) Select the Certificate File by clicking on the "Choose File" button
- c) Enter your password
- d) Click on Save button

🙆 Dashboard	Kovo Managar	 Key Management / Bring your own key
💄 User Management	keys Multuger	, key waragement / bing you own key
🔑 Key Management	Bring Your Own Key	
O Secret	C Key Type	
O Key List	Select Key Type 🗸	
O Key Discovery Reques	- Select Certificate File	
O Key Import	Choose File No file Chosen Password	2
О вуок	Key use case	
O Keys Approval	O Tokenization Signing TDE	
locations 🕹	Key Usage	
X Application Deboarding	🗸 Sign 🖌 Verify 💙 Encrypt 🔽 Derivekey 🔽 Decrypt 🔽 Wrapkey 🔽 UnwrapKey	
Tokenization		Back Save
🛢 TDE Management		
🗱 Configuration		
Æ Logs		
		🚺 JISA
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Fig 31. BYOK – Bring Your Own Key





HYOK

Below mentioned are the supported key management ownership in various public cloud by JISA's KMS

AesTdeTest256					
loud Providers (Select One)					
aws 📐 🤇		0		Latestare	
AWS	Azure	G	CP	Oracle	Salesforce
AWS - USEdst1					×
	rmissions		Define Key Usage	e permissions	
Define Key Administrative Pe		Select Permiss	ions	Ť	
Define Key Administrative Pe Select Permissions					
Define Key Administrative Pe Select Permissions ey Usage					
Define Key Administrative Pe Select Permissions ey Usage Encrypt_Decrypt G	enerate_Verify_MAC				
Define Key Administrative Pe Select Permissions ey Usage Encrypt_Decrypt Gr hable Multi-Region?	enerate_Verify_MAC				C


KEY APPROVAL

Key Approval list for who will be delete the keys.



Fig 32. Key Approval

)





APPLICATIONS

Using Applications facility admin can control core functionality of DSS i.e. Register and Manage applications

VIEW APPLICATION LIST

🔁 Dashboard 💄 User Management	<	Applicat	ions					Application / Applications List
Key Management & Applications	۲	Registered A	applications				Regist	er Application 🛛 Excel 📓 PDF
Application Deboarding		Search:						Show 10 ¢ entries
Tokenization	۲	Sr No.	Application Name	On-Board	VaultBased Tokenization	Enable/Disable	Connector Type	Actions
TDE Management Configuration	د د	1	UAT2-JVL-APP2	Completed	Disabled		KMIP	⊘ C' [*]
Æ Logs	٢	2	UAT2-JVL-APP3	Completed	Enabled		KMIP	● C[*]
		3	UAT2-JVL-APP4	Policy not registered	Disabled		KMIP	 ● C⁴
		4	UAT2-JVL-APP5	Completed	Disabled		KMIP	⊘ C'
		5	TESTSWATI	Completed	Disabled		KMIP	⊘ C
		6	UAT2-JVL-APP6	Completed	Disabled		KMIP	⊘ C ■
		Showing I to 6	6 of 6 entries					Previous 1 Next
								CryptoBind*

Fig 33. Register Application List

The user will now be redirected to the Applications Page, displaying the following details viz. Refer figure 34

- a) Application name
- b) On-Board Status of the applications
- c) Vaultbased Tokenization enabled / disabled status can be viewed
- d) Vaultbased Tokenization can be enabled or disabled by clicking the button under Enable/Disable column
- e) There are three buttons under the Action column :
- 1. View This button helps to view and edit the Application IPs
- 2. Resend Credentials This button helps to send application credentials file on the respective user email





REGISTER APPLICATION

1. Clicking on the Register Application button, located at the top of the **Application List** page viz. Refer figure 32

2. Once user is redirected to **Register New Application** page viz. Refer figure 32, enter below mentioned details:

- a) Enter the Application Name
- b) Enter the Application IP's
- c) Click on the "Enable Vaultbased Tokenization" button in order to enable vaultbased tokenization for the

application which will be added.

d) Click on Save button

孢 Dashboard		Register New Application	Application / Applications List / Add Application
💄 User Management	۲.	Register New Application	· / Application / Applications List / Add Application
🔎 Key Management	۲.	Application Details	
👶 Applications			
X Application Deboarding		Application Name	
Tokenization	۲.	Application IP's	
🛢 TDE Management	۲	Please enter comma separated IP address. (ex. 127.0.0.1/27.0.0.1/24)	
🛱 Configuration	۲	Enable Vaultbased Tokenization	
Æ Logs	۲		
		Connector Type Select Connector Type	~
			Back Save
			S JISA
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Fig 34. Register New Application



APPLICATION DEBOARDING



Application Deboarding List

- Serial number
- Application Name
- Required Approval
- Approved By
- Rejected By
- Added On
- Action



Fig 35. Application Approval List



TOKENIZATION



KEYS

1. User will be now redirected to Keys page as shown in figure 36

- 2. Following details are mentioned in the keys page :
- a) Key Name
- b) Key Size

3. In order to export the key list in Excel or PDF format, the user can click on the button in the upper-right corner.

Dashboard User Management <	Tokenization			I Tokenization / Key List
Key Management < Applications	Keys			📓 Excel 🚺 PDF
& Application Deboarding	Search:			Show 10 ¢ entries
🛪 Tokenization 🗸 🗸	Sr No.	11 Name	11 Size	
Keys Access Configuration	1	TestRSA20	2048	
O Token Manager O Policy Management	2	TestRSA23	2048	
DB Configuration	3	TestRSA27	2048	
Configuration <	4	TestRSA28	2048	
	5	TestRSA29	2048	
	6	TestRSA30	2048	
	7	TestAES37	256	
	8	TestAES41	256	U JISA



ACCESS CONFIGURATION

1. The following details about the application user are visible on the Access Configuration page:

- A) Name
- B) Email Address
- C) Mobile Number
- D) Actions -
- View -
- Send Password Reset Link -
- Edit -
- Delete -

E) In order to export the application user's list in Excel or PDF format, the user can click on the button in the upper-right corner



Dashboard		Applicatio	on lleore				/ Tokenization / Access Configuration
💄 User Management	<	Applicutic	on users				
🔑 Key Management	<	Application Use	ers				Register User 🔯 Excel 📓 PDF
& Applications							
X Application Deboarding		Search:					Show 10 ¢ entries
Tokenization	~	Sr No.	Application	11 User	Mobile No	Detokenize Access Level	11 Actions 11
О Кеуз		1	UAT2-JVL-APP6	uat2jvlkey6@jisasoftech.com	1234567890	Full Access	r • C 📋
O Access Configuration							
O Token Manager		2	TESTSWATI	swati@sbi.in	9999999999	Full Access	Z • C i
O DB Configuration		3	UAT2-JVL-APP5	uat2jvlkey5@jisasoftech.com	9856942352	Full Access	2 • C
🛢 TDE Management	۲						
Configuration	<	4	UAT2-JVL-APP4	uat2jvlkey4@jisasoftech.com	9856421059	Full Access	E • C 1
≔ togs	Ì	5	UAT2-JVL-APP3	uat2jvlkey3@jisasoftech.com	9856588956	Full Access	r 🛛 C
		6	UAT2-JVL-APP2	uat2jvlkey2@jisasoftech.com	1234567890	Full Access	B O C I
		Showing 1 to 6 of	f 6 entries				Previous 1 Next
							CryptoBind*

Fig 37. Access Configuration

REGISTER APPLICATION USER

- 1.Enter below user details as given on your screen:
- A) User Name
- **B)** Application Name
- C) Mobile Number
- D) Detokenize Access Level
- E) Alert Emails
- F) Click on save button



🙆 Dashboard	Pagistar Application Usar	A Tokenization / Access Configuration / Degister Application User
💄 User Management \prec	Register Application user	
🔑 Key Management <	Application User Details	
locations		
X Application	User Name	Mobile Number
Deboarding	- Application Name	Detokenize Access Level
🎝 Tokenization 🗸 🗸	Select Application -	Select Access Level 🗸
O Keys	Alext Tour allo	
O Access Configuration	Alert Emails	
O Token Manager	Please enter comma separated email address	
O Policy Management		
O DB Configuration		Back
🛢 TDE Management <		
🗱 Configuration 🛛 🖌		
Æ Logs 🗸		
		SISA SISA
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Fig 38. Register Application User

TOKEN MANAGER

1. The following details about the Available Token Rules are visible on the Token Manager page:

- a) Token Name
- b) Input Length
- c) Reference Key Type
- d) Preserver / Padding
- e) Key
- f) Actions -
- Keys Rotation -
- Delete -

2.In order to export the Available Token Rules in Excel or PDF format, the user can click on the Excel/PDF button in the upper-right corner



🐮 Dashboard	Token M	anager					🌴 / Tokenization / Token List
🔑 Key Management <	Available To	ken Rules				Add Ne	w Rule 🔀 Excel 📓 PDF
& Applications	Search:						Show 10 ¢ entries
Deboarding	Sr No.	1 Token Name	11 Input Length	Reference Key Type	Preserver/Padding	⊺⊥ Кеу	Actions TL
	1	UAT2-JVL-TOK2	JSON	Preserve Format	No Padding	UAT2-JVL-KEY2	C
O Token Manager	2	UAT2-JVL-TOK3	JSON	Preserve Format	No Padding	UAT2-JVL-KEY3	C
O Policy Management O DB Configuration	3	UAT2-JVL-TOK5	JSON	Preserve Format	No Padding	UAT2-JVL-KEY5	C
TDE Management < Configuration <	4	tokenSwati	JSON	Preserve Format	No Padding	SwatiTest	C'
Æ Logs ✓	5	UAT2-JVL-TOK6	JSON	Preserve Format	No Padding	UAT2-JVL-KEY6	C
	Showing 1 to 5	5 of 5 entries					Previous 1 Next
	Copyright © 202	4 JISA SOFTECH PVT. LTD. All	rights reserved.				Version 1.1.0

Fig 39. Token Manager

ADD NEW RULE

- 1.Enter below user details as given on your screen:
- a) Token Name
- b) Select Encryption Key
- c) Select Preserver/Padding
- d) Salt
- e) Select Input Length
- f) Select Reference Key type
- 2).Click on save button

)



	☆ / Tokenization / Token List / Add Token	
Length	~	
уре		

孢 Dashboard	Add New Token Rule	I Tokenization / Token List / Add Token
💄 User Management 🛛 🖌		
🔑 Key Management <	Token Rule Details	
& Applications		
X Application	Token Name Salt	
Deboarding	Encryption Key Input Length	
🛪 Tokenization 🖌 👻	Select Encryption Key	~
О кеуз	Preserver/Padding Reference Key Type	
O Access Configuration	Select Reserver/Padding	·
O Token Manager		
O Policy Management		Back Save
O DB Configuration		
🛢 TDE Management <		
🗱 Configuration 🛛 🕻		
Æ Logs 🗸		
		U) JISA
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Fig 40. Add New Token Rule



POLICY MANAGEMENT

1. The following details about the Available Token Rules are visible on the Token Manager page:

- a) Policy Name
- b) Application Name
- c) Token Name

d) Actions - Delete - This button helps to delete a a specific reference policy

2.In order to export the Available Reference Policy in Excel or PDF format, the user can click on the Excel or PDF button in the upper-right corner

Dashboard Liser Management	Policy Manager				st
Key Management <	Available Reference Policy			Add New Policy 🕅 Excel 🐧 PDF	
& Applications					
& Application Deboarding	Search:			Show 10 \Rightarrow entries	
🏾 Tokenization 🗸 🗸	Sr No.	Policy Name	Application Name	Token Name	
O Keys O Access Configuration	1	UAT2-JVL-POC2	UAT2-JVL-APP2	UAT2-JVL-TOK2	
O Token Manager O Policy Management	2	UAT2-JVL-POC3	UAT2-JVL-APP3	UAT2-JVL-TOK3	
DB Configuration TDE Management	3	UAT2-JVL-POC5	UAT2-JVL-APP5	UAT2-JVL-TOK5	
Configuration	4	POLICYSWATI	TESTSWATI	tokenSwati	
≔ Logs K	5	UAT2-JVL-POC6	UAT2-JVL-APP6	UAT2-JVL-TOK6	
	Showing I to 5 of 5 entries			Previous 1 Next	
				🚺 JISA	,
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ADD NEW POLICY

- 1.Enter below user details as given on your screen:
- a) Policy Name
- b) Select Application
- c) Select Token Rule
- 2.Click on save button

🔁 Dashboard 🚔 User Management <	Add New Reference Policy	🏶 / Tokenization / Policy List / Add Policy
👂 Key Management 🔍	Reference Policy Details	
& Applications		Registered Application
X Application Deboarding	Policy Name C Available Token Rule	Select Application
🛣 Tokenization 👻	Select Token Rule	
О кеуз		
O Access Configuration		Bock Save
O Token Manager		
O Policy Management		
O DB Configuration		
🛢 TDE Management 🛛 🖌		
🛠 Configuration 🛛 🖌		
⊞ Logs <		
		🚺 JISA
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Fig 42. Add New Reference Policy





DB CONFIGURATION

- 1. The following details about the **Database Configuration** are visible on the page:
- a) Application
- b) DB Type
- c) DB Name
- d) DB UserName
- e) DB IP Address
- f) DB Port
- g) Read DB IP Address
- h) Read DB Port

🙆 Dashboard	Database Configuration 4 / Jokenia	ation / DB Configuration List
💄 User Management \prec		ation / bb configuration list
🔑 Key Management 🛛 <	Database Configurations Add Configura	tion 🖹 Excel 📙 PDF
langle Applications		
X Application Deboarding	Search:	Show 10 🗢 entries
🛣 Tokenization 🗸 🗸	Sr No. 11 Application 11 DB Type 11 DB Name 11 DB UserName 11 DB IP Address 11 DB Port 11 Read DB IP Address 11 Read DB port	TL Actions
О кеуз	1 IIAT2- IVI-APP3 PostareSOI ekmsrlh postares 1017731165 5432 1017731165 5432	
O Access Configuration		
O Token Manager	Showing 1 to 1 of 1 entries	Previous 1 Next
O Policy Management		
O DB Configuration		
🛢 TDE Management <		
📽 Configuration 🛛 🖌		
Æ Logs 🗸		
		🚺 JISA
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Fig 43. DB Configuration

ADD DB CONFIGURATION

- A) Application Name
- B) Database Type
- C) IP Address
- D) Database Name



- E) Database Username
- F) Database Password
- G) Database Port

Read from DB Configuration:

A) IP Address

B) Port

Dashboard	Add Database Configuration		😤 / Tokenization / DB Configuration List / Add DB Con	figuration
🚢 User Management \prec				
🔑 Key Management \prec	Write to DB Configuration			
locations	Application Name	Database Type		
X Application Deboarding	Select Applications *	Select Database Type	IP Address	
Tokenization 🗸	Database Name	Database UserName	Database Password	8
О кеуз	2-there and			
O Access Configuration	Database port			
O Token Manager	Read From DB Configuration:			
O Policy Management	IP Address	Port		
O DB Configuration				
🛢 TDE Management 🛛 🖌			Back	Save
🛠 Configuration <				
Æ Logs ≮				
			Ū) J	ISA
	Copyright © 2024 JISA SOFTECH PVT. LTD. All rights reserved.			Version 1.1.0







TDE MANAGEMENT



GROUP LIST

1. The following details about the **Groups** are visible on the page:

a) Name

- b) Created On
- c) Actions Change Group:

🔁 Dashboard	Groupo				Annagement / Groups
💄 User Management \prec	Groups			7 10210	lanagement / oroups
🔎 Key Management 🛛 🖌	Group List			Add Group	🖹 Excel 🔀 PDF
locations					
X Application Deboarding	Search:				Show 10 🗢 entries
Tokenization <	Sr No. TL No	ime 11	Created On	Actions	
🗧 TDE Management 🛛 🗸			No data available in table		
O Groups					
O Registered client	Showing 0 to 0 of 0 entries				Previous Next
O TDE Client					
O Restore TDE Client					
O TDE Scheduled Task					
O Unregistered Database					
🗱 Configuration 🛛 🖌					
Æ Logs 🗸 🗸					
					U JISA
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REGISTERED CLIENT

- 1. The following details about the **Registered Clients** are visible on the page:
- a) Group Name
- b) Instance
- c) IP Address
- d) Status



2 Dashboard	Pagistarad alianta			
💄 User Management 🛛 <	Registered clients			
🔑 Key Management 🛛 <	Group Name			
& Applications	No Group +			
X Application Deboarding				
🛪 Tokenization 🛛 🖌	Client List			Register Client 🔀 Excel 🖹 PDF
🛢 TDE Management 🗸				
O Groups	Search:			Show 10 ¢ entries
O Registered client	Sr. No. 👘 Group Name	11 Instance	IP Address	11 Status 11
O TDE Client				
O Restore TDE Client		No data available ir	n table	
O TDE Scheduled Task				
O Unregistered Database	Showing 0 to 0 of 0 entries			Previous Next
📽 Configuration 🛛 <				
æ Logs ∢				
				JISA
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Fig 46. Registered Client List

2..Click on **Register Client** button in the upper-right corner in the **Registered Clients** page. viz. Refer Figure 46

- 3.. User will be now redirected to Register Client Service page as shown in figure 45
- 4.. Below mentioned details must be entered in the **Register Client Service** page:
- a) Select Group
- b) Enter Certificate Name
- c) Enter Instance Name
- d) SSL Enabled (Yes/No)
- 5. Click on save button



🙆 Dashboard		Register Client Service		
💄 User Management 🛛 <	Registered clients	Group Name		😤 / TDE Management / Registered clients
🔑 Key Management 🛛 <	- Group Name	No Group	•	
	No Group	Enter Certificate Name		
X Application Deboarding		Enter Service IP Address	SSI Engbled?	
	Client List	- An 2011 And Andrew (11) - Electronization		Register Client 🔀 Excel 📓 PDF
🛢 TDE Management 😽		Enter Instance Name		
	Search:			Show 10 ¢ entries
O Registered client	Sr. No.		Class	TI Status TI
			Close	
		No data available in tab	le	
				Territory Aug
	Showing 0 to 0 of 0 entries			Previous Next
🕸 Configuration 🛛 <				
				🚺 JISA
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TDE CLIENT

- 1. User will be now redirected to TDE Client Management page as shown in figure 48
- 2. The TDE Client Management has three sections (viz. Refer figure 48) :
- Single Instance TDE Client
- Cluster List
- Registered Cluster Members

🙆 Dashboard	TDE Client Management	/ TDE Client Management
💄 User Management 🛛 🖌		7 The client monogement
🔑 Key Management 🛛 🖌	- Group Name	
& Applications	No Group *	
X Application Deboarding		
🎝 Tokenization 🖌 🕻	Single Instance TDE Client Cluster List Registered Cluster Members	
🗧 TDE Management 🗸 🗸	Configure TR	
O Groups	Congo o te	
O Registered client	Search:	Show 10 ¢ entries
O TDE Client	Sr. No. 11 DB Type 11 Key Name 11 Instance Name 11 DB Port 11 DB Name 11 Encryption Status 11 Progress 11 Rotation Type	Actions
O Restore TDE Client		
O Restore TDE Client O TDE Scheduled Task	No data available in table	
Restore TDE Client TDE Scheduled Task Unregistered Database	No data available in table	
 Restore TDE Client TDE Scheduled Task Unregistered Database Configuration 	No data available in table	Previous Next
O Restore TDE Client O TDE Scheduled Task O Unregistered Database Image: Configuration < Image: Logs <	No data available in table	Previous Next
○ Restore TDE Client ○ TDE Scheduled Task ○ Unregistered Database ☆ Confliguration Æ Logs	No data available in table	Previous Next
Restore TDE Client TDE Scheduled Task Unregistered Database Configuration Configuration Configuration	No data available in table	Previous Next
Restore TDE Client TDE Scheduled Task Unregistered Database Configuration Configuration Configuration	No data available in table	Previous Next
Restore TDE Client TDE Scheduled Task Unregistered Database Configuration Configuration Configuration Configuration	No data available in table Showing 0 to 0 of 0 entries	Previous Next
Restore TDE Client TDE Scheduled Task Unregistered Database Configuration Configuration Configuration Configuration	No data available in table	Previous Next

Fig 48. TDE Client Management





A) Single Instance TDE Client

Below mentioned details are visible in Single Instance TDE Client section -

- a) DB Type
- b) Key Name
- c) Instance Name
- d) DB Port
- e) DB Name
- f) Encryption Status
- g) Progress
- h) Rotation Type
- i) Actions -
- Rotate
- Auto-rotate
- More Options Edit, Change Group, View Keys/Certificates

j) In order to export the Group List in Excel or PDF format, the user can click on the Excel/PDF button in the upper-right corner

ADD TDE CLIENTS

A) Single instance TDE client

1.User must enter below mentioned details in order to add TDE client :

Connection Details -

- a) Select Group Name
- b) Select Database Type
- c) Destination Database Port
- d) Select Database Instance Name
- e) Master Database Username
- f) Master Database Password
- g) Click on connect

Database Details -

- a) Select Database Name
- b) Select Key Name
- c) Click on save button

B) Cluster List -

Below mentioned details are visible in Cluster List (viz. Refer figure 94)-

- a) DB Type
- b) Certificate Name
- c) IP Address
- d) DB Port
- e) DB Name
- f) Encryption Status
- g) Progress
- h) Rotation Type
- i) Task Scheduled
- j) Actions -
- Decrypt





- Rotate
- Auto-Rotate
- More Options : Edit, Change Group, View Keys/Certificates

k) In order to export the Group List in Excel or PDF format, the user can click on the Excel/PDF button in the upside

Dashboard User Management <	TDE Client Management	🐔 / TDE Management / TDE Client Management
 Key Management Applications Application 	Group Name	
Deboarding	Single Instance TDF Client Cluster List Registered Cluster Members	
Green and the second sec		
O Groups	NOTE Before perform any operations on cluster take Transaction Log backup.	
O TDE Client		Configure Cluster
O Restore TDE Client	Search:	Show 10 🜩 entries
O Unregistered Database	Sr. DB Encryption Progress T Address T Port T DB Name Status T Type	Task Actions
ଫ Configuration < ⊞ Logs <	1 MSSQL 8afb044e73b140de4faafoa1d76ac5c0f27a492a 10.9.231.2 1433 TestMirrorTDEI (manypted) Manual 0	e C 2
	2 MSSQL 8afb044e73b140de4faafoa1d76ac5c0f27a492a 10.9.231.2 1433 TestMirrorTDEI Request In Progress Manual 0	
	Showing I to 2 of 2 entries	Previous 1 Next
		U JISA
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Fig 49.TDE Client Management

CONFIGURE CLUSTER

User must enter below mentioned details in order to add TDE client :

Connection Details -

- a) Select Group Name
- b) Select Database Type
- c) Cluster IP/Virtual IP
- d) Destination Database Port
- e) Master Database Username
- f) Master Database Password
- g) Click on Test Connection
- h) Click on connect





Database Details -

- a) Select Database Name
- b) Select Certificate Name
- c) Select Cluster Members
- d) Click on save button

😰 Dashboard 💄 User Management <	Add Cluster		Home / TDE Client Management / Add Cluster
✓ Key Management ✓ ▲ Application ✓ ▲ Application ✓ □ Tokenization ✓ ■ Tokenization ✓	Connection Details Group Name Select Group Name	Database Type Select Database Type Master Database UserName	Cluster IP/Virtual IP Master Database Password Test Connection Connect
O Groups O Registered client O TDE Client	Database Details Connection Status: Disconnected		
Restore TDE Client TDE Scheduled Task Unregistered Database Configuration	Database Name Select Database Name 🗸	Certificate Name Select Certificate Name	Cluster MembersSelect Cluster Members
Æ Logs ∢			Back Sove
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C) Registered Cluster Members -

Below mentioned details are visible in Registered Cluster Members Section -

- a) DB Type
- b) Instance Name
- c) DB Port
- d) DB Name
- e) Actions -
- Change Group -
- Enter Group Name
- Click on save button
- Delete



孢 Dashboard	TDE Client Management		/ TDE Management / TDE Client Management
💄 User Management \prec	The client Multidgement		, ist management , ist enert management
🔑 Key Management 🛛 <	Group Name		
lacktrian Applications	vo group *		
X Application Deboarding			
🏾 Tokenization 🛛 🗸	Single Instance TDE Client Cluster List Registered Cluster Members		
 TDE Management Groups 	Search:		Show 🗵 🗢 entries
O Registered client	Sr. No. 🕅 DB Type 🕮 Instance Name	DB Port	DB Name 🕮 Actions
O TDE Client			
O Restore TDE Client		No data available in table	
O TDE Scheduled Task			Durlar Hert
O Unregistered Database	Showing 0 to 0 of 0 entries		Previous Next
🛠 Configuration 🛛 🔇			
f≣ logs ∢			
			🚺 JISA
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RESTORE TDE CLIENT

- 1. Click on Restore TDE Client
- 2. The user will be now redirected to **Restore TDE Clients** Page

😰 Dashboard 🌲 User Management 📢	Restore TDE Clients	希 / TDE Management / Restore TDE Clients
Key Management < & Applications	Group List	Restore Client 🗈 Excel 🖹 PDF
& Application Deboarding	Group None Select Group +	
Tokenization <	Search:	Show 70 ¢ entries
O Groups	Sr No. 11 Source Instance 11 DB Name 11 DB Type 11 Certificate 11 Destination Instance	Created On Created On The Actions
Registered client TDE Client	1 JISA-SIGN-HOST Dem001 MSSQL Certificate001 JISASIGN-HOST\MSSQLSERVER01	22-02-2023 04:55:23
O Restore TDE Client O TDE Scheduled Task	Showing I to 1 of 1 entries	Previous 1 Next
O Unregistered Database		
🕸 Configuration 🛛 🕻		
⊞ Logs ¢		
		💟 JISA
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- 13. Below mentioned details are visible in the Group List:
- a) Select Group
- b) Source Instance
- c) DB Name
- d) DB Type
- e) Certificate
- f) Destination Instance
- g) Created On
- h) Actions Change Group

14. In order to export the Group List in Excel or PDF format, the user can click on the Excel/PDF button in the upside

15. Click on the Restore Client button on the upside of the page

- 16. User will be redirected to Restore Client Page
- 17. User may enter below mentioned details :

Source Details

- a) Source Group Name
- b) Source Client(Single or Cluster)
- c) Source Destination Name
- d) Source Source Certificate Name

Destination Page

- a) Select Destination Group Name
- b) Select DB Instance Name
- c) Select Destination Database Type
- d) Destination Database Port
- e) Master Database Port
- f) Master Database Username
- g) Master Database Password
- h) Click on save button

🕐 Dashboard	Postore Client		/ TDE Management / Restore TDE Client / Restore	re Clients
💄 User Management 🛛 🖌	Restore Chefit		The management / Restore the circle / Restore	e cherita
🔑 Key Management 🛛 🖌	Source Details			
& Applications	Source Group Name Select Source Group Name	Source Client (Single or Cluster)	Source Database Name Select Source Database Name	
X Application Deboarding				
Tokenization <	Select Source Certificate Name			
😂 TDE Management 🛛 👻				
O Groups	Destination Details	Destination DD Instance Name	Destination Database Tune	
O Registered client	Select Destination Group Name	Select DB Instance Name	Select Destination Database Type	~
O TDE Client				
O Restore TDE Client	Destination Database port	Master Database UserName	Master Database Password	8
O TDE Scheduled Task				
O Unregistered Database			Back	Save
📽 Configuration 🛛 🔾	L			
Æ Logs 🗸				
			IC 💽	ISA
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TDE SCHEDULED TASK

Single TDE Scheduled Task attached below details

- Serial number
- DB Name
- Task Schedule
- Status
- Remark
- Actions





)





Cluster TDE Scheduled Task

- Cluster TDE Scheduled Task attached below details
- Serial number
- DB Name
- Task Schedule
- Status
- Remark
- Actions

孢 Dashboard	TDE Scheduled T	ask					/ TDE Management	/ TDE Scheduled Task
💄 User Management \prec	TDE Scheduled h	USK					, ibe Managorione	, ibe contraction rack
🔑 Key Management 🛛 <	Single TDE Scheduled Task	Cluster TDE Scheduled Task						
& Applications								
X Application Deboarding	Search							Show II A entries
🛣 Tokenization 🛛 🖌	Secien.							
🗎 TDE Management 🛛 👻	Sr. No.	DB Name	Task Scheduled		Status	Remark	Actions	
O Groups				No data available in ta	blo			
O Registered client				No data avaliable in ta	010			
O TDE Client	Showing 0 to 0 of 0 entries							Previous Next
O Restore TDE Client	onouning o to o or o onthos							
O TDE Scheduled Task								
O Unregistered Database								
🗱 Configuration 🛛 🖌								
æ Logs 🗸 🗸								
								🚺 JISA
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UNREGISTERED DATABASE

List of Unregistered Database

🙆 Dashboard	Unregistered Database	R / TDE Management / Unregistered Database
 Key Management Applications 	Group Name Select Group +	
X Application Deboarding		
🛣 Tokenization 🛛 🖌	Remove TDE of Unregistered Database Request List	Add Request 🛐 Excel 🖹 PDF
TDE Management O Groups	Search:	Show 10 ¢ entries
	Sr No. 11 DB Type 11 Instance Name 11 DB Name 11 Encryption Status	Progress 11 Task Scheduled 11 Status 11 Actions 11
O Restore TDE Client	1 MSSQL JISA-SIGN-HOST SingleTDE1_01 Not Available	0 Every 2 minutes Success
O TDE Scheduled Task O Unregistered Database	2 MSSQL JISA-SIGN-HOST TestingTDE1 Not Available	0 Every 2 minutes Conceled
Configuration < ≅ Logs <	Showing 1 to 2 of 2 entries	Previous 1 Next
		🚺 JISA
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Fig 56. Unregistered Database

Add Request for Unregistered Database

Add Request mentioned in tab :

Connection Details: Group Name Database Type Database Instance Name Destination Database Port

Master Database UserName Master Database Password

Database Details:

Connection Status : Connected/Disconnected Database Name





🙆 Dashboard	Upregister Database		/ TDF Management / Unregistered	Database / Unregistered Database
💄 User Management \prec	onregister Database		/ Tot Managoment / emegatorea	Satabase / Shingistered Batabase
🔑 Key Management \prec	Connection Details			
& Applications	Group Name	Database Type	Database Instance Name	
X Application Deboarding	Select Group Name	Select Database Type	Database Instance Name	`
🛪 Tokenization 🛛 🖌	Destination Database port	Master Database UserName	Master Database Password	Ø
🛢 TDE Management 🗸 🗸				Test Connection Connect
O Groups	Database Details			
O Registered client	Connection Status:			
O TDE Client	Disconnected			
O Restore TDE Client				
O TDE Scheduled Task	Database Name Select Database Name			
O Unregistered Database				
📽 Configuration 🛛 🖌				
Æ Logs <				Back Save
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Fig 57. Unregistered Database



CONFIGURATION



VIEW CLUSTER SECTION

- 1.HOST SECTION sections details appear -
- a) Serial number
- b) Name
- c) IP Address
- d) Created On
- e) Updated On

f) Action

🙆 Dashboard	Cluster Management			Configuration / Cluster
💄 User Management \prec	Cluster Management			
🔑 Key Management 🛛 🖌	Host Cluster Members			
& Applications	_			
X Application Deboarding				
🛣 Tokenization 🛛 🖌				
🛢 TDE Management <	Search:			Show 10 🗢 entries
🏶 Configuration 🔹 🗸	Sr.No ¹¹ Name ¹¹ IP Address	Created On	Updated On	Action 11
O Email				
О ѕмѕ		No data available in table		
O Cluster				
O CSR Info	Showing 0 to 0 of 0 entries			Previous Next
O RootOfTrust				
O Active Directory				
O Quorum Policy				
≅ Logs 🗸				
				cryptoBind*
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ADD HOST

Host Name

IP Addresss

		Add Host			
20 Dashboard	Cluster Management	-			🐐 / Configuration / Cluster
👗 User Management <		Host Name			
🏓 Key Management 🤞	Host Cluster Members				
& Applications		IP Address			
X Application Deboarding			Course Coursed		R Scool D DDE
Z Tokenization 🔸			Save		
🛢 TDE Management 🔍	Search:				Show © entries
Configuration 🗸	Sr.No ¹ Name	IP Address	Created On	11 Updated On	Ti Action 11
O Email					
O SMS			No data available in table		
O Cluster					
O CSR Info	Showing 0 to 0 of 0 entries				Previous Next
O RootOfTrust					
O Active Directory					
O Quorum Policy					
≅ Logs 🔹 🤞					
					cryptoBind*
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Fig 59. ADD HOST



VIEW CLUSTER MEMEBR

- 6. Cluster Members sections details appear -
- a) Serial number
- b) Cluster Name
- c) IP Address
- d) Created On
- e) Updated On
- f) Action (Modify/Delete)



Fig 60 . Cluster Section

)





ADD CLUSTER MEMEBR

- 1. Click on Add button located on the upside right corner.
- 2. Enter the details mentioned in tab :
 - a. Select **Cluster** b. Member IP Address
- 3. Click on save button

B Dashboard Iser Management <	Cluster Management	Add Cluster Member		希 / Configuration / Cluster
📮 Key Management 🔇	Host Cluster Members	Select Host		
& Applications		Member IP Address		
& Application Deboarding	terret (idd 🗈 Excel 🕒 PDF
器 Tokenization く	search:	Save		show to \$ entries
🛢 TDE Management 🔇	Sr.No T Host Name	IP Address II Created On	Updated On Action	is ti
📽 Configuration 🛛 👻		No data available in	table	
O Email			ture -	
O SMS	Showing 0 to 0 of 0 entries			Previous Next
O Cluster				
O CSR Info				
O Active Directory				
O Quorum Policy				
⊞ Logs 🗸				
				powered by CryptoBind*
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Fig 61. Add Cluster Member





CSR INFO

- 1. Click On The Modify Button From The Action Column Of The Csrinfo Section
- 2. Enter The Details Mentioned In Tab :
- A) Email
- B) Organization
- C) Organization Unit
- D) Location
- E) State
- F) Country
- G) Action
- 3. Click On Save Button.

Dashboard	Configuration Management a	/ Configuration / CSR Info
 User Management Key Management 	CSR Info	🕅 Excel 🚺 PDF
& Applications		
X Application Deboarding	Search:	Show 10 🜩 entries
🛣 Tokenization 🛛 <	Sr No. 11 Email 11 Organization 11 Organization Unit 11 Location 11 State 11 Country	11 Actions 11
🛢 TDE Management <	l test]@iisasaftech.com State Bank of India Information Technology Hyderabad Telanagna IN	
🏶 Configuration 🔹 🗸	· · · · · · · · · · · · · · · · · · ·	
O Email	Showing I to I of I entries	Previous 1 Next
О ѕмѕ		
O Cluster		
O Active Directory		
O Quorum Policy		
Æ Logs ✓		
		🚺 JISA
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ROOT OF TRUST

- 1. Click on the modify button from the action column of the RootofTrust section
- 2. Enter the details mentioned in tab :
- a) Name
- b) Serial number
- c) Expiry Date
- d) Added on
- e) Action
- 3. Click on save button.









ACTIVE DIRECTORY

Dashboard Liser Management	Configuration Management				
Key Management <	Active Directory List				Add Active Directory
X Application Deboarding	Search:				Show 10 🗢 entries
Tokenization <	Sr No. 1 UserName	11 Host	11 Port	11 Actions	
🛢 TDE Management <		No data available in table			
📽 Configuration 🗸 🗸					
O Email	Showing 0 to 0 of 0 entries				Previous Next
О sмs					
O Cluster					
O CSR Info					
O RootOfTrust					
O Active Directory					
i≡ Logs K					
					U JISA [®]
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Fig 64. Active Directory List

- 1. Click On The Modify Button From The Action Column Of The Active Directory Section
- 2. Add Active Directory Mentioned In Tab :
- A) Username
- B) Password
- C) Host
- D) Port
- 3. Click On Save Button.

Dashboard		Active Directory		×	- 1	
🛔 User Management ∢	Configuration Manaç	UserName	Password	8	A / Configuration	Active Directory List
🔑 Key Management 🛛 🔇	Active Directory List					Idd Active Directory
& Applications		Host	Port		_	
& Application Deboarding	Search:					Show 10 \$ entries
置 Tokenization く	Sr No.			Close Save	Actions	
🛢 TDE Management <			No data available in table			
🎕 Configuration 🗸 🗸						
O Email	Showing 0 to 0 of 0 entries					Previous Next
O sms						
O Cluster						
O CSR Info						
O RootOfTrust						
O Active Directory						
O Quorum Policy						
⊞ Logs <						
						CryptoBind*
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QUORUM POLICY

🙆 Dashboard	Configuration	Configuration / Ouorum Policy						
💄 User Management \prec	conngulation	, singulation management						
🔎 Key Management 🛛 <	Quorum policy				Add Quorum Policy 🔀 Excel 📓 PDF			
langle Applications								
X Application Deboarding	Search:				Show 10 ¢ entries			
🎝 Tokenization 🛛 🖌	Sr No.	1 Action Type	Total User	Minimum User	11 Actions 11			
🛢 TDE Management <	1	AppDeboarding	1	1	0			
📽 Configuration 🗸 🗸								
O Email	2	DeleteKey	1	1	@ [
О ѕмѕ								
O Cluster	Showing 1 to 2 of 2 entries				Previous 1 Next			
O CSR Info								
O Active Directory								
O Quorum Policy								
Æ Logs <								
					💟 JISA			
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Fig 66. Quorum Policy

- 1. Click On The Modify Button From The Action Column Of The Quorum Policy Section For Delete A Key
- 2. Add Quorum Policy Mentioned In Tab :
- A) Action Type
- B) Minimum User Approval
- C) Select Users
- 3. Click On Save Button.

		Add Quorum Policy		
🙆 Dashboard	Configuration Management	, au quotanti onoy		Configuration / Quorum Policy
💄 User Management \prec	comgaration Management	Action Type Select Action		· / comgaration / qualant city
👂 Key Management 🛛 <	Quorum policy			Add Quorum Policy 🔯 Excel 📓 PDF
& Applications		Minimum User Approval		
X Application Deboarding	Search:	Select users		Show 10 ¢ entries
🎝 Tokenization 🛛 🖌	Sr No. TL Action Type	Select users	Minimum User	11 Actions 11
🛢 TDE Management <	1 AppDeboarding			
🗱 Configuration 🛛 👻	, Abbosodiaria	Save Cancel		
🔘 Email	2 DeleteKey		1	0
О ѕмѕ				
O Cluster	Showing 1 to 2 of 2 entries			Previous 1 Next
O CSR Info				
O Active Directory				
O Quorum Policy				
Æ Logs 🗸				
				powered by
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Fig 67. Add Quorum Policy



LOGS

- 1. Log Entries appear with other details as shown in figure 68
- a) Serial Number
- b) Log Type
- c) log Message
- d) Access IP Address
- e) User Name of Person who Logged In
- f) Date & Time of Log Entry

 Dashboard User Management ✓ ✓ ✓ Key Management ✓ 	Logs Date range Filter	: 24 - 11/03/2024				🕷 / Logs / Log List
Deboarding	Search:					Show 10 ¢ entries
📽 Configuration <	Sr. No	Log Type	Log Message	Access IP	Logged By	11 Date & Time
∠Logs ✓ O Audit Logs	1	INFO	Quorum policy list successfully retrieved	10.177.31.165	admin@jisasoftech.com	11/03/2024 07:00:14 PM
O Download KMS Logs	2	INFO	CSR details successfully retrieved	10.177.31.165	admin@jisasoftech.com	11/03/2024 06:59:03 PM
	3	INFO	TDE keys successfully retrieved	10.177.31.165	admin@jisasoftech.com	11/03/2024 06:54:04 PM
	4	INFO	TDE keys successfully retrieved	10.177.31.165	admin@jisasoftech.com	11/03/2024 06:52:33 PM
	5	INFO	TDE keys successfully retrieved	10.177.31.165	admin@jisasoftech.com	11/03/2024 06:51:35 PM
	6	INFO	TDE keys successfully retrieved	10.177.31.165	admin@jisasoftech.com	11/03/2024 06:50:59 РМ
	7	INFO	TDE keys successfully retrieved	10.177.31.165	admin@jisasoftech.com	11/03/2024 06:50:28 PM

Fig 68. Audit Logs





DOWNLOAD KMS LOGS



1. Log Type

Select Logs type : KMIP Server KMIP Service Replication

- 2. Date Filter: Select a appropriate date for Download logs
- 3. Click on Download Button.

Dashboard	Log Management	😚 🕴 Log Management / Download logs
Kev Management <	KMS Logs	
X Application Deboarding	Select Log Type v	
Tokenization <		
🛢 TDE Management <		
🗱 Configuration 🛛 🖌		Download
🚝 Logs 🔷 👻		
O Audit Logs		
O Download KMS Logs		
		🚺 JISA
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Contact:

sales@jisasoftech.com, support@jisasoftech.com

JISA Softech Pvt. Ltd.

A-604, 6th Floor, Ganraj Chowk, Amar Business Zone Baner, Swati Park, Veerbhadra Nagar, Baner, Pune, Maharashtra 411045

