

Protegrity Documentation Master Index 9.1.0.5

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Introduction to this Guide

1.1 Sections contained in this Guide

1.2 Accessing the Protegrity documentation suite

This document provides a general overview of all Protegrity documents supplied with the 9.1.0.2 release. It explains what is documented and where necessary and helpful information can be found.

If you are new to Protegrity products, then it is strongly recommended to read the Protegrity guides in the order specified in this document.

1.1 Sections contained in this Guide

The guide is broadly divided into the following sections:

- Section 1 Introduction to this Guide defines the purpose and scope for this guide. In addition, it explains how information is organized in this document.
- Section 2 Conventions Used in Protegrity Documentation describes the typographical conventions used throughout Protegrity documentation.
- Section 3 Documentation Package provides a general overview of all Protegrity documents provided with the 9.0.0.0 release.
- Section 4 How to Read the Protegrity Documentation suggests the order in which you should read the Protegrity
 documentation.
- Section 5 Protegrity Glossary contains the list of terms and abbreviations used in the Protegrity documentation.

1.2 Accessing the Protegrity documentation suite

This section describes the methods to access the Protegrity Documentation Suite using the My.Protegrity portal.



Conventions Used in Protegrity Documentation

Protegrity documentation uses consistent notation to help you recognize different types of information, such as file names and variables. The following table describes the text elements and symbols used in Protegrity documents to indicate various types of information.

This element	Indicates
Bold text	Words or characters that you type, options you select, and keys you press. For example, a procedure might indicate that you type admin and then click OK .
Italic text	File paths, names of the files and directories (for example, <i>pepserver.txt</i>).
>	Menu options you select sequentially. For example, File ' Exit
>	Procedure descriptions with steps to follow.
Commands text	Commands. For example, Execute command /opt/protegrity/fileprotector/bin/dfp_clone
•	Items in a list.
Note:	Note is mostly used to provide any extra information that may be useful to you when performing a function. A note may state what is or what is not supported when describing a procedure.
Tip:	Tip note is mostly used to provide you with a better understanding of the system features. It gives you alternative understanding how to perform actions using different interfaces.
Important:	Important note is used for any important information that you NEED to know in order to perform a certain action or the consequences of certain actions. While not as critical as a Warning note (below), these notes contain information that we strongly recommend reading.
Caution:	Caution note is used to warn you that performing certain actions may result in data loss, system error or other unexpected consequences. DO NOT disregard warning notes.
Reference to the other documents	Refers to another document containing pertinent information.
Automatic reference text	Indicates that clicking on the automatic reference will forward you to the page where the information is described.



Documentation Package

- 3.1 Appliances Guides
- 3.2 Protectors Guides
- 3.3 Security Guides
- 3.4 Other Guides
- 3.5 Logging and Analytics Guides
- 3.6 Privacy Guides

Protegrity documentation package is shipped as a documentation package containing five directories and a Master Index that provides a general overview of all Protegrity documents supplied with the 9.1.0.0 release.

3.1 Appliances Guides

The Appliances Guides directory contains five guides, one for each Protegrity appliance. The documents included are listed in the following table.

Document	Products/Features Described	Description, notes
Appliances Overview	Appliance framework features common across Protegrity appliances	Provides information about the features, on premise, and cloud, which are common across all Protegrity products.
Enterprise Security Administrator Guide	Enterprise Security Administrator (ESA)	Provides information about the ESA overview and ESA files and services management.
Data Security Gateway User Guide	Data Security Gateway (DSG)	Provides information about the Data Security Gateway (DSG) architecture, deployment scenarios, installation on premise and on cloud platforms, and working with DSG to create data protection solutions using tunnels and rules.
Data Security Gateway (DSG) Container Dynamic Policy Update User Guide	Data Security Gateway (DSG)	Provides detailed information on deploying and using the DSG Container. It is intended to be deployed on Kubernetes running on the Amazon Elastic Kubernetes Service (Amazon EKS) and Azure Kubernetes Service (AKS) environments. This release supports dynamic policy updates from the ESA.
Protegrity Discover Guide	Discover	Provides an overview of how to install, configure, and use Protegrity Discover.



3.2 Protectors Guides

The Protectors Guides directory contains eighteen documents: sixteen guides, one for each Protegrity protector, a reference guide explaining protection methods, and an API reference guide for protectors.

The Protectors Guides directory includes the documents listed in the following table.

Document	Products/Features Described	Description, notes
Application Protector Guide	AP C AP Java AP Python	Provides detailed information and examples of libraries and deployment architectures for for all flavors of the Protegrity Application Protector (AP), namely, AP C, AP Java, AP Python, AP Go, AP .Net, and AP NodeJS application protectors. It also provides the Mainframe API implementations for
	AP Go AP NodeJS	application protectors.
	AP .Net	
Application Protector Go Immutable Policy User Guide for OpenShift Gen2	AP Go	Provides detailed information on deploying and using the Application Protector Go Immutable Policy Container Gen2, which is intended to be deployed on Kubernetes residing on any of the OpenShift on-premise setup.
Application Protector Java Immutable Policy User Guide for AWS Gen2	AP Java	Provides detailed information on deploying and using the Application Protector Java Immutable Policy Container Gen2, which is intended to be deployed on Kubernetes running on the Amazon Elastic Kubernetes Service (Amazon EKS) environment.
Application Protector Java Immutable Policy User Guide for Azure	AP Java	Provides detailed information on deploying and using the Application Protector Java Immutable Policy Container, which is intended to be deployed on Kubernetes running on the Azure Kubernetes Service (AKS) environment. This release supports the Get ESA Policy container deployment to retrieve the policy from the ESA.
Application Protector Java Immutable Policy User Guide for Azure Gen2	AP Java	Provides detailed information on deploying and using the Application Protector Java Immutable Policy Container Gen2, which is intended to be deployed on Kubernetes running on the Azure Kubernetes Service (AKS) environment.
Application Protector Java Immutable Policy User Guide for OpenShift	AP Java	Provides detailed information on deploying and using the Application Protector Java Immutable Policy Container, which is intended to be deployed on Kubernetes residing on any of the OpenShift on-premise setup.
REST Container Immutable Policy User Guide for AWS Gen2	AP REST	Provides detailed information on deploying and using the Immutable Policy REST Container Gen2, which is intended to be deployed on Kubernetes running on the Amazon Elastic Kubernetes Service (Amazon EKS) environment.



Document	Products/Features Described	Description, notes
REST Container Immutable Policy User Guide for OpenShift	AP REST	Provides detailed information on deploying and using the Immutable Policy REST Container, which is intended to be deployed on Kubernetes residing on any of the OpenShift on-premise setup.
Protegrity Application Protector (AP) On- Premises Immutable Policy User Guide	IAP C	Provides an overview of the Immutable Application Protector On-Premises solution
·	IAP Java	for C, Java, Python, and Golang. It enables you to protect the sensitive data present on
	IAP Python	various on-premise systems without the need to be connected to the administrator system.
	IAP Go	
Database Protector Guide	DB2	The Database Protector Guide provides detailed information about installation and
	MS SQL	usage of the MS SQL on Windows, Oracle, Teradata, Netezza, Pivotal Greenplum, DB2,
	Netezza	and Presto Database Protectors on Windows and UNIX platforms.
	Oracle	
	Presto	
	Pivotal Greenplum	
	Teradata	
Big Data Protector Guide	Hadoop Protector	Provides detailed information on the configuration and operation of the Big Data Protector for Cloudera, Hortonworks, and Pivotal GPHD Hadoop distributions.
File Protector Guide	File Protector	Provides detailed information about installing, configuring, and using the Protegrity File Protector on Windows platform.
		Additionally, this guide contains Use Cases that demonstrates various scenarios about encrypting and protecting files, directories, and volumes.
FPVE-Core User Guide	File Protector Volume Encryption (FPVE)-Core	Provides detailed information about installing, configuring, and using the File Protector Volume Encryption (FPVE)-Core.
		Additionally, this guide contains Use Cases that demonstrates various scenarios about protecting physical and logical volumes.
FUSE File Protector Guide	Filesystem in Userspace (FUSE) File Protector	Provides detailed information about installing, configuring, and using the Filesystem in Userspace (FUSE) File Protector.
		Additionally, this guide contains Use Cases that demonstrates various scenarios about encrypting files and directories.
Row Level Protector Guide	Row Level Protector	Provides a summary of the Protegrity Row Level Protection components and its core



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Document	Products/Features Described	Description, notes
		functionality. It explains how to configure and use the Row Level Protector.
z/OS Protector Guide	z/OS Mainframe Protector	The z/OS Protector Guide provides detailed information about installing, configuring, and using the Protegrity z/OS Mainframe Protectors.
		Additionally, the z/OS Protector Guide contains sample codes to perform various tasks.
APIs, UDFs, and Commands Reference Guide	API information for Protectors	Provides information about all the APIs, UDFs, and commands available in all the Protectors.
Protection Methods Reference	Tokenisation Format Preserving Encryption (FPE)	Provides an overview of protection methods supported by Protegrity products. It explains properties of protection methods, and provides
	Encryption	examples of their usage.
	Monitoring and Blocking (No Encryption)	
	Hashing	
	Masking	
	Empty string and NULL handling by Protectors	
	Hashing functions and examples	

3.3 Security Guides

The Security Guides directory contains three documents: one each for Policy management, Certificate management, and Key management.

The Security Guides directory includes the documents listed in the following table.

Document	Products/ Features Described	Description, notes
Policy Management Guide	All Protegrity products	Provides details on the policy management functionality provided by Protegrity Data Security Platform.
Certificate Management Guide	All Protegrity products	Provides information on the certificate management details for ESA, DSG, and Protectors.
Key Management Guide	All Protegrity products	Provides information about the Protegrity Key Management solution that manages the keys provided by the Protegrity Data Security Platform.

3.4 Other Guides

The Other Guides directory supplied with version 9.1.0.0 contains supplementary guides that can help you work with Protegrity products.



It includes the documents listed in the following table.

Document	Products/ Features Described	Description, notes
Feature Guide	All Protegrity products	Provides a high-level overview of the release v9.1.0.0 features. Also, provides a brief description about all the features and deprecations pertaining to a release.
Installation Guide	All Protegrity products	Provides information to install all the Protegrity Appliances and Protectors. Provides detailed information about how to install the Protegrity Appliances and Protectors for all versions starting from v7.1 to v.9.1.0.0.
Upgrade Guide	All Protegrity products	Provides detailed information about how to upgrade the Protegrity Appliances and Protectors for all versions starting from v7.1 to v.9.1.0.0. It also includes information on how to upgrade an appliance cluster and the supported compatibility of Protegrity Appliances and Protectors.
Troubleshooting Guide	All Protegrity products	Provides a consolidated troubleshooting information for all the Protegrity products. It includes a description of error codes that you may encounter while working with different Protegrity products. This guide is intended to make the communication with Protegrity support effective and quick.
Data Security Platform Licensing	All Protegrity products	Provides a general overview of licensing and how to activate the Protegrity products, handle expired licenses, and upgrading licenses.

3.5 Logging and Analytics Guides

The Logging and Analytics Guides directory contains the documents that provide information about log management in Protegrity appliances.

It includes the documents listed in the following table.

Document	Products/ Features Described	Description, notes
Protegrity Analytics Guide	Dashboards Forensics Alerts Reports Querying Forensics ILM	Provides an overview and the features for the Protegrity Analytics. Analytics retrieves audit logs from the Audit Store and displays it using tables and graphs. It helps the user analyze and monitor systems using logs. monitors, Forensics, and reports. It also features ILM for backing up log data.
Protegrity Log Forwarding Guide	Log Forwarding	Provides an overview about the new logging feature. It describes the process for forwarding the logs generated using Protegrity products.
Audit Store Guide	Audit Store Management	Provides an overview and the steps for using the Audit Store. The Audit Store holds all the logs generated by ESA and pre-8.0.0.0 Protectors.



3.6 Privacy Guides

The Privacy Guides directory contains the documents that provide information about Protegrity products that enhance privacy and data protection.

It includes the documents listed in the following table.

Document	Products/ Features Described	Description, notes
Protegrity Anonymization API Guide	Protegrity Anonymization API Protegrity Anonymization REST API Protegrity Anonymization SDK	Provides information about setting up the Protegrity Anonymization API to perform data anonymization. It also provides information about using the REST APIs and using the SDK to access the functionality of the REST APIs in Python.



How to Read the Protegrity Documentation

The following table is a suggestion for the order in which you should read the Protegrity documentation, whether you are an existing customer upgrading from a previous release or a new customer installing Protegrity products for the first time. Our protector guides can be read independently of one another, depending upon the particular type of protectors that you have installed.

Protegrity Document /Guide	Existing Customer	New Customer
Feature Guide	1	2
Installation Guide	2	5
Upgrade Guide	3	Not Applicable
Data Security Platform Licensing	4	1
Appliances Overview Guide	5	3
Enterprise Security Administrator Guide	6	4
Protection Methods Reference	7	6
Data Security Gateway User Guide	8	7
Protegrity Discover Guide	9	8
Protegrity Log Forwarding Guide	10	9
Audit Store Guide	11	10
Protegrity Analytics Guide	12	11
Application Protector Guide	13	12
Application Protector Go Immutable Policy User Guide for OpenShift Gen2		
Application Protector Java Immutable Policy User Guide for AWS Gen2		
Application Protector Java Immutable Policy User Guide for AWS EC2 Gen2		
Application Protector Java Immutable Policy User Guide for Azure		
Application Protector Java Immutable Policy User Guide for Azure Gen2		
Application Protector Java Immutable Policy User Guide for OpenShift		
Data Security Gateway (DSG) Container Dynamic Policy Update User Guide		
REST Container Immutable Policy User Guide for AWS Gen2		
REST Container Immutable Policy User Guide for OpenShift		



Protegrity Document /Guide	Existing Customer	New Customer
Application Protector (AP) On-Premises Immutable Policy User Guide		
Big Data Protector Guide		
Database Protector Guide		
File Protector Guide		
FPVE-Core User Guide		
FUSE File Protector Guide		
Row Level Protector Guide		
z/OS Protector Guide		
Policy Management Guide	14	13
Certificate Management Guide		
Key Management Guide		
Troubleshooting Guide	15	14



Protegrity Glossary

This section includes terms and abbreviations used in the Protegrity documentation package.

The following table includes only Protegrity specific terms and products.

Table 5-1: Protegrity Specific Products and Terms

Abbreviation	Definition
AC	Access Control
ACL	Access Control List
AP	Application Protector
AP Client	Application Protector Client
AP GO	Application Protector Golang
AP Java	Application Protector Java
AP Lite	Application Protector Lite
AP NodeJS	Application Protector NodeJS
AP .Net	Application Protector .Net
AP Python	Application Protector Python
AP REST	Application Protector REST
AP Standard	Application Protector Standard
CLI	CLI Manager (also referred to as Command Line Interface Manager)
DEK	Data Encryption Key
DFP_SEC_ADMIN	Defiance File Protector Security Administrator
DFPSHELL	Defiance File Protector Shell



Abbreviation	Definition
DMS	Data Management Server
DP	Database Protector
EIP Server	Export Import Service Server
ESA	Enterprise Security Administrator
FE	File Encryption
FPA	File Protector Appliance
FP	File Protector
FPDID	File Protector Device ID
FPVE	File Protector Volume Encryption
HDFSFP	Hadoop Distributed File System File Protector (part of Big Data Protector)
KEK	Key Encryption Keys
PEP Server	Protection Enforcement Point Server
PSU	Protegrity Storage Unit
SLT	Static Lookup Table
SUID	Select/update/insert/delete operations
UPR	Unprotect/protect/reprotect operations

The following table includes all abbreviated terms that are mentioned in the Protegrity documentation package.

Table 5-2: General Abbreviated Terms used in the Protegrity Documentation Package

Abbreviation	Definition
AES	Advanced Encryption Standard
AMP	Access Module Processor
APF	Authorized Program Facility
API	Application Program Interface
APP	Application



Abbreviation	Definition
ASCII	American Standard Code for Information Interchange
ASI	Accelerated Search Index
AWS	Amazon Web Services
AWT	AMP Worker Task
BI	Business Intelligence
BSAM	Basic Sequential Access Method
CA	Certificate Authority
CBC mode	Cipher Block Chaining mode
CCN	Credit Card Numbers
ССРА	California Consumer Privacy Act
CDH	Cloudera's Distribution Including Apache Hadoop
CGI	Common Gateway Interface
CIFS	Common Interface File System
CLIST	Command List
CPU	Central Processing Unit
CRC	Integrity Check
CSI	Cryptographic Service Interfaces
CSS	Cryptographic Subsystem
CSV	Comma-Separated Values
CUSP	Cryptographic Unit Service Provider
CXI	Cryptographic Extended Services Interface
Data node	Hadoop cluster slave node
DB	Database
DBA	Database Administrator



Abbreviation	Definition
DC	Domain Controller
DCB	Data Control Block
DD	Data Definition
DE	Data element
DEC	Decimal (Character ASCII code)
DES	Data Encryption Standard
DHCP	Dynamic Host Configuration Protocol
DiskCryptor	The first open source full disk encryption system for MS Windows that allows the encryption of an entire PC's harddrive or individual partitions – including the ability to encrypt the partition and disk on which the OS is installed.
DMCrypt	A transparent disk encryption subsystem in Linux kernel version 2.6 and later.
DN	Distinguished Name
DSN	Data Source Name
DTP	Data Type Preserving
DVD	Digital Versatile Disc
ECB	Electronic Codebook
EDW	Enterprise Data Warehouse
EKS	Amazon Elastic Kubernetes Service
ENC	Encryption
ерНІ	Electronic Personal Health Information
ESSIV	Encrypted Salt-Sector Initialization Vector
ETL	Extract, Transform, Load
EWMA	Exponential weighted moving average
ext2	The second Extended File System
ext3	The third Extended File System
ext4	The fourth Extended File System



Abbreviation	Definition
FAT	File Allocation Table
FIPS	Federal Information Processing Standard
FQDN	Fully Qualified Domain Name
FTP	File Transfer Protocol
GCP	Google Cloud Platform
GDPR	General Data Protection Regulation
GID	Group ID
GUI	Graphical User Interface
GUID	Globally Unique Identifier
HDFS	Hadoop Distributed File System
HDP	Hortonworks Data Platform
HEX	Hexadecimal (Character ASCII code)
HIPAA	Health Insurance Portability and Accountability Act
HiveQL/HQL	Hive Query Language
НМАС	Hashed Message Authentication Code
HOLT	Double exponential
HSM	Hardware Security Module
HTML	HyperText Markup Language
НТТР	Hypertext Transfer Protocol
HTTPS	Hypertext Transfer Protocol Secure/Hypertext Transfer Protocol over SSL/ Hypertext Transfer Protocol over TLS
HVM	Hardware Virtual Machine
IBM037	IBM code page 37
IBM500	IBM code page 500
ICMP	Internet Control Message Protocol



Abbreviation	Definition
ICSF	Integrated Cryptographic Service Facility
ILM	Information Lifecycle Management
IP	Internet Protocol
IPL	Initial Program Load
iSCSI	Internet Small Computer System Interface
IV	Initialization Vector
JAR	Java Archive
JCL	Job Control Language
JNI	Java Native Interface
JRE	Java Runtime Environment
JSON	JavaScript Object Notation
LDAP	Lightweight Directory Access Protocol
LDAPS	Lightweight Directory Access Protocol over Secure Sockets Layer
LED	Light-emitting diode
LTA	Long Term Archive
LUN	Local Unit Number
LVM	Logical Volume Manager
MBR	Master Boot Record
MPP	Massively Parallel Processing
MRU	Most Recently Used
MVS	Multiple Virtual Storage
Name node	Hadoop cluster primary node
NAS	Network Attached Storage



Abbreviation	Definition
NFS	Network File System
NIC	Network Interface Card
NTFS	New Technology File System
NTL	Network Trust Link
NTLA	Network Trust Link Agents
NTLS	Network Trust Link Service
NTP	Network Time Protocol
ODBC	Open Database Connectivity
ODS	Open Document Spreadsheet
ODT	Open Document Text
OS Console	Operating System Console
OSS	Alibaba Cloud Object Storage Service
PAM	Pluggable Authentication Modules
PCI	Payment Card Industry
PCI card	Peripheral Component Interconnect card
PCI DSS	Payment Card Industry Data Security Standard
PDF	Portable Document Format
PDPA	Personal Data Protection Act
PDSH	Parallel Distributed Shell
PED	PIN Entry Device
PGP	Pretty Good Privacy (data encryption/decryption program)
PHD	Pivotal Hadoop Distribution
РНІ	Protected Health Information
PID	Process Identifier (also referred to as Process ID)



Abbreviation	Definition
PII	Personally Identifiable information
PIN	Personal Identification Number
PIPEDA	Personal Information Protection and Electronic Documents Act
PKCS#11	Cryptographic Token Interface Standard (Cryptoki)
PLM	Protegrity Loadable Modules
PMS	Policy Management Server
POS	Point of Sale
POSIX	Portable Operating System Interface
PVM	Parallel Virtual Machine
QSAM	Queued Sequential Access Method
RAM	Random Access Memory
RCP	Remote Procedure Calls
RDN	Relative Distinguished Name
RPM	Red Hat Package Manager
REXX	Restructured Extended Executor
reiserfs	Reiser File System
RTF	Rich Text Format
SAN	Storage Area Network
SCID	Security Coordinate Identifier
SCIL	Secure Command Line Interface
SCP	Secure Copy Protocol
SCP	Session Control Protocol
SFTP	Secure File Transfer Protocol



Abbreviation	Definition
sha256	Secure Hash Algorithm 256.
SKD	Software Development Kit
SMB	Server Message Block
SMTP	Simple Mail Transfer Protocol
SNMP	Simple Network Management Protocol
SOAP	Simple Object Access Protocol
SQL	Structured Query Language
SSH	Secured-Shell
SSI	Subsystem Interface
SSL	Secure Sockets Layer
SSN	Social Security Number
STA	Short Term Archive
SWF	Shock Wave Format, Adobe Flash file format.
TCP	Transmission Control Protocol
TLS	Transport Layer Security
TNSNAME	Transport Network Substrate Name
UDFs	User Defined Functions
UDAFs	User Defined Aggregate Functions
UDP	User Datagram Protocol
UDT	User Defined Type
UID	User ID
URL	Uniform Resource Locator
USB	Universal Serial Bus



Abbreviation	Definition
USS	Unix System Service
UTF	Unicode Transformation Format
VPD	Virtual Private Disk
WebDAV	Web Distributed Authoring and Versioning
WSDL	Web Services Description Language
XLS	Microsoft Excel File format
XLSX	Microsoft Excel Open XML
XML	Extensible Markup Language
ХРАТН	XML Path Language

