

IPWorks Library Overview

DESCRIPTION

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1 Introduction

This document lists the information available for the IPWorks.

1.1 Product Numbers

The product numbers and delivery information is provided in Table 1.

Table 1 Product Numbers

Product Name	Product Number	Library
IPWorks 2.0 R1A	AVA 901 33/3 R1A	EN/LZN 768 0144/3 R1A

1.2 Library Distribution

Libraries are distributed as follows:

- Online libraries on the Ericsson eBusiness portal – requires access privileges
- Online libraries on CPI Store on the Ericsson Intranet

1.3 Library Access

For information on how to access the library, refer to *How to Get Started with Active Library Explorer*.

1.4 Library Structure

The library consists of documents grouped into the following main folders:

- Safety and Environment
- Library Overview
- Product Overview
- Planning
- Data Migration
- Operation and Maintenance
- Emergency



- Interface

1.5 Document Types

The documents are grouped into the following three types:

- Descriptive documents contain descriptions of the product on different levels.
- Operational documents give instructions on how to operate or maintain the product.
- Reference documents contain extra information for the user.



2 IPWorks Library

This section describes the library contents for the IPWorks.

2.1 Safety and Environment

Documents included in this area are listed in Table 2. These documents are intended for personnel who work with Ericsson products.

Table 2 Safety and Environment

Title	Description	Type
<i>Personal Health and Safety Information</i>	Information important for health and safety in the workplace and in the external environment.	Descriptive, Operative
<i>System Safety Information</i>	Information important for product safety.	Descriptive, Operative

2.2 Library Overview

Documents included in this area are listed in Table 3. These documents are intended for all personnel involved in work related to any aspect of the product.

Table 3 Library Overview

Title	Description	Type
<i>IPWorks Library Overview</i>	Overview of the CPI library.	Reference
<i>IPWorks Library Changes from 1.12 R6A to 2.0 R1A</i>	Information about library changes from the previous version.	Reference
<i>How to Get Started with Active Library Explorer</i>	Information about how to access the CPI library.	Reference
<i>Glossary of Terms and Acronyms</i>	Explanations of all terms, abbreviations, and acronyms that occur in the library.	Reference
<i>Trademark Information</i>	Includes trademark information used in the library.	Reference
<i>Typographic Conventions</i>	Includes typographic conventions used in the library.	Reference



2.3 Product Overview

Documents included in this area are listed in Table 4. These documents are intended as an introduction for all personnel who want an overall understanding of the product or a feature of the product.

Table 4 Product Overview

Title	Description	Type
<i>IPWorks Technical Description</i>	Technical description of the product.	Descriptive
<i>IPWorks FOSS Licenses</i>	List of Free Open Source Software (FOSS) products, including version information and licence texts, that is used in the product.	Descriptive
<i>Virtualized IPWorks Infrastructure Requirements</i>	Describes requirements for the infrastructure resource for IPWorks virtualized applications.	Descriptive

2.4 Planning

Documents included in this area are listed in Table 5. These documents are intended for personnel responsible for planning, implementation, and product handling.

Table 5 Planning

Title	Description	Type
<i>IPWorks 2 Characteristics</i>	Specification of performance characteristics and the main parameters affecting those characteristics.	Descriptive
<i>IPWorks Dimensioning Guideline</i>	Information about dimensioning the product, including procedures and background information.	Descriptive
<i>IPWorks 2 Network Impact Report</i>	Information about library changes from the previous version.	Descriptive
<i>IPWorks Network Connectivity Overview</i>	Describes the IPWorks networks and relevant network parameters used for IPWorks deployment.	Descriptive
<i>IPWorks Network Connectivity Overview for KVM</i>	Describes the IPWorks VNF reference networks used for IPWorks deployment for KVM.	Descriptive
<i>IPWorks Site Dependent Parameters</i>	Lists the parameters used in the IPWorks site configuration.	Descriptive



2.5 Data Migration

Documents included in this area are listed in Table 6. These documents are intended for personnel planning for system configuration and performing initial configuration.

Table 6 Data Migration

Title	Description	Type
<i>Data Migration from IPWorks HP 15B FD1 CP3 to IPWorks 2</i>	Data Migration user guide from IPWorks 15B FD1 CP3 to IPWorks 1.	Descriptive, Operative

2.6 Operation and Maintenance

Documents within this area are listed in Table 7. These documents are intended as an introduction for personnel involved in any operation and maintenance activity.

Table 7 General Operation and Maintenance Documents

Title	Description	Type
<i>Ericsson Command-Line Interface User Guide</i>	Describes the basic features of the Ericsson Command Line Interface (ECLI) and how to use it.	Descriptive, Operative

2.6.1 Fault Management

Documents included in this area are listed in Table 8. These documents are intended for personnel performing fault handling, alarm handling, and troubleshooting.

Table 8 Fault Management

Title	Description	Type
<i>Fault Management</i>	Information about fault handling and troubleshooting activities, including procedures and background information.	Descriptive
<i>IPWorks Fault Management Guide for DL380 Gen9 Platform</i>	Describes the fault management for host OS of DL380 Gen9 on top of which IPWorks VNF is deployed.	Descriptive
<i>IPWorks Trace User Guide</i>	Describes how to perform subscriber tracing using the trace functionality in IPWorks system.	Descriptive, Operative



Table 8 Fault Management

Title	Description	Type
<i>IPWorks Troubleshooting Guideline</i>	Describes common corrective actions to locate an error.	Descriptive, Operative
<i>Data Collection Guideline for IPWorks</i>	Step-by-step instructions required during data collecting activities.	Descriptive, Operative
SNMP Configuration		
<i>Configure SNMP Master Agent</i>	Step-by-step instructions required to configure an SNMP Master Agent.	Operative
<i>Create SNMPv1 Target</i>	Step-by-step instructions required to create an SNMPv1 target.	Operative
<i>Create SNMPv2C Target</i>	Step-by-step instructions required to create an SNMPv2C target.	Operative
<i>Create SNMPv3 Target</i>	Step-by-step instructions required to create an SNMPv3 target.	Operative
<i>Delete SNMP Target</i>	Step-by-step instructions required to delete an SNMP target.	Operative
<i>Disable SNMP Target</i>	Step-by-step instructions required to disable an SNMP target.	Operative
<i>Enable SNMP Target</i>	Step-by-step instructions required to enable an SNMP target.	Operative
<i>Create SNMP View</i>	Step-by-step instructions required to create an SNMP view.	Operative
Alarm Configuration		
<i>Check Alarm Status</i>	Step-by-step instructions required to check the alarm status.	Operative
<i>Change Alarm Type Severity</i>	Step-by-step instructions required to change the alarm type severity.	Operative
<i>Change Heartbeat Interval</i>	Step-by-step instructions required to change the Heartbeat interval.	Operative

Table 9 IPWorks Alarms

Title	Description	Type
<i>IPWorks Alarm List</i>	The list of all alarms and Fault Management events list that the product may receive.	Reference
<i>IPWorks Alarm List for DL380 Gen9 Host Management</i>	Gives an overview of the IPWorks alarms for G9 platform.	Reference



Table 9 IPWorks Alarms

Title	Description	Type
<i>DNS, Server Failed to Start</i>	Step-by-step instructions required to clear the alarm.	Operative
<i>DNS, ASDNS Node Down</i>		
<i>DNS, Query Failure Error</i>		
<i>DNS, Forward Failure Error</i>		
<i>DNS, TPS Exceed Threshold</i>		
<i>Storage Server, MySQL Cluster Node Unreachable</i>		
<i>Storage Server, MySQL Database Unreachable</i>		
<i>Storage Server, Storage Server Unreachable from Server Manager</i>		
<i>Storage Server, The MySQL Replication for Geographic Redundancy failed</i>		
<i>ENUM, Server Failed to Start</i>		
<i>ENUM, Server Lost Connections of DB</i>		
<i>ENUM, Query Failure Error</i>		
<i>ENUM, Total Query Failure Error</i>		
<i>ENUM, CUDB Node Failure</i>		
<i>ENUM, CUDB Site Failure</i>		
<i>ENUM FE Sync, Server Lost Connections of DB</i>		
<i>ENUM FE Sync, All CUDB Connections Failure</i>		
<i>ERH, NP Query Error</i>		
<i>ERH, Toll-free Query Error</i>		
<i>ERH, Total Query Error</i>		
<i>ERH, TPS Exceed Threshold</i>		
<i>ERH, Connection Error</i>		
<i>ERH, CUDB Node Failure</i>		
<i>ERH, CUDB Site Failure</i>		
<i>DHCPv4, Exhausted Lease Pool</i>		
<i>DHCPv4, Failover Network Disconnect</i>		
<i>DHCPv4, Failover Time Skew</i>		
<i>DHCPv4, DHCPv4 Pool Active Lease Cross Threshold</i>		
<i>DHCPv4, DHCPv4 Server Active Lease Cross Threshold</i>		
<i>DHCPv4, Server Failed to Start</i>		
<i>DHCPv4, Server Fatal Shutdown</i>		
<i>DHCPv4, DDNS Retries Failed</i>		
<i>DHCPv4, DDNS Update Failed</i>		
<i>DHCPv4, DHCPv4 Option82 Parsing Failure Cross Threshold</i>		
<i>DHCPv4, DHCPv4 TPS Under Low Threshold</i>		



2.6.2 Configuration Management

Documents included in this area are listed in Table 10. These documents are intended for personnel performing configuration and fine-tuning. They are also intended for personnel performing provisioning.

Table 10 Configuration Management

Title	Description	Type
<i>IPWorks Configuration Management</i>	Provides information about configuration activities, including procedures and background information	Descriptive
<i>Advanced Configuration Management IPWorks User Guide</i>	Describes how to execute a quick IPWorks configuration.	Descriptive, Operative
Configuration OPIs and User Guide		
<i>Configure MySQL NDB Cluster</i>	Step-by-step instructions required to configure and management MySQL NDB Cluster.	Operative
<i>Configure DNS and ENUM</i>	Provides the Operating Instructions to configure IPWorks DNS and ENUM.	Operative
<i>Configure Radius AAA</i>	Provides the Operating Instructions to configure IPWorks Radius AAA.	Operative
<i>Configure EPC AAA</i>	Provides the Operating Instructions to configure IPWorks EPC AAA.	Operative
<i>Configure DHCP</i>	Provides the Operating Instructions to configure IPWorks DHCP.	Operative
<i>Configure User Account</i>	Provides the Operating Instructions to configure User Account.	Operative
<i>IPWorks Geographic Redundancy</i>	Provides the Operating Instructions to realize Geographic Redundancy functionality.	Descriptive, Operative
Parameter Description		
<i>IPWorks DNS, ASDNS, ENUM Parameter Description</i>	Describes parameters included in the product.	Descriptive
<i>IPWorks AAA Parameter Description</i>	Describes parameters included in the product.	Descriptive
<i>IPWorks DHCP Parameter Description</i>	Describes parameters included in the product.	Descriptive
Tool User Guide		
<i>Command Line Interface User Guide for IPWorks SS</i>	Information about how to use the CLI to configure SS.	Descriptive, Operative



Table 10 Configuration Management

Title	Description	Type
<i>IPWorks DNS Management User Guide</i>	Describes how to use DNS Management that is the primary graphic user interface of Ericsson IPWorks.	Descriptive, Operative
<i>PDB User Guide</i>	Describes the functionality offered by the Parameter Database (PDB) application.	Descriptive, Operative

2.6.2.1 Diameter Management

Documents included in this area are listed in Table 11. These documents are intended for personnel performing configuration and fine-tuning. They are also intended for personnel performing provisioning.

Table 11 Diameter Management

Title	Description	Type
<i>Diameter Stack Configuration Guide</i>	Describes how to configure Diameter Stack.	Operative

2.6.2.2 Scaling Management

Documents included in this area are listed in Table 12. These documents are intended for personnel performing scaling-in and scaling-out operations.

Table 12 Scaling Management

Title	Description	Type
<i>IPWorks Scaling Guide for CEE</i>	Describes how to perform the scaling operations for IPWorks on Cloud Execution Environment (CEE).	Descriptive, Operative
<i>IPWorks Scaling Guide for KVM</i>	Describes how to perform the scaling operations for IPWorks on KVM.	Descriptive, Operative

2.6.2.3 SS7 Management

Table 13 SS7 Management

Title	Description	Type
<i>Configure SS7 for ENUM Number Portability</i>	Provides the Operating Instructions to configure SS7 for the ENUM Number Portability feature.	Operative



Table 13 SS7 Management

Title	Description	Type
Configure SS7 for AAA	Provides the Operating Instructions to configure SS7 for AAA in 2+2 deployment scenario.	Operative
SS7 OPIs (for general reference)		
Configuring SS7, SCTP		Operative
Configuring SS7 Signaling Network, SCCP, M3		
Configuring SS7 Signaling Network, M3 IETF		
Configuring SS7 System Components		
Configuring SS7 TCAP		
Reconfiguring SS7 Network, Creating and Defining GT Routing		
Configuring SS7, INAP		
Configuring SS7, MAP		
Tool User Guide		
Signaling Manager User Guide	Information about how to use Signaling Manager for SS7.	Descriptive, Operative

2.6.2.4 System Management

Table 14 System Management

Title	Description	Type
<i>System Management</i>	Provides an overview of the management model and concepts associated with the System Management managed area.	Descriptive
Manage System Attributes		
<i>Check General System Attributes</i>	Provides the Operation Instructions to check the general attributes of the Managed Element (ME).	Operative
Manage XML Model Files		



Table 14 System Management

Title	Description	Type
<i>List Supported XML Model Files</i>	Provides the Operation Instructions to list the XML model files that are supported by the managed element.	Operative
<i>Push XML Model File to Remote File Location</i>	Provides the Operation Instructions to push an XML model file to a remote file location with FTP.	Operative

2.6.2.5 File Management

Table 15 File Management

Title	Description	Type
<i>File Management</i>	Provides an overview of the management model and concepts associated with the File Management managed area.	Descriptive
Manage Files		
<i>Fetch File in Logical File System</i>	Provides the Operation Instructions to fetch files from the logical file system.	Operative
<i>Delete File in Logical File System</i>	Provides the Operation Instructions to delete a file in the logical file system within an ECLI session.	Operative
<i>List File Groups and File Information in Logical File System</i>	Provides the Operation Instructions to list file groups and file information in the logical file system using ECLI.	Operative
Manage File Group Policies		
<i>Configure Preventive Maintenance Policy Deleting Files in Logical File System</i>	Provides the Operation Instructions to configure automatic file deletion policy.	Operative
<i>Configure Preventive Maintenance Policy Reporting Alarms for Logical File System</i>	Provides the Operation Instructions to configure alarm reporting policy.	Operative

2.6.2.6 Transport Management

Documents included in this area are listed in Table 16. This document is intended for personnel configuring route.



Table 16 Transport Management

Title	Description	Type
<i>Configure Route for IPWorks PL Node</i>	Describes how to configure route for IPWorks PL VM.	Operative
<i>Add eVIP Traffic IP for IPWorks</i>	Describes how to add eVIP IP address in signal network traffic interface.	Operative

2.6.3 Performance Management

Documents included in this area are listed in Table 17. These documents are intended for personnel involved in performance monitoring.

Table 17 Performance Management

Title	Description	Type
<i>Performance Management</i>	Provides an overview of the management model and concepts associated with the Performance Management managed area.	Descriptive
<i>IPWorks Measurement List</i>	Provides an overview of the counters for IPWorks.	Reference
<i>IPWorks Measurement List for DL380 Gen9 Platform</i>	Provides an overview of the counters for IPWorks G9 platform.	Reference
<i>IPWorks Performance Measurements</i>	Detailed information about measurements.	Descriptive
<i>IPWorks Application Counters in CUDB</i>	Provides information about the IPWorks application counters in CUDB (Centralized User Database).	Descriptive, Operative
List PM Information		
<i>List Performance Management Groups and Measurement Types</i>	Provides the Operation Instructions to list the PM groups and measurement types.	Operative
<i>List Performance Management Jobs</i>	Provides the Operation Instructions to list PM jobs.	Operative
Manage Measurement Collection Jobs		
<i>Create Measurement Collection Job</i>	Provides the Operation Instructions to create a measurement collection job.	Operative
<i>Start Measurement Collection Job</i>	Provides the Operation Instructions to start a measurement collection job.	Operative
<i>Stop Measurement Collection Job</i>	Provides the Operation Instructions to stop a measurement collection job.	Operative



Table 17 Performance Management

Title	Description	Type
<i>Delete Measurement Collection Job</i>	Provides the Operation Instructions to delete a measurement collection job.	Operative
Manage Threshold Monitoring Jobs		
<i>Create Threshold Monitoring Job</i>	Provides the Operation Instructions to create a threshold monitoring job.	Operative
<i>Start Threshold Monitoring Job</i>	Provides the Operation Instructions to start a threshold monitoring job.	Operative
<i>Stop Threshold Monitoring Job</i>	Provides the Operation Instructions to stop a threshold monitoring job.	Operative
<i>Delete Threshold Monitoring Job</i>	Provides the Operation Instructions to delete a threshold monitoring job.	Operative

2.6.4 Security Management

Documents included in this area are listed in Table 18. These documents are intended for personnel performing security tasks, including supervision and user administration. They are also intended for personnel performing hardening of the product.

Table 18 Security Management

Title	Description	Type
<i>IPWorks Security Management</i>	Describes inherent security features in the IPWorks for interfaces, applications, and protocol.	Descriptive
<i>IPWorks OS Hardening Guide</i>	Describes security management activities for IPWorks system OS.	Descriptive, Operative
<i>IPWorks OS Hardening Guide for KVM</i>	Provides step-by-step instructions to harden the SLES 12 SP2 platform used for the IPWorks application.	Descriptive, Operative
<i>IPWorks Application Components Hardening Guide</i>	Describes security management activities for IPWorks application components.	Descriptive, Operative
<i>IPWorks IPTables Service Configuration</i>	Describes security management activities for IPWorks Iptables service.	Descriptive, Operative
<i>IPWorks Authentication User Guide</i>	Describes IPWorks authentication related activities.	Descriptive, Operative



Table 18 Security Management

Title	Description	Type
<i>Security Management for ECLI, NETCONF, and SFTP Users</i>	Describes an overview of the management model and concepts associated with the Security Management managed area.	Descriptive
LDAP Authentication		
<i>View LDAP Configuration</i>	Describes how to view the Lightweight Directory Access Protocol (LDAP) configuration.	Operative
<i>Unlock LDAP Authentication Method</i>	Describes how to unlock the Lightweight Directory Access Protocol (LDAP) authentication method.	Operative
<i>Lock LDAP Authentication Method</i>	Describes how to lock the Lightweight Directory Access Protocol (LDAP) authentication method.	Operative
<i>Change Bind Name and Password for LDAP Authentication</i>	Describes how to change the bind name and password required for password-based simple bind Lightweight Directory Access Protocol (LDAP) authentication.	Operative
<i>Change Certificate Settings for LDAP TLS</i>	Describes how to change the certificate settings for Lightweight Directory Access Protocol (LDAP) Transport Layer Security (TLS).	Operative
<i>Configure Target-Based Access Control</i>	Describes how to change the Target-Based Access Control (TBAC). TBAC is a selective authentication method that determines if a user is allowed to access a specific Managed Element (ME) based on the target type value.	Operative
Local Authorization		
<i>View Roles and Rules</i>	Describes how to view the roles retrieved from the Lightweight Directory Access Protocol (LDAP) server, the rules delivered by the system, and custom rules.	Operative
<i>Unlock Local Authorization Method</i>	Describes how to unlock the local authorization method.	Operative
<i>Lock Local Authorization Method</i>	Describes how to lock the local authorization method.	Operative
<i>Create Custom Role</i>	Describes how to create a custom role.	Operative



Table 18 Security Management

Title	Description	Type
<i>Change Custom Role</i>	Describes how to change a custom role.	Operative
<i>Delete Custom Role</i>	Describes how to delete a custom role.	Operative
<i>Create Custom Rule</i>	Describes how to change a custom rule.	Operative
<i>Change Custom Rule</i>	Describes how to change a custom rule.	Operative
<i>Delete Custom Rule</i>	Describes how to delete a custom rule.	Operative

2.6.4.1 Certificate Management

Table 19 Certificate Management

Title	Description	Type
<i>Certificate Management</i>	Provides an overview of the management model and concepts associated with the Certificate Management managed area.	Descriptive
Manage Node Credentials Offline		
<i>Install or Renew Node Credential by CSR</i>	Describes how to install or renew a node credential manually with Certificate Signing Request (CSR), PKCS#10.	Operative
<i>Cancel Offline Enrollment</i>	Describes how to cancel an ongoing offline node credential enrollment that is in RUNNING state.	Operative
<i>Install or Renew Node Credential by PKCS 12</i>	Describes how to manually install a node credential directly from a PKCS#12 file containing both a private key and a certificate, or manually renew a node credential.	Operative
<i>Generate Fingerprint for File</i>	Describes how to generate a fingerprint for a file.	Operative
Manage Node Credentials Online		
<i>Configure Enrollment Authority</i>	Describes how to configure an enrollment authority.	Operative
<i>Configure Enrollment Server Group Together with Enrollment Servers</i>	Describes how to configure an enrollment server group.	Operative

Table 19 Certificate Management

Title	Description	Type
<i>Change Enrollment Server</i>	Describes how to change an enrollment server.	Operative
<i>Install Node Credential Online</i>	Describes how to install a node credential online.	Operative
<i>Renew Node Credential Online</i>	Describes how to renew a node credential online.	Operative
<i>Configure Renewal Mode of Node Credential</i>	Describes how to configure the renewal mode of a node credential.	Operative
<i>Delete Enrollment Server</i>	Describes how to delete an EnrollmentServer from the containing EnrollmentServerGroup Managed Object (MO).	Operative
<i>Delete Enrollment Authority</i>	Describes how to delete an EnrollmentAuthority Managed Object (MO) from the CertM MO.	Operative
<i>Delete Enrollment Server Group</i>	Describes how to delete an enrollment server group.	Operative
Delete Node Credentials Offline or Online		
<i>Delete Node Credential</i>	Describes how to delete a node credential.	Operative
Manage Trusted Certificates		
<i>Install Trusted Certificate</i>	Describes how to install a trusted certificate.	Operative
<i>Create Trust Category</i>	Describes how to create a trust category, which is a group of trusted certificates.	Operative
<i>Change Trust Category</i>	Describes how to change a trust category.	Operative
<i>Delete Trust Category</i>	Describes how to delete a trust category, which is a group of trusted certificates.	Operative
<i>Disable Trusted Certificate</i>	Describes how to disable a trusted certificate.	Operative
<i>Enable Trusted Certificate</i>	Describes how to enable a trusted certificate.	Operative
<i>Delete Trusted Certificate</i>	Describes how to delete a trusted certificate.	Operative



2.6.4.2 Local Authentication Management

Table 20 Local Authentication Management

Title	Description	Type
<i>Local Authentication Management</i>	Provides an overview of the management model and concepts associated with the Local Authentication managed area.	Descriptive
Manage O&M User Accounts		
<i>Create User Account</i>	Describes how to create a local Operation and Maintenance (O&M) user account.	Operative
<i>Change User Account</i>	Describes how to change attributes in an existing local Operation and Maintenance (O&M) user account.	Operative
<i>Delete User Account</i>	Describes how to delete a local Operation and Maintenance (O&M) user account.	Operative
<i>Create Password Policy</i>	Describes how to create a password policy applicable for local Operation and Maintenance (O&M) user accounts.	Operative
<i>Change Password Policy</i>	Describes how to change attributes in an existing password policy applicable for local Operation and Maintenance (O&M) user accounts.	Operative
<i>Delete Password Policy</i>	Describes how to delete a password policy.	Operative
<i>Change Password Quality Configuration</i>	Describes how to change the password quality settings applicable for local Operation and Maintenance (O&M) user accounts.	Operative
<i>Reset Password for User Account</i>	Describes how the administrator can reset password for a local Operation and Maintenance (O&M) user account.	Operative
<i>Create Account Policy</i>	Describes how to create an account policy applicable for the local Operation and Maintenance (O&M) user accounts.	Operative
<i>Change Account Policy</i>	Describes how to change an account policy applicable for the local Operation and Maintenance (O&M) user accounts.	Operative

Table 20 Local Authentication Management

Title	Description	Type
<i>Delete Account Policy</i>	Describes how to delete an account policy.	Operative
<i>Lock User Account Administratively</i>	Describes how the administrator can lock a local Operation and Maintenance (O&M) user account.	Operative
<i>Set User Roles for User Account</i>	Describes how to configure roles for a local Operation and Maintenance (O&M) user account. Roles are used to control which parts of the node resources the local user is allowed to access.	Operative
<i>Unlock Administrative Lock for User Account</i>	Describes how the administrator can unlock an administratively locked local Operation and Maintenance (O&M) user account.	Operative
<i>Unlock Operational Lock for User Account</i>	Describes how the administrator can unlock a local Operation and Maintenance (O&M) user account that has been locked out by the system.	Operative
<i>Create SSH Public Key</i>	Describes how to create a Secure Shell (SSH) public key managed object for the local Operation and Maintenance (O&M) user account.	Operative
<i>Change SSH Public Key</i>	Describes how to change the Secure Shell (SSH) public key applicable for the local Operation and Maintenance (O&M) user account.	Operative
<i>Delete SSH Public Key</i>	Describes how to delete a Secure Shell (SSH) public key applicable for the local Operation and Maintenance (O&M) user account.	Operative
Manage O&M Administrator Account		
<i>Change Administrator Account</i>	Describes how to change attributes in the specific Administrator account that is used for initial and recovery scenarios when authentication to regular Operation and Maintenance (O&M) accounts is inaccessible.	Operative



2.6.5 SW Management

Documents included in this area are listed in Table 21. These documents are intended for personnel performing preventive maintenance of the software and for personnel involved in troubleshooting. They are also intended for personnel performing backup and restoration.

Table 21 Software Management

Title	Description	Type
<i>Software Management</i>	Provides an overview of the management model and concepts associated with the Software Management managed area.	Descriptive
Software Inventory		
<i>Software Inventory Management</i>	Provides an overview of the management model and concepts associated with the Software Inventory Management managed area.	Descriptive
<i>View Software Information</i>	Provides the Operation Instructions to view the software information.	Operative
Software Upgrade		
<i>Prepare Upgrade Package</i>	Describes the preparation phase of a software upgrade.	Operative
<i>Upgrade Using One-Step Activation</i>	Describes how to perform the execution phase of a software upgrade.	Operative
<i>Delete Upgrade Package</i>	Describes how to delete an upgrade package Managed Object (MO).	Operative
Software Removal		
<i>Delete Inactive Software Version</i>	Describes how to delete an inactive software version from the managed element.	Operative

2.6.5.1 Backup and Restore

Table 22 Backup and Restore

Title	Description	Type
<i>Backup and Restore</i>	Provides an overview of the management model and concepts associated with the Backup and Restore managed area.	Descriptive
Basic Backup Operations		



Table 22 Backup and Restore

Title	Description	Type
<i>Cancel Backup Operation</i>	Provides the Operation Instructions to cancel a backup operation.	Operative
<i>Create Backup</i>	Provides the Operation Instructions to create a manual backup.	Operative
<i>Restore Backup</i>	Provides the Operation Instructions to restore a backup.	Operative
<i>Delete Backup</i>	Provides the Operation Instructions to delete a backup.	Operative
<i>List Backups</i>	Provides the Operation Instructions to list the available backups and backup labels.	Operative
<i>View Progress Report</i>	Provides the Operation Instructions to view the ongoing progress report or the result of the last backup operation.	Operative
Schedule Backups		
<i>Schedule Single Backup</i>	Provides the Operation Instructions to schedule a single backup at a specified time.	Operative
<i>Schedule Backups Based on Calendar Event</i>	Provides the Operation Instructions to schedule a regularly occurring backup.	Operative
<i>Schedule Backups Based on Periodic Event</i>	Provides the Operation Instructions to schedule a backup that is to occur at regular intervals.	Operative
Manage Scheduled Backups		
<i>Change Scheduled Backup Name</i>	Provides the Operation Instructions to change scheduled backup name.	Operative
<i>Set Maximum Number of Scheduled Backups</i>	Provides the Operation Instructions to set the maximum number of scheduled backups.	Operative
<i>Delete Scheduled Event</i>	Provides the Operation Instructions to delete a scheduled event.	Operative
<i>Lock Backup Scheduler</i>	Provides the Operation Instructions to lock the backup scheduler.	Operative
<i>Unlock Backup Scheduler</i>	Provides the Operation Instructions to unlock the backup scheduler.	Operative
Manage Manual Backups		
<i>Change Maximum Number of Manual Backups</i>	Provides the Operation Instructions to change the maximum number of manual user backups.	Operative



Table 22 Backup and Restore

Title	Description	Type
<i>Enable Automatic Deletion of Manual Backups</i>	Provides the Operation Instructions to enable automatic deletion of manual user backups.	Operative
<i>Disable Automatic Deletion of Manual Backups</i>	Provides the Operation Instructions to disable automatic deletion of manual backups.	Operative
Import and Export Backups		
<i>Import Backup</i>	Provides the Operation Instructions to import a backup.	Operative
<i>Export Backup</i>	Provides the Operation Instructions to export a backup to an external storage system.	Operative
<i>Change Prefix for Exported Backup Names</i>	Provides the Operation Instructions to change prefix for exported backup names.	Operative
<i>Set Automatic Export of Scheduled Backups</i>	Provides the Operation Instructions to set automatic export of scheduled backups.	Operative

2.6.5.2 License Management

Table 23 License Management

Title	Description	Type
<i>License Management</i>	Provides an overview of the management model and concepts associated with the License Management managed area.	Descriptive
Manage Installation		
<i>Install License Key File</i>	Provides the Operation Instructions to install license key file.	Operative
Manage License Information		
<i>Update License Information</i>	Provides the Operation Instructions to update license information.	Operative
<i>View License Information</i>	Provides the Operation Instructions to view license information.	Operative

2.6.6 Log Management

Documents included in this area are listed in Table 24. These documents are intended for personnel responsible for managing security logs.

Table 24 Log Management

Title	Description	Type
<i>IPWorks Security Log Management Guide</i>	Describes how to configure the security log for IPWorks.	Descriptive, Operative

2.6.7 Health Check

Documents included in this area are listed in Table 25. These documents are intended for personnel responsible for health check procedures.

Table 25 Health Check

Title	Description	Type
<i>IPWorks Manual Health Check</i>	Describes how to perform manual health check procedures for IPWorks.	Operative
Auto Health Check		
<i>Health Check Management</i>	Provides an overview of the management model and concepts associated with the Health Check Management (HCM) managed area.	Descriptive
<i>IPWorks Auto Health Check</i>	Describes how to perform auto health check procedures for IPWorks.	Operative
Basic Health Check Operations		
<i>List Health Check Rules</i>	Describes how to list the installed health check rules available on a Managed Element (ME).	Operative
<i>Create Health Check Job</i>	Describes the prerequisites, which must be fulfilled before using the procedure.	Operative
<i>Lock Health Check Rule</i>	Describes how to lock a health check rule.	Operative
<i>Unlock Health Check Rule</i>	Describes how to unlock a health check rule	Operative
<i>Modify Health Check Rule Parameter</i>	Describes how to modify values for parameters used when a health check rule is evaluated.	Operative



Table 25 Health Check

Title	Description	Type
<i>Restore Default Value for Health Check Rule Parameter</i>	Describes how to reset default values for parameters used when a health check rule is evaluated	Operative
<i>Execute Health Check Job</i>	Describes how to manually execute a health check job previously created in the Managed Object Model (MOM).	Operative
<i>Execute Health Check Job Providing Export URI</i>	Describes how to manually execute a health check job previously created in the Managed Object Model (MOM) storing the related report file in a local or remote user-defined location.	Operative
<i>List Health Check Jobs</i>	Describes how to list the health check jobs available on IPWorks.	Operative
<i>Modify Health Check Job To Trigger</i>	Describes how to modify the name of the health check job to be triggered if the job execution detects IPWorks status different from HEALTHY.	Operative
<i>Remove Health Check Job To Trigger</i>	Describes how to remove the name of the health check job to be triggered.	Operative
<i>Delete Health Check Job</i>	Describes how to delete a health check job.	Operative
Schedule Health Check Job		
<i>Schedule Single Health Check Job</i>	Describes how to schedule a health check job at a specified time.	Operative
<i>Schedule Health Check Job Based on Calendar Event</i>	Describes how to schedule a regularly occurring health check job execution during a time slice, using a calendar-based periodic event.	Operative
<i>Schedule Health Check Job Based on Periodic Event</i>	Describes how to schedule a health check job execution to occur at regular intervals during a time slice.	Operative
Manage Scheduled Health Check Jobs		
<i>Delete Scheduled Event</i>	Describes how to delete a scheduled event.	Operative
<i>Lock Health Check Job Scheduler</i>	Describes how to lock a health check job scheduler related to a job.	Operative
<i>Unlock Health Check Job Scheduler</i>	Describes how to unlock a health check job scheduler.	Operative



2.6.8 Managed Object Management

Documents included in this area are listed in Table 26.

Table 26 Managed Object Management

Title	Description	Type
<i>Managed Object Model User Guide</i>	Describes the MOM, how to interpret its presentation within CPI, and how to use the MOM when interacting with a MIB.	Descriptive, Operative
<i>Managed Object Model (MOM)</i>	Describes all managed object classes and attributes.	Descriptive

2.7 Emergency

Documents included in this area are listed in Table 27. These documents are intended for personnel authorized to perform an emergency recovery.

Table 27 Emergency

Title	Description	Type
<i>Emergency Recovery Procedure for IPWorks</i>	Information about emergency recovery activities, including procedures and background information.	Descriptive, Operative

2.8 Interface

Documents included in this area are shown are listed in Table 28. These documents are intended for personnel needing to understand the logical entity, including interfaces and protocols.

Table 28 Interface

Title	Description	Type
<i>IPWorks ENUM Server ENUM Clients Interface</i>	Describes the interface between the IPWorks ENUM server and ENUM clients.	Descriptive, Reference
<i>IPWorks ENUM LDAP CUDB Interface</i>	Describes the interface between the IPWorks ENUM FE and the Centralized User Database(CUDB).	Descriptive, Reference
<i>IPWorks ENUM SOAP CUDB Interface</i>	Describes the SOAP interface between the CUDB and the IPWorks ENUM FE.	Descriptive, Reference
<i>IPWorks ERH and NPDB Interface-LDAP</i>	Describes the interface between the IPWorks ERH and NPDB.	Descriptive, Reference



Table 28 Interface

Title	Description	Type
<i>IPWorks SCF INAP Interface</i>	Describes the INAP between IPWorks and SCF node for NP information retrieval.	Descriptive, Reference
<i>IPWorks MNP-SRF MAP Interface</i>	Describes the MAP v3 protocol used between IPWorks and MNP SRF node for MNP information retrieval.	Descriptive, Reference
<i>IPWorks SCP SS7 Interface</i>	Describes the interface between the IPWorks and the external SS7 nodes for LNP and Toll Free functions.	Descriptive, Reference
<i>IPWorks EDA CLI Interface</i>	Describes the interface between the IPWorks and the EMA by using the Command-Line Interface (CLI) and specifies the behavior of the IPWorks CLI for EMA.	Descriptive, Reference
<i>IPWorks 3GPP AAA Server-PDG Wm Interface</i>	Describes the Wm reference point between IPWorks AAA server and the PDG node.	Descriptive, Reference
<i>IPWorks 3GPP AAA Server-WLAN Access Network Wa Interface</i>	Describes the Wa reference point between IPWorks AAA server and the WLAN Access Network.	Descriptive, Reference
<i>IPWorks 3GPP AAA Server-Non-3GPP Access GW STa Interface</i>	Describes the STa interface between the trusted non-3GPP IP access network and the 3GPP AAA Server.	Descriptive, Reference
<i>IPWorks 3GPP AAA Server-HSS SWx Interface</i>	Describes the SWx interface between the 3GPP AAA server and the HSS.	Descriptive, Reference
<i>IPWorks 3GPP AAA Server-PDN GW S6b Interface</i>	Describes the S6b interface between the PDN GW and the 3GPP AAA server in EPC network.	Descriptive, Reference
<i>IPWorks AAA LDAP CUDB Interface</i>	Describes the interface between Authentication, Authorization, Accounting services (AAA) and the Centralized User Database (CUDB).	Descriptive, Reference
<i>IPWorks 3GPP AAA Server-ePDG SWm and SWm+ Interface</i>	Describes the SWm/SWm+ interface between the IPWorks 3GPP AAA Server and ePDG.	Descriptive, Reference
<i>IPWorks 3GPP AAA Server-HLR J' Interface</i>	Describes the J' interface between the IPWorks AAA Server node and the Home Location Register (HLR) node.	Descriptive, Reference
<i>IPWorks 3GPP AAA Server Geography Data Description</i>	Describes IPWorks AAA Server Geography data.	Descriptive, Reference

Table 28 Interface

Title	Description	Type
<i>Radius STaPlus Interface between IPWorks AAA Server and Non-3GPP Access GW</i>	Describes the STa Plus interface between the IPWorks AAA Server node and non-3GPP Access GW.	Descriptive, Reference
<i>IPWorks 3GPP AAA Server-HLR D'/Gr' Interface</i>	Describes IPWorks 3GPP AAA Server-HLR D'/Gr' Interface.	Descriptive, Reference
<i>IPWorks 3GPP AAA Server-EIR S13 Interface</i>	Describes the S13 interface between the 3GPP AAA server and the EIR.	Descriptive, Reference
<i>IPWorks CLF NACF a2 Interface</i>	Describes the protocol used between the CLF and NACF.	Descriptive, Reference
<i>IPWorks AAA Server-AAA Clients Gi Interface</i>	Describes IPWorks Server-AAA Clients Gi Interface.	Descriptive, Reference
<i>IPWorks 3GPP AAA Server-CA OCSP Interface</i>	Describes the OCSP interface between the 3GPP AAA server and ECAS (Ericsson Certificate Administration Server).	Descriptive, Reference
<i>IPWorks 3GPP AAA Server-HLR D' Interface</i>	Describes the D' interface between the IPWorks AAA server node and the Home Location Register (HLR) node.	Descriptive, Reference
<i>IPWorks 3GPP AAA Server-SES SWm' Interface</i>	Describes the SWm' interface between the IPWorks 3GPP AAA Server and SES.	Descriptive, Reference
<i>Ericsson Command-Line Interface</i>	Describes the ECLI, including descriptions of all commands, key combinations, error messages, character support, and examples.	Descriptive, Reference
<i>Ericsson NETCONF Interface</i>	Describes the Ericsson Network Configuration (NETCONF) interface.	Descriptive, Reference
<i>LDAP-Based Authentication and Authorization Interface</i>	Describes the LDAP client capabilities, LDAP configuration supported by the ME and required in the LDAP server for interworking, and the ME LDAP lookup behavior.	Descriptive, Reference
<i>Performance Management Report File Format</i>	Describes the 3GPP® compliant Performance Management (PM) XML file format supported in the PM interfaces.	Descriptive, Reference
<i>AlarmListRebuilt</i>	Describes the AlarmListRebuilt event and how to handle it.	Descriptive, Operative
<i>eVIP, Configuration Fault</i>	Describes the eVIP, Configuration Fault event.	Descriptive, Operative



Table 28 Interface

Title	Description	Type
<i>HeartBeat</i>	Describes the <code>HeartBeat</code> event and how to handle it.	Descriptive, Operative
<i>Ericsson NETCONF Browser User Guide</i>	Describes how to use the Ericsson NETCONF Browser to interact with live node configurations.	Descriptive, Operative
<i>Ericsson NETCONF Browser Technical Product Description</i>	Describes the Ericsson NETCONF Browser (ENB).	Descriptive