

# IPWorks Library Changes from 1.12 R6A to 2.0 R1A

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## LIBRARY REVISION INFORMATION

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# 1 Introduction

This document shows the changes in the IPWorks library between the following releases:

**From** Ericsson IPWorks 1.12, EN/LZN 768 0144/2 R6A

**To** Ericsson IPWorks 2.0, EN/LZN 768 0144/3 R1A

The following changes are shown:

- Documents added
- Documents changed
- Documents removed

The reason for a change is described, for example, new, updated, or removed features, as well as corrected faults and responses to change requests.

Minor changes, however, such as language corrections, link errors, and editorial improvements are not shown in the tables below unless these are the only corrections in the update.

## 2 Description of Changes

The structure in this section reflects the structure of the current library.

### 2.1 New and Changed Documents

#### 2.1.1 Safety and Environment

*Table 1 Safety and Environment*

Title	Identity	Change
<i>Personal Health and Safety Information</i>	124 46-2885	Updated section 4.1 to clarify that all redundant AC feeds must be switched off before starting work on the equipment.  Updated revision because of formatting issues in previous release.



## 2.1.2 Product Overview

Table 2 Product Overview

Title	Identity	Change
<i>IPWorks Technical Description</i>	221 02-FGC 101 3568	Update for IPW 2.0 release.  Editorial changes: delete document "Configure SS7 for AAA and ENUM NP, Mixed" from section "Reference List".
<i>IPWorks FOSS Licenses</i>	1/0962-AVA 901 33/3	Update for IPW 2.0 release.
<i>Virtualized IPWorks Infrastructure Requirements</i>	1/1056-AVA 901 33/3	IPWorks 2 configuration: Remove directly about 2+2+2 deployment content.  Upgrade OSPF to Static Routing: Remove BFD and OSPF related info.  Update flavor configuration change.

## 2.1.3 Planning

Table 3 Planning

Title	Identity	Change
<i>IPWorks 2 Characteristics</i>	155 02-FGC 101 3568	IPWorks 2 configuration: Remove content related to extended configuration.  ESM: Update flavor configuration change in section 2.1.2 and 2.2.2.  DHCP: add DHCP information.
<i>IPWorks Dimensioning Guideline</i>	1/192 02-FGC 101 3568	IPWorks 2 configuration: Remove content related to extended configuration.  Editorial changes.  IPWorks2: update the images with data.
<i>IPWorks 2 Network Impact Report</i>	2/109 48-FGC 101 3568	Add the description about OSPF to static routing during upgrade from 1.12 to 2.0 in section 2.9
<i>IPWorks Network Connectivity Overview</i>	1/1551-AVA 901 33/3	IPWorks 2 configuration: Remove content related to extended configuration.  BSP Deployment Script Refine: Remove OSPF related info, replace "CMX" with "router", update table 5-7.  Editorial changes: change CEE revision in Reference List.
<i>IPWorks Network Connectivity Overview for KVM</i>	8/1551-AVA 901 33/3	IPWorks 2 configuration: Remove content related to extended configuration.  Upgrade OSPF to Static Routing: Remove all info related to OSPF; PL-3~PL-6 replaced with FEE1~FEE4 in IP address variable name.
<i>IPWorks Site Dependent Parameters</i>	4/006 51-AVA 901 33/3	BSP Deployment Script Refine: Update "IPWorks Site Parameters".



## 2.1.4 Data Migration

Table 4 Data Migration

Title	Identity	Change
<i>Data Migration from IPWorks HP 15B FD1 CP3 to IPWorks 2</i>	25/1553-AVA 901 33/3	<p>Add new folder "from_15B" in folder "datamigrationtool".</p> <p>IPWorks 2 configuration: Remove directly about 2+2+2 deployment content.</p> <p>Replcae IPWorks 1 with IPWorks 2.</p> <p>Add a note in step 5 in section 5.1.1</p>

## 2.1.5 Operation and Maintenance

Table 5 Operation and Maintenance/Fault Management

Title	Identity	Change
<i>IPWorks Fault Management Guide for DL380 Gen9 Platform</i>	3/1553-AVA 901 33/3	<p>Fix TR#HW52293: update the example in section 4.3.7.3.2 and 4.3.7.3.4.</p> <p>Fix TR#HW69986: update command change in section 4.2.1.</p>
<i>IPWorks Trace User Guide</i>	9/1553-AVA 901 33/3	Fix TR#HW54356: Add sections "Enabling Trace Feature" and "Disabling Trace Feature".
<i>IPWorks Alarm List</i>	2/006 51-AVA 901 33/3	ESM: Update amf command related content.
<i>ERH, Connection Error</i>	59/1543-AVA 901 33/3	ESM: Update amf command related content.

Table 6 Operation and Maintenance/Fault Management/Alarms

Title	Identity	Change
<i>DHCPv4, Exhausted Lease Pool</i>	98/1543-AVA 901 33/3	<i>New document</i>
<i>DHCPv4, Failover Network Disconnect</i>	99/1543-AVA90133/3	<i>New document</i>
<i>DHCPv4, Failover Time Skew</i>	100/1543-AVA 901 33/3	<p><i>New document</i></p> <p>Update Event Type.</p>
<i>DHCPv4, DHCPv4 Pool Active Lease Cross Threshold</i>	101/1543-AVA 901 33/3	<i>New document</i>
<i>DHCPv4, DHCPv4 Server Active Lease Cross Threshold</i>	102/1543-AVA 901 33/3	<i>New document</i>
<i>DHCPv4, Server Failed to Start</i>	103/1543-AVA 901 33/3	<p><i>New document</i></p> <p>Update the description and minor type.</p>
<i>DHCPv4, Server Fatal Shutdown</i>	104/1543-AVA 901 33/3	<i>New document</i>
<i>DHCPv4, DDNS Retries Failed</i>	105/1543-AVA 901 33/3	<i>New document</i>
<i>DHCPv4, DDNS Update Failed</i>	106/1543-AVA 901 33/3	<i>New document</i>

**Table 6** Operation and Maintenance/Fault Management/Alarms

Title	Identity	Change
DHCPv4, DHCPv4 Option82 Parsing Failure Cross Threshold	107/1543-AVA 901 33/3	New document
DHCPv4, DHCPv4 TPS Exceed Threshold	108/1543-AVA 901 33/3	New document
DHCPv4, DHCPv4 TPS Under Low Threshold	109/1543-AVA 901 33/3	New document
DHCPv4, Unknown Message Type	110/1543-AVA 901 33/3	New document
Diameter AAA, Peer Connection Unreachable	46/1543-AVA 901 33/3	Fix #TR HW65752: Add a new section 2.3 Clearing the Alarm
Diameter AAA, Diameter Stack Entered Overload Protection	47/1543-AVA 901 33/3	Comments update: Remove optida related info from section 2.
SS7 CAF ECM Goes Down	11/1543-ANA 901 37	SS7 uplift: Update references.

**Table 7** Operation and Maintenance/Fault Management/Troubleshooting Information

Title	Identity	Change
IPWorks Troubleshooting Guideline	1/154 51-AVA 901 33/3	Workflow: Added related sections. Update the Utility directory. C-dia 2.0 uplift: Update section 5.17.1, 5.17.2. Comments Update: Add new troubleshooting check point: ScaleOut Failure trigger ScaleOut/ScaleIn Cyclically. ESM: Update amf command related content. Update the command in section 5.1.1.2. Emergency Unlock: add section "Clear the Emergency Unlock Alarm". Comment Update: update the output of command "ipw-ctr status all". DHCP: Add DHCP in the table in section "ps". Add section "Error: Package Verification Failed". Comments update: correct command, ipw-ctr => ipw-ctr. Comments update: Remove optida related info from 2.3.8.

**Table 8** Operation and Maintenance/Fault Management/Data Collection

Title	Identity	Change
Data Collection Guideline for IPWorks	2/1543-AVA 901 33/3	DHCP: add related information. C-dia 2.0 uplift: Update section 4.8.1. DHCP: add DHCP in section "Data Collection".





**Table 9 Operation and Maintenance/Configuration Management**

Title	Identity	Change
<i>IPWorks Configuration Management</i>	6/1551-AVA 901 33/3	IPWorks 2 configuration: Change description content in section 11 table 9, row 3.  Cia 2.0 uplift: update the figure in section 8.2.1. Change <SC IP address> to <MIP_OAM_IP>.  Comment Update: Update the description of "status all".
<i>Configure DNS and ENUM</i>	7/1543-AVA 901 33/3	IPv6 supported: add related information.  Comments update: BindServer => BindService.  Fix TR#55976: Add new section 3.2.6.3 Creating MonitorMethod with the SnmpMonitor Script  Fix #HW54641#, Add some description in the note in section 3.1.3.4  Fix #HW56051#: Change discardErhFailure to false in section 4.4.1.2.
<i>Configure Radius AAA</i>	49/1543-AVA 901 33/3	IPv6 supported: add related information.
<i>Configure EPC AAA</i>	38/1543-AVA 901 33/3	IPv6 supported: add related information.  Comments update: Add one note in section 2.6.4.  Fix TR#HW54519# - Update the note in section 2.6.4 Configuring Wi-Fi Mobility Management 3GPP CS Parameters
<i>Configure DHCP</i>	74/1543-AVA 901 33/3	<i>New document</i>  Fix TR#HW53224: Add a description in section "Failover Load Balancing".  DHCP: Update step 1 in section "Configuring NACF-CLF Interface Parameter".
<i>Configure User Account</i>	9/1543-AVA 901 33/3	Comment update: Update the section "Changing Password" of updating password in ECLI.
<i>IPWorks Geographic Redundancy</i>	3/1543-AVA 901 33/3	IPv6 supported: add related information.  Editorial changes in Reference List.
<i>IPWorks DNS, ASDNS, ENUM Parameter Description</i>	3/190 84-AVA 901 33/3	Comments Update: Fix typo in section 4.2.1.  Fix the TR #HW66885#: Delete the three parameters in section 4.3.5 DestNode
<i>IPWorks DHCP Parameter Description</i>	4/190 84-AVA 901 33/3	<i>New document</i>  DHCP: Update the output format in section "Option".
<i>Command Line Interface User Guide for IPWorks SS</i>	2/1553-AVA 901 33/3	DHCP: add DHCP related information; Update the example output of "Showing DNS Option".
<i>IPWorks DNS Management User Guide</i>	28/1553-AVA 901 33/3	Update the Utility directory.

**Table 10 Operation and Maintenance/Configuration Management/Diameter Management**

Title	Identity	Change
<i>Diameter Stack Configuration Guide</i>	8/1553-AVA 901 33/3	IPWorks 2 configuration: Delete content in section 1.1 Prerequisites, step 3.

**Table 11**    *Operation and Maintenance/Configuration Management/Scaling Management*

<b>Title</b>	<b>Identity</b>	<b>Change</b>
<i>IPWorks Scaling Guide for CEE</i>	29/1553-AVA 901 33/3	<p>IPWorks 2 configuration: add note in section 1 about “DHCP, and DNS (pure) don’t support scaling”.</p> <p>ESM: Update amf command related content.</p> <p>CPI note CAL#76885: Update the note in step 2 section “Deploying IPWorks Stack”. SS7 uplift: update section 1.2.1.</p>
<i>IPWorks Scaling Guide for KVM</i>	30/1553-AVA 901 33/3	<p>Update the Utility directory.</p> <p>IPWorks 2 configuration: add note in section 1 about “DHCP, and DNS (pure) don’t support scaling”.</p> <p>Upgrade OSPF to Static Routing: Update section 1.2.4.</p> <p>ESM: Update amf command related content.</p> <p>CPI note CAL#78123: Remove "Atlas".</p> <p>CPI note CAL#78124: update the description of CPU mask configuration in section 1.2.5.</p> <p>SS7 uplift: update section 1.2.1. CAL#78174: Remove "CEE" from section 2.3.1.</p> <p>Comments update: update section 1.2.5 for "PMD_CPU_MASK_PRIME" and "NO_PMD_CPU_MASK_PRIME".</p>

**Table 12**    *Operation and Maintenance/Configuration Management/SS7 Management*

<b>Title</b>	<b>Identity</b>	<b>Change</b>
<i>Configure SS7 for ENUM Number Portability</i>	1/1543-AVA 901 33/3	<p>IPW 2 configuration: Update for 2+2+2 deployment related content.</p> <p>ESM: Update amf command related content.</p> <p>SS7 uplift: update section 2.4, 3.5, 3.9, 3.10, 3.11, 4 and 5.</p>
<i>Configure SS7 for AAA</i>	39/1543-AVA 901 33/3	<p>IPv6 supported: add related information.</p> <p>IPWorks 2 configuration: Remove directly about 2+2+2 deployment content.</p> <p>ESM: Update amf command related content.</p> <p>SS7 uplift: update section 2.4, table 1, remove "Removing SS7 Configuration of Diameter over SCTP" section, update section 5.4, 5.5, 5.6, 5.7, 5.8, 5.9 and 7.</p>
<i>Configuring SS7, SCTP</i>	1/1543-CNA 403 0874/1	SS7 uplift: Update the reference doc.
<i>Configuring SS7 Signaling Network, SCCP, M3</i>	3/1543-CNA 403 0874/1	SS7 uplift: Update the reference doc.
<i>Configuring SS7 System Components</i>	11/1543-CNA 403 0874/1	SS7 uplift: Update the reference doc.
<i>Configuring SS7 TCAP</i>	4/1543-CNA 403 0874/1	SS7 uplift: Update the reference doc.
<i>Configuring SS7, INAP</i>	12/1543-CNA 403 0874/1	SS7 uplift: Update the reference doc.
<i>Configuring SS7, MAP</i>	13/1543-CNA 403 0874/1	SS7 uplift: Update the reference doc.
<i>Signaling Manager User Guide</i>	1553-CNA 403 0874/1	SS7 uplift: Update the reference doc.



**Table 13** Operation and Maintenance/Configuration Management/Transport Management

Title	Identity	Change
Configure Route for IPWorks PL Node	37/1543-AVA 901 33/3	IPWorks 2 configuration: Remove directly about 2+2+2 deployment content.  BSP Network Script Refine: Update section 2.1 and 2.2.
Add eVIP Traffic IP for IPWorks	77/1543-AVA 901 33/3	BSP Network Script Refine: Remove OSPF configuration steps from section 2.2.2.

**Table 14** Operation and Maintenance/Performance Management

Title	Identity	Change
IPWorks Measurement List	3/006 51-AVA 901 33/3	Comments Update: Update the description of "ipworksDiameterAAHealthStatus".  DHCP: add related counters descriptions.  ESM: Update amf command related content.  DHCP: Fix typo issue in Condition of section "ipworksDhcpv4CountDHCPReleases", update the format in section "DHCPv4FormatErrorGroup".
IPWorks Application Counters in CUDB	27/1553-AVA 901 33/3	Update the Utility directory.

**Table 15** Operation and Maintenance/Security Management

Title	Identity	Change
IPWorks Security Management	5/1551-AVA 901 33/3	DHCP: Add missing DHCP related info.
IPWorks OS Hardening Guide	10/1553-AVA 901 33/3	Fix TR#HW43012: Update section 3.1.1
IPWorks OS Hardening Guide for KVM	13/1553-AVA 901 33/3	SUSE SP2 patch: Add section "Installing SUSE Patches".
IPWorks Application Components Hardening Guide	11/1553-AVA 901 33/3	Add DHCP related information; rearrange the contents order in section "Overview".
IPWorks Iptables Service Configuration	20/1553-AVA 901 33/3	DHCP: Update the figure "Iptables Hardening Interfaces"; add DHCP information in table "IPWorks Services"; update the file "IptablesConfigurationExample".
Create Password Policy	92/1543-AVA 901 33/3	New doc number

**Table 16** Operation and Maintenance/SW Management

Title	Identity	Change
Prepare Upgrade Package	50/1543-AVA 901 33/3	IPW 2.0 Upgrade: Update the product name and number, update the command outputs.  IPW 2.0 Upgrade: Add reference link in step 8 in section 2.
Upgrade Using One-Step Activation	52/1543-AVA 901 33/3	Comments Update: Update upgrade package name; update note in step 3 in section 2; update the command output in step 12.  IPW 2.0 Upgrade: Update step 9 in section 2.

**Table 17** *Operation and Maintenance/SW Management/Backup and Restore*

Title	Identity	Change
<i>Restore Backup</i>	16/1543-AVA 901 33/3	ESM: Update amf command related content. Fix TR#HW71719: Add section 2.1. Fix TR#HW73372: Add the step 1 in section 2.3.
<i>Export Backup</i>	32/1543-AVA 901 33/3	Comments Update: Update step 5 in section 2.

**Table 18** *Operation and Maintenance/SW Management/License Management*

Title	Identity	Change
<i>License Management</i>	10/1551-AVA 901 33/3	Add DHCP related contentd. Emergency Unlock: delete the Emergency Unlock information and update the figure License Management State Transitions.

**Table 19** *Operation and Maintenance/Log Management*

Title	Identity	Change
<i>IPWorks Security Log Management Guide</i>	6/1553-AVA 901 33/3	IPv6 supported: add related information. Editorial changes in Reference List.

**Table 20** *Operation and Maintenance/Health Check*

Title	Identity	Change
<i>IPWorks Manual Health Check</i>	4/1543-AVA 901 33/3	DHCP: Add related information. Fix TR#HW54498: Update the command in step 1 in section 2.7. CAL#78693: Update step 2 in section 2.14.5.

**Table 21** *Operation and Maintenance/Managed Object Management*

Title	Identity	Change
<i>Managed Object Model (MOM)</i>	190 89-LZN 768 0145/3	DHCP: Update DHCP related information. 2PP uplift: CMW, COM, LDEwS.

## 2.1.6 Emergency

**Table 22** *Emergency*

Title	Identity	Change
<i>Emergency Recovery Procedure for IPWorks</i>	1/154 32-AVA 901 33/3	Fix TR#HW59382: Add a new step in "Recover the SC node"; CAL#78071, CAL#78073: Fix typo issue in "Recover the SC node". CAL#78904: "heat" commands updated to "openstack stack" commands. TR#HW69376: add 2 new sections "IPWorks environment file, images and yaml file missing". CAL#78861: Add one step in section 4.9.2.



## 2.1.7 Templates

*Table 23 Templates*

Title	Identity	Change
Templates of IPWorks Auto Deployment for KVM	3/190 89-EN/LZN 768 0145/2	Fix TR#HW52726: update the template files.
IPtables_Example	2/190 89-EN/LZN 768 0145/2	DHCP: Add DHCP information to "IPWorks IPTables Service Configuration", update this file.

## 2.2 Removed Documents

*Table 24 Documents Removed from Library*

Title	Identity	Comment
Configure SS7 for AAA and ENUM NP, Mixed	6/1543-AVA 901 33/3	IPW 2 Configuration: Remove it from 2.0 scope.