Ultra Cloud Core 5G User Plane Function, Release 2021.02

Documentation Map

First Published: 2021-05-31

Last Updated: 2021-10-29

Table 1 UCC 5G UPF Documentation Map

Information Type	Documentation	Description
UCC 5G architecture	UCC 5G UPF Configuration and Administration Guide, Release 2021.02.0 > 5G Architecture	Describes the Ultra Cloud Core 5G architecture.
Product overview	UCC 5G UPF Configuration and Administration Guide, Release 2021.02.0 > 5G-UPF Overview chapter	Provides an overview of the 5G UPF network function, architecture, supported use cases, etc.
Deployment information	UCC 5G UPF Configuration and Administration Guide, Release 2021.02.0 > 5G-UPF Deployment Information chapter	Provides information on deploying UPF. **NOTE:** For information on non-UPF components in the deployment, contact your Cisco Account representative.
	VPC-DI System Administration Guide, StarOS Release 21.22 VPC-SI System Administration Guide, StarOS Release 21.22	Provides information on the Cisco Virtualized Packet Core–Distributed Instance (VPC-DI) and Virtualized Packet Core–Single Instance (VPC-SI), which consolidates the operations of the physical Cisco ASR 5500 chassis running StarOS into a single Virtual Machine (VM) that can run on commercial off-the-shelf (COTS) servers. **NOTE:** For information on deploying VPC-DI/VPC-SI, contact your Cisco Account representative.
Redundancy Configuration Manager (RCM)	UCC 5G RCM Configuration and Administration Guide, Release 2021.02.0	Provides an overview of RCM, RCM High Availability, RCM IPSec, and N:M UP redundancy.

Information Type	Documentation	Description
Feature overview and configuration	UCC 5G UPF Configuration and Administration Guide, Release 2020.03.0	Describes the various UPF features, their configuration and OAM procedures.
Lawful Intercept Support	*UCC 5G UPF Lawful Interception Configuration Guide, Release 2021.02.0*	Describes Lawful Intercept support in UPF. **NOTE:** To obtain the 5G UPF Lawful Intercept documentation, contact your Cisco Account representative.
Troubleshooting information	UCC 5G UPF Configuration and Administration Guide, Release 2021.02.0 > UPF Troubleshooting Information chapter	Provides troubleshooting information, including logging, monitoring, and debugging procedures.
Bulk Statistics	UCC 5G UPF Configuration and Administration Guide, Release 2021.02.0 > Bulk Statistics Support chapter	Provides information on UPF bulk statistics support. Refer to the Statistics and Counters Reference - Bulkstatistic Descriptions, StarOS Release 21.22 for detailed descriptions.
Release Notes	5G UPF Release Notes, Release 2021.02.x 5G RCM Release Notes, Release 2021.02.x	Provides information on the release and the list of resolved/unresolved defects for the release.
Open Source Software License information	Open Source Software Licenses in the StarOS Release 21.22	Provides information on Open Source software used in StarOS.
Key Performance Indicators (KPIs)	*KPI Reference, StarOS Release 21.22*	Describes Key Performance Indicators. **NOTE:** Not all KPIs are applicable for UPF. To obtain the StarOS KPI reference documentation, contact your Cisco Account representative.
SNMP MIB information	UCC 5G UPF Configuration and Administration Guide, Release 2021.02.0 > Troubleshooting Information chapter > SNMP Support section	Provides information on SNMP MIB support. Refer to SNMP MIB Reference, StarOS Release 21.22 for detailed descriptions.
Authentication, Authorization, and Accounting (AAA) reference	AAA Interface Administration and Reference, StarOS Release 21.22	Describes RADIUS and Diameter attributes supported in StarOS. **NOTE:** Not all RADIUS and Diameter attributes and/or features are applicable to UPF.
Application Detection and Control (ADC)	ADC Administration Guide, StarOS Release 21.22	Describes the ADC in-line service, which is used to detect Peer-to-Peer protocols by analyzing traffic.

Information Type	Documentation	Description
		NOTE: Not all ADC features/functionality are applicable for UPF.
Enhanced Charging Service (ECS) Tethering Detection	ECS Administration Guide, StarOS Release 21.22	Describes the ECS, which is an in-line service feature that enables operators to reduce billing-related costs and gives the ability to offer tiered, detailed, and itemized billing to their subscribers. **NOTE:** Not all ECS features/functionality are applicable for UPF.

THE SPECIFICATIONS AND INFORMATION REGARDING THE PRODUCTS IN THIS MANUAL ARE SUBJECT TO CHANGE WITHOUT NOTICE. ALL STATEMENTS, INFORMATION, AND RECOMMENDATIONS IN THIS MANUAL ARE BELIEVED TO BE ACCURATE BUT ARE PRESENTED WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED. USERS MUST TAKE FULL RESPONSIBILITY FOR THEIR APPLICATION OF ANY PRODUCTS.

THE SOFTWARE LICENSE AND LIMITED WARRANTY FOR THE ACCOMPANYING PRODUCT ARE SET FORTH IN THE INFORMATION PACKET THAT SHIPPED WITH THE PRODUCT AND ARE INCORPORATED HEREIN BY THIS REFERENCE. IF YOU ARE UNABLE TO LOCATE THE SOFTWARE LICENSE OR LIMITED WARRANTY, CONTACT YOUR CISCO REPRESENTATIVE FOR A COPY.

The Cisco implementation of TCP header compression is an adaptation of a program developed by the University of California, Berkeley (UCB) as part of UCB's public domain version of the UNIX operating system. All rights reserved. Copyright © 1981, Regents of the University of California.

NOTWITHSTANDING ANY OTHER WARRANTY HEREIN, ALL DOCUMENT FILES AND SOFTWARE OF THESE SUPPLIERS ARE PROVIDED "AS IS" WITH ALL FAULTS. CISCO AND THE ABOVE-NAMED SUPPLIERS DISCLAIM ALL WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, THOSE OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OR ARISING FROM A COURSE OF DEALING, USAGE, OR TRADE PRACTICE.

IN NO EVENT SHALL CISCO OR ITS SUPPLIERS BE LIABLE FOR ANY INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES, INCLUDING, WITHOUT LIMITATION, LOST PROFITS OR LOSS OR DAMAGE TO DATA ARISING OUT OF THE USE OR INABILITY TO USE THIS MANUAL, EVEN IF CISCO OR ITS SUPPLIERS HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Any Internet Protocol (IP) addresses and phone numbers used in this document are not intended to be actual addresses and phone numbers. Any examples, command display output, network topology diagrams, and other figures included in the document are shown for illustrative purposes only. Any use of actual IP addresses or phone numbers in illustrative content is unintentional and coincidental.

All printed copies and duplicate soft copies of this document are considered uncontrolled. See the current online version for the latest version.

Cisco has more than 200 offices worldwide. Addresses and phone numbers are listed on the Cisco website at www.cisco.com/go/offices.

Cisco and the Cisco logo are trademarks or registered trademarks of Cisco and/or its affiliates in the U.S. and other countries. To view a list of Cisco trademarks, go to this URL: www.cisco.com/go/trademarks. Third-party trademarks mentioned are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (1721R)

© 2021 Cisco Systems, Inc. All rights reserved.